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	Bronze, Stainless & Iron Direct & Pressure Assisted 0.02 - 10 Bar & 0.2 - 12 Bar Pilot Float Valves Bronze, Stainless & Ductile Iron Direct & Pressure Assisted 0 - 10 Bar & 0.7 - 20 Bar  2/2 & 3/2 Coaxial Solenoid Valves Brass, Steel & Stainless Steel Direct Acting 0 - 300 Bar  2/2 & 3/2 Coaxial Valves Brass, Steel & Stainless Steel External Air Pilot 0 - 200 Bar  Electric Actuated Ball Valves Brass, Plastic & Stainless Open/Close, Failsafe & Modulating 0 - 63 Bar  Air Solenoid Valves 2/2, 3/2, 5/2 & 5/3 Way 0 - 7 Bar & 2 - 10 Bar  Mechanical, Hand, Rotary & Foot 3/2, 5/2 & 5/3 Way Pneumatic Valves 0 - 10 Bar  Speed Control, Quick Exhaust, Check & Shuttle Valves, Silencers, Tubing, Plastic & Stainless Push In Fittings.  Filters Regulators Lubricators Standard & Stainless Steel Coalescing & Activated Charcoal 0 - 30 Bar  Air Actuated Valves Angle Seat, Axial Shuttle & Ball Valves Stainless & PTFE 0 - 68 Bar  Water Hammer Arrestors, Air Vent & Vacuum Release, Foot Suction & Silent Check Valves  Dust Collecting Pulse Valves Solenoid & Air Pilot 0.5 - 7 Bar  Pinch, Proportional + Sub Base Valves Aluminium, Brass & Stainless Steel 0 - 150 Bar & 1 - 16 Bar  Cycle Timers, Solenoid Coils & Electrical DIN Connectors	Bronze, Stainless & Iron

Pressure Sustaining Valves

Pilot Float Valves

2/2 & 3/2 Coaxial Solenoid Valves

2/2 & 3/2 Coaxial Air Valves

Electric Actuated Ball Valves

Air Solenoid Valves

> /lechanical Air /alves

Accessories, Fittings, Tubing

RL's, Filters Regulators Lubricators

ir ctuated alves

Arrestors /ent Suction Check Valves

ulse Dust alves

Pinch Proportional Sub Base

Timers, Coils & Connectors

lagnets Y Filters

Brass 2/2 N/Closed Pilot

2/2 N/Oper 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed

2/2 N/Open

Stean

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas

Pressure Reducing Valves Media: air – water – gas – light oil – vacuum Pressure range: 0 to 20 Bar max Media temperature: -40°C to +80°C max Ambient temperature: -10°C to +50°C max Media viscosity: 40 centistokes max

Mounting: any position

Weight (including coil): 175 g, 255g, 475g Opening or Closing time: 20 mSec Max



## 2/2 Brass

1/8 – 3/8 NORMALLY CLOSED 2 WAY DIRECT ACTING 0 – 20 Bar



TYPE PU220AR®

	PRESSURE PRESSURE										
Ø	Ø	Flow		Pres	ssure Ratin	g (Bar)		Max			
Port BSP	Orifice (mm)	Kv Ltr/ min	Coil	Min	AC Max	DC Max	Seals	Media Temp °C	Part Number	List Price	
	1.5	1.2	22001	0	8.5	7	NBR EPDM FKM	80 160 130	PU22001A + voltage PU22001AE + voltage PU22001AV + voltage	£31.44 £38.25 £38.25	
1/8	0.8	0.5	22001	0	20	13	NBR EPDM FKM	80 160 130	PU220011A + voltage PU220011AE + voltage PU220011AV + voltage	£34.57 £42.08 £42.08	
	1.2	0.7	22001	0	16	10	NBR EPDM FKM	80 160 130	PU220012A + voltage PU220012AE + voltage PU220012AV + voltage	£34.57 £42.08 £42.08	
	2.3	2.0	22001	0	8.5	7	NBR EPDM FKM	80 160 130	PU22002A + voltage PU22002AE + voltage PU22002AV + voltage	£31.44 £38.25 £38.25	
1/4	1.2	0.7	22001	0	20	13	NBR EPDM FKM	80 160 130	PU220021A + voltage PU220021AE + voltage PU220021AV + voltage	£34.57 £42.08 £42.08	
	1.5	1.2	22001	0	16	10	NBR EPDM FKM	80 160 130	PU220022A + voltage PU220022AE + voltage PU220022AV + voltage	£34.57 £42.08 £42.08	
3/8	8.0	19.0	22003	0.1	10	7	NBR EPDM FKM	80 160 130	PU22003A + voltage PU22003AE + voltage PU22003AV + voltage	£44.02 £59.29 £59.29	
3/0	8.0	19.0	22005	0.1	16	16	NBR EPDM FKM	80 160 130	PU22003A + voltage + 18W PU22003AE + voltage + 18W PU22003AV + voltage + 18W	£52.27 £67.54 £67.54	

OPTIONS

IP65 Coil & Connector PG9 - (DIN 43650 B 1/8 &1/4 Ports) (DIN 43650A 3/8 Port)

ATEX 22001EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C

ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C

NPT thread

Included +£67.16 +£101.68 +10%

	ELECTRICAL DATA											
	Voltage (-10% + 15%) Continuous duty 100%		Power Co	nsumption	Insulation class	Enclosure	Electrical					
			Inrush	Holding	insulation class	Lilologuic	connections					
~	24 - 110 - 230 (50 or 60 Hz)	22001	11.6 VA	8.5 VA	F 155°C							
=	12 - 24 - 48(DC)	22001	4.5 Watts		1 133 C	15.05	3 spades					
~	12 - 24 - 48 - 110 - 230 -380 (50/60Hz)	22003	23VA	17VA		IP 65	DIN 43650					
=	12 - 24 - 48 (DC)	22003	15 watts		H 180°C	with connector	DIN 40050					
~	24 - 48 - 110 - 230 (50/60 Hz)	22005	33VA	24VA	П 160 С	00111100101	VDE 0110					
=	12 - 24 - 48 - 110 - 220 (DC)	22003	18.5 Watts									
	CONSTRUCTION											

Body: Brass, Tube and internal parts: stainless steel

Seals and gaskets: NBR (Optional EPDM, FKM or HNBR), Moulded Coil: ThermoSet Resin

 REPAIR KIT

 Coil
 Coil size (22001 or 22003 or 22005) + voltage

Complete plunger assembly Coil size + seal material

#### OVERALL DIMENSIONS







Model	R	Α	В	С	D	Е	F	G	Н
PU22001	1/8	22	22	72	15	11	22	7.5	M4xP0.7xL6.5
PU22002	1/4	25.4	35	75	18	17.5	25.4	12.7	M5xP0.8xL7.0
PU22003	3/8	30	55	79	18	27.5	25	11	M5xP0.8xL7.0

Media: air - water - gas - light oil - vacuum

Pressure range: 0 to 15 bar max Media temperature: 120°C max

Ambient temperature: -10°C to +50°C max

Media viscosity: 50 centistokes max

Mounting: any position

Opening / Closing time: 20 mSec Max



## 2/2 Brass

1/8 - 1/2NORMALLY CLOSED 2 WAY DIRECT ACTING 0 – 15 Bar

## YPE AD612



						PRESSUF	RE			
Ø	Ø		Flow	Pressu	re Rating (	Bar) ∆P	Seals		List	
Port BSP	Orifice (mm)	Coil	Kv Ltr/min	Min	Max AC	Max DC		Part Number	Price	
	3.0		4	0	10	7	NBR +80°C SILICONE +120°C EPDM +120°C FKM +120°C	AD6A + seal + voltage	-	
1/8	4.0		5.5	0	7	5		AD6B + seal + voltage		
	5.0	WPG1	7.2	0	5	3.5		AD6C + seal + voltage	£39.08	
	3.0		4	0	10	7		AD8A + seal + voltage	239.00	
1/4	4.0		5.5	0	7	5		AD8B + seal + voltage		
	5.0		7.2	0	5	3.5		AD8C + seal + voltage		
	4.0		5.5	0	10	7		AD10A + seal + voltage	£69.15	
	6.0	WPG2	10.5	0	5	3.5		AD10B + seal + voltage		
3/8	8.0		16.2	0	2	1.4	T KIVI + 120 C	AD10C + seal + voltage		
3/6	4.0	WPA3	5.5	0	15	10	*PTFE +120°C	AD10A-C3 + seal + voltage		
	6.0	C	10.5	0	7	5	*VST +120°C	AD10B-C3 + seal + voltage	£79.52	
	8.0		16.2	0	3	2		AD10C-C3 + seal + voltage		
	6.0	WPG2	10.5	0	5	3.5		AD12A + seal + voltage	£75.16	
1/2	8.0	WFGZ	16.2	0	2	1.4	,	AD12B + seal + voltage		
1/2	6.0	WPA3	10.5	0	7	5		AD12A-C3 + seal + voltage	£85.54	
	8.0	С	16.2	0	3	2		AD12B-C3 + seal + voltage	200.04	

**OPTIONS** 

IP66 (EN60529:1991+A1:2000) CSA + UL Approved Coil & IP65 LED Connector PG11 - DIN 43650 A

ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (22) (Pressure rating 70% of WPG2 DC rated coil)

\* PTFE, VST, CR, ECO, HNBR or Hypalon Seals

Silver shading ring (ADxxS)

Manual Over Ride

NPT Thread

Other custom made options available upon request

Included
+£101.68
+£15.37
+£30.06
+£45.10
- ~ 10110

+10%

	ELECTRICAL DATA										
	Voltage (-10% + 15%)	Coil	Power Co	nsumption	Insulation	Enclosure	Electrical connections				
	Continuous duty 100%	Coll	Inrush	Holding	class						
~	24 - 110 - 230 (50 or 60 Hz)	WPG1	11.2VA	8.2VA			3 spades				
=	12 - 24 (DC)	WPG1	12 Watts		H 180°C	IP 65 with	DIN 43650A				
~	24 - 110 - 230 (50 or 60 Hz)	WPG2	18.7VA	15.3VA	T 100 C	connector	DIN 40050 VDE 0110				
=	12 - 24 (DC)	WFGZ	18 V	Vatts							
~	24 - 110 - 230 (50 or 60 Hz)	WPA3C	AV88	57VA	N 200°C	IP 54	30cm flying				
=	12 - 24 (DC)	WFASC	33.6 Watts		N 200 C	1F 3 <del>4</del>	lead wire				

CONSTRUCTION

Body: Brass Tube and Spring: 304 Stainless/ Brass Armature: 430F Stainless Other internal parts: Stainless

Shading ring: copper (optional Silver)

Seals and gaskets: FKM (Optional EPDM, NBR, SILICONE, PTFE, VST, CR, ECO, HNBR and Hypalon)

Moulded coil: Resin

#### REPAIR KIT Coil Coil size (WPG1 or WPG2 or WPA3C) + voltage Armature + Seal SP210 + Valve Part Number **OVERALL DIMENSIONS**



Item	Part No	Description
1	SP201-*	Nut
2	SP202-*	Washer
3	SP203-*	Nameplate
5	WPG*	Coil
6	SP206-*	Gasket
7	SP207-*	Connector
9	SP209-*	Core Tube
10	SP210-*	Armature Assembly
17	SP211-*	Valve Body
	* = Valve	Part Number

Model	Α	В	С	F*	G	Н	Kg		
AD6	41	19	85	63	15	10.5	0.47		
AD8	41	19	89	63	15	10.5	0.47		
AD10	50	25	90	65	15	11.7	0.73		
AD12	55	27	91	65	17	13	0.78		
F									

Media: air – water – gas – light oil - vacuum

Pressure range: 0 to 150 Bar max Media temperature: 120°C max

Ambient temperature: -10°C to +50°C max Media viscosity: 50 centistokes max

Mounting: any position

Opening / Closing time: 20 mSec Max



NC

## 2/2 Brass

1/8 NORMALLY CLOSED 2 WAY DIRECT ACTING 0 - 150 Bar TYPE AD6000



	PRESSURE													
Ø	Ø		Flow	Pressu	re Rating (	Bar) ∆P								
Port BSP	Orifice (mm)	Coil	Kv Ltr/min	Min	Max AC	Max DC	Seals	Part Number	List Price					
	1.2		1.1	0	60	42	NBR +80°C SILICONE +120°C EPDM +120°C FKM +120°C *VST +180°C (30 Bar Max)	AD6012 + seal + voltage						
	1.6	WPG1	1.5	0	40	28		AD6016 + seal + voltage	£51.12					
	2.0		1.8	0	20	14		AD6020 + seal + voltage						
	1.2		1.1	0	120	84		AD6112 + seal + voltage						
	1.6	WPG2	1.6	0	60	42		AD6116 + seal + voltage	£72.16					
	2.0		1.8	0	30	21		AD6120 + seal + voltage						
	3.0		4.3	0	20	14		AD6130 + seal + voltage						
1/8	4.0		9.7	0	12	8.4		AD6140 + seal + voltage						
	5.0		10.7	0	10	7		AD6150 + seal + voltage						
	1.2		1.1	0	150	105	*PTFE +180°C (150 Bar)	AD6212 + seal + voltage						
	1.6		1.5	0	80	56	(150 Bai)	AD6216 + seal + voltage						
	2.0	WPA3C	1.8	0	60	42		AD6220 + seal + voltage	£75.16					
	3.0	WPA3C	4.3	0	40	28		AD6230 + seal + voltage	2.75.16					
	4.0		9.7	0	20	14		AD6240 + seal + voltage						
	5.0		10.7	0	15	10.5		AD6250 + seal + voltage						
						OPTIO	NS							

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil & IP65 LED Connector PG11 – DIN 43650 A (Except WPA3C coil IP54) ATEX EExmIIT4 II 2G & 2D IP65 T130°C coil (Pressure rating WPG1 same, WPG2 70% of DC rating, WPA3C not available) \* PTFE, VST, CR, ECO, HNBR or Hypalon Seals

Silver shading ring (ADxxS)

Manual Over Ride NPT Thread

Other custom made options available upon request

Included +£101.68 +£15.37 +£30.06 +£45.10

+10%

Š	Carlot dation made options available aport request											
	ELECTRICAL DATA											
Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Co	onsumption	Insulation	Enclosure	Electrical connections					
			Inrush	Holding	class							
~	24 - 110 - 230 (50 or 60 Hz)	WPG1	11.2VA	8.2VA		IP 65 with connector	3 spades DIN 43650A DIN 40050 VDE 0110					
=	12 - 24 (DC)	WPG1	12	Watts								
?	24 - 110 - 230 (50 or 60 Hz)	WPG2	18.7VA	15.3VA	H 180°C							
II	12 - 24 (DC)	WFGZ	18	Watts	11 100 C							
?	24 - 110 - 230 (50 or 60 Hz)	WPA3C	88VA	57VA		IP54	30 cm flying					
II	12 - 24 (DC)	WEASC	33.6 Watts			1F 3 <del>4</del>	lead wires					
	CONSTRUCTION											

Body: Brass

Tube and Spring: 304 Stainless/ Brass Armature: 430F Stainless Other internal parts: Brass

Shading ring: copper (optional Silver)

Seals and gaskets: FKM (Optional EPDM, NBR, SILICONE, PTFE, VST, CR, FFKM, HNBR and Hypalon)

Moulded coil: Resin

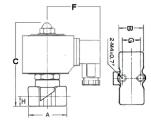
#### **REPAIR KIT**

Coil Coil size (WPG1 or WPG2 or WPA3C) + voltage SP210 + Valve Part Number Armature + seal

#### **OVERALL DIMENSIONS**

	Item	Part No	Description		
2-0	1	SP201-*	Nut		
	2	SP202-*	Washer		
We die	3	SP203-*	Nameplate		
	5	SP205-*	Coil		
1	6	SP206-*	Gasket		
	7	SP207-*	Connector		
	9	SP209-*	Core Tube		
1 950	10	SP210-*	Armature Assembly		
0—{	17	SP211-*	Valve Body		
4	* = Valve Part Number				

Model	Α	В	C	F*	G	Η	Kg
6012-6020	41	19	85	63	15	10.5	0.47
6112-6150	41	19	88	65	15	10.5	0.66
6212-6250	41	19	94	47	15	10.5	0.66



Media: air - water - gas - light oil - vacuum Pressure range: 0 to 150 Bar max Media temperature: 120°C max Ambient temperature: -10°C to +50°C max Media viscosity: 50 centistokes max

Mounting: any position Opening / Closing time: 20 mSec Max



NORMALLY CLOSED 2 WAY DIRECT ACTING 0 – 150 Bar TYPE AD8000

2/2 Brass



PRESSURE Pressure Rating (Bar) ∆P Flow List Port Orifice Coil Seals Part Number Κv Max Max **Price** Min **BSP** (mm) Ltr/min AC DC 1.2 AD8012 + seal + voltage 1.1 0 60 42 1.6 WPG1 1.5 0 40 28 AD8016 + seal + voltage £51.12 2.0 18 0 20 14 AD8020 + seal + voltage 1.2 0 120 AD8112 + seal + voltage 1.1 84 NBR +80°C 1.6 1.6 0 60 42 SILICONE +120°C AD8116 + seal + voltage EPDM +120°C 2.0 1.8 0 30 21 AD8120 + seal + voltage WPG2 £72.16 FKM +120°C 3.0 20 AD8130 + seal + voltage 4.3 0 14 \*VST +180°C 1/4 4.0 9.7 0 12 8.4 AD8140 + seal + voltage (30 Bar Max) 5.0 10.7 0 10 7 AD8150 + seal + voltage AD8212 + seal + voltage 1.2 0 150 105 1.1 \*PTFE +180°C (150 Bar) AD8216 + seal + voltage 1.6 1.5 0 80 56 2.0 0 60 42 1.8 AD8220 + seal + voltage WPA3C £75.16 40 3.0 4.3 0 28 AD8230 + seal + voltage 4.0 9.7 0 20 14 AD8240 + seal + voltage 5.0 10.7 0 15 10.5 AD8250 + seal + voltage

**OPTIONS** IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil & IP65 LED Connector PG11 – DIN 43650 A (Except WPA3C coil IP54) ATEX EExmIIT4 II 2G & 2D IP65 T130°C coil (C) (Pressure rating WPG1 same, WPG2 70% of DC rating, WPA3C not available)

\* PTFE, VST, CR, ECO, HNBR or Hypalon Seals

Silver shading ring (ADxxS) Manual Over Ride

Other custom made options available upon request

Included +£101.68 +£15.37

+£30.06 +£45.10 +10%

**ELECTRICAL DATA Power Consumption** Voltage (-10% + 15%) Electrical Coil Insulation class **Enclosure** connections Continuous duty 100% Inrush Holding 24 - 110 - 230 (50 or 60 Hz) 11.2VA 8.2VA 3 spades WPG1 IP 65 12 - 24 (DC) 12 Watts DIN 43650A with DIN 40050 24 - 110 - 230 (50 or 60 Hz) 18.7VA 15.3VA connector H 180°C WPG2 **VDE 0110** 12 - 24 (DC) 18 Watts 24 - 110 - 230 (50 or 60 Hz) 88VA 57VA 30 cm flying WPA3C IP54 33.6 Watts lead wires 12 - 24 (DC)

CONSTRUCTION

REPAIR KIT

**ENSIONS** 

Body: Brass

Tube and Spring: 304 Stainless/ Brass Armature: 430F Stainless Other internal parts: Brass

Shading ring: copper (optional Silver)

Seals and gaskets: FKM (Optional EPDM, NBR, SILICONE, PTFE, VST, CR, ECO, HNBR and Hypalon)

Moulded coil: Resin

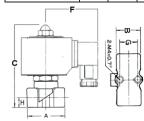
				OVERALL DIM			
1	— ⊕	Item	Part No	Description			
2 —	6 7	1	SP201-*	Nut			
3 —		2	SP202-*	Washer			
		3	SP203-*	Nameplate			
5 —	WE STILL THE STI	5	WP*	Coil			
		6	SP206-*	Gasket			
	illi	7	SP207-*	Connector			
9 —		9	SP209-*	Core Tube			
	18	10	SP210-*	Armature Assembly			
	00	17	SP211-*	Valve Body			
10 —	- {	* = Valve Part Number					

Coil Armature + Seal

7								
	Model	Α	В	С	F*	G	Н	Kg
1	8012-8020	41	19	85	63	15	10.5	0.47
	8112-8150	41	19	88	65	15	10.5	0.66
	8212-8250	41	19	94	47	15	10.5	0.66

Coil size (WPG1 or WPG2 or WPA3C) + voltage

SP210 + Valve Part Number

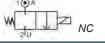


Media: vacuum - air - water - light oil Pressure range: 0 to 200 Bar max Media temperature: -10°C +100°C max Ambient temperature: -20° to +50°C Media viscosity: 50 centistokes max

Mounting: coil upright

Weight 450g

Opening & Closing time: 20mSec Max



#### 2/2 Brass

1/8 - 1/4NORMALLY CLOSED 2 WAY DIRECT ACTING 0 - 200 Bar TYPE W



PRESSURE									
Ø	Ø	Flow	Pressure Ra	nting (Bar)		Part Number			
Port BSP	Orifice (mm)	Kv Ltr/ min	Min	Мах	Seals		List Price		
	0.6	0.2	0	200		W0.6 + seal + port + voltage	£228.64		
	8.0	0.3	0	120		W0.8 + seal + port + voltage	2220.04		
	1.0	0.5	0	50		W1.0 + seal + port + voltage	£154.08		
1/8	1.2	0.67	0	40		W1.2 + seal + port + voltage			
1/0	1.5	0.95	0	30	NBR	W1.5 + seal + port + voltage			
or	2.0	1.6	0	20	FKM	W2.0 + seal + port + voltage			
	2.5	2.3	0	13	EPDM	W2.5 + seal + port + voltage			
1/4	3.0	3.0	0	10		W3.0 + seal + port + voltage			
	4.0	5.0	0	5		W4.0 + seal + port + voltage			
	5	7	0	3		W5.0 + seal + port + voltage			
	6	9.7	0	2		W6.0 + seal + port + voltage			

IP65 Coil & Connector PG9 - DIN 43650 A

NPT Thread 1/8 or 1/4 High Temperature coil

PTFE Seals

Explosion Proof Enclosure ATEX II 2 G/D EExdIICT6, IP65 85°C (Ambient T° from –20°C to +40°C)

Included +£36.04 +£7.52 +£36.04 +£404.78

			ELECTRICA	AL DATA			
	Voltage (-10% + 10%)	Coil Power Inrush		wer	Insulation	Enclosure	Electrical
L	Continuous duty 100%			Holding	class	Liiciosure	connections
	~ 12 - 24 - 48 - 110 - 230 (50 or 60 Hz)		48VA	24VA		IP 65	3 spades DIN 43650
	= 12 - 24 - 48 - 190 (DC)	10065	14 - 20 Watts		F 155°C	with connector	DIN 40050 VDE 0110

CONSTRUCTION

**OPTIONS** 

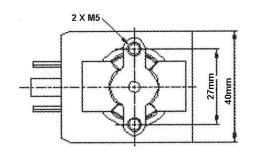
Body: Brass

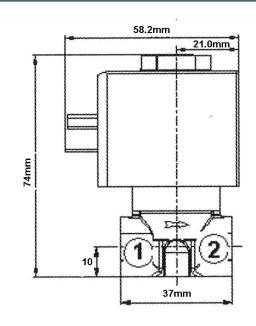
Tube and internal parts: Stainless steel

Seals and gaskets: NBR (Optional EPDM & FKM & PTFE)

Moulded coil: Resin

Wodiaca coil. (Coil)						
REPAIR KIT						
Coil	10065 + voltage					
Complete plunger	KIT + valve part number					
OVERALL DIMENSIONS						



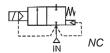


Media: air – water – light oil - vacuum Pressure range: 0 to 10 Bar max Media temperature: +90°C max

Ambient temperature: -20°C to +60°C max Media viscosity: 50 centistokes max

Mounting: coil upright

Opening / Closing Time: 50 mSec Max



# 2/2 Brass WRAS

3/8 –1 NORMALLY CLOSED 2 WAY ZERO RATED 0 – 10 Bar TYPE PU220D®



**PRESSURE** Pressure Rating (Bar)  $\Delta P$ Flow Max List Κv AC DC DC Orifice Working Port **Part Number Price** Ltr/ Min **BSP** (mm) **Pressure** 15 Watt 15 Watt 18.5 Watt min 3/8 13 59 0 7 6 10 PU220D-03A + voltage £74.36 1/2 7 £74.36 13 59 0 6 10 PU220D-04A + voltage 3/4 20 125.5 0 7 5 10 PU220D-06A + voltage £91.93 1 25 170.5 0 7 5 10 PU220D-08A + voltage £114.75 3/8 13 59 0 10 \_ 10 10 PU220D-03A + voltage + 18.5W £82.61 1/2 13 59 0 10 10 10 PU220D-04A + voltage + 18.5W £82.61 3/4 20 125.5 0 10 10 10 PU220D-06A + voltage + 18.5W £100.18 1 25 170.5 10 10 10 PU220D-08A + voltage + 18.5W £123.00

**OPTIONS** 

22003 IP65 CE Approved Coil & Connector PG9 – DIN 43650 A Connector ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C ( (Max △P 3 Bar)

22005 18.5 Watt high power coil for 7 bar DC NPT Thread

Included +£101.68 +£8.25 +10%

**ELECTRICAL DATA Power Consumption** Voltage (-10% + 10%) **Electrical** Coil Insulation class **Enclosure** Continuous duty 100% connections Inrush Holding 12-24-48-110-240-380 (50/60 Hz) 23VA 17VA 3 spades IP 65 22003 DIN 43650A 12 - 24 - 48 - 110 -220 (DC) 15 Watts H 180°C with DIN 40050 connector 12 - 24 - 48 - 110 -220 (DC) 22005 18.5 Watts **VDE 0110** 

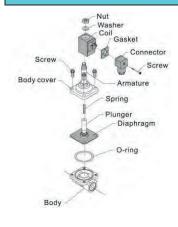
CONSTRUCTION

Body: Brass

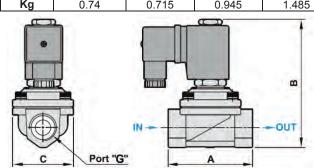
Tube and internal parts: Stainless steel Seals and gaskets: EPDM WRAS Certified Nass Magnet Moulded coil: ThermoSet Resin

WRAS certified and pressure tested to 10.5 bar 90°C hot and cold water 200,000 cycles. Approval no 1704353

REPAIR KIT						
Diaphragm seal	PU220D + port + diaphragm					
Coil	22003 or 22005 + voltage					
Complete plunger assembly	PU220D - armature					
OVERALL DIMENSIONS						



Model	PU22003	PU22004A	PU22006A	PU22008A
Wodei	PU22003	PU22004A	FU22006A	FU22006A
Port R	3/8	1/2	3/4	1
Α	66.5	66.5	71.0	96.0
В	101.0	101.0	107.0	120.5
С	48.0	48.0	58.0	70.0
Κα	0.74	0.715	0.045	1 105



2/2 & 3/2 Coaxial Solenoid Valves

> Electric Actuated Ball Valves

Air Solenoid Valves

Mechanical Air Valves

Fittings, Tubing

FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors
Vent Suction
Check Valves

Proportional
Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filters

Brass 2/2 N/Closed Pilot

2/2 N/Oper 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

> 2/2 N/Open

> > Steam

Plastic 2/2 N/Closed

Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas

Pressure Reducing Valves Media: air – water – light oil - vacuum Pressure range: 0 to 5 or 0 to 16 Bar max Media temperature: -40°C to +150°C max Ambient temperature: -20°C to +60°C max Media viscosity: 50 centistokes max

Mounting: coil upright

Opening / Closing Time: 50 mSec Max



#### 2/2 Brass

3/8 –1 NORMALLY CLOSED 2 WAY ZERO RATED 0 – 5 or 16 Bar TYPE PU220®



**PRESSURE** Pressure Rating (Bar) Flow Ø Max DC Coil AC Coil Κv Orifice Port Seals Media Part Number **Price** Ltr/ Min BSP (mm) Temp. °C 18.5 Watt 18.5 Watt min Watt Watt PU22003 + voltage £74.36 NBR 80 0 FKM 120 PU22003V + voltage 3/8 13 35 5 £91.81 8.5 PU22003E + voltage £91.81 **EPDM** 150 NBR 80 PU22004A + voltage £74.36 1/2 13 35 0 5 8.5 FKM 120 PU22004AV + voltage £91.81 **EPDM** 150 PU22004AE + voltage £91.81 NBR 80 PU22006A + voltage £91.93 20 72 0 5 8.5 FKM 120 PU22006AV + voltage £98.75 **EPDM** 150 PU22006AE + voltage £98.75 PU22008A + voltage NBR 80 £114.75 PU22008AV + voltage 1 25 183 0 5 7 FKM £124.96 120 **EPDM** £124.96 PU22008AE + voltage 150 PU22003 + voltage +18W PU22003V + voltage+18W NBR 80 £82.61 3/8 13 35 0 12 12 FKM 120 £100.06 **EPDM** 150 PU22003E + voltage+18W £100.06 NBR 80 PU22004A + voltage+18W £82.61 1/2 13 35 0 12 12 FKM 120 PU22004AV + voltage+18W £100.06 PU22004AE + voltage+18W £100.06 **EPDM** 150 NBR 80 PU22006A + voltage+18W £100.18 PU22006AV + voltage+18W 3/4 20 72 0 16 16 FKM £107.00 120 PU22006AE + voltage+18W **EPDM** £107.00 150 PU22008A + voltage+18W £123.00 NBR 80 PU22008AV + voltage+18W 1 25 183 0 16 16 FKM 120 £133.21

**OPTIONS** 

**EPDM** 

150

22003 IP65 CE Approved Coil & Connector PG9 – DIN 43650 A Connector ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (Max △P 3 Bar)

Included +£101.68 +10%

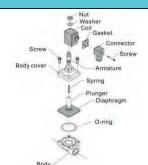
£133.21

ELECTRICAL DATA							
	Voltage (-10% + 10%)	Coil	Power Con	Power Consumption Insulation class		Enclosure	Electrical
	Continuous duty 100%	Coll	Inrush	Holding	ilisulation class	Liiciosure	connections
~	12 -24-48-110-240-380 (50/60 Hz)	23VA	23VA	17VA			2 anadaa
F	12 - 24 - 48 - 110 (DC)	22003	15 Watts		H 180°C	IP 65 with	3 spades DIN 43650A
^	24-48-110-240- 380 (50/ 60 Hz)	22005	33VA	24VA	П 160 С	connector	DIN 40050 VDE 0110
-	12 - 24 - 48 - 110 (DC)	22005	18.5 V	Vatts			
	CONSTRUCTION						

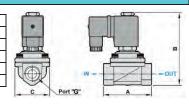
Body: Brass, Tube and internal parts: Stainless steel

Seals and gaskets: NBR (Optional EPDM, FKM or HNBR), Nass Magnet Moulded coil: DuroPlast / ThermoSet Resin

Seals and gaskets. NBK (Optional EPDIM, PKIM of HINDK), Nass Magnet Modified Coll. DufoPlast / Thermoset Resin					
REPAIR KIT					
Diaphragm seal 22004, 22006 or 22008 + seal material					
Coil	Coil size (22003 or 22005) + voltage				
Complete plunger assembly 225320 + seal material					
OVERALL DIMENSIONS					



Model	PU22003	PU22004A	PU22006A	PU22008A
Port R	3/8	1/2	3/4	1
Α	66.5	66.5	71.0	96.0
В	101.0	101.0	107.0	120.5
С	48.0	48.0	58.0	70.0
Ka	0.74	0.715	0.945	1 485



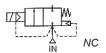
PU22008AE + voltage+18W

Media: air – water – light oil - vacuum Pressure range: 0 to 10 bar max Media temperature: 155°C max

Ambient temperature: -20°C to +60°C max Media viscosity: 50 centistokes max

Media viscosity: 50 centistol Mounting: coil upright

Opening / Closing Time: 50 mSec Max



# 2/2 Brass

3/8 – 2 NORMALLY CLOSED 2 WAY ZERO RATED 0 – 10 Bar



YPE AD14-50

	PRESSURE								
Ø	ø	Flow		Pressure Ratio	ng (bar)		Max		
Port BSP	Orifice (mm)	Kv Ltr/ min	Min	DC Coil	AC Coil	Seals	Media Temp. °C	Part Number	List Price
3/8	13	35	0	7	10	NBR FKM EPDM	80 120 155	AD14N + voltage AD14V + voltage AD14E + voltage	£108.24 £119.06 £119.06
1/2	13	35	0	7	10	NBR FKM EPDM	80 120 155	AD15N + voltage AD15V + voltage AD15E + voltage	£108.24 £119.06 £119.06
3/4	20	72	0	7	10	NBR FKM EPDM	80 120 155	AD20N + voltage AD20V + voltage AD20E + voltage	£123.28 £135.60 £135.60
1	25	183	0	7	10	NBR FKM EPDM	80 120 155	AD25N + voltage AD25V + voltage AD25E + voltage	£180.40 £198.44 £198.44
11/4	35	400	0	7	10	NBR FKM EPDM	90 120 120	AD35N + voltage AD35V + voltage AD35E + voltage	£267.60 £294.36 £294.36
11/2	35	400	0	7	10	NBR FKM EPDM	90 120 120	AD40N + voltage AD40V + voltage AD40E + voltage	£267.60 £294.36 £294.36
2	51	580	0	5	7	NBR FKM EPDM	90 120 120	AD50N + voltage AD50V + voltage AD50E + voltage	£535.18 £588.71 £588.71

**OPTIONS** 

WPG IP67 Coil (EN60529:1991+A1:2000) UL & CSA Approved Coil + IP65 LED Connector PG11 DIN 43650A

ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (Max ΔP 3 Bar)

NPT Thread

Manual Over Ride (Base Mounted Screw T Bar for AD Series)

Included +£101.68 +10% +£90.20

**ELECTRICAL DATA Power Consumption** Voltage (-10% + 10%) **Electrical** Coil Insulation class **Enclosure** Continuous duty 100% connections Inrush Holding 3 spades 24 - 48 - 110 - 240 - 380 (50 or 60 Hz) 18.7VA 15.3VA IP 65 DIN 43650A WPG2 H 180°C with DIN 40050 12 - 24 - 48 - 110 (DC) 18 Watts connector **VDE 0110** CONSTRUCTION

Body: Brass

Tube and internal parts: Stainless steel

Seals and gaskets: NBR (Optional EPDM or FKM or Silicone)

Part No

Moulded coil: Resin

 REPAIR KIT

 Diaphragm seal
 SP215 + valve part number

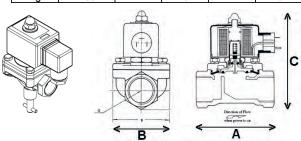
 Coil
 WPG2 + voltage

#### **OVERALL DIMENSIONS**



NO.	Partino	Description
1	SP201*	Nut
2	SP202*	Washer
3	SP203*	Nameplate
5	SP205*	Coil
6	SP206*	Gasket
7	SP207*	Connector
8	SP208*	Core Tube
9	SP209*	Valve Bonnet
10	SP210*	Bolt
11	SP211*	Bonnet O Ring
12	SP212*	Armature Assembly
13	SP213*	Diaphragm Base Kit
14	SP214*	Diaphragm Base
15	SP215*	Diaphragm
16	SP216*	Base O Ring
17	SP217*	Valve Body
	* = Valve	Part Number

Model	AD14 AD15	AD20	AD25	AD35 AD40	AD50
Port R	1/2	3/4	1	11/2	2
Α	75	85	100	120	150
В	52	60	70	90	120
С	103	114	120	140	160
Kg	1.03	1.24	1.51	2.77	4.81



Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanica Air Valves

Accessories Fittings, Tubing

FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors
Vent Suction
Check Valves

Pinch Proportiona Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filters

Media: air - water - light oil - vacuum Pressure range: 0 to 10 Bar max Media temperature: 120° C max Ambient temperature: -20°C to +60°C max Media viscosity: 50 centistokes max Mounting: coil upright

Opening / Closing Time: 50 mSec Max



NC

# 2/2 Brass Flanged

DN15 - DN50 NORMALLY CLOSED 2 WAY ZERO RATED 0 – 10 Bar

TYPE ADF15-50



	PRESSURE								
ø	ø	Flow	Flow Pressure Rating (Bar) ΔP			Max	Seals		List
Port Orifice PN16 (mm)	Orifice (mm)	Kv Ltr/ min	Min	Max AC	Max DC	Working	Temp °C	Part Number	Price
1/2	15	75	0	10	7	10	NBR	AD15PF + seal + voltage	£330.74
3/4	20	155	0	10	7	10	80°C	AD20PF + seal + voltage	£354.78
1	25	220	0	10	7	10	FKM 120°C	AD25PF + seal + voltage	£375.84
11/4	35	433	0	10	7	10	EPDM	AD35PF + seal + voltage	£712.58
11/2	35	433	0	10	7	10	120°C Silicone	AD40PF + seal + voltage	£712.58
2	51	800	0	7	5	10	130°C	AD50PF + seal + voltage	£1250.78

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil & IP65 LED Connector PG11 - DIN 43650 A ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (Max  $\Delta$ P 3 Bar)

ANSI150Lb, JIS10K or other flange

Manual Over Ride (Bottom entry mounted turn T bar) VST, CR, ECO, HNBR, Silicone or Hypalon Seals Other custom made options available upon request

Included +£101.68 +20% +£90.20 +10%

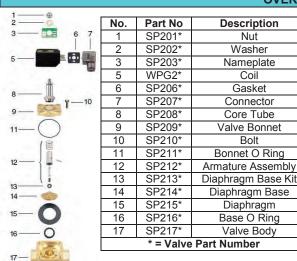
	ELECTRICAL DATA								
	Voltage (-10% + 10%) Continuous duty 100%		Voltage (-10% + 10%) Coil		Insulation		Electrical		
			Inrush	Holding	class	Enclosure	connections		
~	~ 24 - 110 - 230 (50 or 60 Hz) = 12 - 24 (DC)		18.7VA	15.3VA	H 180°C	IP 65 with	3 spades DIN 43650A		
=			18 V	Vatts		connector	DIN 40050 VDE 0110		

CONSTRUCTION

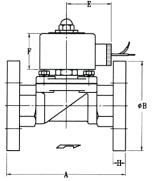
Body: Forged Brass

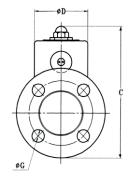
Tube and Spring: 304 Stainless Armature: 430F Stainless other internal parts Brass Seals and gaskets: NBR (Optional EPDM, FKM, Silicone, VST, CR, ECO, HNBR or Hypalon)

Moulded coil: Resin	
REPA	AIR KIT
Coil	WPG2 + voltage
Diaphragm	SP215 + valve part number
OVERALL	DIMENSIONS



Model	Α	В	С	D	G	Н	Kg
AD15F	110			40			
AD20F	120			40			
AD25F	132	125	162	40	19	14	5.35
AD35F	160	135	174	40	19	16	7.75
AD40F	160	140	177	40	19	16	8.00
AD50F	200	155	195	40	19	16	11.0
					470		

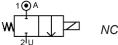




Media: vacuum - air - water Pressure range: 0 to 2 Bar max Media temperature: -10°C +60°C Ambient temperature: -20°C to +60°C Media viscosity: 50 centistokes max

Mounting: coil upright

Open: 250-500 Close: 500-1000 mSec





# 2/2 Bronze + Cast Iron

DN65 - DN100 NORMALLY CLOSED 2 WAY ZERO RATED





	PRESSURE								
Port Ori	Ø	Flow	Pressure Rating (Bar)			Body		List	
	Orifice (mm)	Kv Ltr/ min	Min	Max	Seals Body Material		Part Number	Price	
21/2	80	1367	0	2	NBR	Bronze	LK65B-NBR + voltage	£1974.12	
3	80	1616	0	2	NBR	Bronze	LK80B-NBR + voltage	21974.12	
4	100	2833	0	1	NBR	Cast Iron	LK100C-NBR + voltage	£1231.34	

**OPTIONS** 

IP65 Coil + Connector PG9 – DIN 43650 A ANSI150Lb, JIS10K or other flange

FKM Seals

Included +10% +£315.70

	ELECTRICAL DATA								
Voltage (-10% + 10%)		Coil	Power Consumption		Insulation	Enclosure	Electrical		
	Continuous duty 100%		Inrush	Holding	class	Liiciosare	connections		
~	110 – 230v (50/60 Hz) (Rectified)	22007	30	VA	F 155°C	IP 65 with	3 spades DIN 43650		
=	= 24 – 96 – 196v (DC)		30 V	Vatts	30 0	connector	DIN 40050 VDE 0110		

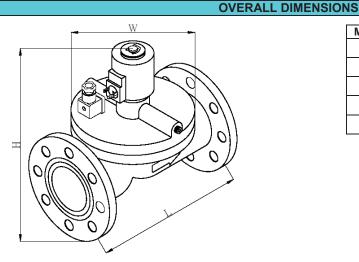
CONSTRUCTION

Body: Bronze or Cast Iron

Tube and internal parts: Stainless steel

Seals and gaskets: NBR

Modided coil. (Yeshi)	
REPAI	R KIT
Diaphragm Seal	SP + Valve Part Number – DIAPHRAGM
Coil	22007 + voltage
Armature	SP + Valve Part Number – ARMATURE



Model	LK65	LK80	LK100
Port	65	80	100
L	290	290	340
Н	336	336	391
W	210	210	270
Kg	21Kg	21Kg	36Kg

Brass 2/2 N/Closed Pilot

> 2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

> 2/2 N/Oper

Stean

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas

Pressure Reducing Valves Media: air – water – gas – light oil Pressure range: 1 to 100 Bar max Media temperature: -30°C +120°C max Ambient temperature: -20°C to +60°C Media viscosity: 50 centistokes max

Mounting: coil upright

Weight: 660g

Opening / Closing time: 100 mSec Max



## 2/2 Brass

1/8 – 3/8 NORMALLY CLOSED 2 WAY SERVO ASSISTED 1 – 100 Bar

# TYPE SAP



Included

+10% +10%

+£30.06

	PRESSURE									
Ø	Ø	Flow	Pressu	ure Rating (Bar) ∆P						
Port Orific	Orifice (mm)	Kv Ltr/ min	Min	Мах	Part Number	List Price				
1/8	5.0	7.2	1	100	SAP6150 + voltage	£117.56				
1/4	5.0	7.2	1	100	SAP8150 + voltage	2117.50				
3/8	5.0	7.2	1	100	SAP10150 + voltage	£124.30				

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil & IP65 LED Connector PG11 – DIN 43650 A EPDM, NBR, SILICONE, VST, CR, ECO, HNBR and Hypalon seals (40 Bar Max) NPT Thread

Silver Shading Ring

Other custom made options available upon request

Voltage (-10% + 10%)

Continuous duty 100% 24 - 48 - 110 - 230 (50 or 60 Hz)

ELECTRICAL DATA									
Power Cor	sumption	Insulation	Enclosure	Electrical					
Inrush	Holding	class	Liiciosure	connections					
18.7VA	15.3VA	11.400°C	IP 65	3 spades DIN 43650					
18 Watts		H 180°C	with connector	DIN 40050 VDE 0110					

Н

10.5

10.5

10.5

G

15

15

15

CONSTRUCTION

Tube and Spring: 304 Stainless Armature: 430F Stainless Other internal parts: Stainless steel Seals and gaskets: PTFE (Optional EPDM, NBR, SILICONE, VST, CR, ECO, HNBR and Hypalon)

Coil

WPG2

Moulded soil Design

12 - 24 - 48 (DC)

Moulded coil: Resin						
REPAIR KIT						
Coil	WPG2 + voltage					
Complete plunger + O' ring Assembly	SP210 + Valve Part Number					
OVERALL DIMENSIONS						

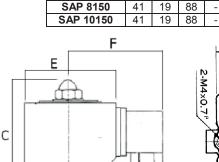
41

du III

В

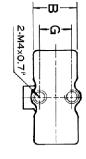
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**Part Number** 

**SAP 6150** 



D

Е

58 65

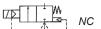
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58 65

C

Media: air - water - gas - light oil Pressure range: 0.5 to 15 Bar max Media temperature: -40°C +160°C max Ambient temperature: -20°C to +60°C Media viscosity: 50 centistokes max

Mounting: coil upright Opening / Closing time: 50 mSec Max



## 2/2 Brass

3/8 - 3" NORMALLY CLOSED 2 WAY SERVO ASSISTED 0.5 - 15 Bar TYPE PU225®



	PRESSURE										
Ø	Ø	Flow		Pressure Ra	ating (Bar) ∆P			Max		1.1-4	
Port BSP	Orifice (mm)	Kv Ltr/ min	Coil	Min	Max	Max Working	Seals	Media Temp. °C	Part Number	List Price	
3/8	13	40.0	22003	0.5	10	15	NBR FKM EPDM	80 130 160	PU22503 + voltage PU22503V + voltage PU22503E + voltage	£61.26 £68.08 £68.08	
1/2	13	40.0	22003	0.5	10	15	NBR FKM EPDM	80 130 160	PU22504A + voltage PU22504AV + voltage PU22504AE + voltage	£61.26 £68.08 £68.08	
3/4	25	165.0	22003	0.5	10	15	NBR FKM EPDM	80 130 160	PU22506A + voltage PU22506AV + voltage PU22506AE + voltage	£91.65 £98.78 £98.78	
1	25	165.0	22003	0.5	10	15	NBR FKM EPDM	80 130 160	PU22508A + voltage PU22508AV + voltage PU22508AE + voltage	£109.75 £119.97 £119.97	
1 1/4	38	367	22003	0.5	10	15	NBR FKM EPDM	80 130 160	PU22512A + voltage PU22512AV + voltage PU22512AE + voltage	£211.02 £227.71 £227.71	
1 1/2	38	500	22003	0.5	10	15	NBR FKM EPDM	80 130 160	PU22514A + voltage PU22514AV + voltage PU22514AE + voltage	£211.02 £227.71 £227.71	
2	50	600	22003	0.5	10	15	NBR FKM EPDM	80 130 160	PU22520A + voltage PU22520AV + voltage PU22520AE + voltage	£297.51 £351.69 £351.69	
21/2	65	1050	16W	0.3	10	15	NBR FKM EPDM	80 140 120	PU22524A + voltage PU22524AV + voltage PU22524AE + voltage	£1200.78 £1260.82 £1260.82	
3	80	1380	16W	0.3	10	15	NBR FKM EPDM	80 140 120	PU22528A + voltage PU22528AV + voltage PU22528AE + voltage	£1244.62 £1306.84 £1306.84	

**OPTIONS** 

IP65 Coil & Connector PG9 - DIN 43650 A NPT Thread (Not available 21/2" & 3")
ATEX EExmIIT4 II 2G & 2D IP65 T130°C

Explosion proof enclosure ATEX II 2 G/D EExdIICT6 IP65 +85°C

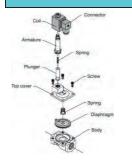
Included +10% +£101.68

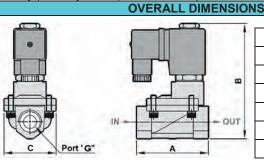
	ELECTRICAL DATA							
	Voltage (-10% + 10%) Continuous duty 100%		Power Consumption		Insulation class	Enclosure	Electrical	
			Inrush	Holding	ilisulation class	Liiciosure	connections	
~	12-24-48-110-220-240-380 (50/60 Hz)	22003	23VA	17VA	H 180°C		2 anadaa	
=	12 – 24 – 48 -110- 220 (DC)	22003	15 Watts		H 160 C	IP 65 with	3 spades DIN 43650A	
~	24-48-110-230 (50/60 Hz)	16W	25VA	15VA	F 155°C	connector	DIN 40050 VDE 0110	
=	12 – 24 – 48 (DC)	1000	16 Watts		1 155 C		VDE 0110	

CONSTRUCTION

Body: Forged Brass SS41, Tube and internal parts: Stainless steel Seals and gaskets: NBR (Optional EPDM, FKM & HNBR)
Moulded coil: 16 W Resin / 22003 Dura Plant Therms 24 Basin

Moulded coil: 16 W Resin / 22003 DuroPlast ThermoSet Resin						
REPAIR KIT						
Diaphragm Seal	225 + Size code (03-28) + seal material					
Coil	Coil type (22003 or 16W) + voltage					
Armature assembly (Normally Closed)	225320VNC					





Port	Α	В	С	Kg
3/8 1/2	66.5	106.5	48	0.725
3/4 1	96	126.5	70	1.565
11/4 11/2	131	145.5	96	2.56
2	130	160.5	112	3.9
21/2	245	186	184	9.5
3	250	196	184	11.23

Brass 2/2 N/Closed Pilot

Media: air – water – gas – fluid Pressure range: 0.5 to 15 Bar max Media temperature: -40°C to +160°C max Ambient temp: -20° to +60° C max Media viscosity: 50 centistokes Mounting: coil upright Opening / Closing: 50 mSec Max



# 2/2 Brass Flanged

DN10 - DN50 NORMALLY CLOSED 2 WAY SERVO ASSISTED 0.5 – 15 Bar TYPE PU225F®



PRESSURE Pressure Rating (Bar) ∆P Flow Ø Ø Max Max Media List Orifice Κv **Part Number** Port Seals Working Temp. °C **Price** Min **PN16** Ltr/ Max (mm) min NBR 80 PU22503F4 + voltage £182.61 **DN10** 13 40 0.5 10 15 **FKM** 130 PU22503F4V + voltage £196.25 **EPDM** PU22503F4E + voltage £196.25 160 PU22504F4 + voltage NBR 80 £182.61 **DN15** 13 40 0.5 10 FKM 130 PU22504F4V + voltage £196.25 15 **EPDM** PU22504F4E + voltage £196.25 160 PU22506F4 + voltage NBR 80 £245.07 **DN20** 25 165 0.5 10 15 FKM 130 PU22506F4V + voltage £252.22 £252.55 **EPDM** PU22506F4E + voltage 160 NBR 80 PU22508F4 + voltage £245.07 **DN25** 25 165 0.5 10 15 FKM 130 PU22508F4V + voltage £252.22 **EPDM** PU22508F4E + voltage £252.55 160 **NBR** 80 PU22512F4 + voltage £377.31 **DN32** 40 450 0.5 10 15 **FKM** 130 PU22512F4V + voltage £394.00 **EPDM** PU22512F4E + voltage £394.00 160 NBR 80 PU22514F4 + voltage £377.31 **DN40** 40 450 0.5 10 15 FKM 130 PU22514F4V + voltage £394.00 £394.00 **EPDM** 160 PU22514F4E + voltage PU22520F4 + voltage **NBR** 80 £541.20 **DN50** 50 600 0.5 10 FKM 130 PU22520F4V + voltage £595.39 **EPDM** £595.39 160 PU22520F4E + voltage

**OPTIONS** 

IP65 Coil & Connector PG9 - DIN 43650 A

ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C

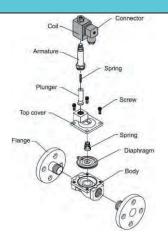
Explosion Proof Enclosure: EExdIICT6 ATEX II 2 G/D IP65 (Custom made) ANSI150Lb(F3), JIS10K (F) or other flange

Included +£101.68 +£404.78 +10%

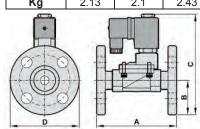
	ELECTRICAL DATA								
	Voltage (-10% + 10%)	Coil	Power Consumption		Insulation	Enclosure	Electrical		
	Continuous duty 100%	Con	Inrush	Holding	class	Eliciosure	connections		
~	12-24-48-110-220-240-380 (50/60 Hz)	22003	23VA	17VA	H 180°C	IP 65 with	3 spades DIN 43650A		
=	12 - 24 – 48-110-220 (DC)	22003	15 Watts		11 100 C	connector	DIN 40050 VDE 0110		

CONSTRUCTION Body: Forged Brass SS41, Flanges: Stainless steel, Tube and internal parts: Stainless steel Seals and gaskets: NBR (Optional EPDM, FKM or HNBR)

Moulded coil: DuroPlast / ThermoSet Resin							
REPAIR KIT							
Diaphragm seals	225 + size code (03-20) + material						
Coil	22003 + voltage						
Complete armature assembly	225320NC + seal material						
OVERALL	OVERALL DIMENSIONS						



Model	PU225 03F	PU225 04F	PU225 06F	PU225 08F	PU225 12F	PU225 14F	PU225 20F
Flange	3/8	1/2	3/4	1	11/4	11/2	2
Α	110.0	110.0	120.0	150.0	180.0	180.0	210.0
В	45.0	47.5	50.0	62.5	67.5	70.0	77.5
С	136.0	138.5	157.5	165.5	173.0	182.5	209.5
Kg	2.13	2.1	2.43	2.41	3.34	3.32	7.55



Media: air – water – gas – light oil Pressure range: 0.5 to 25 Bar max Media temperature: -10°C to +90°C max Ambient temperature: -10° to +60°C Media viscosity: 50 centistokes max

Mounting: coil upright

Opening / Closing time: 50 mSec Max



#### 2/2 Brass

3/8 - 1 NORMALLY CLOSED 2 WAY SERVO ASSISTED 0.5 – 25 Bar TYPE PU225H®



Coaxial Solenoid Valves

Air Valves
Electric

Air Solenoid

> Mechanical Air

£130.85

Included

+£101.68

+ 10%

Accessories Fittings, Tubing

FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors Vent Suction Check Valves

Pinch Proportiona Sub Base

Timers, Coils & Connectors

Magnets & Y Filter

	PRESSURE								
Ø	ø ø Flow		Pressure Ra	ating (Bar) ∆P			List		
Port BSP	Orifice (mm)	Kv Ltr/ min	Min	Max	Seals	Part Number	Price		
					NBR	PU225HB03 + voltage	£70.86		
3/8	8	19.0	0.5	25	EPDM	PU225HE03 + voltage	£71.76		
					FKM	PU225HV03 + voltage	£75.68		
					NBR	PU225HB04A + voltage	£70.86		
1/2	8	19.0	0.5	25	EPDM	PU225HE04A + voltage	£71.76		
					FKM	PU225HV04A + voltage	£75.68		
					NBR	PU225HB06A + voltage	£123.73		
3/4	13	40.0	0.5	25	EPDM	PU225HE06A + voltage	£126.04		
					FKM	PU225HV06A + voltage	£130.85		
					NBR	PU225HB08A + voltage	£123.73		
1	13	40.0	0.5	25	EPDM	PU225HE08A + voltage	£126.04		

**OPTIONS** 

FKM

IP65 Coil & Connector PG9 DIN 43650 AI
ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C 
NPT Thread

**ELECTRICAL DATA** 

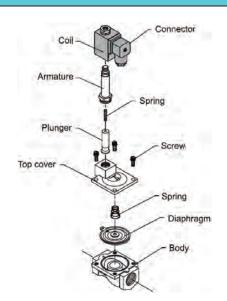
	ELEGINIONE BATA							
	Voltage (-10% + 10%)	Coil	Power Consumption		Insulation class	Enclosure	Electrical	
	Continuous duty 100%	Coll	Inrush	Holding	Ilisulation class	Eliciosure	connections	
~	12-24-48-110-220- 240-380 (50/60 Hz)	22003	23VA	17VA	H 180°C	IP 65 with	3 spades DIN 43650A	
=	12-24-48-110-220 (DC)	22003	15 Watts		H 160 C	connector	DIN 40050 VDE 0110	

CONSTRUCTION

Body: Forged Brass SS41 (Test Pressure 30 Bar) Tube and Internal Parts: Stainless steel

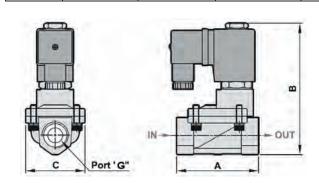
Diaphragm: Nylon reinforced EPDM

REPAIR KIT						
Diaphragm Seal	225H + size code (03-08) + seal material					
Coil	22003 + voltage					
Armature assembly	225320VNC + seal material					
OVERALL DIMENSIONS						



Model	PU225H03	PU225H04	PU225H06	PU225H08		
Port	Port 3/8 1/2		3/4	1		
Α	66.5 66.5		96.0	96.0		
В	<b>B</b> 106.5 10		126.5	126.5		
С	48	48	70	70		
Ka	0.775	0.755	1 55	1.5		

PU225HV08A + voltage



Brass 2/2 N/Closed Pilot

> 2/2 N/Oper 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

> 2/2 N/Open

> > Stea

Plastic 2/2 N/Closec

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas

Pressure Reducing Valves Media: air – water – light oil- gas - fluid

Pressure range: 0.5 to 50 Bar

Media temperature: -10 °C to +90 °C Max Ambient temperature: -10 °C to +60 °C Media viscosity: 50 centistokes max

Mounting: Coil upright

Opening/Closing time: 500 mSec Max



#### 2/2 Brass

3/8 – 1 NORMALLY CLOSED 2 WAY SERVO ASSISTED 0.5 – 50 Bar



TYPE PU225X®

	PRESSURE									
Ø	ø	Flow Pressure Rating (Bar) ∆P								
Port BSP	Orifice (mm)	Kv Ltr/ min	tr/ Min Max		Part Number	List Price				
3/8	13	75	0.5	50	PU225X03 + voltage	£147.99				
1/2	13	75	0.5	50	PU225X04 + voltage	2.147.33				
3/4	25	200	0.5	50	PU225X06 + voltage	£160.70				
1	25	200	0.5	50	PU225X08 + voltage	£160.79				

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C

NPT Thread

Other custom made options available upon request

Included +£101.68 +10%

ELECTRICAL DATA										
Voltage (-10% + 10%)		<b>Power Consumption</b>				Electrical				
Duty rating 100%	Coil	Inrush	Holding	Insulation class	Enclosure	connections				
~ 12-24-48-110-220-240-380 (50/60 Hz)	22003	23VA	17VA	H 180°C	IP 65 with	3 spades DIN 43650				
= 12-24-48-110-220 (DC)	22003	15 Watts		11 100 C	connector	DIN 40050 VDE 0110				
CONSTRUCTION										

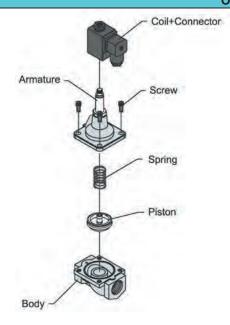
Body: Forged Brass

Tube, Piston and internal parts: Stainless steel

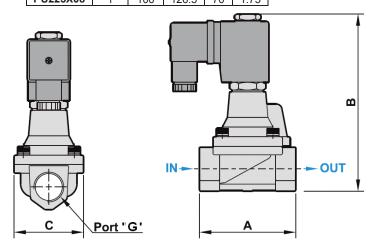
Seals and gaskets: PTFE + NBR

Moulded coil: Resin Test Pressure: 75 bar

Test Pressure: 75 bar						
REPAIR KIT						
Coil	22003 + Voltage					
Complete Armature assembly	SP + Valve Part Number -ARMATURE					
Piston Set	SP + Valve Part Number -PISTON					
OVERALL DIMENSIONS						



Model	Port	Α	В	С	Kg
PU225X03	3/8	66.5	106.5	48	0.86
PU225X04	1/2	66.5	106.5	48	0.84
PU225X06	3/4	100	126.5	70	1.8
P11225X08	1	100	126.5	70	1 75



Media: air - water - light oil - steam Pressure: 0.5 to 120 Bar max Media temperature: +180°C Max Ambient temperature: -30°C to +60°C Media viscosity: 50 centistokes max Mounting: coil upright

Opening / Closing 200 mSec Max



#### 2/2 Brass

3/8 - 2NORMALLY CLOSED 2 WAY SERVO ASSISTED 0.5 - 40, 80 & 120 Bar



TYPE SAH HH & HHH

	DESCRIPTION OF THE PROPERTY OF										
PRESSURE											
Ø	Ø	Flow		Pressure Rating (Bar		List					
Port BSP	Orifice (mm)	Kv Ltr/ min	Min	Max Steam	Max Air/ Water	Part Number	Price				
3/8	15	75	0.5	12	40	SA14H + voltage	£219.48				
1/2	15	75	0.5	12	40	SA15H + voltage	2213.40				
3/4	20	155	0.5	12	40	SA20H + voltage	£228.50				
1	25	220	0.5	12	40	SA25H + voltage	£282.62				
11/4	35	433	0.5	12	40	SA35H + voltage	CE44.00				
11/2	35	433	0.5	12	40	SA40H + voltage	£541.20				
2	50	800	0.5	12	40	SA50H + voltage	£865.92				
3/8	15	75	0.5	12	80	SA14HH + voltage	C260.92				
1/2	15	75	0.5	12	80	SA15HH + voltage	£369.82				
3/4	20	155	0.5	12	80	SA20HH + voltage	£438.98				
1	25	220	0.5	12	80	SA25HH + voltage	£547.22				
11/4	35	433	0.5	12	80	SA35HH + voltage	5002.00				
11/2	35	433	0.5	12	80	SA40HH + voltage	£902.00				
2	50	800	0.5	12	80	SA50HH + voltage	£1307.90				

**OPTIONS** 

IP67 (EN60529:1991+A1:2000) UL + CSA approved Coil + IP65 LED Connector PG11 DIN43650A NPT Thread

ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (Custom Made 25 Bar Max)

Included +10% **TBA** See note

	ELECTRICAL DATA								
	Voltage (-10% + 10%) Continuous duty 100%		Power Consumption		Insulation	Enclosure	Electrical		
			Inrush	Holding	class	Eliciosure	connections		
~	24 – 110 – 230 (50/60 Hz) DIN	WPG2	18.7VA	15.3VA	H 180°C	IP 65	3 spades DIN 43650		
=	12 – 24 DC DIN WPG2		18 Watts		П 100 С	With Connector	DIN 40050 VDE0110		

CONSTRUCTION

Body: Brass, Tube and Spring: 304 Stainless Armature: 430F Stainless Other internal parts: Stainless steel

Model

**SA14** 

**SA15** 

SAH20

SAH25

**SA35** 

**SA40** 

Seals and gaskets. PTFE, Modified Coll. Resili							
REPAIR KIT							
Coil	WPG2 + voltage						
Piston	SP210 + Valve Part Number						
OVERALL DIMENSIONS							

В

48

48

72

90

90

Α

67

67

96

96

120

120

Valve Body

С

123

123

149

149

168

168

D

67

67

67

67

52

52

Ε

52

52

52

52

45

45

F

42

42

42

42

41

41

G

1/2

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1

11/4

11/2

Н

15

15

25

25

33

33

Kg

1.1

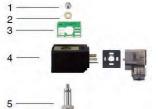
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1.53

1.85

3.3

3.25

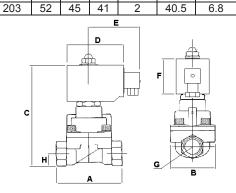


120 Bar SAHHH (2x SAHH 80 Bar price)

		SASU		150	122	
1	Item	Part No:		Description		
	1	SP201-*		Nut		
	2	SP202-*		Wash	er	
	3	SP203-*		Name Plate		
	4	WPG2-*	Coil			
	5	SP205-*		Core Tube		
	6	SP206-*	Α	rmature	Core	
	7	SP207-*	\	/alve Bo	nnet	
	8	SP208-*		Bolt		
	9	SP209-*	F	Piston Sp	oring	
	10	SP210_*		Pieto	n	

SP211-\*

-\* = Model Number



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**Brass** 2/2 N/Closed Pilot

Media: Air, Water, Gas or Liquid Pressure range: 0.3 to 16 bar max\* Media temperature: -5°C to +100°C Ambient temperature: 0°C to +60°C Media viscosity: 50 centistokes max Cycle life: 500,000 cycles

Opening / Closing Time: 3 –5 Sec

NC

## 2/2 Ductile Iron

DN50 - DN500 2 WAY NORMALLY CLOSED SERVO ASSISTED 0.3 - 16\* Bar



TYPE BFE-DE

	PRESSURE									
Ø	Ø	Flow	Pressure Ra	ting (Bar) ∆P			List I	Price		
Port PN16	Orifice (mm)	Cv	Min	Max*	Seals	Part Number	Seals NBR	Seals Viton		
DN50	50	37	0.3	10*		BFE50D + seal + voltage	£645.23	£744.45		
DN65	65	85	0.3	10*		BFE65D + seal + voltage	£852.69	£951.91		
DN80	80	110	0.3	10*		BFE80D + seal + voltage	£1126.29	£1225.51		
DN100	100	150	0.3	10*		BFE100D + seal + voltage	£1493.11	£1619.39		
DN125	125	230	0.3	10*	NBR	BFE125D + seal + voltage	£2115.49	£2265.82		
DN150	150	450	0.3	10*	(80°C)	BFE150D + seal + voltage	£2340.99	£2491.32		
DN200	200	580	0.3	10*	1	BFE200D + seal + voltage	£5198.05	£5510.75		
DN250	250	910	0.3	10*	FKM	BFE250D + seal + voltage	£10576.25	£10888.94		
DN300	300	1300	0.3	10*	(100°C)	BFE300D + seal + voltage	£13820.44	£14133.14		
DN350	350	1800	0.3	10		BFE350D + seal + voltage	POA	POA		
DN400	400	2300	0.3	10		BFE400D + seal + voltage	POA	POA		
DN450	450		0.3	10		BFE450D + seal + voltage	POA	POA		
DN500	500		0.3	10		BFE500D + seal + voltage	POA	POA		
					OPTIO	NS				

IP65 Coil & Connector PG11 - DIN 43650 A

Manual Over ride lever valve

\*16 Bar rated solenoid controller and pipework with M17 high power coil ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (

Flange options JIS10K, JIS20K, ANSI150Lb

Other custom flanges, larger sizes, seals, media and pressures available upon request

Included Included +£8.40

+£101.68 +10%

	ELECTRICAL DATA										
	Voltage (-10% +10%)	Coil	Power Cor	nsumption	Insulation	Enclosure	Electrical				
	Continuous Duty 100%	Coll	Inrush	Holding	Class	Liiciosule	Connections				
~	24 – 110 – 230 (50 or 60 Hz)	M16	70 VA	35 VA	F 155°C		3 spades				
=	12 – 24 – 48 - 125	IVITO	26 Watts		F 155 C	IP65 with	DIN 43650A				
~	110 – 230 (50 or 60 Hz)	*M17	35VA	26VA	N 200°C	connector	DIN 40050				
=	24	IVI I 7	19 V	19 Watts			VDE 0110				
	CONSTRUCTION										

Body: Ductile Iron with Epoxy Coating (Pressure tested to 16 bar)

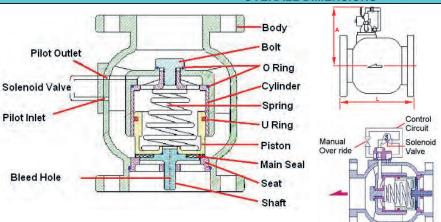
Piston, Seat & Shaft: Bronze

Bolts: Brass

Spring: Stainless steel Ports: Flanged PN16 RF

Seals and gaskets: NBR (+80°C max), Viton (+100°C max)

Control pipe work circuit & fittings. Copper & Brass					
REPAIR KIT					
Piston U Ring seal	SP + Valve Part Number – PISTON U RING				
External Control Pipework + Solenoid	BFE - NC + seal – PIPEWORK + voltage				
OVERALL DIME	NEIONE				



Port	L	Α	Kg
DN50	190	187	12
DN65	210	192	15
DN80	225	210	18
DN100	250	222	24
DN125	280	235	32
DN150	310	260	44
DN200	420	300	87
DN250	470	335	152
DN300	530	370	202
DN350	600	415	285
DN400	600		
DN450	750		
DN500	750		

Media: air, water, fluid, gas Pressure range: 0.3 to 16 Bar max\* Media temperature: -5°C to +100°C Ambient temperature: 0°C to +60°C Media viscosity: 50 centistokes max Cycle life: 500,000 cycles

Cycle life: 500,000 cycles Opening / Closing Time: 3 –5 Sec



## 2/2 Bronze

DN50 – DN300 NORMALLY CLOSED 2 WAY SERVO ASSISTED 0.3 – 16\* Bar TYPE BFE-B



**PRESSURE List Price** Ø Pressure Rating (Bar) AP Flow Orifice Port Seals Part Number Seals Seals Cv Min Max **PN16** (mm) Viton **NBR DN50** BFE50B + seal + voltage £1393.89 £1493.11 0.3 10\* **DN65** £1393.89 £1493.11 65 85 0.3 10\* BFE65B + seal + voltage **DN80** 110 0.3 10\* BFE80B + seal + voltage £1700.57 £1799.79 **NBR DN100** 100 150 0.3 10\* BFE100B + seal + voltage £2566.49 £2692.77 (80°C) **DN125** 125 0.3 10\* BFE125B + seal + voltage £3179.85 £3330.18 230 \*FKM **DN150** £4307.35 £4457.68 150 450 0.3 103 BFE150B + seal + voltage (100°C) **DN200** 200 580 0.3 10\* BFE200B + seal + voltage £8958.66 £9271.36 £15997.27 **DN250** 250 910 0.3 10\* BFE250B + seal + voltage £15684.57 **DN300** 300 1300 0.3 10\* BFE300B + seal + voltage £18576.99 £18889.68

**OPTIONS** 

IP65 Coil & Connector PG11 - DIN 43650 A

Manual Over ride lever valve

\*16 Bar rated solenoid controller with M17 high power coil

Other custom flange types, sizes, seals and media applications available upon request

Included Included +£8.40 +£101.68 +10%

	ELECTRICAL DATA						
Ī	Voltage (-10% +10%)	Coil	Power Consumption		Insulation	Enclosure	Electrical
L	Continuous Duty 100%	COII	Inrush	Holding	Class	Liiciosaie	Connections
	~ 24 - 110 - 230 (50 or 60 Hz)	M16	70 VA	35 VA	F 155°C		3 spades
Γ	= 12 - 24	IVITO	16 Watts		T 155 C	IP65 with	DIN 43650A
Γ	~ 110 – 230 (50 or 60 Hz)	*M17	35VA	26VA	N 200°C	connector	DIN40050
	= 24	IVI I 7	19 Watts		N 200°C	30111100101	VDE0110
ſ	CONSTRUCTION						

Body: Bronze (Pressure tested to 21 bar)

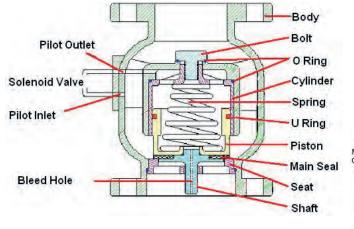
Piston, Seat & Shaft: Bronze

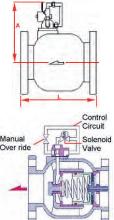
Bolts: Brass

Spring: Stainless steel Ports: Flanged PN16 RF

Seals and gaskets: NBR (+80°C) or Viton (+100°C) Control pipe work circuit & fittings: Copper & Brass

Control pipe work circuit & fittings: Copper & Brass					
REPAIR KIT					
Piston U Ring Seal	SP + Valve Part Number – PISTON U RING				
External Control Pipework + Solenoid	BFE-NC + seal - PIPEWORK + voltage				
OVERALL DIMENSIONS					





Port	L	Α	Kg
DN50	190	187	12
DN65	210	192	15
DN80	225	210	18
DN100	250	222	24
DN125	280	235	32
DN150	310	260	44
DN200	420	300	87
DN250	470	335	152
DN300	530	370	202

2/2 & 3/2 Coaxial Solenoid Valves

> Electric Actuated Ball Valves

Air Solenoid Valves

Mechanica Air Valves

Accessories Fittings, Tubing

> FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors
Vent Suction
Check Valves

Pinch Proportional Sub Base

Timers, Coils & Connectors

Magnets & Y Filters

**Brass** 2/2 N/Open 0 Rated

Media: air – water – gas – light oil - vacuum

Pressure range: 0 to 10 Bar max Media temperature: 120°C max

Ambient temperature: -10°C to +50°C max

Media viscosity: 50 centistokes max

Mounting: any position Opening / Closing time: 20 mSec Max

NO

#### 2/2 Brass

1/8 - 1/2NORMALLY OPEN 2 WAY DIRECT ACTING 0 - 10 Bar

## TYPE NOAD612



	PRESSURE								
Ø	Ø	Flow	Pressure Rating (Bar)						
Port BSP	Orifice (mm)	Kv Ltr/min	Min	Max AC	Max DC	Seals	Part Number	List Price	
	3.0	4	0	10	7		NOAD6A + seal + voltage		
1/8	4.0	9.7	0	6	4	NBR +80°C	NOAD6B + seal + voltage	£90.20	
	5.0	10.7	0	5	3.5	SILICONE +120°C	NOAD6C + seal + voltage		
	3.0	4.3	0	10	7	EPDM +120°C	NOAD8A + seal + voltage		
1/4	4.0	9.7	0	6	4.2	FKM +120°C	NOAD8B + seal + voltage		
	5.0	10.7	0	4	2.8	#B755 40040	NOAD8C + seal + voltage		
3/8	4.0	9.7	0	6	4	*PTFE +120°C *VST +120°C	NOAD10A + seal + voltage	£105.24	
3/8	6.0	13.2	0	2	1.4	VSI +120°C	NOAD10B + seal + voltage	2105.24	
1/2	6.0	13.2	0	2 1.4			NOAD12A + seal + voltage	£126.28	
					OPTION	S			

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil & IP65 LED Connector PG11 - DIN 43650 A

\* VST, CR, ECO, HNBR or Hypalon Seals

\* PTFE seals 1/8 to 3/8

\* PTFE seals 1/2

NPT Thread

Included
+£15.37
1000.40

+£75.16 +10%

Other custom made options available upon request								
	ELECTRICAL DATA							
Voltage (-10% + 15%)		Coil	Power Consumption		Insulation		Electrical	
	Continuous duty 100%		Inrush	Holding	class	Enclosure	connections	
~	24 - 110 - 230 (50 or 60 Hz)	WPG2	18.7VA	15.3VA	H 180°C	IP 65	3 spades DIN 43650A	
=	12 - 24 (DC)	VVPG2	18 Watts		1 100 C	with connector	DIN 40050 VDE 0110	

CONSTRUCTION

Body: Brass

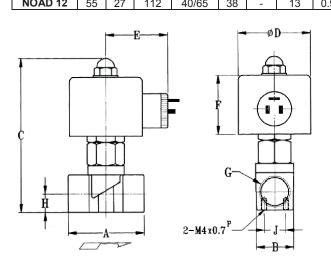
Tube 304 stainless steel, armature 430F stainless steel

Shading ring: copper (optional Silver)

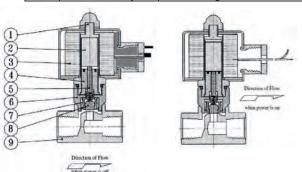
Seals and gaskets: FKM (Optional EPDM, NBR, SILICONE, PTFE, VST, CR, ECO, HNBR and Hypalon)

Moulded coil: Resin					
REPAIR KIT					
Coil	WPG2 + voltage				
Complete Armature Assembly	SP + Valve Part Number -ARMATURE				
OVERALL DIMENSIONS					

						Οv	ERALI	ם ואווע
Model	Α	В	С	D/E	F*	G	Н	Kg
NOAD 6/8	41	19	108	40/65	38	15	10.5	0.52
NOAD 10	50	25	110	40/65	38	15	11.7	0.8
NOAD 12	EE	27	110	40/GE	20		12	0.05



Item	Article	Material
1	Solenoid Tube	Stainless
2	Slide Core	Stainless
3	Coil	Brass Wire
4	Armature Core	Stainless
5	Operating Spindle	Brass
6	Joint Sleeve	Stainless
7	Spring	Stainless
8	Seat	NBR, Silicone, EPDM, FKM
9	Valve Body	Forged Brass



Media: air – water – gas – light oil - vacuum

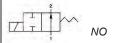
Pressure range: 0 to 20 Bar max Media temperature: +120°C max

Ambient temperature: -10°C to +50°C max

Media viscosity: 50 centistokes max

Mounting: any position

Open or Close Time: 6-20 mSec Max



## 2/2 Brass

1/8 – 1/4 NORMALLY OPEN 2 WAY DIRECT ACTING 0 – 20 Bar TYPE RB



**PRESSURE** Flow Pressure Rating (Bar) List Orifice **Part Number** Port Seals Κv **Price** Min Max **BSP** (mm) Ltr/min 8.0 RB031 + seal + voltage + 6W 1.3 0 14 6 Watt Coil 1/8 1.5 1.5 0 10 NBR +80°C RB032 + seal + voltage + 6W FKM +80°C £51.36 0 14 RB061 + seal + voltage + 6W 1.3 0.8 EPDM +80°C 1/4 1.5 0 10 1.5 RB062 + seal + voltage + 6W 1.3 8.0 0 20 RB031 + seal + voltage + 6.8W 1/8 6.8 Watt Coil 1.5 1.5 0 15 RB032 + seal + voltage + 6.8W NBR +90°C £52.39 FKM +120°C 1.3 8.0 0 20 RB061 + seal + voltage + 6.8W EPDM +120°C 1/4 1.5 1.5 0 15 RB062 + seal + voltage + 6.8W

**OPTIONS** 

IP65 Coil & Connector PG9 - DIN 43650 A

Explosion Proof 22001EX Coil: EExmIIT4 II ATEX IP65 T 135°C (Pressure rating 50% as 6.8 Watt coil)

Included +£67.14 +10%

NPT Thread Stainless 316 body (RSXXX + seal + S1 + voltage + watt)

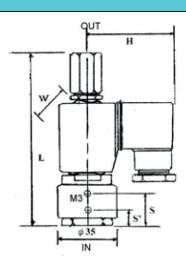
	ELECTRICAL DATA						
Voltage (-10% + 15%)		Coil	Power Consumption		Insulation class	Enclosure	Electrical
Co	Continuous duty 100%		Inrush	Holding	insulation class	Lilologuic	connections
~	12 -24 - 48 - 110 - 230 (50/60Hz)	822P5	15 VA	9.3 VA			0 1
=	24 - 48 - 110 - 240 (DC)	022P3	6 Watts		F 155°C	IP 65 with	3 spades DIN 43650A
~	24 - 48 - 110 - 230 (50/ 60Hz)	830P6	17 VA	10.5 VA	F 155 C	connector	DIN 40050 VDE 0110
=	12 - 24 (DC)	03070	6.8 Watts				VDL 0110

CONSTRUCTION

Body: Brass

Tube and internal parts: Stainless steel
Seals and gaskets: NBR or FKM or EPDM
Moulded coil: Duronlast / Thermo set resin

Moulded coil: Duroplast / Thermo set resin						
REPAIR KIT						
Coil	822P5 or 830P6 + voltage					
Complete plunger + O 'rings	SP + Valve Part Number -ARMATURE					
OVERALL DIMENSIONS						



	L	Н	W	S	Ŝ	Kg
RB03	70	55	22/30	-	-	0.2
RB06	70	55	22/30	-	-	0.2

Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanical Air Valves

Accessories Fittings, Tubing

FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors
Vent Suction
Check Valves

Pinch Proportional Sub Base

Timers, Coils & Connectors

Magnets & Y Filters

**Brass** N/Open 0 Rated

Media: air - water - gas - light oil - vacuum

Pressure range: 0 to 20 Bar max Media temperature: 100°C max Ambient temperature: -10° to +50°C max

Media viscosity: 40 centistokes max

Mounting: any position Weight (including coil): 300 g Opening Closing time: 20 mSec Max



NO

## 2/2 Brass

1/8 - 1/4NORMALLY OPEN 2 WAY DIRECT ACTING 0 - 20 Bar YPE 200201NO



PRESSURE Flow Pressure Rating (Bar) Ø Ø List Orifice Part Number Port AC Max DC Max Κv **Price** Min **BSP** (mm) L/min 10 Watt Coil 18 Watt Coil 0.65 0 20 20 1.5 215201 + seal + 0180 + voltage 1 0 16 16 220201 + seal + 0180 + voltage 2 1/8 2.5 1.4 0 12 12 225201 + seal + 0180 + voltage 5 3.5 2.1 0 5 235201 + seal + 0180 + voltage 1.5 1.2 0 20 20 215201 + seal + 0140 + voltage £94.27 2 1.5 0 16 16 220201 + seal + 0140 + voltage 2.5 2.2 0 12 12 225201 + seal + 0140 + voltage 1/4 3.5 4.9 0 5 5 235201 + seal + 0140 + voltage 4.5 6.2 0 3 3 245201 + seal + 0140 + voltage 5.2 7.9 0 1.5 1.5 252201 + seal + 0140 + voltage

**OPTIONS** 

IP65 Coil & Connector PG9 - DIN 43650 A

High power 18 - 20 watt coil (higher DC pressure ratings)

NPT Thread

Included +£8.39 +£36.04

	ELECTRICAL DATA									
	Voltage (-10% + 15%)	Coil	Power Co	nsumption	Insulation	Enclosure	Electrical			
L	Continuous duty 100%	Con	Inrush	Holding	class		connections			
	~ 24 - 48 - 110 - 230 (50 or 60 Hz)	11630	26 VA	14 VA		IP 65	3 spades			
	= 12 - 24 - 48 - 80 - 190 (DC)	11630	10 Watts		F 155°C	with	DIN 43650A DIN 40050			
		31400	14 – 20 Watts			connector	VDE 0110			

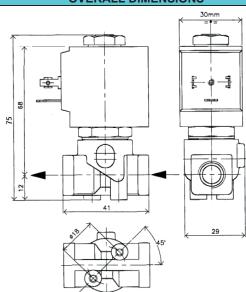
CONSTRUCTION

Body: Brass

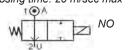
Tube and internal parts: 304 stainless steel, armature 430F stainless steel

Seals and gaskets: NBR (Optional EPDM or FKM)

Moulded coil: Resin	
REPA	IR KIT
Coil	Coil size (11630 or 31400) + voltage
Complete armature assembly	SP + Valve Part Number -ARMATURE
OVERALL	DIMENSIONS



Media: air - water - light oil- vacuum Pressure range: 0 to 200 Bar max Media temperature: 100°C max Ambient temperature: -10° to +50°C max Media viscosity: 40 centistokes max Mounting: Vertical position coil up Weight (including coil): 500 g Opening or closing time: 20 m/sec max



#### 2/2 Brass

1/8 – 1/4 NORMALLY OPEN 2 WAY DIRECT ACTING 0 – 200 Bar TYPE WF



Ø Κv List seat Min Pressure (Bar) seals **Part Number Price** L/mn (mm) NRR WF0.6NBR + port + voltage 0.20 0 200 0.6 WF0.6FKM + port + voltage FKM NBR WF0.8 NBR + port + voltage 0 130 £260.67 8.0 0.30 FKM WF0.8 FKM + port + voltage NBR WF0.9 NBR + port + voltage 0.9 0.40 0 100 WF0.9 FKM + port + voltage FKM NBR WF1 NBR + port + voltage 0.50 0 70 WF1 FKM + port + voltage 1 FKM **EPDM** WF1 EPDM + port + voltage NBR WF1.2 NBR + port + voltage 0.67 0 1,2 50 **FKM** WF1.2 FKM + port + voltage **EPDM** WF1.2 EPDM + port + voltage NBR WF1.5 NBR + port + voltage 0.95 0 WF1.5 FKM + port + voltage 1,5 35 FKM EPDM WF1.5 EPDM + port + voltage £185.66 NBR WF2 NBR + port + voltage 0 2 1.60 20 FKM WF2 FKM + port + voltage WF2 EPDM + port + voltage **EPDM** NBR WF2.2 NBR + port + voltage 2,2 1.80 0 15 **FKM** WF2.2 FKM + port + voltage WF2.2 EPDM + port + voltage **EPDM** NBR WF2.5 NBR + port + voltage 0 2,5 2.30 12 FKM WF2.5 FKM + port + voltage

**OPTIONS** 

EPDM

WF2.5 EPDM + port + voltage

Connector DIN 43650 A & IP65 connector

NPT thread

Ø

Port

1/8

or

1/4

**BSP** 

Seals and gaskets in PTFE

Explosion Proof Enclosure ATEX II 2 G/D EEx d IIC T6, IP65 85°C (Ambient T° from –20°C to +40°C

Included +£26.05 +£36.04 +£429.08

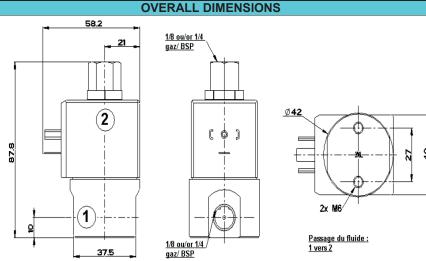
ı	ELECTRICAL DATA									
ſ	Voltage (-10% + 15%)	Coil	Power Cor	nsumption	Insulation	Enclosure	Electrical			
	Continuous duty 100%	COII	Inrush	Holding	class		connections			
	~ 24-48-110-230 (50 / 60 Hz)	10065	48 VA	24 VA	F 155°C	IP 65 with	3 spades DIN 43650			
	= 12-24-48	10003	14 W - 20 W		1 155 0	connector	DIN 40050 VDE 0110			
ſ	CONSTRUCTION									

Body, tube and internal parts: stainless steel Seals and gaskets: NBR-FKM-EPDM

Moulded coil: resin

REPAIR KIT

Coil 10065 + voltage
Complete plunger KIT + valve part number



2/2 & 3/2 Coaxial Solenoid Valves

> Electric Actuated Ball Valves

Air Solenoid Valves

Mechanical Air Valves

Accessories, Fittings, Tubing

> FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors Vent Suctior Check Valves

Pinch Proportional Sub Base

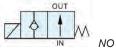
Timers, Coils & Connectors

Magnets & Y Filters

**Brass** 2/2 N/Open 0 Rated

Media: air - water - light oil - vacuum Pressure range: 0 to 7 or 12 Bar max Media temperature: -40°C to +150°C max Ambient temperature: -20°C to +60°C max Media viscosity: 50 centistokes max Mounting: coil upright

Opening / Closing Time: 50 mSec Max



#### 2/2 Brass

3/8 –1" NORMALLY OPEN 2 WAY ZERO RATED 0 - 7 or 0 - 12 Bar

## **TYPE NOPU220**



						PRES	SURE			
Ø	Ø	Flow		Pressure	e Rating (Ba	ar)		Max		
Port	Orifice	Κv		AC Coil		DC Coil Seals		Media	Part Number	List
BSP	(mm)	Ltr/ min	Min	15 Watt	18.5 Watt	18.5 Watt		Temp. °C		Price
							NBR	80	NOPU22003 + voltage	£100.60
3/8	13	35	0	7			FKM	120	NOPU22003V + voltage	£119.79
							EPDM	150	NOPU22003E + voltage	£119.79
							NBR	80	NOPU22004A + voltage	£100.60
1/2	13	35	0	7			FKM	120	NOPU22004AV + voltage	£119.79
							EPDM	150	NOPU22004AE + voltage	£119.79
							NBR	80	NOPU22006A + voltage	£127.81
3/4	20	72	0	7			FKM	120	NOPU22006AV + voltage	£135.31
							EPDM	150	NOPU22006AE + voltage	£135.31
							NBR	80	NOPU22008A + voltage	£147.85
1	25	183	0	7			FKM	120	NOPU22008AV + voltage	£159.08
							EPDM	150	NOPU22008AE + voltage	£159.08
							NBR	80	NOPU22003 + voltage +18W	£109.67
3/8	13	35	0		12	12	FKM	120	NOPU22003V + voltage+18W	£128.87
							EPDM	150	NOPU22003E + voltage+18W	£128.87
							NBR	80	NOPU22004A + voltage+18W	£109.67
1/2	13	35	0		12	12	FKM	120	NOPU22004AV + voltage+18W	£128.87
							EPDM	150	NOPU22004AE + voltage+18W	£128.87
							NBR	80	NOPU22006A + voltage+18W	£136.88
3/4	20	72	0		12	12	FKM	120	NOPU22006AV + voltage+18W	£144.35
							EPDM	150	NOPU22006AE + voltage+18W	£144.35
							NBR	80	NOPU22008A + voltage+18W	£156.93
1	25	183	0		12	12	FKM	120	NOPU22008AV + voltage+18W	£168.16
							EPDM	150	NOPU22008AE + voltage+18W	£168.16

**OPTIONS** 

22003 IP65 CE Approved Coil & Connector PG9 – DIN 43650 A Connector ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (Μαχ ΔΡ 3 Bar) NPT Thread

Seals: NBR, (Optional FKM, EPDM or HNBR)

Included +£101.68 +10%

	ELECTRICAL DATA								
	Voltage (-10% + 10%) Continuous duty 100%		Power Co	nsumption	- Insulation class	Enclosure	Electrical		
			Inrush	Holding	ilisulation class		connections		
~	12 - 24 - 48 - 110 - 240 - 380 (50/ 60 Hz)	22003	23VA	17VA		IP 65 with connector	3 spades DIN 43650A DIN 40050		
=	12 - 24 - 48 - 110 – 220 (DC)	22003	15 V	Vatts	H 180°C				
~	24 - 48 - 110 - 240 - 380 (50/ 60 Hz)	22005	33VA	24VA	H 100 C				
=	12 - 24 - 48 - 110 (DC)	22005	18.5 Watts				VDE 0110		
			CONSTR	RUCTION					

Body: Forged Brass SS41

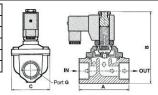
Tube and internal parts: Stainless steel

Seals and gaskets: NBR (Optional EPDM , FKM or HNBR)

Nass Magnet Moulded coil: DuroPlast / ThermoSet Resin	Nass Magnet Moulded Coll: DuroPlast / ThermoSet Resin						
REPAIR KIT							
Diaphragm seal	22004, 22006 or 22008 + seal material						
Coil	Coil size (22003 or 22005) + voltage						
Complete plunger assembly	225320 + seal material						
OVERALL D	DIMENSIONS						



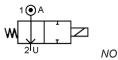
Model	NOPU22003	NOPU22004A	NOPU22006A	NOPU22008A
Port R	3/8	1/2	3/4	1
Α	66.5	66.5	71.0	96.0
В	101.0	101.0	107.0	120.5
С	48.0	48.0	58.0	70.0
Kg	0.74	0.715	0.945	1.485



Media: air – water – light oil – vacuum 10<sup>-3</sup> Pressure range: 0 to 10 bar max Media temperature: 130° C max Ambient temperature: -5° to +60° C max

Media viscosity: 20 centistokes max

Mounting: coil upright



#### 2/2 Brass

3/8 - 2" NORMALLY OPEN 2 WAY ZERO RATED 0 - 10 Bar





Included

						PRESSU	RE			
Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/Min	Press Min	ure Rating Max DC	(bar) ∆P Max AC	- Max Working	Seals	Max Media Temp. °C	Part Number	List Price
3/8	15	75	0	5	7	10	NBR FKM SILICONE	80 120 130	UW10NON + voltage UW10NOV + voltage UW10NOS + voltage	£157.74
1/2	15	75	0	5	7	10	NBR FKM SILICONE	80 120 130	UW15NON + voltage UW15NOV + voltage UW15NOS + voltage	£157.74
3/4	20	143	0	5	7	10	NBR FKM SILICONE	80 120 130	UW20NON + voltage UW20NOV + voltage UW20NOS + voltage	£184.23
1	25	200	0	5	7	10	NBR FKM SILICONE	80 120 130	UW25NON + voltage UW25NOV + voltage UW25NOS + voltage	£250.50
11/4	35	400	0	5	7	10	NBR FKM SILICONE	80 120 130	UW35NON + voltage UW35NOV + voltage UW35NOS + voltage	£397.62
11/2	40	460	0	5	7	10	NBR FKM SILICONE	80 120 130	UW40NON + voltage UW40NOV + voltage UW40NOS + voltage	£410.87
2	50	800	0	5	7	10	NBR FKM SILICONE	80 120 130	UW50NON + voltage UW50NOV + voltage UW50NOS + voltage	£708.93

**OPTIONS** 

IP65 Coil & Connector PG9 – DIN 43650 A NPT + BSPT

+10% **ELECTRICAL DATA** 

Vo	Voltage (AC -10% + 10%) (DC -1% + 1%) Continuous duty 90%		Power Consumption Inrush Holding		Insulation class	Enclosure	Electrical connections
~	110 – 230 (50 or 60 Hz)	=	60VA	36VA		IP 65	3 spades DIN 43650
=	24 (DC)	WPC2	29 Watts		H 180°C	with connector	DIN 40050 VDE 0110

CONSTRUCTION

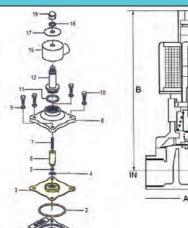
Body: up to 1" Forged Brass 11/4 - 2" Cast Bronze body Tube and internal parts: Stainless steel

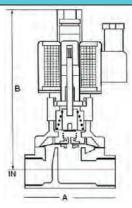
Seals and gaskets: NBR (Optional FKM or Silicone)

Moulded coil: Resin

REPA	IR KIT
	L

JW + orifice + seal material Diaphragm seal WPC2 + voltage SP + Valve Part Number -ARMATURE Armature assembly **OVERALL DIMENSIONS** 



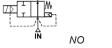


Model	UW10	UW15	UW20	UW25	UW35	UW40	UW50
Port R	3/8	1/2	3/4	1	11/4	11/2	2
Α	70	70	73	93	125	125	167
В	126	132	139	154	156	175	175
Width	56.5	56.5	78	78	94	94	120
Kg	1.1	1.1	1.2	1.8	3.2	3.5	5.4

Brass 2/2 N/Open Pilot

Media: air – water – gas – light oil Pressure range: 0.5 to 15 Bar max Media temperature: -40°C to +90°C max Ambient temperature: -40°C to +60°C Media viscosity: 50 centistokes max

Mounting: coil upright Opening / Closing time: 50 mSec Max



## 2/2 Brass

3/8 - 3"**NORMALLY OPEN** 2 WAY SERVO ASSISTED 0.5 - 15 Bar

# TYPE NOPU225®



						PRESSU	RE		·	
Ø	Ø	Flow		Pressure Ra	ating (Bar) ∆P	Max		Max Media		List
Port BSP	Orifice (mm)	Kv Ltr/ min	Coil	Min	Max	Working	Seals	Temp. °C	Part Number	Price
3/8	13	40.0	22003	0.5	10	15	NBR FKM EPDM	80 120 120	NOPU22503 + voltage NOPU22503V + voltage NOPU22503E + voltage	£95.80 £102.62 £102.62
1/2	13	40.0	22003	0.5	10	15	NBR FKM EPDM	80 120 120	NOPU22504A + voltage NOPU22504AV + voltage NOPU22504AE + voltage	£95.80 £102.62 £102.62
3/4	25	165.0	22003	0.5	10	15	NBR FKM EPDM	80 120 120	NOPU22506A + voltage NOPU22506AV + voltage NOPU22506AE + voltage	£126.19 £133.32 £133.32
1	25	165.0	22003	0.5	10	15	NBR FKM EPDM	80 120 120	NOPU22508A + voltage NOPU22508AV + voltage NOPU22508AE + voltage	£144.29 £154.51 £154.51
11/4	38	367	22003	0.5	10	15	NBR FKM EPDM	80 120 120	NOPU22512A + voltage NOPU22512AV + voltage NOPU22512AE + voltage	£245.56 £262.25 £262.25
11/2	38	500	22003	0.5	10	15	NBR FKM EPDM	80 120 120	NOPU22514A + voltage NOPU22514AV + voltage NOPU22514AE + voltage	£245.56 £262.25 £262.25
2	50	600	22003	0.5	10	15	NBR FKM EPDM	80 120 120	NOPU22520A + voltage NOPU22520AV + voltage NOPU22520AE + voltage	£332.05 £386.23 £386.23
21/2	65	1050	16W	0.3	10	15	NBR FKM EPDM	80 120 120	NOPU22524A +voltage NOPU22524AV + voltage NOPU22524AE + voltage	£1235.32 £1295.36 £1295.36
3	75	1380	16W	0.3	10	15	NBR FKM EPDM	80 120 120	NOPU22528A +voltage NOPU22528AV + voltage NOPU22528AE + voltage	£1279.16 £1341.38 £1341.38
						OPTION	S			

IP65 Coil & Connector PG9 - DIN 43650 A

ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (21/2 + 3" Custom made)

NPT Thread (Not available 21/2 + 3")

Included +£101.68 +10%

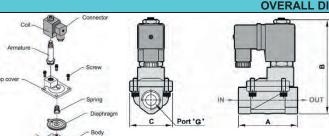
			ELECIR	ICAL DATA						
	Voltage (-10% + 10%)	Coil	Power Co	nsumption	Insulation class	Enclosure	Electrical			
	Continuous duty 100%	Con	Inrush	Holding	Ilisulation class	Liidiosaic	connections			
^	12 -24 - 48 - 110 - 240 - 380 (50/ 60 Hz)	22003	23VA	17VA	H 180°C	/D 05	3 spades			
Г	= 12 – 24 – 48 – 110 - 220 (DC)	22003	15	Watts	H 160 C	IP 65 with	DIN 43650A			
_	24 – 48 – 110 – 220 – 380 (50/ 60 Hz)	16W	25VA	15VA	F 155°C	connector	DIN 40050			
E	= 12 – 24 – 48 (DC)	1000	16 Watts		F 155 C	COMMECION	VDE 0110			
	CONSTRUCTION									

Body: Forged Brass SS41

Tube and internal parts: Stainless steel

Seals and gaskets: NBR (Optional EPDM & FKM & HNBR) Moulded coil: 16 W Resin / 22003 DuroPlast ThermoSet Resin

REPAIR KIT							
Diaphragm Seal	225 + size code (03-28) + seal material						
Coil	Coil size (22003 or 16W) + voltage						
Armature assembly (Normally Open)	225320VNO (not 21/2 + 3")						
OVERALL DIMENSIONS							

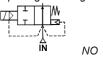


Port	3/8 1/2	3/4 1	11/4 11/2	2	21/2	3
Α	66.5	96	131	160	243	250
В	106.5	126.5	145.5	160.5	178	188
С	48	70	96	112	184	184
Κα	0.725	1 565	2.56	3.0	9.4	11 4

Media: air – water – gas – light oil Pressure range: 0.5 to 25 Bar max Media temperature: -10°C +90°C max Ambient temperature: -10°C to +60°C Media viscosity: 50 centistokes max

Mounting: coil upright

Opening / Closing time: 50 mSec Max



## 2/2 Brass

3/8 – 1" NORMALLY OPEN 2 WAY SERVO ASSISTED 0.5 – 25 Bar TYPE NOPU225H®



2/2 & 3/2 Coaxial Solenoid

Electric Actuated Ball Valves

Air Solenoid

> Mechanical Air

Accessories
Fittings,
Tubing

Included

+£101.68 + 10%

**POA** 

FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors /ent Suction Check Valves

Pinch Proportiona Sub Base

Timers, Coils & Connectors

Magnets & Y Filter

PRESSURE Flow Pressure Rating (Bar) ∆P List Port Orifice **Part Number** Κv Seals **Price** Min **BSP** (mm) Ltr/ Max min **NBR** NOPU225HB03 + voltage £113.65 EPDM NOPU225HE03 + voltage 3/8 8 19.0 0.5 25 £114.55 NOPU225HV03 + voltage £118.47 FKM **NBR** NOPU225HB04A + voltage £113.65 1/2 8 19.0 0.5 25 **EPDM** NOPU225HE04 + voltage £114.55 FKM NOPU225HV04 + voltage £118.47 **NBR** NOPU225HB06 + voltage £166.52 **EPDM** NOPU225HE06 + voltage £168.83 3/4 13 40.0 0.5 25 NOPU225HV06 + voltage £173.64 FKM **NBR** NOPU225HB08 + voltage £166.52 13 40.0 0.5 **EPDM** NOPU225HE08 + voltage £168.83 1 25 FKM NOPU225HV08 + voltage £173.64

**OPTIONS** 

IP65 PG9 - DIN 43650 A Connector and Coil

ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (20 Bar Max) NPT Thread

Flange JIS10K ANSI150Lb or PN16

ELECTRICAL DATA

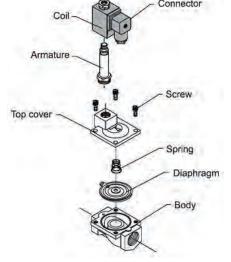
			712 271171				
	Voltage (-10% + 10%)	Coil	Power Co	nsumption	Insulation class	Enclosure	Electrical
	Continuous duty 100%	COII	Inrush	Holding	ilisulation class	Eliciosule	connections
~	24 – 110 – 240 – 380 (50 or 60 Hz)	22005	33VA	24VA	H 180°C	IP 65	3 spades DIN 43650A
=			18.5	Watts	H 160 C	with connector	DIN 40050 VDE 0110

CONSTRUCTION

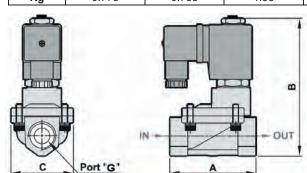
Body: Forged Brass SS41 (Test Pressure 30 Bar) Tube and Internal Parts: Stainless steel Diaphragm: Nylon reinforced NBR, FKM or EPDM

REPAIR KIT						
Diaphragm Seal	225H + (size code 03-08) + seal material					
Coil	22005 + voltage					
Armature assembly	0543-83.6-00					





Model	PU225H03	PU225H04	PU225H06	PU225H08
Port	3/8	1/2	3/4	1
Α	66.5	66.5	96.0	96.0
В	106.5	106.5	126.5	126.5
С	48	48	70	70
Kg	0.775	0.755	1.55	1500



Brass 2/2 N/Closed Pilot

2/2 N/Oper 0 Rated

Brass Stainless 3/2

Stainless 2/2 N/Closed 0 Rated

Stainless 2/2 N/Closed Pilot

> 2/2 N/Oper

> > Stear

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas

Pressure Reducing Valves Media: air – water – light oil - vacuum Pressure range: 0 to 8 bar max Media temperature: 60°C max Ambient temperature: -10°C to +50°C Media viscosity: 40 centistokes max Mounting: any position Weight (including coil): 155 g

Opening / Closing Time: 20 mSec Max

W NC NO

## 3/2 Aluminium

1/8 – 1/4 N/OPEN + N/CLOSED 3 WAY DIRECT ACTING 0 – 8 Bar



TYPE PU320/300

Ø		Orifice	Flow	Pressure	(bar) ∆P		Max		Link
Port BSP	Exhaust	(mm) Ø	Kv Ltr/ min	Min	Max	Seals	Seals Media Temp °C	Part Number	List Price
1/8					_	NBR	80	PU32001A + voltage	£37.10
N/CLOSED	M5	1.4	1	0	8	EPDM	160	PU32001E + voltage	£43.91
11/02/0025						FKM	130	PU32001V + voltage	£43.91
1/4						NBR	80	PU32002A + voltage	£37.10
N/CLOSED	М5	1.4	1	0	8	EPDM	160	PU32002AE + voltage	£43.91
N/CLUSED						FKM	130	PU32002AV + voltage	£43.91
1/8						NBR	80	PU30001A + voltage	£37.10
N/OPEN	1/8 BSP	1.4	1	0	8	EPDM	160	PU30001AE + voltage	£43.91
N/OPEN						FKM	130	PU30001AV + voltage	£43.91
1/4						NBR	80	PU30002A + voltage	£37.10
N/OPEN	1/4 BSP	1.4	1	0	8	EPDM	160	PU30002AE + voltage	£43.91
N/OPEN						FKM	130	PU30002AV + voltage	£43.91

#### **OPTIONS**

IP65 Coil & Connector PG9 – DIN 43650 A (optional 30cm flying lead wire coil) Manifold kit (2 X nuts + washers + bolts + O Ring) NPT thread

ATEX 22001EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C

Included £2.79 +10% £67.14

ELECTRICAL DATA									
Voltage (-10% + 15%)			Power Co	onsumption	]		Electrical		
	Continuous duty 100%	Coil	Inrush	Holding	Insulation class	Enclosure	connections		
~	12 - 24 – 48 - 110 - 220 (50/60 Hz)	22001	11.6 VA	8.5 VA	F 155°C	IPhh	3 spades DIN 43650		
=	12 – 24 - 48 – 110 (DC)	22001	4.	4.8 W		connector	DIN 40050 VDE 0110		

CONSTRUCTION

Body: Anodised Aluminium

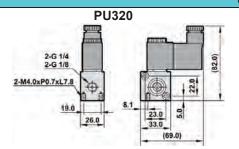
Tube and internal parts: Stainless steel

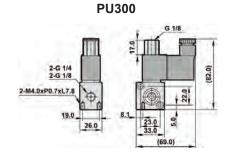
Seals and gaskets: NBR (Optional EPDM & FKM)

Moulded coil: Resin Test pressure: 10 Bar

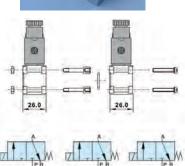
For normally open Inlet in through the top brass fitting

in normally open filet in through the top brass fitting.							
REPAIR KIT							
Coil	22001 + voltage						
Complete plunger + O' rings	32001+ seal material						
OVERALL DIMENSIONS							













Media: air – water – gas – light oil - vacuum Pressure range: 0 to 15 bar max

Media temperature: 100°C max Ambient temperature: -10°C to +50°C max Media viscosity: 40 centistokes max

Mounting: any position Weight (including coil): 280 g

Opening or Closing Time: 20 mSec Max





3/2 Brass

1/8 - 1/4

TYPE 300201



Included

Included

+£8.67 +£36.04

+£8.39

+£429.08

+£101.68

	PRESSURE										
	ø	ø	Flow		Pressure	Rating (bar) A	ΔP				
Туре	Port BSP	Orifice (mm)	Kv Ltr/Min	Min	AC 10 Watt Coil	DC 10 Watt Coil	DC 14 - 20Watt Coil	Part Number P			
		1.5	1.2	0	15	15	-	315201 + seal + 0181 + voltage			
	1/8	2	1.7	0	13	13	-	320201 + seal + 0181 + voltage			
3/2		2.5	2.2	0	10	10	-	325201 + seal + 0181 + voltage			
NC	1/4	1.5	1.2	0	15	15	-	315201 + seal + 0141 + voltage			
		2	1.7	0	13	13	-	320201 + seal + 0141 + voltage	£73.73		
		2.5	2.2	0	10	10	-	325201 + seal + 0141 + voltage			
2/0		1.5	1.2	0	15	15	-	315201 + seal + 0140 + voltage			
3/2 NO	1/4	2.5	2.2	0	9	9	-	325201 + seal + 0140 + voltage			
140		3	2.8	0	6.5	6.5	-	330201 + seal + 0140 + voltage			
2/0		1.5	1.2	0	9	-	10*	315201 + seal + 0142 + voltage + coil			
3/2 U	1/4	2.5	2.2	0	6	-	6*	325201 + seal + 0142 + voltage + coil	£74.53		
J		3	2.8	0	2	-	3*	330201 + seal + 0142 + voltage + coil			

Connector PG9 - DIN 43650 A NBR, EPDM or FKM seals Manual Over ride

**NPT Thread** \*High Power 14 - 20 Watt coil for DC

Explosion Proof Enclosure ATEX II 2 G/D EexdIICT6, IP65 85°C ATEX EExmIIT4 according to ATEX II 2G T4 IP65 130C (10 watts)

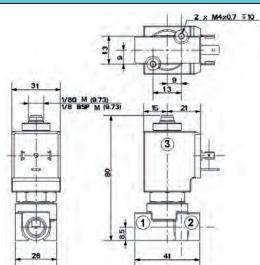
		ELECTRICAL DATA										
	Voltage (-10% + 15%)	Coil	Power Co	nsumption	Insulation	Enclosure	Electrical connections					
	Continuous duty 100%	Oon	Inrush	Holding	class	Liiciosare						
	24 - 48 - 110 - 230 - 380 (50/ 60Hz)	11630	26 VA	14 VA		IP 65	3 spades					
Γ,	= 12 - 24 - 48 - 80 - 190 (DC)	11630	10 Watts 14 - 20 Watts		F 155°C	with connector	DIN 43650A DIN 40050					
-	12 - 24 - 40 - 00 - 190 (DC)	31400				Connector	VDE 0110					

CONSTRUCTION

Body: Brass Exhaust: 1/8 BSPM Tube and internal parts: Stainless steel

Seals and gaskets: NBR or EPDM or FKM

Moulded coil: Polyamide								
REPAIR KIT								
Coil	Coil size (11630 or 31400) + voltage							
Armature + Seal	SP + Valve Part Number -ARMATURE							
OVERALL DIMENSIONS								



Brass **Stainless** 3/2

Media: air – water – gas – light oil Pressure range: 0 to 11 Bar max Media temperature: -10 °C +80 °C max Ambient temperature: -20° to +60°C Media viscosity: 50 centistokes max Mounting: any position



Weight: 460g / 670g

Universal

#### 3/2 Brass

UNIVERSAL 3 WAY DIRECT ACTING 0 - 11 Bar

TYPE VX



NBR		PRESSURE												
Port BSP Coll KV Ltr/ min Min Max AC DC Seal Part Number Price  1.6 1.5 0 7 4.9 NBR VX3121N + voltage			_			Pressure R	ating (Bar)			List				
1.6 1.5 0 7 4.9 VX3121N + Voltage			Kv	Coll	Min	-	-	Seal	Part Number	Price				
		1.6	1.5		0	7	4.9	NBR	VX3121N + voltage VX3121V + voltage	£51.12				
	-		1.5	WDC1	0			FKM						
NBR V/X3122N + voltage		2.2	2.7	WPGI	0	5	3.5	NBR	VX3122N + voltage VX3122V + voltage					
1/4 2.2 2.7 0 5 5.5 FKM VX3122V + voltage	1/4		2.1					FKM						
1.6 1.5 0 11 7.7 NBR VX3221N + voltage		1.6	1.5	WDOO	0	11	7.7	NBR	VX3221N + voltage VX3221V + voltage	- £54.12				
FKM VX3221V + voltage		1.0	1.6		U			FKM						
22 27 0 7 NBR VX3222N + voltage		2.2	2.7	VVPG2	0	7	4.9	NBR	VX3222N + voltage					
Z.2 Z.7 U 7 4.9 FKM VX3222V + voltage		2.2	2.7					FKM	VX3222V + voltage					

**OPTIONS** 

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil + IP65 Connector PG11 with LED - DIN 43650 A NPT Thread

Included + 10%

	ELECTRICAL DATA											
	Voltage (-10% + 10%)	Coil	Power Co	nsumption	Insulation class	Enclosure	Electrical					
	Continuous duty 100%	0011	Inrush	Holding	ilisulation class	Liiciosure	connections					
~	24 - 48 - 110 - 230 - 380 (50 or 60	WPG1	11.2VA	8.2VA		ID 65	3 spades					
=	12 - 24 - 48 (DC)	WEGI	12 Watts		H 180°C	IP 65 with	DIN 43650					
~	24 - 48 - 110 - 230 - 380 (50 or 60	WPG2	18.7VA	15.3VA	H 180 C	connector	DIN 40050					
=	12 - 24 - 48 (DC)	VVPG2	18 V	Vatts	1	COMMECION	VDE 0110					
	CONSTRUCTION											

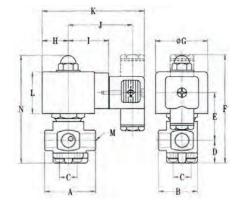
Tube and Spring: 304 Stainless Armature: 430F Stainless Other internal parts: Stainless

Seals and gaskets: NBR or FKM

Moulded coll: Resin										
REPAIR KIT										
Coil	Coil (WPG1 or WPG2) + voltage									
Armature Assembly	SP + Valve Part Number -ARMATURE									
OVERALL DIMENSIONS										

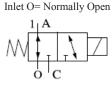


Model	Α	В	О	D	Е	F	G	Н	- 1	J	K	L	M	Ν
VX31	43	33	15	19	46	96	35	20	33	54	86	33	1/4	92
VX32	43	33	15	19	48	98	40	23	35	56	89	38	1/4	95

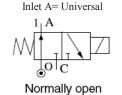


Inlet C= Normally Closed

Normally closed



Universal



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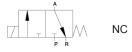
Media: air – water – gas – light oil - vacuum

Pressure range: 0 to 7 bar max Media temperature: +100°C max

Ambient temperature: -10°C to +50°C max Media viscosity: 40 centistokes max

Mounting: any position

Weight (including coil): 270/370g Opening or Closing time: 20 mSec Max



# 3/2 Aluminium

N/CLOSED (M5 Exhaust) 3 WAY DIRECT ACTING TYPE AM325



	PRESSURE										
Port	ø	Flow Rate	Pressure F								
	Orifice (mm)	Cv Ltr/ min	Min	Мах	Part Number	List Price					
1/4 BSP	2.2	2.3	0	6	AM325-02S + voltage	£48.65					
3/8 BSP	2.3	2.5	0	6	AM325-03S + voltage	240.00					

**OPTIONS** 

IP65 Coil + Connector PG9 - DIN 43650 A ATEX EExmIIT4 II 2G & 2D IP65 T130°C (EX)

NPT Thread

Included +£101.68 +10%

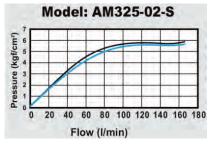
	ELECTRICAL DATA											
	Voltage (-10% + 15%)	Coil	Pov	wer	Insulation		Electrical					
	Continuous duty 100%		Inrush	Holding	class	Enclosure	connections					
~	12-24-48-110-220-240-380 (50/60 Hz)	22003	23VA 17VA		H 180°C	IP 65 with	3 spades DIN 43650					
=	12-24-48-110-220 (DC)	22003	15 V	Vatts	H 160 C	connector	DIN 40050 VDE 0110					

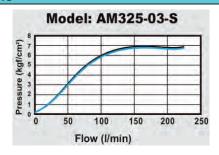
CONSTRUCTION

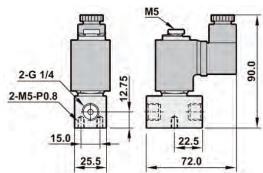
Body: Anodised Aluminium Alloy Tube and internal parts: Stainless steel

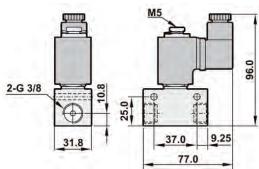
Seals and gaskets: NBR Moulded coil: Resin

REPAIR KIT								
Coil	11630 + voltage							
Complete plunger + O' rings	KIT325 + port + seal material							
OVERALL DIMENSIONS								









Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

> 2/2 N/Open

Stear

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas

Pressure Reducing Valves Media: compressed air – Inert Gas
Pressure range: 0 to 10 Bar max
Media temperature: 100°C max

3/2 Brass

3/8 – 1/2 UNIVERSAL DIRECT ACTING 0 – 10 Bar

TYPE 380



+£25.10

+£84.07

+£404.77

**VDE 0110** 

	PRESSURE											
Ø Ø Port Orific BSP (mm)		Flow	Pressu	ıre (Bar)	0 1 -	Media	Dord Name have	List Dates				
	(mm)	Kv Ltr/Min	Min	Max	Seals	Temp. Max °C	Part Number	List Price				
1/4	6	5	0	10	NBR FKM	60 100	30638010 + 0142 + voltage 30638020 + 0142 + voltage	£213.38				
3/8 1/2	9	13	0	10	NBR FKM	60 100	30938010 + port + voltage 30938020 + port + voltage	£362.55				

IP65 Coil & Connector PG9 – DIN 43650 A

Included
Manual override or manual reset

NPT thread

Explosion Proof Enclosure ATEX II 2 G/D EEx d IIC T6, IP65 85°C

Other custom made options available upon request

IP65 Coil & Connector PG9 – DIN 43650 A

3/8 & 1/2 309 Series

Included

NPT thread
Explosion Proof Enclosure ATEX II 2 G/D EEx d IIC T6, IP65 85°C
Other custom made options available upon request – EExmIIT4

**ELECTRICAL DATA Power Consumption** Insulation **Electrical** Enclosure connections class Inrush Holding 3 spades IP 65 DIN 43650 14 W F 155°C with **DIN 40050** 

connector

## CONSTRUCTION

Coil

31037

Body: brass Tube and internal parts: stainless steel Seals and gaskets: NBR or FKM

24 - 48 - 110 - 230 (50 or 60 Hz)

(With bridge rectifier to DC)

Ambient temperature: -10°C to +50°C max Media viscosity: 40 centistokes max

Universal

Opening or Closing time: 50 mSec Max

Mounting: any position

Weight: 2200g / 2500g

Moulded coil: resir

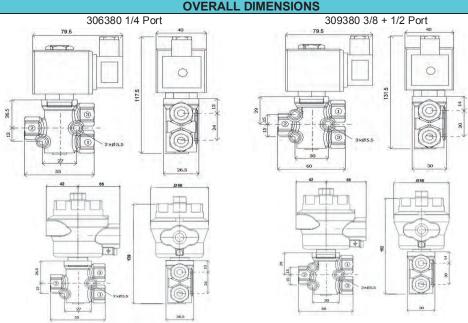
Manual override

Voltage (-10% + 15%)

12 - 24 - 48

Continuous duty 100%

Moulded coll: resin									
REPAIR KIT									
Coil	31037 + voltage								
Complete plunger + O'ring + complete piston	KIT + valve part number								



Media: air - water - gas - light oil - vacuum

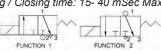
Pressure range: 0 to 13 Bar max Media temperature: +120°C max

Ambient temperature: -10°C to +50°C max

Media viscosity: 50 centistokes max

Mounting: any position Weight (including coil) 280 g

Opening / Closing time: 15- 40 mSec Max



#### 3/2 Stainless

1/8 - 1/4NORMALLY CLOSED 3 WAY DIRECT ACTING 0 – 13 Bar



TYPE ST03/06

							PRES	SURE			
	Ø		Flow			essure Ratir	<u> </u>	,			
Ø Port	Orifice (mm)		Kv	Min	Co	il 22001 Max		Coil 830 Max	Seals	Part Number	List Price
BSP	Body	Тор	Ltr/Min		F 1	Function 2	F 1	Function 2			11100
	0.8		0.3	0	10		13			ST031F + seal + voltage + coil	
	1.0	1.0	0.5	0	7	10	10	13	Coil	ST032F + seal + voltage + coil	
	1.2		8.0	0	5	5   7     - 1	22001 4.8 Watt	ST033F + seal + voltage + coil			
1/8	1.6	1.2	1.5	0	4	7	5	10	-5 +80°C	ST034F + seal + voltage + coil	£57.12
	2.0	1.2	2.3	0	3	,	4	10		ST035F + seal + voltage+ coil	
	2.4	1.5	3	0	1	5	3	7	Coil 830 *6.8 Watt	ST036F + seal + voltage + coil	
	3.0	1.5	3.8	0	0.5	5	1			ST037F + seal + voltage + coil	
	0.8		0.3	0	10		13		NBR	ST061F + seal + voltage + coil	207.12
	1.0	1.0	0.5	0	7	10	10	13	+80°C	ST062F + seal + voltage + coil	
	1.2		8.0	0	5		7		*FKM	ST063F + seal + voltage + coil	
1/4	1.6	1.2	1.5	0	4	7	5	10	+120°C	ST064F + seal + voltage + coil	
	2.0	1.2	2.3	0	3	7	4	10	*Kalrez +120°C	ST065F + seal + voltage + coil	
	2.4	1.5	3	0	1	5	3	7	+120 C	ST066F + seal + voltage + coil	
	3.0	1.5	3.8	0	0.5	3	1			ST067F + seal + voltage + coil	
							OPT	IONS			

IP65 Coil & Connector PG9 - DIN 43650B

NPT Thread

\*830PL6 6.8 Watt High Power 30mm coil

Silver Shading Ring for AC voltages

ATEX 22001EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (F)

\*FKM Seals

\*Kalrez Seals Exhaust Accessories ST0\*\*F= BSP Exhaust - blank=M5 female - P= 1/8 PT Male - C=Anti Dust Silent Cap

	- ~0.20	
	+£10.45 +£67.16 +£7.11 +£60.69	
Pressure same as coil 22001)	+£67.16	
	+£7.11	
	+£60.69	
- 1/9 DT Mala C=Anti Duet Silent Con		

ELECTRICAL DATA									
Voltage (-10% + 15%)		Coil	Power Consumption		l	F	Electrical		
	Continuous duty 100%		Inrush	Holding	Insulation class	Enclosure	connections		
~	24 - 48 - 110 - 230 - 380 (50 <i>or</i> 60 Hz)	22001	12VA	6.9VA			2		
=	12 – 24 - 48 (DC)	22001	4.8 Watts		F 155°C	IP 65 with	3 spades DIN 43650		
~	24 - 48 - 110 – 230 (50 <i>or</i> 60 Hz)	830PL6 -	15VA	10.5VA	F 155 C	connector	DIN 40050 VDE 0110		
=	12 - 24 (DC)		6.8 Watts				VDL 0110		

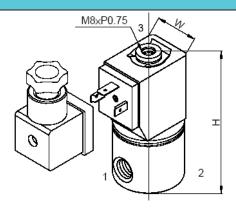
CONSTRUCTION

Body: AISI303 Stainless steel

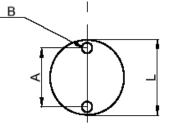
Tube and internal parts: AISI304 stainless steel Head & plunger: AISI 430Fr Stainless steel

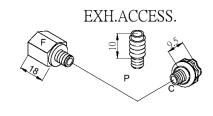
Seals and gaskets: NBR (Optional FKM, FFKM and Kalrez) Moulded coil: Duroplast / Thermo set resin

Exhaust 1/8 BSP Female (See options above)						
REPAIR KIT						
Coil	Coil size (coil 22001 or coil 830PL6) + voltage					
Complete plunger + O' rings	SP + Valve Part Number - ARMATURE					
OVERALL I	DIMENSIONS					



Port	٦	W 22001 Coil	W 830 Coil	н	A	В
1/8	25	22	30	61	18	M4x0.7
1/4	30	22	30	65	23	M4x0.7





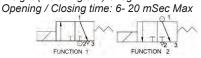
Included

+10%

Brass **Stainless** 3/2

Media: air - water - gas - light oil - vacuum Pressure range: 0 to 16 Bar max Media temperature: -5°C to +145°C max Ambient temperature: -10°C to +50°C max Media viscosity: 50 centistokes max

Mounting: any position Weight (including coil) 510g



## 3/2 Stainless

1/4 - 3/8 NORMALLY CLOSED 3 WAY DIRECT ACTING 0 - 16 Bar



Included

+10%

+£8.25

+£101.68 +£7.11

+£60.69

EXH.ACCESS.

TYPE ST08/10

	PRESSURE										
	Ø Flow			low Pressure Rating (Bar)							
Ø Port		Orifice (mm)		Min	Max 22003 Coil		Max 22005 Coil		Seals	Part Number	List Price
BSP	Body To	Тор	Ltr/Min	1   141111	F 1	Function 2	F 1	Function 2			
	1.3		1.2	0	10		13			ST081F + seal + voltage + coil	
	1.6	1.6	1.7	0	7	13	10	16	NBR	ST082F + seal + voltage + coil	£84.94
	2.0		2.5	0	5		7			ST083F + seal + voltage + coil	
1/4	2.5	2.0	3.3	0	4	10	5	13	-5 +80°C	ST084F + seal + voltage + coil	
	3.0	2.0	5.1	0	3		4	13		ST085F + seal + voltage + coil	
	4.0	2.4	9	0	2 7	7	3	10	*FKM -10 +145°C	ST086F + seal + voltage + coil	
	5.0	2.8	13	0	1	,	2	10		ST087F + seal + voltage + coil	
	1.3		1.2	0	10	13	13		*Kalrez	ST101F + seal + voltage + coil	204.34
	1.6	1.6	1.7 0	0	7		10	16		ST102F + seal + voltage + coil	
	2.0		2.5	0	5		7			ST103F + seal + voltage + coil	
3/8	2.5	2.0	3.3	0	4	10	5	13	+145°C	ST104F + seal + voltage + coil	
	3.0	2.0	5.1	0	3	10	4	13		ST105F + seal + voltage + coil	
	4.0	2.4	9	0	2	7	3	10		ST106F + seal + voltage + coil	
	5.0	2.8	13	0	1	/	2	10	<u>                                       </u>	ST107F + seal + voltage + coil	
							OPT	IONS			

IP65 Coil and Connector PG9 DIN43650A

NPT Thread

22005 18.5 Watt High Power coil

ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (Pressure same as 15 Watt 22003 coil)

FKM (V) seal Kalrez (Z) seal

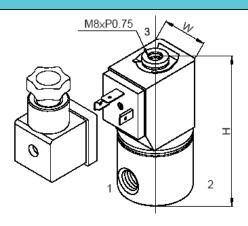
Exhaust Accessories ST0\*\*F= BSP Exhaust - blank=M5 female - P= 1/8 PT Male - C=Anti Dust Silent Cap

Other custom made options available upon request

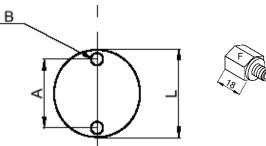
	ELECTRICAL DATA									
Voltage (-10% + 15%)		Coil	Power Co	nsumption			Electrical connections			
	Continuous duty 100%		Inrush	Holding	Insulation class	Enclosure				
~	12-24-48-110-220-240-380 (50/60 Hz)	22003	30VA	22VA			3 spades			
=	12-24-48-110-220 (DC)	22003	15 Watts		H 180°C	IP 65 with	DIN 43650			
~	24 - 48 - 110 – 230 (50 <i>or</i> 60 Hz)	22005	33VA	24VA	П 100 С	connector	DIN 40050			
=	12 - 24 - 48 – 110 - 220(DC)	22005	18.5 Watts			00////00/0/	VDE 0110			
	CONSTRUCTION									

Body: AISI303 Stainless steel Tube and internal parts: AISI304 stainless steel Head & plunger: AISI 430Fr Stainless steel Seals and gaskets: FKM (Optional NBR) Moulded coil: Duroplast / Thermo set resin

Exhaust 1/8 BSP Female (F) see options above **REPAIR KIT** Coil Coil size (22003 or 22005) + voltage Complete plunger + O' rings SP + Valve Part Number -ARMATURE **OVERALL DIMENSIONS** 



Port	L	W 22003	W 22005	Н	Α	В	
1/4	40	30	36	85.5	31	M5x0.8	
3/8	40	30	36	85.5	31	M5x0.8	



Media: air – water – gas – light oil Pressure range: 0 to 11 Bar max Media temperature: -10 °C +80 °C max Ambient temperature: -20° to +60 °C Media viscosity: 50 centistokes max

Mounting: any position Weight: 460g / 670g



Universal

#### 3/2 Stainless Steel

1/4 UNIVERSAL 3 WAY DIRECT ACTING 0 – 11 Bar





2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

> /lechanical Air /alves

Accessories Fittings, Tubing

FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors Vent Suction Check Valves

> inch roportional ub Base

Timers, Coils & Connectors

Magnets & Y Filters

					PRESSUR	E			
ø	Ø	Flow			Pressure Ra			List	
Port BSP	Orifice (mm)	Kv Ltr/ min	Coil	Min	Max AC	Max DC	Seal	Part Number	Price
	1.6	1.5		0	7	4.9	NBR	VXS3121N + voltage	
	1.0	1.5	WPG1	U	,	4.9	FKM	VXS3121V + voltage	
	2.2 2.7	2.7	WPG1	0	5	3.5	NBR	VXS3122N + voltage	
1/4	2.2	2.7		U	5	3.5	FKM	VXS3122V + voltage	
	1.6	1 5		0	4.4	7.7	NBR	VXS3221N + voltage	
	1.6	1.5	MDCO	0	11	7.7	FKM	VXS3221V + voltage	£117.11
	2.2	2.7	WPG2 -	0	7	4.0	NBR	VXS3222N + voltage VXS3222V + voltage	2117.11
		2.7				4.9	FKM		

OPTIONS

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil + IP65 Connector PG11 with LED – DIN 43650 A NPT Thread

Included + 10%

			ELECTRICA	L DATA			
	Voltage (-10% + 10%)	Coil	Power Co	nsumption	Insulation	Enclosure	Electrical
	Continuous duty 100%	Coll	Inrush	Holding	class	Eliciosule	connections
Г	~ 24 - 48 - 110 - 230 - 380 (50 or 60 Hz)	WPG1	11.2VA	8.2VA		/D 05	3 spades
Γ	= 12 - 24 - 48 (DC)	WEGI	12 Watts		H 180°C	IP 65	DIN 43650
Γ	~ 24 - 48 - 110 - 230 - 380 (50 or 60 Hz)	WPG2	18.7VA	15.3VA	П 100 С	with connector	DIN 40050
Г	= 12 - 24 - 48 (DC)	WPG2	18 Watts			COLLIGECTOL	VDE 0110

CONSTRUCTION

Body: 316 stainless steel

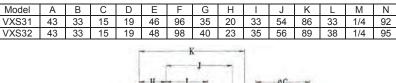
Tube and Spring: 304 Stainless Armature: 430F Stainless Other internal parts: Stainless

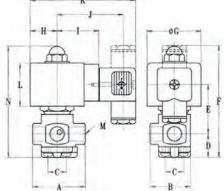
Seals and gaskets: NBR or FKM

Moulded coil: Resin

Wodiaca coll. (Coll)						
REPAIR KIT						
Coil	Coil (WPG1 or WPG2) + voltage					
Armature Assembly	SP + Valve Part Number -ARMATURE					
OVERALL DIMENSIONS						



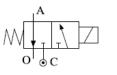




Inlet C= Normally Closed

Inlet O= Normally Open

Inlet A= Universal



 $\text{Min}_{\mathbf{C}}^{\mathbf{1}_{\mathbf{1}}\mathbf{A}}$ 

Normally open

Normally closed

Universal

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Brass 2/2 V/Closed 0 Rated

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

Stainless 2/2 N/Closed 0 Rated

2/2 N/Closed

> 2/2 N/Oper

> > Stean

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas

Pressure Reducing Valves Media: air 40 Micron or better Pressure range: 2 to 8 Bar max Mounting: any position

Seals: NBR+ HNBR

Opening & Closing: 50mSec Max Cycles per sec: 8 Max Temp: -20°C to+60°C (-40°C +150°C\*)

Cycle life: 1,000,000+



Namur + 1/4" BSP NORMALLY CLOSED Direct Acting

# TYPE SV12-10F/P





	Single Direct Acting Normally Closed											
Ø Port	Ø Orifice	Function	Working Temp	Pressure Rating (Bar)		Protection	Body	Part Number	List			
	mm	1 direction	°C	Min	Max	FIOLECTION	Material	rait ivallibei	Price			
1/4BSP	1.3	3/2	-20 to +60	0	8	EExdIICT6	Aluminium	SV110FP1C5 + voltage	£132.30			
+ Namur	1.3	3/2	-20 10 +00	U	0	LEXUITOTO	AISI316	SV210FP1C4 + voltage	£440.47			

**OPTIONS** 

EExdIICT6 Conduit entry M20x1.5mm(M20) option 1/2"NPTF (N12)

EExdIICT6 ATEX explosion proof certified Manual Over Ride (screwdriver slot)
Thread & Namur mount with same body

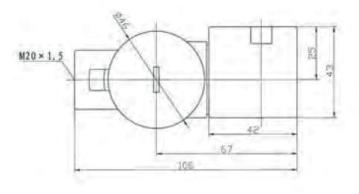
NPT Thread (N)

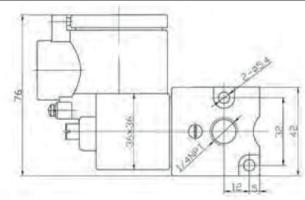
\*Special working temperature: -40°C +80°C (+150°C custom option), 1/8" port

Included Included Included Included +10% TBA

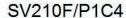
	ELECTRICAL DATA									
	Voltage (-10% + 10%) Continuous duty 100%	ATEX Coil	Power Consumption	Insulation class	Enclosure					
~	110 - 230 (50 or 60 Hz)	EEx d Coil C4	4VA							
=	24 (DC)	316 Stainless	3.5 Watts	- F 155°C	IP 66 M20x1.5 or 1/2NPTF					
~	110 - 230 (50 or 60 Hz)	EEx d Coil C5 Aluminium	4VA							
=	24 (DC)	Epoxy Coated	3.5 Watts							

#### **OVERALL DIMENSIONS**







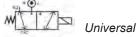




SV110F/P1C5

Media: compressed air
Pressure range: 0 to 10 bar max
Media temperature: 100°C max
Ambient temperature: -10° to +50°C max
Media viscosity: 40 centistokes max
Opening or Closing time: 50 mSec Max

Mounting: any position Weight: 2200g / 2500g



# 3/2 Stainless

1/4 - 1/2 UNIVERSAL DIRECT OPERATED 0 – 10 Bar TYPE 390



PRESSURE											
Ø	Ø	Flow	Pressure	e (bar) ∆P	Casla	Media Temp.	Part Number	Liet Dries			
BSP	Port Orifice		Min	Max	- Seals	Max °C	Part Number	List Price			
1/4	6	5	0	10	NBR FKM	60 100	30639010 + 0142 + voltage 30639020 + 0142 + voltage	£326.36			
3/8 1/2	9	13	0	10	NBR FKM	60 100	30939010 + port + voltage 30939020 + port + voltage	£454.78			

OPTIONS OPTIONS								
IP65 Coil & Connector PG9 – DIN 43650 A 1/4 306 Series	Included							
Manual override or manual reset	+£138.07							
NPT thread	+£36.04							
Explosion Proof Enclosure ATEX II 2 G/D EEx d IIC T6, IP65 85°C								
Other custom made options available upon request - EExmIIT4 ATEX II 2G T4 IP65 T130C								
IP65 Coil & Connector PG9 – DIN 43650 A 3/8 & 1/2 309 Series	Included							
Manual override	+£144.82							
NPT thread								
Explosion Proof Enclosure ATEX II 2 G/D EExd IIC T6, IP65 85°C	+£511.93							
Other custom made options available upon request – EExmIIT4 ATEX II 2G T4 IP65 T130C								

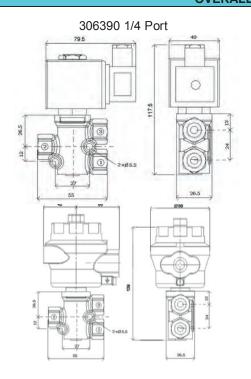
l			ELECTRIC	AL DATA				
	Voltage (-10% + 15%)	Coil	Power Co	nsumption	Insulation	Enclosure	Electrical connections	
l	Continuous Duty 100%	0011	Inrush	Holding	class	Lilologuic		
	~ 24 - 48 - 110 - 230 (50 or 60 Hz) (With bridge rectifier to DC)	24027	4.2	1 W	F 155°C	IP 65 with	3 spades DIN 43650	
	= 12 - 24 - 48	31037		+ vv		connector	DIN 40050 VDE 0110	

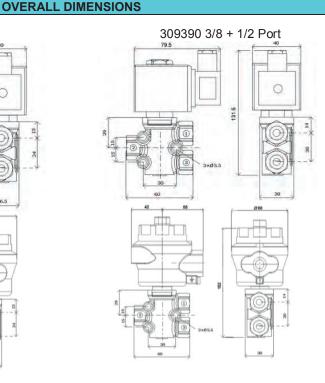
#### CONSTRUCTION

Body: 316 Stainless steel Tube and internal parts: stainless steel Seals and gaskets: NBR or FKM

Moulded coil: resin

Modided Coll. Testiff						
REPAIR KIT						
Coil	31037 + voltage					
Complete plunger + O'ring + complete piston	KIT + valve part number					





2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanica Air Valves

Fittings,
Tubing

FRL's, Filters Regulators Lubricators

Actuated Valves

Arrestors
Vent Suction
Check Valves

Pinch Proportional Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filters Brass 2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

Stainless 2/2 N/Closed 0 Rated

2/2 N/Closed

> 2/2 N/Open

Stear

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

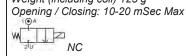
> EN161 Gas

Pressure Reducing Valves Media: air – water – gas – light oil - vacuum

Pressure range: 0 to 15 Bar max Media temperature: 120°C max

Ambient temperature: -10°C to +50°C max Media viscosity: 40 centistokes max

Mounting: any position Weight (including coil) 125 g



## 2/2 Stainless

1/8 NORMALLY CLOSED 2 WAY DIRECT ACTING 0 – 15 Bar



٦	-/	/	P	F	H	AF
				_		1/ \

					PRESSU	RE			
Ø	Ø	Flow	Р	ressure Rating	(Bar) ∆P		Max		
Port BSPT	Orifice (mm)	Kv Ltr/Min	Min	AC Max	DC Max	Seals	Media Temp °C	Part Number	List Price
			_			VITON	80	HA1B-VITON + voltage	£36.48
	1.6	1.6	0	15	10	NBR	50	HA1B-NBR + voltage	£42.65
1/8						EPDM	120	HA1B-EPDM + voltage	£42.65
1/0						VITON	80	HA1C-VITON + voltage	£36.48
	2.4	2.0	0	9	5	NBR	50	HA1C-NBR + voltage	£42.65
						EPDM	120	HA1C-EPDM + voltage	£42.65

**OPTIONS** 

IP65 Coil & Connector PG9 - DIN 43650 B

IP65 Coil with 30 cm Flying lead

**NPT Thread** 

ATEX 22001EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (50%Reduction in Working Pressure) 🛂

Included +5% +10% +£67.14

ELECTRICAL DATA									
Voltage (-10% + 15%)	0-11	Power Cor	nsumption		F	Electrical			
Continuous duty 100%	Coil	Inrush	Holding	Insulation class	Enclosure	connections			
~ 12 - 24 - 48 - 110 - 230 - 415 (50 <i>or</i> 60 Hz)	22001	11.6 VA	8.5 VA	F 155°C	IP 65 with	3 spades DIN 43650B			
= 6 - 12 - 24 - 48 - 110 (DC)	22001	4.8 Watts		1 133 0	connector	DIN 40050 VDE 0110			

#### CONSTRUCTION

Body: AISI303 Stainless steel

Tube and internal parts: AISI 304 stainless steel

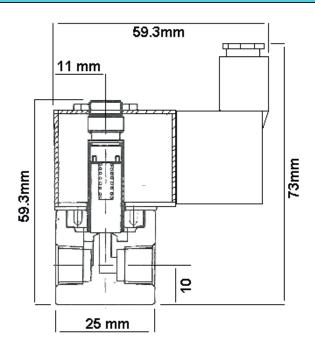
Head & plunger: 430Fr Stainless steel

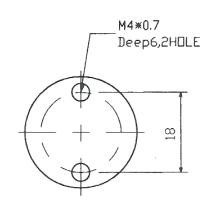
Shading ring: Copper

Seals and gaskets: Viton (Optional EPDM & NBR)

Moulded coil: Resin

REPAIR KIT						
Coil	22001 + voltage					
Complete plunger + O' rings	KIT + valve part number					
OVERALL DIMENSIONS						





Media: air – water – gas – light oil - vacuum Pressure range: 0 to 30 Bar max Media temperature: 120°C max Ambient temperature: -10°C to +50°C max Media viscosity: 40 centistokes max Mounting: any position Weight (including coil) 280 g Opening / Closing time: 10-20 mSec Max

NC

#### 2/2 Stainless

1/8 – 1/4 NORMALLY CLOSED 2 WAY DIRECT ACTING 0 – 30 Bar



TYPE JA

						PRES	SURE															
~	~	Flow		Pressi	ure Rating	(Bar) ∆P			Max													
Ø Port	Ø Orifice	Kv		10 Wa	tt Coil	18 Wa	tt Coil	Seals	Media	Part Number	List											
BSPT	(mm)	Ltr/Min	Min	Max AC	Max DC	Max AC	Max DC	Ocais	Temp °C	T dit Humber	Price											
				AC	DC	AC	DC	NBR	50	JA1BN + voltage + coil												
	1.6	1.6	0	20	15	30	20	EPDM	120	JA1BE + voltage + coil												
	1.0	1.0		20	10		20	FKM	80	JA1BV + voltage + coil												
								NBR	50	JA1CN + voltage + coil												
	2.4	.4 2 0 10 9 20 15 EPE	EPDM	120	JA1CE + voltage + coil																	
1/8								FKM	80	JA1CV + voltage + coil												
1/0	3.2							NBR	50	JA1DN + voltage + coil												
		3.2 2.8	0	0	0	0	0	0	0	0	7	6	15	10	EPDM	120	JA1DE + voltage + coil					
										FKM	80	JA1DV + voltage + coil										
	4	4	4	4	4	4							NBR	50	JA1EN + voltage + coil							
							0	5	4	10	8	EPDM	120	JA1EE + voltage + coil								
									FKM	80	JA1EV + voltage + coil											
	1.6	1.6																	NBR	50	JA2BN + voltage + coil	
			0	20	15	30	20	EPDM	120	JA2BE + voltage + coil	£55.44											
								FKM	80	JA2BV + voltage + coil												
			_		_			NBR	50	JA2CN + voltage + coil												
	2.4	2	0	10	9	20	15	EPDM	120	JA2CE + voltage + coil												
								FKM	80	JA2CV + voltage + coil												
414				_			4.0	NBR	50	JA2DN + voltage + coil												
1/4	3.2	2.8	0	7	6	15	10	EPDM	120	JA2DE + voltage + coil												
					ļ	ļ		FKM	80	JA2DV + voltage + coil	_											
	_	_	0	_	4	10	_	NBR	50	JA2EN + voltage + coil												
	4	4	U	5	4	10	8	EPDM FKM	120 80	JA2EE + voltage + coil												
		_						NBR	50	JA2EV + voltage + coil JA2FN + voltage + coil												
	5	7.1	0	0 4	3	6	5	EPDM	120	JA2FE + voltage + coil												
		7.1	U	-				FKM	80	JA2FV + voltage + coil												
	L			L			TONC	I IXIVI	00	UMZI V I VOILAGE I COII												

**OPTIONS** 

IP65 Coil & Connector PG9 – DIN 43650 A NPT and BSPT Thread 31400 High Power 14 – 20 Watt coil Included +10% +£8.39 +£37.25

	ELECTRICAL DATA								
	Voltage (-10% + 15%) Continuous duty 100%		Power Co	nsumption	luculation class	Enclosure	Electrical		
			Inrush	Holding	Insulation class		connections		
~	24 - 48 - 110 - 230 - 415 (50 <i>or</i> 60 Hz)	11630	26 VA	14 VA			3 spades		
=	12 – 24 - 48 (DC)	11030	10 Watts		F 155°C	IP 65	DIN 43650		
~	24 - 48 - 110 - 230 - 415 (50 <i>or</i> 60 Hz)	31400	48VA	26VA	F 155 C	with connector	DIN 40050		
=	12 - 24 - 48 - 80 - 190 (DC)	31400	14 – 20 Watts			3300101	VDE 0110		

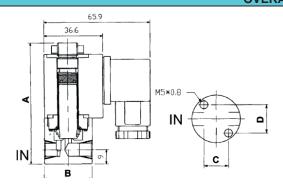
CONSTRUCTION

Body: AISI303 Stainless steel

Tube and internal parts: AISI304 stainless steel, Head & plunger: AISI 430Fr Stainless steel

Seals and gaskets: FKM (Optional EPDM & NBR), Moulded coil: Resin

REPAIR	Z MII
Coil	Coil size (11630 or 31400) + voltage
Armature + seal	SP + Valve Part Number -ARMATURE
OVERALL DI	MENSIONS



Port	Α	В	С	D
1/8	76	30	15.2	17.8
1/4	77	35	16	22

г	D4	Α		_	_
L	Port	А	В	ن	ט
	1/8	76	30	15.2	17.8
ſ	1/4	77	35	16	22

2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanica Air Valves

Accessories Fittings, Tubing

Regulators
Lubricators

Actuated Valves

Arrestors Vent Suctior Check Valves

Proportional Sub Base

Timers, Coils & Connectors

Magnets & Y Filters

**Stainless** 2/2 N/Closed 0 Rated

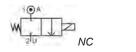
Media: air – water – gas – light oil - vacuum

Pressure range: 0 to 15 bar max Media temperature: 185°C max

Ambient temperature: -10°C to +50°C max Media viscosity: 50 centistokes max

Mounting: any position

Opening / Closing time: 20 mSec Max



# 2/2 Stainless

1/8 - 1/2 NORMALLY CLOSED 2 WAY DIRECT ACTING 0 - 15 Bar TYPE ADS612



**PRESSURE** Ø Flow Pressure Rating (bar) ∆P List Port Orifice Coil Seals **Part Number** Κv Max **Price** Min **BSP** (mm) Ltr/min AC DC 3.0 4 0 10 7 ADS6A + seal + voltage 1/8 4.0 5.5 0 7 5 ADS6B + seal + voltage 5.0 7.2 0 5 3.5 ADS6C + seal + voltage WPG1 £87.19 3.0 4 0 10 7 ADS8A + seal + voltage 1/4 4.0 5.5 0 7 5 ADS8B + seal + voltage 5.0 7.2 0 5 3.5 NBR +80°C ADS8C + seal + voltage SILICONE +120°C 4.0 5.5 0 10 7 ADS10A + seal + voltage EPDM +120°C 6.0 WPG2 10.5 0 5 3.5 ADS10B + seal + voltage £132.29 FKM +120°C 8.0 16.2 0 2 1.4 ADS10C + seal + voltage 3/8 4.0 5.5 0 15 10 ADS10A-C3 + seal + voltage \*PTFE +185°C 6.0 WPA3C 10.5 0 7 5 ADS10B-C3 + seal + voltage £142.66 \*VST +185°C 8.0 16.2 0 3 2 ADS10C-C3 + seal + voltage 0 5 6.0 10.5 3.5 ADS12A + seal + voltage WPG2 £150.33 8.0 16.2 0 2 1.4 ADS12B + seal + voltage 1/2 7 5 6.0 0 ADS12A-C3 + seal + voltage 10.5 WPA3C £160.70

#### **OPTIONS**

2

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil + IP65 Connector PG11 with LED - DIN 43650 A

0

16.2

ATEX EExmIIT4 II 2G & 2D IP65 T130°C coil. (Pressure rating WPG1 same, WPG2 70% of DC rating, WPA3C not available) Silver shading ring (ADSxxxS)

3

\* PTFE, VST, CR, ECO, HNBR or Hypalon Seals

Manual Over Ride (ADS8 - 10)

8.0

NPT Thread

mciuded
+£101.68
+£30.06
+£15.03
+£45.10
+10%

ELECTRICAL DATA								
Voltage (-10% + 15%)	Coil	Power Co	nsumption	Insulation	Enclosure	Electrical connections		
Continuous duty 100%	Con	Inrush	Holding	class				
~ 24 - 110 - 230 (50 or 60 Hz)	WPG1	11.2VA	8.2VA			3 spades		
= 12 - 24 (DC)	WFGT	12 Watts		H 180°C	IP 65 with	DIN 43650A		
~ 24 - 110 - 230 (50 or 60 Hz)	WPG2	18.7VA	15.3VA	11 100 C	connector	DIN 40050		
= 12 - 24 (DC)	WFGZ	18 Watts				VDE 0110		
~ 24 - 110 - 230 (50 or 60 Hz)	WPA3C	AV88	57VA	N 200°C	IP54	30cm flying		
= 12 - 24 (DC)	WPASC	33.6 Watts		N 200 C	11-04	lead wire		
CONSTRUCTION								

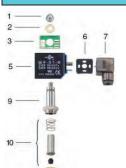
Body: Forged 316 stainless steel (CF8M)

Tube 304 stainless steel, armature 430F stainless steel

Shading ring: copper (Optional Silver)

Seals and gaskets: FKM (Optional EPDM, NBR, SILICONE, PTFE, VST, CR, ECO, HNBR and Hypalon)

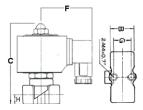
Moulded coil: Resin	
REPAII	RKIT
Coil	Coil (WPG1 or WPG2 or WPA3C) + voltage
Armature + Seal assembly	SP210 + Valve Part Number
OVERALL DI	MENSIONS



Item	Part No	Description
1	SP201-*	Nut
2	SP202-*	Washer
3	SP203-*	Nameplate
5	WPG*	Coil
6	SP206-*	Gasket
7	SP207-*	Connector
9	SP209-*	Core Tube
10	SP210-*	Armature Assembly
17	SP211-*	Valve Body
	* = Valve	Part Number

Model	Α	В	С	F	G	Н	Kg
ADS8	41	19	89	63	15	10.5	0.47
ADS10	50	25	90	65	15	11.7	0.73
ADS12	55	27	91	65	17	13	0.78

ADS12B-C3 + seal + voltage



Media: air - water - gas - light oil - vacuum

Pressure range: 0 to 150 Bar max Media temperature: 180°C max

Ambient temperature: -10°C to +50°C max

Media viscosity: 50 centistokes max

Mounting: any position

Opening / Closing time: 20 mSec Max



#### 2/2 Stainless

NORMALLY CLOSED 2 WAY DIRECT ACTING 0 - 150 Bar



TYPE ADS6000

PRESSURE											
Ø Port BSP	Ø Orifice (mm)	Coil	Flow Kv	Pr Min	essure Rating	Max	Seals	Part Number	List Price		
БОГ	<u> </u>		Ltr/min	0	AC	DC		ADCC010 Local Lyaltage			
	1.2		1.1	_	60	42	4	ADS6012 + seal + voltage			
	1.6	WPG1	1.5	0	40	28		ADS6016 + seal + voltage	£102.22		
	2.0		1.8	0	20	14		ADS6020 + seal + voltage			
	1.2		1.1	0	120	84	NDD : 0000	ADS6112 + seal + voltage	£126.28		
	1.6	- WPG2	1.6	0	60	42	NBR +80°C SILICONE +120°C EPDM +120°C FKM +120°C *VST +180°C (30 Bar Max)	ADS6116 + seal + voltage			
	2.0		1.8	0	30	21		ADS6120 + seal + voltage			
	3.0		4.3	0	20	14		ADS6130 + seal + voltage			
1/8	4.0		9.7	0	12	8.4		ADS6140 + seal + voltage			
	5.0		10.7	0	10	7		ADS6150 + seal + voltage			
	1.2		1.1	0	150	105	*PTFE +180°C	ADS6212 + seal + voltage			
	1.6		1.5	0	80	56	(150 Bar)	ADS6216 + seal + voltage			
	2.0	WPA3C	1.8	0	60	42	(100 501)	ADS6220 + seal + voltage	£150.34		
	3.0	WPA3C	4.3	0	40	28		ADS6230 + seal + voltage	2.150.54		
	4.0		9.7	0	20	14		ADS6240 + seal + voltage			
	5.0		10.7	0	15	10.5		ADS6250 + seal + voltage			

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil & IP65 LED Connector PG11 – DIN 43650 A ATEX EExmIIT4 II 2G & 2D IP65 T130°C coil. (Pressure rating WPG1 same, WPG2 70% of DC rating, WPA3C not available)

\* PTFE, VST, CR, ECO, HNBR or Hypalon Seals

Silver shading ring (ADS6xxxS) Manual Over Ride

NPT Thread

Other custom made options upon request

5, WEGE 1070 OF DC failing, WEASC HOL available)	. ~ 10 1.00
,	+£15.37
	+£30.06
	+£45.10
	+10%

ELECTRICAL DATA							
Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical
		Con	Inrush	Holding	insulation class	Eliciosure	connections
~	24 - 110 - 230 (50 or 60 Hz)	WPG1	11.2VA	8.2VA			3 spades
=	12 - 24 (DC)	WPG1	12 Watts			IP 65 with	DIN 43650A
~	24 - 110 - 230 (50 or 60 Hz)	WPG2	18.7VA	15.3VA	H 180°C	connector	DIN 40050
=	12 - 24 (DC)	WFGZ	18 Watts		11 100 C		VDE 0110
~	24 - 110 - 230 (50 or 60 Hz)	WPA3C	88VA	57VA		IP54	30 cm flying
=	12 - 24 (DC)	WFA3C	33.6 Watts			17-54	lead wires
			CONS	STRUCTION			

Body: 316 Stainless steel

Tube 304 stainless steel, armature 430F stainless steel

Shading ring: copper (optional Silver)
Seals and gaskets: FKM (Optional EPDM, NBR, SILICONE, PTFE, VST, CR, ECO, HNBR and Hypalon)
Moulded coil: Pesin

Modided Coll. Resili						
REPAIR KIT						
Coil	Coil size (WPG1 or WPG2 or WPA3C) + voltage					
Armature	SP210 + Valve Part Number					
OVERALL DIMENSIONS						



Item	Part No	Description					
1	SP201-*	Nut					
2	SP202-*	Washer					
3	SP203-*	Nameplate					
5	WP*	Coil					
6	SP206-*	Gasket					
7	SP207-*	Connector					
9	SP209-*	Core Tube					
10	SP210-*	Armature Assembly					
17	SP211-*	Valve Body					
* - Valvo Part Number							

	w
c	2.M4×0.7°
IH III	

41

41

41

В

19

19

19

С

85

88

94

63

65

47

G

15

15

15

Н

10.5

10.5

10.5

Kg

0.47

0.66

0.66

Model

6012-6020

6112-6150

6212-6250

Included

**Stainless** 2/2 N/Closed 0 Rated

Media: air – water – gas – fluid - vacuum Pressure range: 0 to 150 Bar max

Media temperature: 180°C max Ambient temperature: -10°C to +50°C max

Media viscosity: 50 centistokes max

Mounting: any position

Opening / Closing time: 20 mSec Max



#### 2/2 Stainless

NORMALLY CLOSED 2 WAY DIRECT ACTING 0 - 150 Bar





	PRESSURE											
ø ø			Flow	Pres	sure Rating	j (bar) ∆P			1.1-4			
Port BSP	Orifice (mm)		Kv Ltr/min	Min	Max AC	Max DC	Seals	Part Number	List Price			
	1.2		1.1	0	60	42		ADS8012 + seal + voltage				
	1.6	WPG1	1.5	0	40	28		ADS8016 + seal + voltage	£102.22			
	2.0		1.8	0	20	14		ADS8020 + seal + voltage				
	1.2	1.1	1.1	0	120	84	NDD 1000C	ADS8112 + seal + voltage				
	1.6		1.6	0	60	42	NBR +80°C SILICONE +120°C	ADS8116 + seal + voltage				
	2.0	WPG2	1.8	0	30	21	EPDM +120°C	ADS8120 + seal + voltage	£126.28			
	3.0	WFGZ	4.3	0	20	14	FKM +120°C	ADS8130 + seal + voltage	£120.20			
1/4	4.0		9.7	0	12	8.4	*VST +180°C (30 Bar Max)	ADS8140 + seal + voltage				
	5.0	10.7	10.7	0	10	7		ADS8150 + seal + voltage				
	1.2	1.1	1.1	0	150	105	*PTFE +180°C	ADS8212 + seal + voltage				
	1.6		1.5	0	80	56	(150 Bar)	ADS8216 + seal + voltage				
	2.0	WPA3C 1.8 4.3 9.7	1.8	0	60	42	(100 Bal)	ADS8220 + seal + voltage	£150.34			
	3.0		4.3	0	40	28		ADS8230 + seal + voltage	2130.34			
	4.0		9.7	0	20	14	]	ADS8240 + seal + voltage				
	5.0		10.7	0	15	10.5		ADS8250 + seal + voltage				
						ODTI	ONIC					

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil (Not WPA3C) & IP65 LED Connector PG11 – DIN 43650 A ATEX EExmIIT4 II 2G & 2D IP65 T130°C Coil. (Pressure rating WPG1 same, WPG2 70% of DC rating, WPA3C not available) \* PTFE, VST, CR, ECO, HNBR or Hypalon Seals

Silver shading ring (ADSxxxS)

Manual Over Ride

NPT Thread Other custom made options upon request

Included +£101.68 +£15.37

+£30.06 +£45.10 +10%

			ELECTRICA	AL DATA				
	Voltage (-10% + 15%)	Coil	Power Co	onsumption	Insulation	Enclosure	Electrical connections	
	Continuous duty 100%	Con	Inrush	Holding	class			
~	24 - 110 - 230 (50 or 60 Hz)	WPG1	11.2VA	8.2VA			3 spades	
=	12 - 24 (DC)	WPG1	12 Watts			IP 65 with	DIN 43650A	
~	24 - 110 - 230 (50 or 60 Hz)	WPG2	18.7VA	15.3VA	H 180°C	connector	DIN 40050	
=	12 - 24 (DC)	WFGZ	18 Watts		11 100 C		VDE 0110	
~	24 - 110 - 230 (50 or 60 Hz)	WPA3C	88VA	57VA		IP54	30 cm flying	
=	12 - 24 (DC)	WPASC	33.6 Watts			11-54	lead wires	
	CONSTRUCTION							

Body: 316 Stainless steel Tube 304 stainless steel, armature 430F stainless steel

Shading ring: copper (optional Silver)

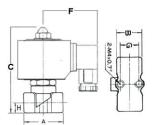
Seals and gaskets: FKM (Optional EPDM, NBR, SILICONE, PTFE, VST, CR, ECO, HNBR and Hypalon)

Moulded coil: Resin						
REPAIR	KIT					
Coil	Coil size (WPG1 or WPG2 or WPA3C) + voltage					
Armature + Seal	SP210 + Valve Part Number					
OVERALL DIMENSIONS						



Item	Part No	Description
1	SP201-*	Nut
2	SP202-*	Washer
3	SP203-*	Nameplate
5	WP*	Coil
6	SP206-*	Gasket
7	SP207-*	Connector
9	SP209-*	Core Tube
10	SP210-*	Armature Assembly
17	SP211-*	Valve Body
	* = Valve	Part Number

Model	Α	В	С	F	G	Н	Kg
8012-8020	41	19	85	63	15	10.5	0.47
8112-8150	41	19	88	65	15	10.5	0.66
8212-8250	41	19	94	47	15	10.5	0.66



Media: air - water - gas - light oil - vacuum

Pressure range: 0 to 200 Bar max Media temperature: +100°C max Ambient temperature: -10°C to +50°C max

Media viscosity: 40 centistokes max

Mounting: any position Weight (including coil): 550 g

Opening or closing time: 20 mSec max



#### 2/2 Stainless

1/8 - 1/4NORMALLY CLOSED 2 WAY DIRECT ACTING 0 - 200 Bar TYPE WH



Flow Pressure Rating (Bar) Ø Ø List **Port** Orifice **Seals Part Number** Κv Price Min Max **BSP** (mm) Ltr/min 0.2 200 0.6 0 W0.6H + seal + port + voltage £308.69 120 8.0 0.3 0 W0.8H + seal + port + voltage 1 0.5 0 50 W1H + seal + port + voltage 1.2 0.67 0 40 W1.2H + seal + port + voltage 1/8 1.5 0.95 0 30 W1.5H + seal + port + voltage 2 0 20 1.6 W2H + seal + port + voltage or NBR 2.5 2.3 0 13 FKM W2.5H + seal + port + voltage £241.04 1/4 **EPDM** 3 3 0 10 W3H + seal + port + voltage 4 5 0 5 W4H + seal + port + voltage 7 5 3 0 W5H + seal + port + voltage 6 9.7 0 2 W6H + seal + port + voltage 8 17 0 1 W6H + seal + port + voltage 3/8 or £646.93 1/2 12 30 0 0.5 W6H + seal + port + voltage

IP65 Coil + Connector PG9 - DIN 43650 A

NPT 1/8 + 1/4 Thread

PTFE Seals (up to 5mm orifice only)

Explosion Proof Enclosure ATEX II 2 G/D EExdIICT6, IP65 85°C (Ambient T° from -20°C to +40°C)

Included +£36.04 +£36.04 +£404.78

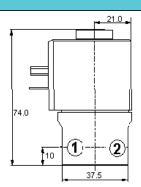
	ELECTRICAL DATA							
Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption Inrush Holding		Insulation class	Enclosure	Electrical connections	
~	12 - 24 - 48 - 110 - 230 (50 or 60 Hz)	24400	48 VA	24 VA		IP 65	3 spades DIN 43650	
=	12 - 24 - 48 - 110- 190 (DC)	31400	14 - 20 Watts		F 155°C	with connector	DIN 40050 VDE 0110	
CONSTRUCTION								

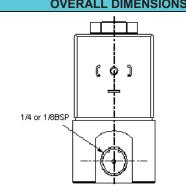
**OPTIONS** 

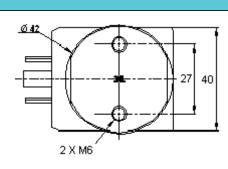
Body: Stainless steel

Tube and internal parts: Stainless steel Seals and gaskets: NBR, EPDM or FKM

Moulded coil: Polyamide	
REPAII	R KIT
Coil	31400 + voltage
Complete plunger + O' rings	KIT + valve part number
OVER ALL DI	MENGIONO







Stainless 2/2 N/Closed 0 Rated

Media: air – water – light oil 2/2 Stainless Pressure range: 0 to 500 Bar max Media temperature: +80°C max

1/8 - 1/4NORMALLY CLOSED 2 WAY DIRECT/PILOT ACTING 500 Bar



TYPE EN520

				1					
				F	PRESSURE				
Ø	Ø	Flow	Pressure Rat	ting (Bar) ∆P		Max		List	
Port BSP	Orifice (mm)	Kv Ltr/min	Min	Max	Seals	Media Temp	Part Number	Price	
1/8	0.7	0.175	0	300	PTFE + FKM		EN52051 + voltage	£556.864	
1/4	0.7	0.175	0	300	FILTIKIVI	+80°C	EN52050 + voltage	2550.004	
1/8	0.7	0.175	0	350	VOLTALEF		EN52061 + voltage	£694.892	
1/4	0.7	0.175	0	350	VOLTALLI		EN52060 + voltage	2034.032	
1/8	0.6	0.15	10	400			EN520810685-0181 + voltage		
1/8	0.5	0.15	10	500	PEEK	+150°C	EN520810585-0181 + voltage	£1659.54	
1/4	0.6	0.15	10	400	T FEEK	+150 C	EN520810685-0141 + voltage	2.1009.04	
1/4	0.5	0.15	10	500			EN520810585-0141 + voltage		
					OPTIONS				

IP65 Coil + Connector PG9 - DIN 43650 A

Ambient temperature: -20°C to +50°C max Media viscosity: 40 centistokes max

Opening or closing time: 20 mSec max

Mounting: Coil upright Weight (including coil): 400 g

NPT 1/8 + 1/4 thread

Explosion Proof Enclosure ATEX II 2 G/D EexdIICT6 or T4, IP65

Included +£36.04 +£404.78

		ELECTRICAL DATA									
ſ	Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Cor	nsumption	Insulation	Enclosure	Electrical			
Į			COII	Inrush	Holding	class	Eliciosure	connections			
	~	12 - 24 - 48 - 110 - 230 (50 or 60 Hz)	31037	48 VA	24 VA	F 155°C	IP 65 with	3 spades DIN 43650			
	=	12 - 24 - 48 – 110 (DC)	01001	13.7 Watts		1 100 0	connector	DIN 40050 VDE 0110			

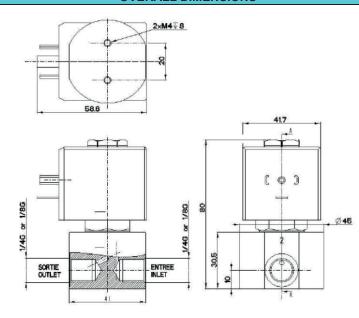
CONSTRUCTION

Body: Stainless steel

Tube and internal parts: Stainless steel

Seals and gaskets: PTFE + FKM, VOLTALEF or PEEK

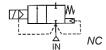
Woulded Coll. INESHI						
REPAIR KIT						
Coil	31037 + voltage					
Complete plunger + O' rings	KIT + valve part number					
OVERALL DIM	ENSIONS					



Media: air – water – light oil - vacuum Pressure range: 0 to 16 Bar max Media temperature: +40°C to +150°C max Ambient temperature: -20°C to +60°C max Media viscosity: 50 centistokes max

Mounting: coil upright

Opening / Closing Time: 50 mSec Max



## 2/2 Stainless Steel

3/8 –3/4 NORMALLY CLOSED 2 WAY ZERO RATED 0 – 7 or 12 Bar TYPE SPU220®



**PRESSURE** Pressure Rating (bar) Flow Ø Max Media DC Coil List Κv AC Coil **Port** Orifice Seals **Part Number** Temp. °C **Price** Ltr/ Min 15 18.5 15 18.5 **BSP** (mm) min Watt Watt Watt Watt **NBR** 80 SPU22003 + voltage £144.00 SPU22003V + voltage 3/8 13 35 0 5 7 FKM 120 £126.56 EPD<u>M</u> SPU22003E + voltage £144.00 150 NBR 80 SPU22004A + voltage £144.00 SPU22004AV + voltage 1/2 13 0 5 7 £126.56 35 **FKM** 120 **EPDM** SPU22004AE + voltage 150 £144.00 SPU22006A + voltage **NBR** 80 £165.57 SPU22006AV + voltage 3/4 0 5 7 FKM £158.75 20 72 120 SPU22006AE + voltage **EPDM** 150 £165.57 NBR 80 SPU22003-18.5W + voltage £152.25 SPU22003V-18.5W + voltage 3/8 13 0 12 12 £134.81 35 FKM 120 **EPDM** 150 SPU22003E-18.5W + voltage £152.25 SPU22004A-18.5W + voltage **NBR** 80 £152.25  $\mathsf{FKM}$ 35 0 12 SPU22004AV-18.5W + voltage 1/2 13 12 120 £134.81 **EPDM** 150 SPU22004AE-18.5W + voltage £152.25 NBR 80 SPU22006A-18.5W + voltage £160.50  $\mathsf{FKM}$ 0 SPU22006AV-18.5W + voltage 3/4 20 72 16 16 120 £167.00 **EPDM** 150 SPU22006AE-18.5W + voltage £160.50

**OPTIONS** 

22003 IP65 CE approved 15 Watt Coil & Connector PG9 – DIN 43650 A Connector 22005 IP65 CE approved 18.5 Watt Coil & Connector – DIN 43650 A Connector ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (Max ΔP 3 Bar) NPT Thread

+£8.25 +£101.68 +10%

Included

HNBR seals - same price as NBR or EPDM seal

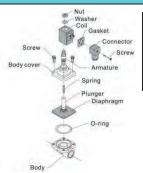
_	'											
	ELECTRICAL DATA											
Voltage (-10% + 10%)		Coil	Power Consumption		Insulation class	Enclosure	Electrical					
	Continuous duty 100%		Inrush	Holding	Ilisulation class	Eliciosure	connections					
~	12-24-48-110-220-240-380 (50/60 Hz)	22003	23VA	17VA			3 spades					
=	12-24-48-110-220 (DC)	22003	15 Watts		H 180°C	IP 65 with	DIN 43650A					
~	24-48-110-230 (50/60 Hz)	22005	33VA	24VA	H 100 C	with connector	DIN 40050					
=	12-24-48-110-220 (DC)	22005	18.5 Watts				VDE 0110					

CONSTRUCTION

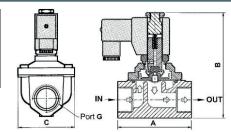
Body: 316 Stainless steel (1/2 & 3/4 ATEX certified body) Tube and internal parts: Stainless steel

Seals and gaskets: FKM (Optional EPDM, NBR or HNBR)
Nass Magnet Moulded coil: DuroPlast / ThermoSet Resin

Nass Wagnet Woulded Coll. Butor last / The moset Nesin						
REPAIR KIT						
Diaphragm seal	22004 or 22006 + seal material					
Coil	Coil size (22003 or 22005) + voltage					
Complete plunger assembly	225320 + seal material					
OVERALL D	IMENSIONS					



Model	SPU22003	SPU22004A	SPU22006A
Port R	3/8	1/2	3/4
Α	66.5	66.5	71.0
В	101.0	101.0	107.0
С	48.0	48.0	58.0
Kg	0.74	0.715	0.945



2/2 & 3/2 Coaxial Solenoid Valves

> Electric Actuated Ball Valves

Air Solenoid Valves

Mechanica Air Valves

Accessories Fittings, Tubing

> FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors
Vent Suction
Check Valve

Pinch Proportional Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filters

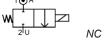
**Stainless** 2/2 N/Closed 0 Rated

Media: vacuum (10 Torr) - air - water - light oil

Pressure range: 0 to 10 Bar max Media temperature: +90°C

Ambient temperature: -30°C to +40°C (+50°C\*)

Media viscosity: 50 centistokes Mounting: preferred coil upright Opening / Closing 100 mSec Max



0 - 10 Bar TYPE MD316

2/2 Stainless

3/8 - 2"

NORMALLY CLOSED

2 WAY ZERO RATED



PRESSURE										
Ø	Ø	Flow		Pressure Rating	(Bar)			List		
Port BSPT	Orifice (mm)	Kv Ltr/ min	Min	Max Air/ Water	Max Oil	Seals	Part Number	Price		
	` '	E(1/ 111111		7 III TTUIO	0	EPDM	MD15316M16E + voltage	£133.38		
1/2	16	61.7	0	10	7	NBR	MD15316M16N + voltage	£133.38		
						FKM	MD15316M16V + voltage	£148.05		
						EPDM	MD20316M16E + voltage	£151.90		
3/4	23	105.0	0	10	7	NBR	MD20316M16N + voltage	£151.90		
						FKM	MD20316M16V + voltage	£168.61		
						EPDM	MD25316M16E + voltage	£177.83		
1	28	133.3	3 0	10	7	NBR	MD25316M16N + voltage	£177.83		
						FKM	MD25316M16V + voltage	£197.38		
						EPDM	MD32316M16E + voltage	£255.63		
11/4	32	217	0	10	7	NBR	MD32316M16N + voltage	£255.63		
						FKM	MD32316M16V + voltage	£283.75		
						EPDM	MD40316M16E + voltage	£314.90		
11/2	40	338	0	10	7	NBR	MD40316M16N + voltage	£314.90		
						FKM	MD40316M16V + voltage	£349.54		
						EPDM	MD50316M16E + voltage	£407.52		
2	50	50 533	0	10	7	NBR	MD50316M16N + voltage	£407.52		
						FKM	MD50316M16V + voltage	£452.34		
					OPTIONS					

IP65 Coil & Connector PG11 - DIN 43650 A NPT Thread

Without Shading Ring (DC voltages only)

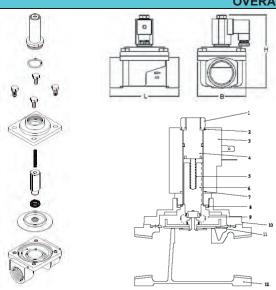
M17 Class N High Power Coil +50°C Ambient, 0 to 16 Bar (MDxx316M17 + seal + voltage)

Included +10% +£36.30 +£33.22

	ELECTRICAL DATA										
	Voltage (-10% + 10%)	Coil	Power Co	nsumption	Insulation	Enclosure	Electrical				
	Continuous Duty 100%	Coll	Inrush	Holding	class	Eliciosure	connections				
~	24 - 110 - 230 (50 or 60 Hz)	M40	70VA	35VA	E 455°O	IP 65	3 spades DIN 43650A				
=	12 - 24 – 48 - 125 (DC)	M16	26 Watts		F 155°C	with connector	DIN 40050 VDE 0110				
	CONSTRUCTION										

Body: 316 Stainless Steel (CF8M) Tube and internal parts: 304, 430F Stainless steel Seals and gaskets: EPDM (Optional NBR or Viton®) Shading Ring: Copper (Option for silver shading ring)

Woulded Coll. Resilf Frated							
REPAIR KIT							
Diaphragm seal	MD + orifice + material						
Coil	Coil type (M16 or M17) + voltage						
Armature assembly	SP + Valve Part Number -ARMATURE						
OVERALLEIN	IENCIONO						



Model	Port	L	В	Н	Kg
MD15	1/2	70	52	112	0.8
MD20	3/4	80	62	122	1
MD25	1	90	72	132	1.25
MD32	11/4	120	83	138	1.9
MD40	11/2	136	97	140	2.6
MD50	2	160	112	150	4

Part	Description	Material
1	Nut	SUS304
2	O Ring	NBR
3	IP6	5 Moulded Coil
4	Packless Ass'y	SUS304
5	Plunger Spring	SUS304
6	Plunger	SUS304, KM31
7	O Ring	NBR
8	O Ring	NBR
9	Spring	SUS304
10	Valve Bonnet	3/8-1" C3771BE/SCS14 11/4 – 2" BC 6/SCS14
11	Diaphragm	SUS304, BSBF(SUS304) NBR, EPDM or Viton
12	Valve Body	3/8-1" C3771BE/SCS14 11/4 – 2" BC 6/SCS14

Media: slight acid/ alkali – fluid - gas – vacuum

Pressure range: 0 to 10 Bar max Media temperature: 180°C max

Ambient temperature: -10°C to +60°C max

Media viscosity: 50 centistokes max Mounting: coil upright

Opening Closing time: 150 mSec Max



## 2/2 Stainless

3/8 – 2 NORMALLY CLOSED 2 WAY ZERO RATED 0 – 10 Bar



TYPE ADS14-50

	PRESSURE										
ø	Ø	Flow	P	Pressure Rating (Bar) ΔP			Max		List		
Port BSP	Orifice (mm)	Kv Ltr/Min	Min	Max AC	Max DC	Seals	Media Temp °C	Part Number	Price		
3/8	15	40	0	10	7	FKM EPDM NBR	120 120 80	ADS14V + voltage ADS14E + voltage ADS14N + voltage	£221.25 £243.38 £243.38		
1/2	15	40	0	10	7	FKM EPDM NBR	120 120 80	ADS15V + voltage ADS15E + voltage ADS15N + voltage	£221.25 £243.38 £243.38		
3/4	20	95	0	10	7	FKM EPDM NBR	120 120 80	ADS20V + voltage ADS20E + voltage ADS20N + voltage	£251.34 £276.47 £276.47		
1	25	185	0	10	7	FKM EPDM NBR	120 120 80	ADS25V + voltage ADS25E + voltage ADS25N + voltage	£352.22 £387.44 £387.44		
11/4	35	400	0	10	7	FKM EPDM NBR	120 120 80	ADS35V + voltage ADS35E + voltage ADS35N + voltage	£612.38 £673.62 £673.62		
11/2	35	400	0	10	7	FKM EPDM NBR	120 120 80	ADS40V + voltage ADS40E + voltage ADS40N + voltage	£612.38 £673.62 £673.62		
2	50	570	0	7	4.9	FKM EPDM NBR	120 120 80	ADS50V + voltage ADS50E + voltage ADS50N + voltage	£1220.70 £1342.77 £1342.77		

**OPTIONS** 

IP67 (EN60529:1991+A1:2000) UL & CSA Approved Coil & IP65 LED Connector PG11 - DIN 43650 A

Silver shading ring (ADSxxxS)

NPT, BSPT Thread

ATEX EExmIIT4 II 2G & 2D IP65 T130°C Coil (Pressure 3 Bar Max)

Manual Over Ride (Base entry T bar)

VST seals suitable for steam 180°C, CR, ECO, HNBR, Silicone or Hypalon Seals

Included
+£30.06
+10%
+£101.68
+£105.23
+10%

	ELECTRICAL DATA							
Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Cor Inrush	nsumption Holding	Insulation class	Enclosure	Electrical connections	
~	24 - 110 - 220 - 240 - 380 (50 or 60 Hz)	MDOO	18.7VA	15.3VA		IP 65	3 spades DIN 43650	
=	= 12 – 24 - 48 (DC) WPG2 18 Watts		H 180°C	with connector	DIN 40050 VDE 0110			
CONSTRUCTION								

Body: 316 stainless steel (CF8M)

Tube + Spring 304 Stainless Armature: 430F Stainless steel

Seals and gaskets: FKM (Optional EPDM, NBR, SILICONE, VST, CR, ECO, HNBR and Hypalon)

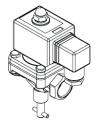
Moulded coil: Resin

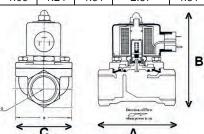
REPAIR KIT					
Coil WPG2 + voltage					
Diaphragm SP215 + Valve Part Number					
OVERALL DIMENSIONS					



No.	Part No	Description
1	SP201*	Nut
2	SP202*	Washer
3	SP203*	Nameplate
5	WPG2*	Coil
6	SP206*	Gasket
7	SP207*	Connector
8	SP208*	Core Tube
9	SP209*	Valve Bonnet
10	SP210*	Bolt
11	SP211*	Bonnet O Ring
12	SP212*	Armature Assembly
13	SP213*	Diaphragm Base Kit
14	SP214*	Diaphragm Base
15	SP215*	Diaphragm
16	SP216*	Base O Ring
17	SP217*	Valve Body
	* = Valve	Part Number

Model	ADS 15	ADS 20	ADS 25	ADS35 ADS40	ADS 50
Α	75	85	100	120	150
В	103	114	120	140	160
С	52	60	70	90	122
Kg	1.06	1.24	1.51	2.87	4.81





2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanical Air Valves

Accessories Fittings, Tubing

FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors
Vent Suction
Check Valves

Pinch Proportional Sub Base

Timers, Coils & Connectors

Magnets & Y Filter

**Stainless** 2/2 N/Closed 0 Rated

Media: air - fluid - gas - vacuum- water

Pressure range: 0 to 10 Bar max Media temperature: 120°C max

Ambient temperature: -20°C to +60°C max Media viscosity: 50 centistokes max

Mounting: coil upright

Opening / Closing Time: 50 mSec Max



# 2/2 Stainless Flanged

DN15 - DN50 NORMALLY CLOSED 2 WAY ZERO RATED

> 0 - 10 Bar TYPE ADSF



	PRESSURE								
Ø	Ø	Flow	Pre	ssure Rating	(Bar) ∆P	Max _ Seals			List
Port PN16	Orifice (mm)	Kv Ltr/ min	Min	Max AC	Max DC	Working	Temperature °C	Part Number	Price
DN15	15	75	0	10	7	10		ADS15PF + seal + voltage	£541.20
DN20	20	155	0	10	7	10	NBR +80°C	ADS20PF + seal + voltage	£586.30
DN25	25	220	0	10	7	10	FKM +120°C EPDM +120°C	ADS25PF + seal + voltage	£865.92
DN32	35	400	0	10	7	10	Silicone +130°C	ADS35PF + seal + voltage	£1337.96
DN40	35	400	0	10	7	10	*CST +185°C	ADS40PF + seal + voltage	£1337.96
DN50	51	800	0	7	5	10		ADS50PF + seal + voltage	£2315.14

**OPTIONS** 

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil & IP65 LED Connector PG11 - DIN 43650 A

ATEX EExmIIT4 II 2G & 2D IP65 T130°C coil. (Max Pressure 3 Bar)

ANSI150Lb, JIS10K or other flange

Manual Over Ride (Bottom entry mounted turn T bar)

Silver Shading Ring (ADSxxPFS)

\*VST special seals for steam 180°C, CR, ECO, HNBR, Silicone or Hypalon Seals

Other custom made options available upon request

Included +£101.68 +20% +£105.23 +£30.06 +10%

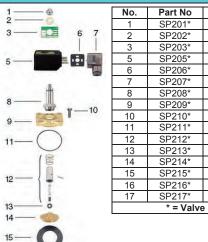
	ELECTRICAL DATA							
	Voltage (-10% + 10%) Continuous duty 100%		Power Co	nsumption	Insulation	Enclosure	Electrical connections	
			Inrush	Holding	class			
~	~ 24 - 110 - 230 (50 or 60 Hz)		18.7VA	15.3VA	H 180°C	IP 65 with	3 spades DIN 43650A	
=	2 - 24 (DC) WPG2 18 Watts			connector	DIN 40050 VDE 0110			
	CONSTRUCTION							

Body: 316 stainless steel CF8M

Tube and Spring: 304 Stainless Armature: 430F Stainless other internal parts 316 Stainless Seals and gaskets: FKM (Optional EPDM, NBR, SILICONE, VST, CR, ECO, HNBR and Hypalon)

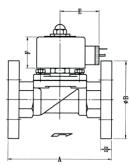
Mo

Moulded coil: Resin					
REPA	IR KIT				
Coil	WPG2 + voltage				
Diaphragm SP215 + Valve Part Number					
OVERALL DIMENSIONS					



No.	Part No	Description
1	SP201*	Nut
2	SP202*	Washer
3	SP203*	Nameplate
5	SP205*	Coil
6	SP206*	Gasket
7	SP207*	Connector
8	SP208*	Core Tube
9	SP209*	Valve Bonnet
10	SP210*	Bolt
11	SP211*	Bonnet O Ring
12	SP212*	Armature Assembly
13	SP213*	Diaphragm Base Kit
14	SP214*	Diaphragm Base
15	SP215*	Diaphragm
16	SP216*	Base O Ring
17	SP217*	Valve Body
	* = Valve	Part Number

iption	II
lut	Model
sher	ADS15F
eplate	ADS20F
oil	ADS25F
sket	ADS35F
nector	ADS33F
Tube	ADS50F
Bonnet	ADSSU
olt	1
t O Ring	]
Assembly	]
m Base Kit	
gm Base	-
hragm	
O Ring	
Body	



В

125

135

140

155

Α

110

120

130

160

160

200

С

162

174

177

D

40

40

40

40

40

G

19

19

н

14

16

16

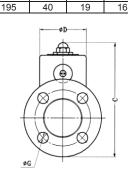
Κg

5.35

7.75

8.00

11.0



Media: air - water - Gas - Light Oil Pressure range: 1 to 100 Bar max Media temperature: -20 °C to +180 °C max Ambient temp: -15°C to +60°C max Media viscosity: 50 centistokes max

Mounting: any position

Opening / Closing time: 50 mSec Max

Weight 660g



## 2/2 Stainless

1/8 - 3/8NORMALLY CLOSED 2 WAY SERVO ASSISTED 1 – 100 Bar TYPE SAPS



	PRESSURE								
Ø	Ø	Flow	Pressure R	ating (Bar) ∆P		Line			
Port BSP	Orifice mm	Kv Ltr/min	Min	Max	Part Number	List Price			
1/8	5	7.2	1	100	SAPS6150 + voltage	£210.46			
1/4	5	7.2	1	100	SAPS8150 + voltage				
3/8	5	7.2	1	100	SAPS10150 + voltage	£225.50			

**OPTIONS** 

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil & IP65 LED Connector PG11 - DIN43650A

**NPT Thread** 

Silver Shading Ring

EPDM, NBR, SILICONE, VST, CR, ECO, HNBR and Hypalon (40 Bar Max)

Included +10%

+£30.06 +10%

**ELECTRICAL DATA Power Consumption** Voltage (-10% + 15%) **Electrical** Coil Insulation class **Enclosure** Continuous duty 60% connections Holding Inrush 3 spades 12 - 24 - 110 - 230 - 380 (50 or 60 Hz) 18.7VA 15.3VA IP65 DIN 43650A WPG2 F 155°C With DIN 40050 18 Watts 12 - 24 (DC) Connector **VDE 0110** 

CONSTRUCTION

Body: 316 Stainless steel (CF8M)

Tube: 304 stainless steel, armature 430F stainless steel

Shading ring: copper

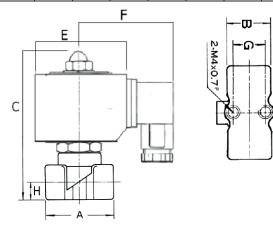
Seals and gaskets: PTFE (Optional EPDM, NBR, SILICONE, VST, CR, ECO, HNBR and Hypalon)

Moulded coil: Resin

REPAIR KIT				
Armature SP + Valve Part Number -ARMATURE				
Coil WPG2 + voltage				
OVERALL DIMENSIONS				



SAPS	Α	В	С	D	Е	F	G	Н
6150	41	19	88	-	58	65	15	10.5
8150	41	19	88	-	58	65	15	10.5
10150	41	19	88	-	58	65	15	10.5



Brass 2/2 N/Closed 0 Rated

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed O Rated

Stainless 2/2 N/Closed Pilot

> 2/2 N/Oper

> > Stean

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas Valves

Pressure Reducing Valves Media: air – water – gas – light oil Pressure range: 0.5 to 15 bar max Media temperature: -40°C to +160°C Max Ambient temperature: -40°C to +60°C Media viscosity: 50 centistokes max Mounting: coil upright

Opening Closing Time: 50 mSec Max

7P W NC

## 2/2 Stainless

3/8 – 2 NORMALLY CLOSED 2 WAY SERVO ASSISTED 0.5 – 15 Bar TYPE SPU225®



					PRESSURE				
Ø	Ø	Flow Kv	Pressure R	tating (Bar) ∆P	Max		Max	_	List
Port BSP	Orifice (mm)	Ltr/ min	Min	Max	Working	Seals	Media Temp. °C	Part Number	Price
3/8	13	40.0	0.5	10	15	NBR FKM EPDM	80 130 160	SPU22503N + voltage SPU22503V + voltage SPU22503E + voltage	£159.38 £152.81 £159.38
1/2	13	40.0	0.5	10	15	NBR FKM EPDM	80 130 160	SPU22504AN + voltage SPU22504AV + voltage SPU22504AE + voltage	£159.38 £152.81 £159.38
3/4	25	165.0	0.5	10	15	NBR FKM EPDM	80 130 160	SPU22506AN + voltage SPU22506AV + voltage SPU22506AE + voltage	£236.52 £229.38 £236.52
1	25	165.0	0.5	10	15	NBR FKM EPDM	80 130 160	SPU22508AN + voltage SPU22508AV + voltage SPU22508AE + voltage	£236.52 £229.38 £236.52
11/4	38	367	0.5	10	15	NBR FKM EPDM	80 130 160	SPU22512AN + voltage SPU22512AV + voltage SPU22512AE + voltage	£330.69 £305.51 £330.68
11/2	38	500	0.5	10	15	NBR FKM EPDM	80 130 160	SPU22514AN + voltage SPU22514AV + voltage SPU22514AE + voltage	£330.69 £305.51 £330.68
2	50	580	0.5	10	15	NBR FKM EPDM	80 130 160	SPU22520AN + voltage SPU22520AV + voltage SPU22520AE + voltage	£507.94 £482.76 £508.06

**OPTIONS** 

IP65 Coil & Connector PG9 – DIN 43650 A

ATEX 22003EX Coil: ATEX EEXMIT4 II 2G & 2D IP65 T130°C

Explosion Proof Enclosure: EExdIICT6 ATEX II 2 G/D IP65 (Custom made) NPT Thread

Normally Closed with Silver Shading Ring (D014DVHA)

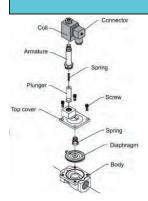
HNBR seals same price as NBR or EPDM seal.

Included +£101.68 +£404.78 +10% +£65.57

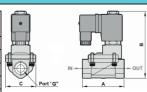
**ELECTRICAL DATA Power Consumption** Voltage (-10% + 10%) **Electrical** Coil Insulation class **Enclosure** Continuous duty 100% connections Holding Inrush 3 spades 12-24-48-110-220- 240-380 (50/60 Hz) 23VA 17VA IP65 DIN 43650 22003 H 180°C with DIN 40050 = 12-24-48-110-220 (DC) 15 Watts connector VDE 0110 CONSTRUCTION

Body: 316 Stainless Steel (CF8M) ATEX Certified Tube and internal parts: 304 + 430F Stainless steel Seals and gaskets: FKM (Optional NBR, EPDM & HNBR)

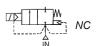
Moulded coil: Duroplast / Thermo set resin							
REPAI	R KIT						
Diaphragm seal	225 + size code (03-20) + material						
Coil	22003 + Voltage						
Complete plunger + O' rings (Normally Closed)	225320VNC + seal material						
OVERALL DIMENSIONS							



Model	SPU225 03 & 4A	SPU225 06A & 08A	SPU225 12A & 14A	SPU225 20A
Port	3/8 + 1/2	3/4 + 1	11/4	2
Α	66.5	96	131.5	160
В	106.5	126	145.5	160
С	48	75	101	118
Kg	0.74Kg	1.565Kg	2.56Kg	3.44Kg



Media: air – water – gas – light oil Pressure range: 0.5 to 15 Bar max Media temp: -40°C to +150°C max Ambient temp: -20°C to +60°C max Media viscosity: 50 centistokes Mounting: coil upright Opening Closing Time: 50 mSec Max



#### 2/2 Stainless

DN10 – DN50 NORMALLY CLOSED 2 WAY SERVO ASSISTED 0.5 – 15 Bar

TYPE SPU225F®



	11/4						-		
					<b>PRESSURE</b>				
Ø	Ø	Flow	Pressure Ra	ating (Bar) ∆P	Max		Max Media		List
Port PN16	Orifice (mm)	Kv Ltr/Min	Min	Max	Working	Seals	Temp.	Part Number	Price
DN10	13	40.0	0.5	10	15	NBR FKM EPDM	80 130 150	SPU22503F4N + voltage SPU22503F4V + voltage SPU22503F4E + voltage	£377.00
DN15	13	40.0	0.5	10	15	NBR FKM EPDM	80 130 150	SPU22504F4N + voltage SPU22504F4V + voltage SPU22504F4E + voltage	2377.00
DN20	25	165	0.5	10	15	NBR FKM EPDM	80 130 150	SPU22506F4N + voltage SPU22506F4V + voltage SPU22506F4E + voltage	£439.15
DN25	25	165	0.5	10	15	NBR FKM EPDM	80 130 150	SPU22508F4N + voltage SPU22508F4V + voltage SPU22508F4E + voltage	2439.15
DN32	40	450	0.5	10	15	NBR FKM EPDM	80 130 150	SPU22512F4N + voltage SPU22512F4V + voltage SPU22512F4E + voltage	£712.31
DN40	40	450	0.5	10	15	NBR FKM EPDM	80 130 150	SPU22514F4N + voltage SPU22514F4V + voltage SPU22514F4E + voltage	£112.31
DN50	50	580	0.5	10	15	NBR FKM EPDM	80 130 150	SPU22520F4N + voltage SPU22520F4V + voltage SPU22520F4E + voltage	£882.22

**OPTIONS** 

IP65 Coil & Connector PG9 - DIN 43650 A

ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C

Explosion Proof Enclosure: EExdIICT6 ATEX II 2 G/D IP65 (Custom made)

Normally Closed with Silver Shading Ring (D014DVHA) Requires 22005 18.5 Watt high power coil ANSI150Lb (F3) & JIS10K (F) or other flange

EL ECTRICAL

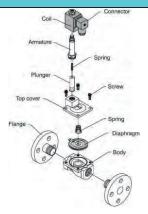
Included +£101.68 +£404.78 +£65.57 +10%

	ELECTRICAL DATA									
	Voltage (-10% + 10%) Continuous duty 100%		Power Cor	nsumption			Electrical connections			
			Inrush	Holding	Insulation class	Enclosure				
~	12-24-48-110-220-240-380 (50/60 Hz)	22003	23VA	17VA	H 180°C	IP 65 with	3 spades DIN 43650			
=	12-24-48-110-220 (DC)	22000	15 Watts		11 130 0	connector	DIN 40050 VDE 0110			
	CONSTRUCTION									

Body& Flanges: 316 Stainless Steel (CF8M) Tube and internal parts: 430F, 304 Stainless steel Seals and gaskets: FKM (Optional EPDM, NBR or HNBR)

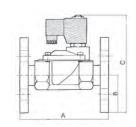
Moulded coil: Duroplast / Thermo set resin

REPAIR KIT								
Diaphragm Seal	225 + orifice code (03-20) + seal material							
Coil	22003 + voltage							
Armature assembly	225320 + seal material							
OVERALL DIMENSIONS								



Model	SPU225 03F	SPU225 04F	SPU225 06F	SPU225 08F	SPU25 12F	SPU225 14F	SPU225 20F
Port	DN10	DN15	DN20	DN25	DN32	DN40	DN50
Α	110	110	149	150	180	180	210
В	45	47.5	50	62.5	67.5	70	77.5
С	137	139.5	152.5	164	173.0	182.5	210
Kg	3.1	3.1	4.13	4.1	5.68	5.66	7.55





2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanical Air Valves

Accessories Fittings, Tubing

> FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors
Vent Suction
Check Valves

Pinch Proportional Sub Base

Coils &

Magnets & Y Filters

Brass 2/2 N/Closed

Brass 2/2 N/Closed Pilot

Brass 2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

Stainless 2/2 N/Closed Pilot

2/2 N/Open

Stear

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas Valves

Pressure Reducing Valves Media: air – water – light oil - steam Pressure range: 0.5 to 120 Bar max Media temperature: +180°C Max Ambient temp: -30°C to +60°C Media viscosity: 50 centistokes max Mounting: coil upright Opening / Closing 200 mSec Max



#### 2/2 Stainless

3/8 – 2 NORMALLY CLOSED 2 WAY SERVO ASSISTED 0.5 – 20, 40, 80 & 120 Bar



TYPE SAS, H, HH & HHH

	PRESSURE											
Ø	Ø	Flow		Pressure Rating (Bar)	∆P		List					
Port BSP	Orifice (mm)	Kv Ltr/ min	Min	Max Steam	Max Air/ Water	Part Number	Price					
3/8	15	75	0.5	12	20	SAS14 + voltage	£787.53					
1/2	15	75	0.5	12	20	SAS15 + voltage	£101.55					
3/4	20	155	0.5	12	20	SAS20 + voltage	£878.27					
1	25	220	0.5	12	20	SAS25 + voltage	£968.39					
11/4	35	433	0.5	12	20	SAS35 + voltage	£1801.57					
11/2	35	433	0.5	12	20	SAS40 + voltage						
2	50	800	0.5	12	20	SAS50 + voltage	£2950.08					
3/8	15	75	0.5	12	40	SASH14 + voltage	£884.50					
1/2	15	75	0.5	12	40	SASH15 + voltage	2004.50					
3/4	20	155	0.5	12	40	SASH20 + voltage	£1075.46					
1	25	220	0.5	12	40	SASH25 + voltage	£1185.77					
11/4	35	433	0.5	12	40	SASH35 + voltage	C000C 00					
11/2	35	433	0.5	12	40	SASH40 + voltage	£2206.02					
2	50	800	0.5	12	40	SASH50 + voltage	£3476.94					
3/8	15	75	0.5	12	80	SAS14HH + voltage	C4467.0E					
1/2	15	75	0.5	12	80	SAS15HH + voltage	£1167.85					
3/8	15	75	0.5	12	120	SAS14HHH + voltage	C4207.07					
1/2	15	75	0.5	12	120	SAS15HHH + voltage	£1327.07					

**OPTIONS** 

IP67 (EN60529:1991+A1:2000) UL & CSA Approved Coil + IP65 LED Connector DIN 43650A ATEX Coil EExmIIT4 II 2G & 2D IP65 T130°C 10 Bar Max (20 Bar is special option 3/8 & 1/2 only) Silver Shading Ring (SASxxxS)

NPT Thread

Other custom made options available upon request

Included +£101.68 +£30.06 +10%

	ELECTRICAL DATA								
	Voltage (-10% + 10%)	Coil	Power Cor	nsumption	Insulation	Enclosure	Electrical		
	Continuous duty 100%	Coll	Inrush	Holding	class	Eliciosure	connections		
Ī	~ 24 - 110 - 230 (50 or 60 Hz)	WPG2	18.7VA	15.3VA	H 180°C	IP 65 With Connector	3 spades DIN 43650		
	= 12 – 24 DC	WFGZ	18 V	Vatts	11 100 C		DIN 40050 VDE0110		
			0.0110						

CONSTRUCTION

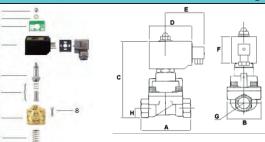
Body: 316 Stainless steel, Tube: 304 Stainless Steel Internal parts: 430F + 303 Stainless steel

Seals and gaskets: PTFE, Moulded coil: Resin

REPAIR KIT

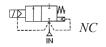
Coil WPG2 + voltage
Piston SP210 + valve part number

OVERALL DIMENSIONS



Model	Α	В	С	D	Е	F	G	Н	Kg
SAS14	67	48	123	67	52	42	3/8	15	1.13
SAS15	67	48	123	67	52	42	1/2	15	1.1
SAS20	96	72	149	67	52	42	3/4	25	1.53
SAS25	96	72	149	67	52	42	1	25	1.85
SAS35	120	90	168	52	45	41	11/4	33	3.3
SAS40	120	90	168	52	45	41	11/2	33	3.25
SAS50	150	122	203	52	45	41	2	40.5	6.8

Media: air, water, steam, oil, fluid, gas Pressure range: 0.3 to 16 bar max\* Media temperature: -15°C to +200°C\* Max Ambient temperature: 0° to +60°C Media viscosity: 50 centistokes max Cycle life: 500,000 cycles Opening / Closing time: 3 - 5 Sec



#### 2/2 Stainless Steel 304

DN50 – DN300 NORMALLY CLOSED 2 WAY SERVO ASSISTED 0.3 – 16\* Bar TYPE BFE-S



Pressure Rating (Bar) ∆P **List Price** Ø Flow **Port** Orifice Seals **Part Number Seals** Seals Min Max **PN16** (mm) **NBR** Viton £1533.40 **DN50** 50 37 0.3 10\* BFE50S + seal + voltage £1632.62 **DN65** 65 85 0.3 10\* BFE65S + seal + voltage £1788.89 £1888.11 **NBR DN80** 0.3 10\* BFE80S + seal + voltage £2128.72 £2227.94 110 (80°C) **DN100** 100 150 0.3 10\* BFE100S + seal + voltage £2847.32 £2973.60 **FKM DN125** 125 0.3 10\* £3665.12 £3815.46 230 BFE125S + seal + voltage (100°C) **DN150** 150 450 0.3 10\* £4825.70 £4976.04 BFE150S + seal + voltage \*FFKM **DN200** 200 580 0.3 10\* BFE200S + seal + voltage £9320.66 £9633.36 (200°C) **DN250** 250 0.3 910 10\* BFE250S + seal + voltage £17026.76 £17339.45 **DN300** 300 10\* £18824.74 £19137.44 1300 0.3 BFE300S + seal + voltage

**OPTIONS** 

IP65 Coil & Connector PG 11 - DIN 43650A

Manual Over ride lever valve

ATEX EExmIIT4 II 2G & 2D IP65 T130°C coil @

\*16 Bar rated solenoid controller with M17 high power coil

Special 200°C steam rated solenoid controller and pipework with M17 coil

Other flanges JIS10K, JIS20K, ANSI150Lb

Other custom FFKM seals for +200C steam, media, seals, pressure and size options available upon request

Included Included +£101.68 +£8.40 £182.01 +10% POA

		ELECTRICAL DATA									
ſ	Voltage (-10% +10%)	Coil	Power Co	nsumption	Insulation	Enclosure	Electrical				
	Continuous Duty 100%	COII	Inrush	Holding	Class	Liiciosure	Connections				
Γ	~ 24 - 110 - 230 (50 or 60 Hz)	M16	70 VA	35 VA	F 155°C		3 spades				
Γ	= 12 - 24	IVITO		26 Watts		IP65	DIN 43650				
	~ 110 – 230 (50 or 60 Hz)	*M17	35VA	26VA	26VA	- with connector	DIN40050				
	= 24		19 Watts		20VA		VDE0110				

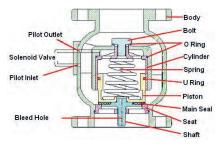
Body & Piston: 304 Stainless Steel (100% Pressure tested to 35 bar)

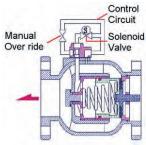
Seat + Shaft: Stainless steel Bolts: Stainless Steel Spring: Stainless steel

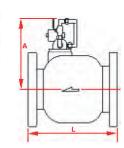
Ports: Flanged PN16 RF Seals and gaskets: NBR (+80°C max), Viton (+100°C max) or FFKM (+200°C max)

Control pipe work circuit + fittings: 304 stainless steel

REPAIR KIT								
Piston U Ring	SP + Valve Part Number + U RING							
External Control pipework	BFES-NC + seal –PIPEWORK + voltage							
OVERALL	DIMENSIONS							







Port	L	Α	Kg
DN50	190	187	12
DN65	210	192	15
DN80	225	210	18
DN100	250	222	24
DN125	280	235	32
DN150	310	260	44
DN200	420	300	87
DN250	470	335	152
DN300	530	370	202

2/2 & 3/2 Coaxial Solenoid Valves

> Electric Actuated Ball Valves

Air Solenoid Valves

Mechanical Air Valves

Accessories Fittings, Tubing

FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors
Vent Suction
Check Valves

Pinch Proportional Sub Base

Timers, Coils & Connectors

Magnets & Y Filters

Brass 2/2 N/Closed O Rated

Brass 2/2 N/Closed Pilot

2/2 N/Open

Brass Stainless 3/2

2/2 N/Closed 0 Rated

Stainless 2/2 N/Closed Pilot

> Stainless 2/2 N/Open

Stean

Plastic 2/2 N/Closed

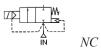
> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas Valves

Pressure Reducing Valves Media: air, water, steam, gas, fluid Pressure range: 0.3 to 16 Bar max\* Media temperature: -15°C to +200°C Max\* Ambient temperature: 0°C to +60°C Media viscosity: 50 centistokes max

Cycle life: 500,000 cycles Opening / Closing time: 3 - 5 Sec



#### 2/2 Stainless Steel 316

DN50 – DN300 NORMALLY CLOSED 2 WAY SERVO ASSISTED 0.3 – 16\* Bar TYPE BFE-SS



	PRESSURE															
ø	Ø	Flow	Pressure Ra	ting (Bar) ∆P			List F	Price								
Port PN16	Orifice (mm)	Cv	Min	Max	Seals	Part Number	Seals NBR	Seals Viton								
DN50	50	37	0.3	10*		BFE50SS + seal + voltage	£1695.76	£1794.98								
DN65	65	85	0.3	10*	NBR (80°C) . FKM (100°C) .	BFE65SS + seal + voltage	£1996.42	£2095.64								
DN80	80	110	0.3	10*		BFE80SS + seal + voltage	£2371.46	£2470.68								
DN100	100	150	0.3	10*		, ,	, ,	, ,	, ,	, ,	, ,	` ,	` ,	BFE100SS + seal + voltage	£3063.80	£3190.08
DN125	125	230	0.3	10*		BFE125SS + seal + voltage	£4152.21	£4302.54								
DN150	150	450	0.3	10*		BFE150SS + seal + voltage	£5475.14	£5625.48								
DN200	200	580	0.3	10*	*FFKM (200°C)	BFE200SS + seal + voltage	£10643.60	£10956.30								
DN250	250	910	0.3	10*		BFE250SS + seal + voltage	£19507.26	£19819.95								
DN300	300	1300	0.3	10*		BFE300SS + seal + voltage	£20532.27	£20844.97								

#### **OPTIONS**

IP65 Coil & Connector PG 11 - DIN 43650A

Manual Over ride lever valve

ATEX EExmIIT4 II 2G & 2D IP65 T130°C coil. (5) \*16 Bar solenoid controller with M17 high power coil

Special 200°C steam rated solenoid controller and pipework with M17 coil

Other custom FFKM seals +200C steam, media, seals, pressure and size options available upon request

Included Included +£101.69 +£8.40 £182.01

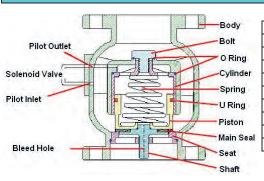
	ELECTRICAL DATA												
	Voltage (-10% +10%)		Power Cor	nsumption	Insulation	Enclosure	Electrical						
	Continuous Duty 100%	Coil	Inrush	Holding	Class	Eliciosure	Connections						
~	24 - 110 - 230 (50 or 60 Hz)	M16	70 VA	35 VA	F 155°C		3 spades						
=	12 – 24	IVITO	26 Watts		F 155 C	IP65 with	DIN 43650						
~	110 – 230 (50 or 60 Hz)	*M17	35VA	26VA	N 200°C	with connector	DIN40050						
=	24	IVI I /	19 V	19 Watts			VDE0110						

CONSTRUCTION
Body & Piston: 316 Stainless Steel (100% Pressure tested to 35 bar)

Seat + Shaft: Stainless steel Bolts: Stainless Steel Spring: Stainless steel Ports: Flanged PN16 RF

Seals and gaskets: Viton +100°C or NBR +80°C Max Control pipe work circuit + fittings: 304 stainless steel

Control pipe work circuit + fittings: 304 stainless steel								
REPAIR KIT								
Piston U Ring	SP + Valve Part Number + U RING							
External Control pipework	BFESS-NC + seal –PIPEWORK + voltage							
OVERALL	DIMENSIONS							



Port	L	Α	Kg	Control
DN50	190	187	12	Manual Solenoid
DN65	210	192	15	Over ride Valve
DN80	225	210	18	
DN100	250	222	24	
DN125	280	235	32	Ana
DN150	310	260	44	
DN200	420	300	87	
DN250	470	335	152	
DN300	530	370	202	

Media: air – water – gas – light oil - vacuum Pressure range: 0 to 10 Bar max Media temperature: 120°C max Ambient temperature: -10°C to +50°C max Media viscosity: 40 centistokes max Mounting: any position

Mounting: any position Weight (including coil) 280 g

Opening or Closing time: 6 - 20 mSec Max



## 2/2 Stainless

1/8 – 1/4 NORMALLY OPEN 2 WAY DIRECT ACTING 0 – 10 Bar



TYPE JAX

	PRESSURE												
Ø	Ø	Flow	Flow Pressure Rati		ng (Bar)		Max						
Port BSPT	Orifice (mm)	Kv Ltr/Min	Min	Max AC	Max DC	Seals	Media Temp °C	Part Number	List Price				
1/8	1.6	0.8	0	10	7	NBR Viton EPDM	50 80 120	JA1BXN + voltage JA1BXV + voltage JA1BXE + voltage					
170	2.4	1.6	0	7	5	NBR Viton EPDM	50 80 120	JA1CXN + voltage JA1CXV + voltage JA1CXE + voltage	£90.61				
1/4	1.6	0.8	0	10	7	NBR Viton EPDM	50 80 120	JA2BXN + voltage JA2BXV + voltage JA2BXE + voltage	290.01				
1/4	2.4	1.6	0	7	5	NBR Viton EPDM	50 80 120	JA2CXN + voltage JA2CXV + voltage JA2CXE + voltage					

**OPTIONS** 

IP65 Coil & Connector PG9 - DIN 43650 A

NPT Thread

Seals: Viton (optional NBR or EPDM)

Included +10%

	ELECTRICAL DATA												
	Voltage (-10% + 15%)	Call	Power Consumption		luculation along	E	Electrical						
	Continuous duty 100%	Coil	Inrush	Holding	Insulation class	Enclosure	connections						
?	24 - 48 - 110 - 230 - 415 (50 <i>or</i> 60 Hz)	31400	48 VA	26 VA	F 155°C	IP 65 with	3 spades DIN 43650						
=	12 - 24 (DC)	31400	14 – 20 Watts		F 195 C	connector	DIN 40050 VDE 0110						

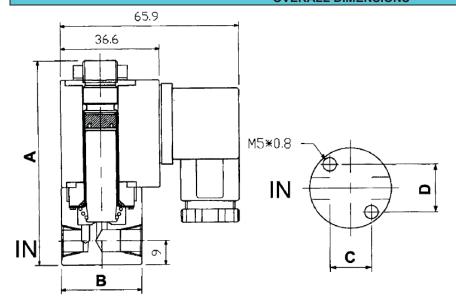
CONSTRUCTION

Body: AlSI303 Stainless steel Tube and internal parts: stainless steel Head & plunger: 430Fr Stainless steel

Seals and gaskets: FPM (Optional EPDM & NBR)

Moulded coil: Resin

REPAIR KIT								
Coil	31400 + voltage							
Armature & Seal	SP + Valve Part Number -ARMATURE							
OVERALL DIMENSIONS								



Port	Α	В	С	D
1/8	89	30	15.2	17.8
1/4	91	35	16	22

2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanica Air Valves

Accessories, Fittings, Tubing

> FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors
Vent Suction
Check Valves

Pinch Proportional Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filters

Stainless N/Open

Media: air – water – light oil – vacuum (10<sup>-</sup>4 Torr)

Pressure range: 0 to 10 Bar max Media temperature: 180°C max Ambient temperature: -10°C to +50°C max

Media viscosity: 50 centistokes max Mounting: any position

Opening Closing: 6-20 mSec Max

TO A

NO

## 2/2 Stainless

1/8 - 1/2" NORMALLY OPEN 2 WAY DIRECT ACTING 0 - 10 Bar





	PRESSURE												
Ø	Ø	Flow		Pressure Rating	(Bar)	Max		Link					
Port BSP	Orifice (mm)	Kv Ltr/min	Min	AC Max	DC Max	Media Temp °C	Part Number	List Price					
	3.0	4	0	10	7		NOS6A + seal + voltage						
1/8	4.0	5.5	0	6	4.2	NBR (+80°C)	NOS6B + seal + voltage						
	5.0	7.2	0	4	2.8	EPDM (+100°C)	NOS6C + seal + voltage	£120.26					
	3.0	4	0	10	7	FKM (+120°C)	NOS8A + seal + voltage	2120.20					
1/4	4.0	5.5	0	6	4.2	, ,	NOS8B + seal + voltage						
	5.0	7.2	0	4	2.8	Silicone (+120°C)	NOS8C + seal + voltage						
2/0	4.0	5.5	0	6	4.2	*PTFE (+180°C)	NOS10A + seal + voltage	C450.24					
3/8	6.0	10.5	0	2	1.4	*VST (+180°C)	NOS10B + seal + voltage	£150.34					
1/2	6.0	10.5	0	2	1.4		NOS12A + seal + voltage	£240.54					

**OPTIONS** 

IP67 (EN60529:1991+A1:2000) UL & CSA Approved Coil & IP65 LED Connector PG11 - DIN 43650 A

NPT Thread

\*PTFE seals 1/4 + 3/8

\*PTFE seals 1/2

\*VST, CR, ECO, HNBR or Hypalon Seals

Silver shading ring (NOSXXX + seal + voltage)

+10% +£60.13 +£75.16

+10% +£51.14

Included

	ELECTRICAL DATA											
	Voltage (-10% + 15%)	Coil	Power Consumption		Insulation	Enclosure	Electrical					
	Continuous duty 100%		Inrush	Holding	class		connections					
~	24 - 110 - 230 (50/60 Hz)	WDCa	18.7VA	15.3VA	H 180°C	IP 65	3 spades DIN 43650					
=	12 - 24 (DC)	WPG2	18 Watts		H 180 C	with connector	DIN 40050 VDE 0110					
	CONSTRUCTION											

Body: Forged 316 stainless steel (CF8M)

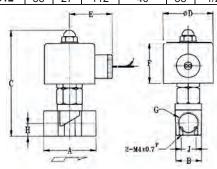
Tube 304 stainless steel, armature 430F stainless steel

Shading ring: copper (Optional silver)

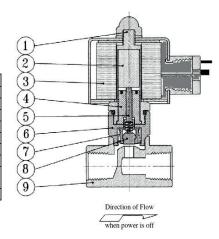
Seals and gaskets: FKM (Optional EPDM - NBR - SILICONE - VST - PTFE)

Moulded coil: Resin	
REPAII	R KIT
Coil	WPG2 + voltage
Armature Assembly	SP + Valve Part Number -ARMATURE
OVERALL DI	MENSIONS

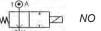
Model	Α	В	С	D/E	F*	G	Н	۲	Kg
NOS8	41	19	108	40	38	1/4	10.5	15	0.5
NOS10	50	25	110	40	38	3/8	11.7	15	8.0
NOS12	55	27	112	40	38	1/2	13	n/a	0.95



Item	Article	Material
1	Solenoid Tube	Stainless
2	Slide Core	Stainless
3	Coil	Brass Wire
4	Armature Core	Stainless
5	Operating Spindle	Stainless
6	Joint Sleeve	Stainless
7	Spring	Stainless
8	Seat	NBR, Silicone,
a	Value Body	EPDM, FKM 316 Stainless
9	Valve Body	3 to Stainless



Media: air - water - light oil - vacuum Pressure range: 0 to 300 Bar max Media temperature: 100°C max Ambient temperature: -10° to +50°C max Media viscosity: 40 centistokes max Mounting: Vertical position coil up Weight (including coil): 500g Opening or closing time: 20 mSec max



#### 2/2 Stainless

1/8 - 1/4NORMALLY OPEN 2 WAYS DIRECT ACTING 0 - 300 Bar TYPE WFH



PRESSURE											
ø	Ø Flow			Press	ure Rating (Bar)		<b>-</b>	List			
Port BSP	Orifice (mm)	Kv Ltr/Min	Coil	Min	Max	Seals	Part Number	Price			
	0.5	0.15	10065	0	300	PTFE NBR EPDM FKM	WF0.5H80 + port + voltage WF0.5H10 + port + voltage WF0.5H30 + port + voltage WF0.5H20 + port + voltage	£715.91			
	0.6	0.20		0	200	NBR FKM	WF0.6H10 + port + voltage WF0.6H20 + port + voltage				
	0.8	0.30		0	130	NBR FKM	WF0.8H10 + port + voltage WF0.8H20 + port + voltage				
	0.9	0.40				0	100	NBR FKM	WF0.9H10 + port + voltage WF0.9H20 + port + voltage	£317.80	
	1	0.50		0	0	70	NBR FKM EPDM	WF1H10 + port + voltage WF1H20 + port + voltage WF1H30 + port + voltage			
1/8 Or	1.2	0.67	21.100	31400	0	50	NBR FKM EPDM	WF1.2H10 + port + voltage WF1.2H20 + port + voltage WF1.2H30 + port + voltage			
1/4	1.5	0.95	31400	0	35	NBR FKM EPDM	WF1.5H10 + port + voltage WF1.5H20 + port + voltage WF1.5H30 + port + voltage				
	2	1.60		0	20	NBR FKM EPDM	WF2H10 + port + voltage WF2H20 + port + voltage WF2H30 + port + voltage	£301.83			
	2.2	1.80		0	15	NBR FKM EPDM	WF2.2H10 + port + voltage WF2.2H20 + port + voltage WF2.2H30 + port + voltage				
	2.5	2.30		0	12	NBR FKM EPDM	WF2.5H10 + port + voltage WF2.5H20 + port + voltage WF2.5H30 + port + voltage				

**OPTIONS** 

IP65 Coil & Connector DIN 43650 A PG9 NPT 1/8 + 1/4 thread

Seals and gaskets in PTFE

Explosion Proof Enclosure ATEX II 2 G/D EexdIICT6, IP65

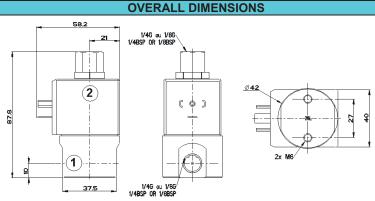
Included
+£36.04
+£36.04
+£429.11

	ELECTRICAL DATA										
Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation	Enclosure	Electrical				
		Coll	Inrush	Holding	class	Eliciosule	connections				
~	24-48-110-230 (50 / 60 Hz)	10065	48 VA	24 VA		3 snade	3 spades				
=	12-24-48	10005	14 W - 20 W		F 155°C	IP 65 with	DIN 43650A				
~	24-48-110-230 (50 / 60 Hz)	31400	37VA	20VA	F 155 C	connector	DIN 40050				
=	12-24-48	31400	14 – 20	Watts			VDE 0110				
	CONSTRUCTION										

Body, tube and internal parts: Stainless Steel Seals and gaskets: NBR-FKM-EPDM

Moulded coil: resin

**REPAIR KIT** Coil 10065 + voltage Complete plunger KIT + valve part number

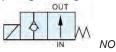


**Stainless** N/Open

Media: air - water - light oil - vacuum Pressure range: 0 to 7 or 12 Bar max Media temperature: -40°C 150°C max Ambient temperature: -40°C to +60°C max Media viscosity: 50 centistokes max

Mounting: coil upright

Opening / Closing Time: 50 mSec Max



# 2/2 Stainless

3/8 - 1**NORMALLY OPEN** 2 WAY ZERO RATED 0 – 7 or 12 Bar



**TYPE NOSPU220** 

PRESSURE													
Ø	ø	Flow	Pressure Rating (Bar)					Max		1.1-4			
Port	Orifice	Kv		DC Coil	AC	Coil	Seals	Media Temp.	Part Number	List Price			
BSP	(mm)	Ltr/ min	Min	18.5 Watt	15 Watt	18.5 Watt		°C		FIICE			
							NBR	80	NOSPU22003 + voltage	£202.05			
3/8	13	35	0		7		FKM	120	NOSPU22003V + voltage	£184.60			
							EPDM	150	NOSPU22003E + voltage	£202.05			
	<b>2</b> 13 3	35	35 0					NBR	80	NOSPU22004A + voltage	£202.05		
1/2				0		7		FKM	120	NOSPU22004AV + voltage	£184.60		
							EPDM	150	NOSPU22004AE + voltage	£202.05			
		72					NBR	80	NOSPU22006A + voltage	£263.16			
3/4	20		72 (	0	0	0	0		7		FKM	120	NOSPU22006AV + voltage
							EPDM	150	NOSPU22006AE + voltage	£263.16			
										NBR	80	NOSPU22003 + voltage +18W	£210.30
3/8	13	35	0	12		12	FKM	120	NOSPU22003V + voltage+18W	£192.85			
							EPDM	150	NOSPU22003E + voltage+18W	£210.30			
							NBR	80	NOSPU22004A + voltage+18W	£210.30			
1/2	13	35	0	12		12	FKM	120	NOSPU22004AV + voltage+18W	£192.85			
							EPDM	150	NOSPU22004AE + voltage+18W	£210.30			
							NBR	80	NOSPU22006A + voltage+18W	£271.41			
3/4	20	72	0	12	[	12	FKM	120	NOSPU22006AV + voltage+18W	£253.97			
							EPDM	150	NOSPU22006AE + voltage+18W	£271.41			

**OPTIONS** 

22003 IP65 CE Approved Coil & Connector PG9 - DIN 43650 A Connector ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (Max  $\Delta$ P 3 Bar) NPT Thread

HNBR seals same price as NBR & EPDM)

Included +£101.68 +10%

NOSPU22008A

96.0

120.5

70.0

1.485

71.0

107.0

58.0

0.945

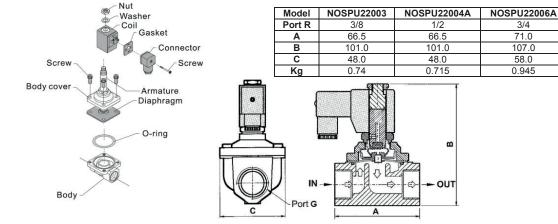
	ELECTRICAL DATA										
	Voltage (-10% + 10%)		Power Consumption		Insulation class	Enclosure	Electrical				
	Continuous duty 100%	Coil	Inrush	Holding	ilisulation class	Eliciosure	connections				
~	24 - 48 - 110 - 240 - 380 (50 or 60 Hz)	22003	23VA	17VA			3 spades				
=	12 - 24 - 48 - 110 (DC)	22003	15 Watts		H 180°C	IP 65 with	DIN 43650A				
~	24 - 48 - 110 - 240 - 380 (50 or 60 Hz)	22005	33VA	24VA	П 100 С	with connector	DIN 40050				
=	12 - 24 - 48 - 110 (DC)	22005	18.5 Watts				VDE 0110				

CONSTRUCTION

Body: 316 Stainless Steel (ATEX certified body ½ & ¾) Tube and internal parts: Stainless steel

Seals and gaskets: FKM (Optional EPDM, NBR & HNBR)

Nass Magnet Moulded coll: DuroPlast / ThermoSet Resin							
REPAIR KIT							
Diaphragm seal	22004 or 22006 + seal material						
Coil	Coil size (22003 or 22005) + voltage						
OVERALL DIMENSIONS							



Media: air – water – light oil – vacuum 10<sup>-3</sup>
Pressure range: 0 to 10 Bar max
Media temperature: +120°C max
Ambient temperature: -5° to +50°C max
Media viscosity: 20 centistokes max
Mounting: coil upright

Opening / Closing 150 mSec Max



## 2/2 Stainless

1/2 – 2" NORMALLY OPEN 2 WAY ASSISTED CLOSE 0 – 10 Bar TYPE SUW-NO



**PRESSURE** Flow Ø Pressure Rating (Bar)  $\Delta P$ Max List **Port** Orifice Seals **Part Number** Κv Max Max Min Working **Price** Water / Oil **BSP** (mm) Air / Gas Ltr/ min SUW15NON + voltage SUW15NOV + voltage £259.27 1/2 15 75 5 10 SUW15NOS + voltage SUW20NON + voltage SUW20NOV + voltage 3/4 7 £287.83 20 143 5 10 SUW20NOS + voltage SUW25NON + voltage SUW25NOV + voltage 1 25 200 0 5 7 10 NBR +80°C £343.39 SUW25NOS + voltage FKM +130°C Silicone +130°C SUW35NON + voltage 11/4 EPDM +130°C SUW35NOV + voltage £552.48 35 400 0 5 7 10 SUW35NOS + voltage SUW40NON + voltage SUW40NOV + voltage 11/2 40 460 0 5 7 10 £572.20 SUW40NOS + voltage SUW50NON + voltage SUW50NOV + voltage 2 800 5 7 10 50 0 £721.41 SUW50NOS + voltage **OPTIONS** 

IP65 Coil & Connector PG9 – DIN 43650 A

NPT, BSPT

Included +10%

	ELECTRICAL DATA											
	Voltage (AC -10% + 10%) (DC -1% + 1%)	Coil	Power Cor	nsumption	Insulation class	Enclosure	Electrical					
	Continuous duty 90%	Con	Inrush	Holding	ilisulation class	Eliciosule	connections					
-	110 – 230 (50 or 60 Hz)		60VA	36VA		IP 65	3 spades DIN 43650					
=	= 24 (DC)	WPC2	29 Watts		H 180°C	with connector	DIN 40050 VDE 0110					

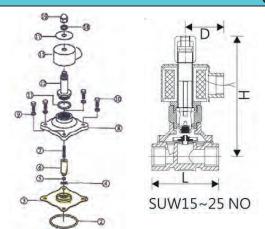
CONSTRUCTION

Body: 316 stainless steel (CF8M) Tube and internal parts: Stainless steel

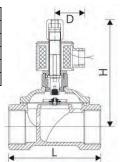
Seals and gaskets: FKM (Optional NBR or Silicone)

Moulded coil: Resin

modiada dem ricem									
REPAIR KIT									
Diaphragm seal	SUW + orifice + seal material								
Coil	WPC2 + voltage								
Armature assembly	SP + Valve Part Number -ARMATURE								
OVERALL DIMENSIONS									



Port G	1/2	3/4	1	11/4	11/2	2
L	70	76	100	123	123	167
Н	126	132	139	140	140	150
D	48	48	48	48	48	48
Width	56.5	78	78	94	94	120
Ka	11	12	1.8	3.2	3.5	5.4



SUW-35~50 NO

2/2 & 3/2 Coaxial Solenoid Valves

> Electric Actuated Ball Valves

Air Solenoid Valves

Mechanica Air Valves

Accessories, Fittings, Tubing

FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors Vent Suction Check Valves

Pinch Proportional Sub Base

Timers,
Coils &
Connector

Magnets & Y Filters

Stainless N/Open

Media: air - water - gas - light oil Pressure range: 0.5 to 15 Bar max Media temperature: -40°C to +160°C Max Ambient temperature: -40°C to +60°C

Media viscosity: 50 centistokes Mounting: coil upright

Opening Closing Time: 50 mSec Max



## 2/2 Stainless

3/8 - 2NORMALLY OPEN 2 WAY SERVO ASSISTED 0.5 - 15 Bar

# TYPE NOSPU225®



	PRESSURE									
Ø	Ø	Flow	Pressure Ratio	ng (Bar) ∆P			Max			
Port BSP	Orifice (mm)	Kv Ltr/ min	Min	Max	Max Working	Seals	Media Temp. °C	Part Number	List Price	
3/8	13	40.0	0.5	10	15	NBR FKM EPDM	80 130 160	NOSPU22503AN + voltage NOSPU22503AV + voltage NOSPU22503AE + voltage	£193.91 £187.34 £193.91	
1/2	13	40.0	0.5	10	15	NBR FKM EPDM	80 130 160	NOSPU22504AN + voltage NOSPU22504AV + voltage NOSPU22504AE + voltage	£193.91 £187.34 £193.91	
3/4	25	165.0	0.5	10	15	NBR FKM EPDM	80 130 160	NOSPU22506AN + voltage NOSPU22506AV + voltage NOSPU22506AE + voltage	£271.05 £263.92 £271.05	
1	25	165.0	0.5	10	15	NBR FKM EPDM	80 130 160	NOSPU22508AN + voltage NOSPU22508AV + voltage NOSPU22508AE + voltage	£271.05 £263.92 £271.05	
11/4	40	450	0.5	10	15	NBR FKM EPDM	80 130 160	NOSPU22512AN + voltage NOSPU22512AV + voltage NOSPU22512AE + voltage	£365.22 £340.04 £365.22	
11/2	40	450	0.5	10	15	NBR FKM EPDM	80 130 160	NOSPU22514AN + voltage NOSPU22514AV + voltage NOSPU22514AE + voltage	£365.22 £340.04 £365.22	
2	50	580	0.5	10	15	NBR FKM EPDM	80 130 160	NOSPU22520AN + voltage NOSPU22520AV + voltage NOSPU22520AE + voltage	£542.48 £517.30 £542.48	

**OPTIONS** 

IP65 Coil & Connector PG9 - DIN 43650 A ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C 🥙

NPT Thread

Normally Open for RO / Pure/ Demin water (use 0543-83.6-00 with 22005 18.5 Watt DC Coil c/w DIN2R rectified connector for AC)

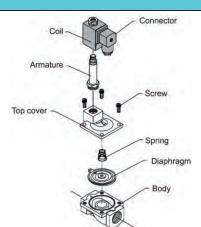
Included +£101.68 +10% +£14.77

	ELECTRICAL DATA								
	Voltage (-10% + 10%) Continuous duty 100%		Power Co	nsumption	Insulation	Enclosure	Electrical connections		
			Inrush	Holding	class				
~	12 - 24 - 48 - 110 - 240 - 380 (50 or 60 Hz)		23VA	17VA	11.400%0	IP 65	3 spades DIN 43650		
=	12 - 24 - 48 (DC)	22003	15 Watts		H 180°C	with connector	DIN 40050 VDE 0110		
	CONSTRUCTION								

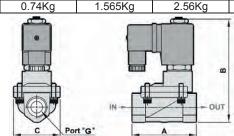
Body: 316 Stainless Steel (CF8M) ATEX Certified body Tube and internal parts: 304 + 430F Stainless steel Seals and gaskets: FKM (Optional NBR & EPDM & HNBR)

Moulded coil: Duronlast / Thermo set resin

Woulded Coll. Duroplast / Thermo set resin					
REPAIR KIT					
Diaphragm seal	225 + port size code (03-20)+ material				
Coil	22003 + Voltage				
Complete plunger + O' rings (Normally Open)	225320VNO				
OVERALL DIN	IENSIONS				



Model NOSPU225 03 & 4A		NOSPU225 06A & 08A	NOSPU225 12A & 14A	NOSPU225 20A
Port	3/8 + 1/2	3/4 + 1	11/4	2
Α	66.5	96	131.5	160
В	106.5	126	145.5	160
С	48	75	101	118
Ka	0.74Ka	1.565Ka	2.56Ka	3 44Ka



Media: air – water – light oil - steam Pressure range: 0 to 10 Bar max Media temperature: +180°C Max Ambient temperature: -30°C to +60°C Media viscosity: 50 centistokes max Mounting: coil upright Opening / Closing 200 mSec Max



2/2 Steam





# TYPE SA610

	PRESSURE									
ø	Ø Orifice (mm)	Flow	Flow	Flow			Pressure Rating (Bar)		List	
Port BSP		Kv Ltr/ min	Coil	Min	Max	Part Number	Price			
1/8	3	5.2	WPG1	0	10	SA6A + voltage	£51.11			
1/4	3	5.2	WPG1	0	10	SA8A + voltage	251.11			
3/8	4	9.7	WPG2	0	10	SA10A + voltage	£90.20			
	OPTIONS									

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil & IP65 LED Connector DIN43650A PG11 NPT Thread

ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C

Coil Armature

WPA3C IP65 (100% Rated H rated IP54 coil with 30cm flying leads 33.6 Watts 57VA +200°C media) SA10A only

Other custom made options available upon request

Included +10% +£101.68 +£10.37

	ELECTRICAL DATA							
	Voltage (-10% + 10%) Continuous duty 90%		Power Cor	nsumption	Insulation	Enclosure	Electrical connections	
			Inrush	Holding	class	Eliciosure		
~	24 - 110 - 230 (50 or 60 Hz) DIN		11.2VA	8.2VA				
=	12 – 24 (DC) DIN	WPG1	12 Watts		H 180°C	IP 65 With	3 spades DIN 43650	
~	24 - 110 - 230 (50 or 60 Hz) DIN		18.7VA	15.3VA	H 160 C	Connector	DIN 40050 VDE0110	
=	12 – 24 (DC) DIN	WPG2	18 Watts				VDEOTIO	

#### CONSTRUCTION

Body: Brass

Tube and internal parts: Stainless steel

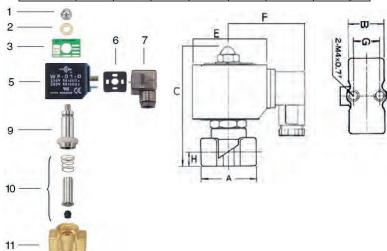
Seals and gaskets: PTFE Moulded coil: Resin

REPAI	K KII
	(WPG1 or WPG2) + voltage
	SP210 + Valve Part Number

#### OVERALL DIMENSIONS

Item	Part No	Description
1	SP201-*	Nut
2	SP202-*	Washer
3	SP203-*	Nameplate
5	SP205-*	Coil
6	SP206-*	Gasket
7	SP207-*	Connector
9	SP209-*	Core Tube
10	SP210-*	Armature Assembly
17	SP211-*	Valve Body
	* = Valve	Part Number

Model	Α	В	C	F	G	Н	Weight
SA6	41	19	86	40	1/8	10.5	470g
SA8	41	19	86	40	1/4	10.5	430g
SA10	50	25	91	45	3/8	11.7	560g



2/2 & 3/2 Coaxial Solenoid Valves

> lectric actuated Ball Valves

Air Solenoid Valves

Mechanica Air Valves

Accessories Fittings, Tubing

FRL's, Filters Regulators Lubricators

> Air Actuated Valves

Arrestors Vent Suction Check Valves

Pinch Proportional Sub Base

Timers,
Coils &
Connector

Magnets & Y Filters 2/2 N/Closed O Rated

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

> Stainiess 2/2 N/Open

> > Steam

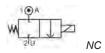
Plastic 2/2 N/Closed

> Plastic Acids/

Latching Bi-Stable

> Gas Valves

Pressure Reducing Valves Media: vacuum - air - water - steam Pressure range: 0 to 10 Bar max Media temperature: -70°C to +180°C Max Ambient temperature: -20°C to +50°C Media viscosity: 50 centistokes max Mounting: upright (+/- 15° from vertical)



## 2/2 Bronze Steam

1/2 – 1"
NORMALLY CLOSED
2 WAY DIRECT ACTING
0 – 10 Bar
TYPE MKS



Pressure Rating (Bar) Flow List **Port** Orifice **Part Number** Max Κv Max Max **Price BSP** Min (mm) Ltr/Min Steam Air / Water Oil 1/2 50 0 10 8 7 MK15SM17 + voltage £150.33 14 7 3/4 19 81 0 10 8 MK20SM17 + voltage £210.46 1 25 103 0 10 8 7 MK25SM17 + voltage £225.50

**OPTIONS** 

IP65 Coil & PG11 DIN43650A Connector

Flanged and other custom made options available upon request

Included

ELECTRICAL DATA							
Voltage (-10% + 10%)		Power Con	sumption	Insulation	Enclosure	Electrical	
Continuous duty 90%	Coil	Inrush	Holding	class	Eliciosure	Connections	
~ 24 - 110 - 230 (50 or 60 Hz)		35VA	26VA		IP65	3 spades DIN43650	
= 24 (DC)	M17	19 Watts		H 180°C	With Connector	DIN40050 VDE0110	

CONSTRUCTION

Body: Bronze BC6

Piston: Stainless steel 303,304, KM31 and Bronze BC6, PTFE

Tube: Stainless steel 304 & KM31

Seals and gaskets: PTFE & Graphite impregnated PTFE

Codio dila gacitote: 1 11 E a Ciapinto improgratica 1 11 E						
REPAIR KIT						
Coil	M17 + Voltage					
Piston Kit	KIT + valve part number					
Armature	SP + Valve Part Number -ARMATURE					

# OVERALL DIMENSIONS Model L

MK15M17S

MK20M17S

MK25M17S

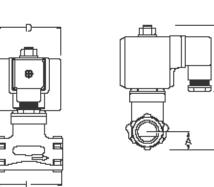
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	NO.	D
	1	Ν
	2	٧
—— <sup>7</sup>	3	C
9	4	Н
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î î î	7	C
(°)>—10	8	C
	9	В
© ————————————————————————————————————	10	Р
12	11	Р
ė	12	Р
13	13	Α
<b>6</b> P	14	Р
	15	Р
16	16	0

9

0

NO.	Description	Material
1	Nut	BSBM
2	Washer	SPC
3	O ring	Viton
4	H Class IP65 c	oil
5	Din Connector	Gasket
6	DIN Connector	
7	O ring	Viton
8	Core Tube	SUS304,KM-31
9	Bolts	SUS304
10	Plate	SPC
11	Packing	TEFLON
12	Plunger spring	SUS304
13	Armature	KM-31
14	Piston	BC 6
15	Piston ring	TEFLON
16	Sleeve pin	SUS303L
17	Valve body	BC 6





С

65

D

60

Port

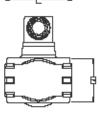
1/2

3/4

Kg

0.95

1.4



Н

120

128

133

63

74

88

Α

17

19

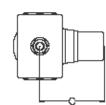
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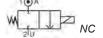
30

33

41



Media: vacuum - air - water - steam Pressure range: 0 to 10 Bar max Media temperature: -10°C to +180°C Max Ambient temperature: -20°C to +50°C Media viscosity: 50 centistokes max Mounting: upright (+/- 15° from vertical) Opening / Closing 200 mSec Max



## 2/2 Bronze Steam

11/4 - 2 NORMALLY CLOSED 2 WAY DIRECT ACTING 0 - 10 Bar



**TYPE MK32-50S** 

	PRESSURE										
Ø	Ø	Flow		Press	ure Rating (bar)∆P			List			
Port BSP	Orifice (mm)	Kv Ltr/ min	Min	Max Steam	Max Air/ Water	Max Oil	Part Number	Price			
11/4	33	217	0	10	8	7	MK32SM20 + voltage	£341.28			
11/2	43	300	0	10	8	7	MK40SM20 + voltage	£384.85			
2	53	383	0	10	8	7	MK50SM20 + voltage	£442.94			

**OPTIONS** 

IP65 Coil & Connector

Flange PN16 or ANSI150Lb

Included **TBA** 

	ELECTRICAL DATA							
Voltage (-10% + 10%) Continuous duty 50% 1 Hour Max		Coil	Power		Insulation	Enclosure	Electrical Connections	
		0011	Inrush	Inrush Holding class				
~	110 - 230 (50 or 60 Hz)	M20	79VA	48VA	H 180°C	IP65 with connector	3 spades DIN43650 DIN40050 VDE0110	

CONSTRUCTION

Body: Bronze BC6

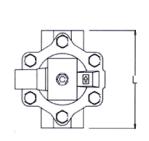
Piston: Stainless steel 303,304, KM31 and Bronze BC6, PTFE

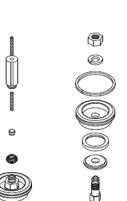
Tube: Stainless steel 304 & KM31

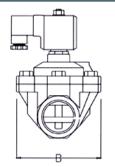
Seals and gaskets: PTFE & Graphite impregnated PTFE

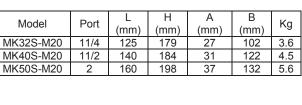
REPAIR KIT						
Coil	M20 + Voltage					
Complete plunger + O' rings	KIT + valve part number					
OVERALL DIMENSIONS						













Steam

Media: air – water – light oil - steam Pressure range: 0.5 to 15 Bar max Media temperature: -40°C to +180°C Max Ambient temperature: -20°C to +60°C Media viscosity: 50 centistokes max Mounting: coil upright Opening / Closing time: 500 mSec Max



#### 2/2 Steam

3/8 to 1 NORMALLY CLOSED 2 WAY SERVO ASSISTED 0.5 - 15 Bar

TYPE PU22503-08S®



	PRESSURE									
Ø	Ø	Flow		Pressure Rating (Bar)	∆P		List			
Port BSP	Orifice (mm)	Kv Ltr/ min	Min	<b>Max</b> Air/ Water	Max Steam	Part Number	Price			
3/8	13	75	0.5	15	10	PU22503S + voltage	£122.53			
1/2	13	75	0.5	15	10	PU22504S + voltage				
3/4	25	200	0.5	15	10	PU22506S + voltage				
1	25	200	0.5	15	10	PU22508S + voltage	£178.94			

IP65 Coil & Connector PG9 - DIN 43650 A

ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C NPT Thread

**OPTIONS** 

Included +£101.68 +10%

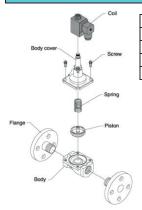
	ELECTRICAL DATA						
Voltage (-10% + 10%)		Nass Power Consumption				Electrical	
	Duty rating 90%		Inrush	Holding	Insulation class	Enclosure	connections
~	12-24-48-110-220-240-380 (50/60 Hz)	22003	23VA	17VA	H 180°C	IP 65 3 spades DIN 43650	
=	= 12-24-48-110-220 (DC)	22003	15 Watts		11 100 C	connector	DIN 40050 VDE 0110

#### CONSTRUCTION

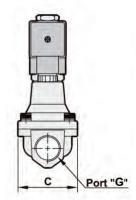
Body: Forged Brass, Tube and internal parts: Stainless steel Seals and gaskets: PTFE, Moulded coil: Duroplast / Thermo set resin

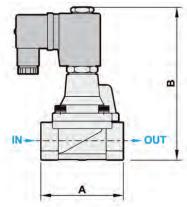
REPAIR KIT					
Coil	22003 + Voltage				
Complete plunger + O' rings	225320VPTFE				
Piston	SP + Valve Part Number -PISTON				

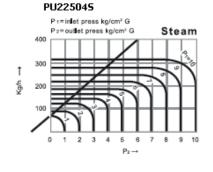
**OVERALL DIMENSIONS** 

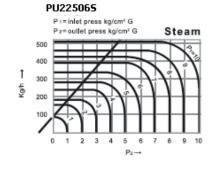


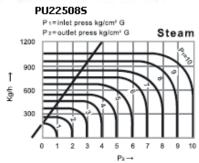
Port	Α	В	C	Kg
3/8	66.5	106.5	48	0.86
1/2	66.5	106.5	48	0.84
3/4	96	126.5	70	1.8
1	96	126.5	70	1.75





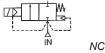






Media: air – water – light oil - steam Pressure range: 0.5 to 15 Bar max Media temperature: -40°C to +180°C Max Ambient temperature: -20° to +60°C Media viscosity: 50 centistokes max

Mounting: coil upright



# 2/2 Steam Flanged

DN10 - DN25 NORMALLY CLOSED 2 WAY SERVO ASSISTED 0.5 - 15 Bar





	PRESSURE										
ø	ø Fid			Pressure Rating (bar)	ΔΡ						
Port PN16	Orifice (mm)	Kv Ltr/ min	Min	Max Gas/Liquid	Max Steam	Part Number	List Price				
DN10	13	75	0.5	15	10	PU22503SF4 + voltage	£231.36				
DN15	13	75	0.5	15	10	PU22504SF4 + voltage	2231.30				
DN20	25	200	0.5	15	10	PU22506SF4 + voltage	e £312.25				
DN25	25	200	0.5	15	10	PU22508SF4 + voltage	2312.25				

**OPTIONS** 

IP65 Coil & Connector PG9 - DIN 43650 A

ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C

Other Flanges ANSI150Lb (F3) or JIS10K (F)

Included +£101.68 +10%

	ELECTRICAL DATA								
Voltage (-10% + 10%)		Nass	Power Co	nsumption	Insulation	Enclosure	Electrical connections		
	Duty rating 90%		Inrush	Holding	class				
~	12-24-48-110-220-240-380 (50/60 Hz)	22003	23VA	17VA	H 180°C	IP 65 with	3 spades DIN 43650		
=	12-24-48-110-220 (DC)	22003	15 Watts		11 100 C	connector	DIN 40050 VDE 0110		

CONSTRUCTION

Body: Brass; Flanges Stainless Steel Tube, internal parts & piston: Stainless steel

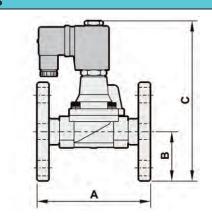
Seals and gaskets: PTFE

Moulded coil: Duroplast / Thermo set resin

Wodided Coll. Daropidst / Thermo set resin							
REPAIR KIT							
Coil	22003 + Voltage						
Complete plunger + O' rings	225320VPTFE						
Piston	SP + Valve Part Number – PISTON						
OVERALL DIMENSIONS							

# Coil Body cover-Spring Flange Body





Model	PU22503SF	PU22504SF	PU22506SF	PU22508SF
Flange	PN16	PN16	PN16	PN16
Α	110	110	150	152.6
В	45	47.5	52.5	57.5
С	151.7	154.2	185.5	186
D	90	95	105	115
Р	16	16	18	18
K	60	65	75	85
Kg	2.13	2.1	2.84	2.66

Brass 2/2 N/Closed 0 Rated

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed

> 2/2 N/Open

> > Steam

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas Valves

Reducing Valves

Media: air – water – light oil - steam Pressure range: 0.5 to 20 Bar max Media temperature: +200°C Max\* Ambient temperature: -40° to +60°C Media viscosity: 50 centistokes max Mounting: coil upright Opening / Closing 200 mSec Max



## 2/2 Steam

3/8 - 2 NORMALLY CLOSED 2 WAY SERVO ASSISTED 0.5 – 20 Bar TYPE SA



**PRESSURE** 

PRESSURE								
Ø	Ø	Flow		Pressure Rating (Bar)	) Max ∆P			
Port BSP	Port Orifice KV		Air/ Water	Part Number	List Price			
3/8	15	75	0.5	12	20	SA14 + voltage	£175.36	
1/2	15	75	0.5	12	20	SA15 + voltage	2110.00	
3/4	20	155	0.5	12	20	SA20 + voltage	£183.40	
1	25	220	0.5	12	20	SA25 + voltage	£198.44	
11/4	35	433	0.5	12	20	SA35 + voltage	£375.84	
11/2	35	433	0.5	12	20	SA40 + voltage	£3/3.04	
2	50	800	0.5	12	20	SA50 + voltage	£634.40	
					TIONO			

**OPTIONS** 

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil & IP65 LED Connector DIN43650A PG11 NPT Thread

ATEX EExmIIT4 II 2G & 2D IP65 T130°C 10 Bar Max (20 Bar is special option)
WPA3C IP65 (100% Rated H rated IP54 coil with 30cm flying leads 33.6 Watts 57VA +200°C media)
Manual Over ride circuit

Stainless Steel Body, High Pressure, Flanged, normally open and other custom made options available upon request

Included +10% +£101.68

+£10.37 +£148.47

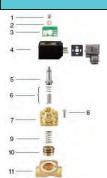
#### LECTRICAL DATA

	ELECTRICAL DATA							
	Voltage (-10% + 10%)	Coil	Power Cons	sumption	Insulation class	Enclosure	Electrical	
	WPG2 duty 90%, WPA3C 100%	Coll	Inrush	Holding	Insulation class	Enclosure	connections	
~	24 - 110 - 230 (50/ 60 Hz) DIN	WPG2	18.7VA	15.3VA	H 180°C	IP 65 with	3 spades DIN 43650	
=	12 – 24 (DC)	WIGZ	18 Watts		11 100 C	connector	DIN 40050 VDE0110	
~	24 - 110 - 230 (50 60 Hz)	WPA3C	AV88	57VA	N 200°C	IP54	30cm lead	
=	12 – 24 (DC)	WFA3C	33.6 Watts		IN 200 C	IF 34	wires	

#### CONSTRUCTION

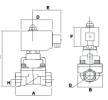
Body: Brass, Tube and Spring: 304 Stainless Armature: 430F Stainless Other internal parts: Stainless steel Seals and gaskets: PTFE, Moulded coil: Resin

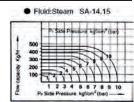
REPAIR KIT						
Coil	Coil type (WPG2 or WPA3C) + voltage					
Piston	SP210 + Valve Part Number					
OVERALL DIMENSIONS						

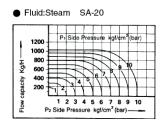


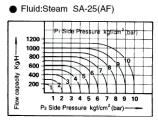
No.	Part Ref	Description
1	SP201-*	Nut
2	SP202-*	Washer
3	SP203-*	Nameplate
4	WPG2	Coil
5	SP205-*	Core Tube
6	SP206-*	Armature
7	SP207-*	Valve Bonnet
8	SP208-*	Screw
9	SP209-*	Spring
10	SP210-*	Piston
11	SP211-*	Valve Body

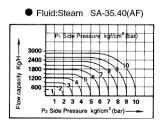
Model	Α	В	С	D	Е	F	G	Н	Kg
SA14	67	48	123	67	52	42	3/8	15	1.13
SA15	67	48	123	67	52	42	1/2	15	1.1
SA20	96	72	149	67	52	42	3/4	25	1.53
SA25	96	72	149	67	52	42	1	25	1.85
SA35	120	90	168	52	45	41	11/4	33	3.3
SA40	120	90	168	52	45	41	11/2	33	3.25
SA50	150	122	203	52	45	41	2	40.5	6.8
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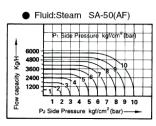












Media: air – water – light oil - steam Pressure range: 0.5 to 20 Bar max Media temperature: +200°C Max Ambient temperature: -30°C to +60°C Media viscosity: 50 centistokes max Mounting: coil upright



NC

# 2/2 Steam Flanged

DN25 – DN50 NORMALLY CLOSED 2 WAY SERVO ASSISTED 0.5 – 20 Bar



TYPE SAF

	PRESSURE										
Ø	Ø	Flow		Pressure Rating (Bar)							
Port PN16	Orifice (mm)	Kv Ltr/ min	Min	Max Steam	Max Air/ Water	Part Number	List Price				
DN25	25	220	0.5	12	20	SA25PF + voltage	£541.20				
DN32	35	433	0.5	12	20	SA35PF + voltage	£895.98				
DN40	35	433	0.5	12	20	SA40PF + voltage	2099.90				
DN50	50	800	0.5	12	20	SA50PF + voltage	£1488.30				

**OPTIONS** 

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil & IP65 LED Connector PG11 ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C 10 Bar Max WPA3C IP65 (100% Rated H rated coil with 30cm flying leads 33.6 Watts 57VA)

ANSI150Lb, JIS10K or other flange

Other custom made options available upon request

Included +£101.68 +£10.37 +10%

ELECTRICAL DATA						
Voltage (-10% + 10%)	Coil	Power Consumption		Insulation	Enclosure	Electrical
WPG duty 90% WPA3C 100%	Coll	Inrush	Holding	class	Eliciosule	connections
= 12 - 24 - 48 - 110 DC DIN	MIDOO	18.7VA	15.3VA	11.40000	IP 65 With connector	3 spades DIN 43650
~ 24 - 110 – 240 - 380 (50/ 60 Hz) DIN	WPG2	18 \	Vatts	H 180°C		DIN 40050 VDE0110
~ 24 - 110 - 230 (50 60 Hz)	WPA3C	88VA 57VA		N 200°C	IP54	30cm lead
= 12 – 24 (DC)	WFA3C	33.6 Watts		IN 200 C	1754	wires

#### CONSTRUCTION

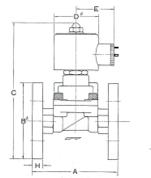
Body: Brass, Tube and internal parts: Stainless steel Seals and gaskets: PTFE, Moulded coil: Resin

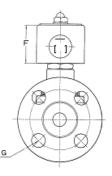
REPAIR KIT						
Coil	WPG2 + voltage					
Piston SP210 + Valve Part Number						
OVERALL DIMENSIONS						



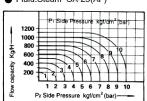
Model	Α	В	С	D	E	F	G	G Hole	Н	Kg
SA25AF	130	125	188	53	47	43	19	4	14	1.8
SA35AF	160	135	205	53	47	43	19	4	16	3.3
SA40AF	160	140	205	53	47	43	19	4	16	3.25
SA50AF	200	155	240	53	47	43	19	4	16	6.8

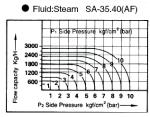


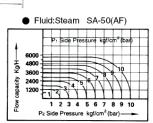




● Fluid:Steam SA-25(AF)







2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanical Air Valves

Accessories Fittings, Tubing

FRL's, Filters Regulators Lubricators

Actuated Valves

Arrestors Vent Suction Check Valves

Pinch Proportional Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filters

Brass 2/2 I/Closed 0 Rated

Brass 2/2 N/Closed Pilot

2/2 N/Oper

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

> 2/2 N/Open

> > Steam

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas Valves

Pressure Reducing Valves Media: air – water – steam – light oil Pressure range: 0.3 to 10 Bar max Media temperature: -10°C to +180°C Max Ambient temperature: -20°C to +50°C Media viscosity: 50 centistokes max Mounting: upright (+/- 15° from vertical) Opening / Closing 200 mSec Max



NC

## 2/2 Bronze Steam

11/4 - 2 NORMALLY CLOSED 2 WAY SERVO ASSISTED 0.3 – 10 Bar

# TYPE MTS



	PRESSURE								
Ø	Ø	Flow		Pressure F	Rating (Bar)∆P			List	
Port BSP	Orifice (mm)	Kv Ltr/ min	Min	Max Steam	Max Air/ Water	Part Number	Price		
11/4	33	367	0.3	10	8	7	MT32SM17 + voltage	£337.65	
11/2	43	500	0.3	10	8	7	MT40SM17 + voltage	£384.85	
2	53	800	0.3	10	8	7	MT32SM17 + voltage	£446.57	

**OPTIONS** 

IP65 Coil & Connector Flange PN16, ANSI150Lb or JIS10K Normally open (+90C Max) Included +50% +10%

	ELECTRICAL DATA							
	Voltage (-10% + 10%)	Coil	Power Co	nsumption	Insulation	Enclosure	Electrical	
	Continuous duty 50% 1 Hour Max		Inrush	Holding	class	Eliciosule	Connections	
~	24 - 110 - 250 (50 01 00 112)		35VA	26VA	N 200°C	IP65 with	3 spades DIN43650	
=	24 (DC) (12vdc with flying lead wires)	M17	21 V	Vatts	N 200 C	connector	DIN40050 VDE0110	
	CONSTRUCTION							

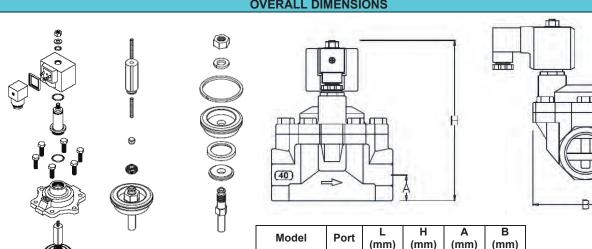
Body: Bronze BC6

Piston: Stainless steel 303,304, KM31 and Bronze BC6, PTFE

Tube: Stainless steel 304 & KM31

Seals and gaskets: PTFE & Graphite impregnated PTFE

cals and gaskets. I TI E & Graphite impregnated I TI E					
REPAIR KIT					
Coil	M17 + Voltage				
Complete plunger + O' rings KIT + valve part number					
OVERALL DIMENSIONS					



11/4

11/2

2

125

140

160

170

178

193

27

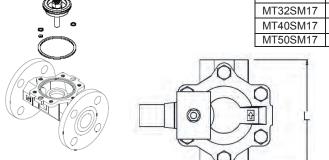
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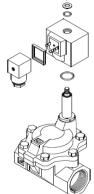
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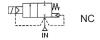
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132





Media: air - water - steam - light oil Pressure range: 0.3 to 10 Bar max Media temperature: -10°C to +180°C Max Ambient temperature: -20°C to +50°C Media viscosity: 50 centistokes max Mounting: upright (+/- 15° from vertical) Opening / Closing 200 mSec Max



#### 2/2 Bronze Steam **DN32 to DN50**

N|ORMALLY CLOSED 2 WAY SERVO ACTING 0.3 - 10 Bar

# TYPE MTFS



PRESSURE									
Ø	Ø	Flow		Pressure Rating (Bar)∆P				List	
Port PN16	Orifice (mm)	Kv Ltr/ min	Min	Max Steam	Max Air/ Water	Max Oil	Part Number	Price	
DN32	33	217	0.3	10	8	7	MT32FSM17 + voltage	£562.24	
DN40	43	300	0.3	10	8	7	MT40FSM17 + voltage	£631.40	
DN50	53	383	0.3	10	8	7	MT32FSM17 + voltage	£715.58	

OPTIONS

IP65 Coil & Connector

Flange ANSI150Lb or JIS10K

Included +10%

	ELECTRICAL DATA								
	Voltage (-10% + 10%)	Coil	Power Cor	nsumption	Insulation class	Enclosure	Electrical		
	Continuous duty 50% 1 Hour Max		Inrush	Holding	insulation class	Eliciosure	Connections		
~	24 - 110 - 230 (50 or 60 Hz)	M17	35VA	26VA	N 200°C	IP65 with	3 spades DIN43650		
=	24 (DC)	IVIT	19 Watts		N 200 C	connector	DIN40050 VDE0110		

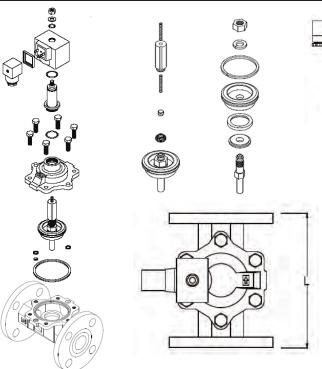
CONSTRUCTION

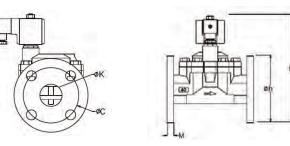
Body: Bronze BC6

Piston: Stainless steel 303,304, KM31 and Bronze BC6, PTFE

Tube: Stainless steel 304 & KM31
Seals and gaskets: PTFE & Graphite impregnated PTFE

ocais and gaskets: I TI E a Graphite impregnated I TI E						
REPAIR KIT						
Coil	M17 + Voltage					
Complete plunger + O' rings	KIT + valve part number					
OVERALL DIMENSIONS						





Model	Port	L (mm)	H (mm)	M (mm)	C (mm)	K (mm)	H (mm)
MT-32FS-M17	DN32	172	211	13	100	35	135
MT-40FS-M17	DN40	180	221	14	105	42	140
MT-50FS-M17	DN50	180	238	14	120	54	135

Brass 2/2 N/Closed 0 Rated

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

> 2/2 N/Open

> > Steam

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas

Pressure Reducing Valves Media: air – water – light oil - steam Pressure range: 1 to 10 Bar max Media temperature: +185°C Max Ambient temperature: -20° to +60°C Media viscosity: 50 centistokes max Mounting: coil upright

Opening / Closing 200 mSec Max

ΓΡ ₩

# 2/2 Steam Flanged

DN65 – DN100 NORMALLY CLOSED SERVO ASSISTED 0.5 – 10 Bar



TYPE USLF

	PRESSURE								
Ø Port PN16	Ø Orifice (mm)	Flow	Pressure Ra						
		Cv m³/hr	Min	Max	Part Number	List Price			
DN65	65	68	1	10	USL65F + voltage	£802.78			
DN80	80	100	1	10	USL80F + voltage	£859.51			
DN100	100	175	1	10	USL100F + voltage	£1000.24			

**OPTIONS** 

IP65 Coil + DIN Connector PG11 DIN43650A (Optional 30cm N Rated IP54 Flying lead coil)

Other flange ANSI150Lb, JIS10K, JIS20K, PN40

Included +10%

ı	ELECTRICAL DATA								
ſ	Voltage (-10% + 10%)	Coil Power (	Power Consumption		Insulation	Enclosure	Electrical		
	Continuous duty 90%		Inrush	Holding	class	Eliciosure	connections		
	~ 24 - 110 - 220 (50 or 60 Hz)	WPC2	40VA	24.4VA	H 180°C	IP65 with	3 spades DIN 43650		
	= 12 - 24 (DC)	WPGZ	18 Watts		1 100 C	connector	DIN 40050 VDE0110		
ı	CONSTRUCTION								

CONSTRUCTION

Body: FC-20 (1 piece casting)

Piston: Bronze

Tube and internal parts: Stainless steel

Seals and gaskets: PTFE Moulded coil: Resin

REPAIR KIT					
Coil	WPC2 + voltage				
Piston	SP + Valve Part Number – PISTON				
OVERALL DIMENSIONS					

240

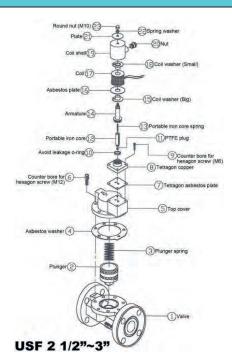
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48

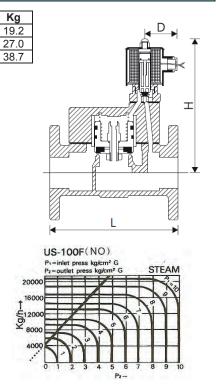
209

Model

USL65F



USL80F	300	228	48	
USL100F	340	244	48	
US-65F(  P1=inlet press P2=outlet pre 8000 4000 1000 1000	NO) s kg/cm² G ss kg/cm² G ss kg/cm² G	S S 6 7 8	TEAM	
US-80F ( N				
P2=outlet press		S	EAM	
15000			ام	
11000		Y	10	
0 1 2 3	4 5	6 7 8	9 10	



Media: steam-air-water-light oil-vacuum Pressure range: 0 to 10 Bar max Media temperature: +185°C Max Ambient temperature: -5° to +60°C Media viscosity: 50 centistokes max Mounting: coil upright advised



### 2/2 Steam Stainless

1/8 - 3/8NORMALLY CLOSED 2 WAY DIRECT ACTING 0 - 10 Bar



TYPE SUS610

Port   Orifice   Kv   Coil   Min   Max   Temp. °C   Part Number   Pri		PRESSURE											
Port   String   Find   Find	Port C		Flow		Pressure R	tating (Bar)	-		List				
1/4 2.5 3.8 HTA1 0 7 PTFE 185C NBR 80C Silicone 130°C SUS8 - 316 + voltage				Coil	Min	Max		Part Number	Price				
1/4         2.5         3.8         HTA1         0         7         NBR 80C Silicone 130°C         SUS8 - 316 + voltage	1/8	2.5	3.8	HTA1	0	7	PTFF 185C	SUS6 - 316 + voltage	£77.62				
FKM 130°C	1/4	2.5	3.8	HTA1	0	7	Silicone 130°C	SUS8 - 316 + voltage	£11.02				
3/8 4 9.7 WPA2 0 10 SUS10 - 316 + voltage £99	3/8	4	9.7	WPA2	0	10	FKM 130°C	SUS10 - 316 + voltage	£99.44				

OPTIONS

IP65 Coil and DIN43650A Connector SUS10 only. HTA1 IP54 flying lead coil (SUS6 + SUS8)

NPT + BSPT threads

EPDM or FKM seals +130°C Max

Included +10%

+10%

rical ctions

						_				
ELECTRICAL DATA										
Voltage AC (-10% + 10%) DC (-1% - +1%)	Coil	Power Co	nsumption	Insulation class	Enclosure	Electri connect				
Continuous duty 90%	Con	Inrush	Holding	- Ilisulation class	Eliciosure					

~ 110 - 220 (50 or 60 Hz) 28VA 15.4VA 2 wire 30cm HTA 1 N 200 °C IP54 flying lead 12 - 24 (DC) 12 Watts 3 spades DIN 43650A 110 - 220 (50 or 60 Hz) 40VA 24.4VA WPA2 H 180 °C IP65 DIN 40050 12 - 24 (DC) 18 Watts VDE0110 CONSTRUCTION

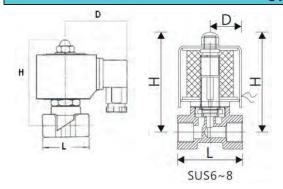
Body: 316 (CF8M) stainless steel Tube and internal parts: Stainless steel

Seals and gaskets: PTFE (Optional FKM, EPDM, NBR and Silicone)

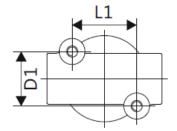
Moulded coil: Resin

Standard coil: H rated special copper wire

Washer: PTFE or NBR						
REPA	AIR KIT					
Coil	Coil size (HTA1 or HTA2) + voltage					
Armature assembly	SP + Valve Part Number -ARMATURE					
OVERALL DIMENSIONS						



Model	L	Н	D	Weight	L1	D1	M
SUS6	41	68	21.5	340g	23	19.3	M4 x0.7
SUS8	41	68	21.5	330g	23	19.3	
SUS10	53	83	48	540a	20	21	M5x0 8



Steam

Media: steam - air - water - gas - light oil Pressure range: 0.5 to 10 Bar max Media temperature: +185°C max Ambient temp: -10°C to +50°C max Media viscosity: 20 centistokes max Mounting: coil upright

Suitable for high frequency applications NO

### 2/2 Stainless Steam

1/2 - 2N/CLOSED + N/OPEN 2 WAY SERVO ASSIST 0.5 - 10 Bar



TYPE SUS

	PRESSURE										
Ø	Ø	Flow	Pressure Ra		1.1-4						
Port BSP	Orifice (mm)	Kv Ltr/min	Min	Max	Part Number	List Price					
1/2	17	67	0.5	10	SUS15 + voltage	£205.06					
3/4	17	100	0.5	10	SUS20 + voltage	£231.50					
1	22	200	0.5	10	SUS25 + voltage	£264.59					
11/4	30	300	1	10	SUS35 + voltage	£486.27					
11/2	30	367	1	10	SUS40 + voltage	£486.27					
2	50	800	1	10	SUS50 + voltage	£756.49					
				OPTIONS							

IP65 Coil & Connector PG9 - DIN 43650 A BSPT + NPT Threads Normally Open (No ATEX option)

ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C 🧐

(Type SKSXX)

Included +10% +£99.90 +£101.68

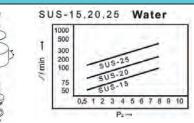
	ELECTRICAL DATA										
	Voltage (-10% + 10%)	Voltage (-10% + 10%) Continuous duty 90%  Coil		Insulation class	Enclosure	Electrical					
	Continuous duty 90%		Inrush	Holding			connections				
~	24 - 110 - 230 – 380 (50 or 60 Hz)	WDCOD	40VA	24.4VA	H 180°C	IP65	3 spades DIN43650A				
=	12 - 24 (DC)	WPC2D	18 V	Vatts	T 180 C	with Connector	DIN40050 VDE0110				

#### CONSTRUCTION

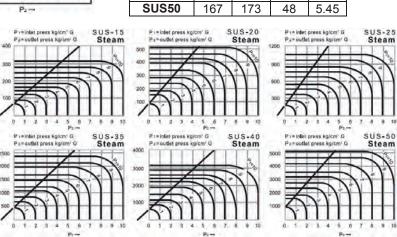
Body: Forged 316 stainless steel (CF8M) Tube 304 stainless steel, armature 430F stainless steel Shading ring: copper

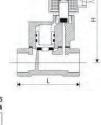
Seals and gaskets: PTFE

Moulded Coll. Resilf					
REPA	AIR KIT				
Coil	WPC2D + voltage				
Armature	SP + Valve Part Number -ARMATURE				
Piston	SP + Valve Part Number -PISTON				
OVERALL DIMENSIONS					



Model	L	Н	D	Kg
SUS15	84	115	48	1.38
SUS20	84	120	48	1.43
SUS25	98	132	48	1.88
SUS35	123	142	48	2.62
SUS40	123	146	48	2.72
SUS50	167	173	48	5.45





Media: air – water – light oil - steam Pressure range: 0.5 to 20 Bar max Media temperature: +180°C Max Ambient temperature: -20° to +60°C Media viscosity: 50 centistokes max Mounting: coil upright Opening / Closing 200 mSec Max



## 2/2 Steam

1/8 – 2 NORMALLY OPEN 2 WAY DIRECT/ SERVO 0 – 20 Bar TYPE NOSA



Flow Pressure Rating (Bar) AP List Orifice **Part Number Port** Coil Κv **Price** Min **BSP** (mm) Ltr/ min Steam Air/ Water 1/8 0 10 10 NOSA6A + voltage WPG1 £99.22 3 5.2 0 10 10 1/4 NOSA8A + voltage 4 9.7 0 10 10 NOSA10A + voltage £108.24 3/8 12 20 0.5 NOSA14 + voltage 15 75 £285.64 1/2 0.5 12 20 NOSA15 + voltage 3/4 20 £297.66 20 155 0.5 12 NOSA20 + voltage WPG2 1 25 220 0.5 12 20 NOSA25 + voltage £306.68 11/4 35 433 0.5 12 20 NOSA35 + voltage £466.04 11/2 35 433 0.5 12 20 NOSA40 + voltage 2 50 800 0.5 20 NOSA50 + voltage £724.60

**OPTIONS** 

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil & IP65 LED Connector PG11 DIN43650A NPT Thread

+10% +£10.37

WPA3C IP65 (100% Rated N rated coil with 30cm flying leads 33.6 Watts 57VA)

Other custom made options available upon request

	ELECTRICAL DATA									
	Voltage (-10% + 10%) Continuous duty 90%		Power Co	nsumption	Insulation class	Enclosure	Electrical			
			Inrush	Holding	ilisulation class	Eliciosule	connections			
~	24 - 110 - 230 (50 or 60 Hz)	WPG1	11.2VA	8.2VA						
=	12 – 24 - 48 (DC)	WFGT	12 Watts			IP 65	3 spades DIN 43650			
=	12 - 24 – 48 (DC)		18.7VA	15.3VA	H 180°C	With Connector	DIN 40050			
~	24 - 110 - 230 (50 or 60 Hz)	WPG2 18 W		Vatts		Connector	VDE0110			

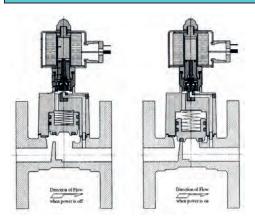
CONSTRUCTION

Body: Brass

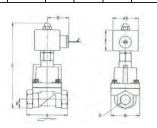
Tube and internal parts: Stainless steel

Seals and gaskets: PTFE Moulded coil: Resin

REPA	REPAIR KIT						
Coil	Coil size (WPG1 or WPG2) + voltage						
Piston	SP + Valve Part Number -PISTON						
Armature assembly	SP + Valve Part Number -ARMATURE						
OVERALL DIMENSIONS							



Model	Α	В	С	D	Е	F	G	Н	Kg
NOSA6	41	19	86	41	40	-	1/8	10.5	0.35
NOSA8	41	19	86	41	40	-	1/4	10.5	0.4
NOSA10	50	25	91	52	45	-	3/8	11.7	0.5
NOSA14	75	52	158	40	65	38	3/8	15	1.65
NOSA15	75	52	158	40	65	38	1/2	15	1.63
NOSA20	85	60	165	40	65	38	3/4	18	2.13
NOSA25	100	70	172	40	65	38	1	23	2.35
NOSA35	120	90	192	40	65	38	11/4	33	3.85
NOSA40	120	90	192	40	65	38	11/2	33	3.3
NOSA50	150	120	216	40	65	38	2	40.5	7.35



2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanica Air Valves

Accessories Fittings, Tubing

FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors Vent Suction Check Valves

Pinch Proportiona Sub Base

Coils & Connectors

Magnets & Y Filters

Brass 2/2 N/Closed Pilot

2/2 N/Oper 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

> stainiess 2/2 N/Open

Stear

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

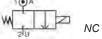
> EN161 Gas

Pressure Reducing Valves Media: air – water – gas – liquid - vacuum

Pressure range: 0 to 8 Bar max Media temperature: 100°C max

Ambient temperature: -10°C to +40°C max Media viscosity: 40 centistokes max Mounting: any position (M5 tapped body) Weight (including coil) 100 g

Opening / Closing time 6 – 20 mSec Max



## 2/2 Polypropylene

1/4 NORMALLY CLOSED 2 WAY DIRECT 0 – 8 Bar

TYPE GC2



	PRESSURE											
Ø	Ø	Flow	Pi	Pressure Rating (Bar) ∆P								
Port BSP	Orifice (mm)	Kv Ltr/Min	Min	Max AC	Max DC	Seals	Part Number	List Price				
1/4	2.5	3.5	0	8.1	6.8	EPDM	GC2 + voltage	£17.89				

**OPTIONS** 

IP54 Coil flying lead (30cm) BSPT or NPT Thread

Buna-N or Viton

Other custom made options and voltages available upon request

Included +10% POA

	ELECTRICAL DATA										
Voltage (-10% + 10%)		Coil Power Consumption		Insulation		Electrical					
	Continuous duty 100%		Inrush	Holding	class	Enclosure	connections				
~	12 - 24 - 110 - 230 (50 <i>or</i> 60 Hz)	GC	11.2 VA	6.8 VA	B 130°C	IP54	30 cm lead				
=	12 - 24 (DC)	GC	6 W		B 130 C	1754	wires				

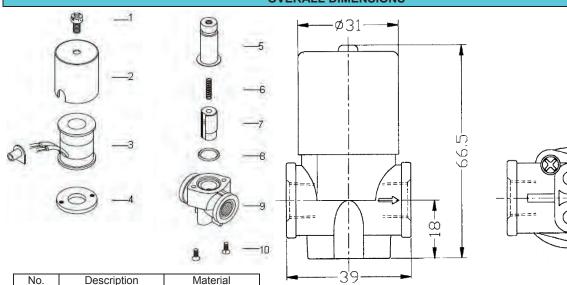
#### CONSTRUCTION

Body: Polypropylene - glass filled

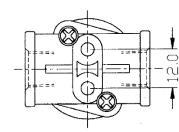
Tube and internal parts: head & plunger 430Fr Stainless steel

Seals and gaskets: EPDM

Geals and gaskets. Et Divi								
REPAIR KIT								
Coil	GC + voltage							
Complete plunger + O' rings	SP + Valve Part Number -ARMATURE							
OVERALL DIMENSIONS								



No.	Description	Material	
1.	Coil fixing screw	SWRM	
2.	Coil cover	SPC	
3.	Solenoid Coil	B Class	
4.	Retainer	SPC	
5.	Core Tube	SUS304 KM-31	
6.	Armature Spring	SUS 304	
7.	Armature	430F	
8.	O Ring	EPDM	
9.	Valve Body	Nylon 66	
10.	Retaining Bolt	SUS 304	



Media: air – water – slight acid/alkali – vacuum Torr10

Pressure range: 0 to 7 Bar max Media temperature: 60°C max

Ambient temperature: +4°C to +50°C max

Media viscosity: 50 centistokes max

Mounting: coil upright



## 2/2 Nylon

1/2 - 1 NORMALLY CLOSED 2 WAY ASSISTED LIFT 0-7 Bar



TYPE PK

	PRESSURE										
Ø	Ø	Flow		Pressure Rating (B	ar) ∆P						
Port BSP	Orifice (mm)	Kv Ltr/ min	Min	DC Max 18.5 Watt 22005 Coil	AC Max 15 Watt 22003 Coil	Seals	Part Number	List Price			
	18	67	0		7	NBR FKM EPDM	PK15NS + voltage PK15VS + voltage PK15ES + voltage	£102.41			
1/2		67		4		NBR FKM EPDM	PK15N-5 + voltage PK15V-5 + voltage PK15E-5 + voltage	£102.41			
3/4	28	163	0		7	NBR FKM EPDM	PK20NS + voltage PK20VS + voltage PK20ES + voltage				
3/4			163		3		NBR FKM EPDM	PK20N-5 + voltage PK20V-5 + voltage PK20E-5 + voltage	£136.47		
1	28	28	402	0		7	NBR FKM EPDM	PK25NS + voltage PK25VS + voltage PK25ES + voltage	£136.47		
			183		3		NBR FKM EPDM	PK25N-5 + voltage PK25V-5 + voltage PK25E-5 + voltage			
					PIONS						

IP65 Coil & Connector PG9 - DIN 43650 A

Silver Shading Ring for AC voltages (Not suitable for Atex EExmIIT4 coil)

ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (AC 2 Bar DC 1 Bar) (5) (No Shading Ring) NPT Thread

Included Included +£101.68 +10%

	ELECTRICAL DATA									
Voltage (-10% + 10%) Continuous duty 100%		Coil	<b>Power Consumption</b>		Insulation class	Fralagore	Electrical			
		Coll	Inrush	Holding	Insulation class	Enclosure	connections			
~	12 - 24 - 48 - 110 - 230 - 380 (50/60 Hz)	22003	23VA	17VA			3 spades			
=	12 - 24 - 48 - 110 (DC)	22003	15 Watts		H 190°C	IP 65	DIN 43650			
~	24 - 48 - 110 - 230 (50/60 Hz)	22005	33VA	24VA	H 180°C	with connector	DIN 40050			
=	12 - 24 - 48 – 110 - 220 (DC)	22005	18.5 Watts				VDE 0110			
	CONSTRUCTION									

Body: Nylon

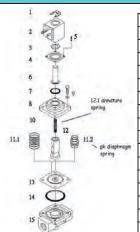
Tube and internal parts: Stainless steel

Seals and gaskets: NBR (Optional EPDM or FKM)

Moulded coil: Resin

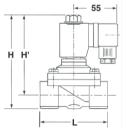
Shading Ring: Silver for AC voltages only (No shading ring required for DC voltages)

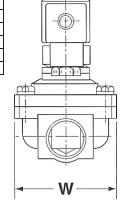
Chading Ming. Cliver for AC voltages only (No shading hing required for BC voltages)								
REPAIR KIT								
Diaphragm seal Valve part number + seal material								
Coil	22003 or 22005 + voltage							
Complete Armature assembly	SP + Valve Part Number -ARMATURE							
OVERALL DIMENSIONS								



Description					
Coil Clip					
Coil					
Wave Washer					
Flange					
Screw					
Core Tube					
Cover O Ring					
Bonnet					
Bonnet Screw					
Armature Spring					
Diaphragm Spring for PD					
Diaphragm Spring for PK					
Armature					
Diaphragm					
Body O Ring					
Valve Body					

Model	PK15	PK20	PK25		
Port	1/2	3/4	1		
L	71	9	0		
Н	114	12	24		
H1	98	10	)4		
W	56	7	6		
Kg	0.5	0.7	0.6		





Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed

2/2 N/Oper

Stear

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> Gas Valves

Pressure Reducing Valves Media: water

Pressure range: 0.2 to 10 Bar max Media temperature: 90°C max Ambient temperature: +40°C max Mounting: any position

Weight (including coil): 155 g Opening / Closing Time: 25 mSec Max



### 2/2 NYLON

1/4 – 3/4 WRAS APPROVED NORMALLY CLOSED 2 WAY SERVO ASSISTED 0.2 – 10 Bar

### TYPE 115BC



PRESSURE										
Ø	Ø	Flow	Pressure Ra	ting (bar) ∆P			List			
Port BSP	Orifice (mm)	Kv Ltr/ min	Min	Мах	Picture	Part Number	Price			
1/4 Male	11.0	19.5	0.2	10		3115BC + voltage				
1/4 Female	11.0	19.5	0.2	10	5	3105BC + voltage				
3/8 Male	11.0	27.5	0.2	10		4115BC + voltage				
3/8 Female	11.0	27.5	0.2	10	S	4105BC + voltage	£25.05			
1/2 Male	11.0	28.3	0.2	10		5115BC + voltage				
1/2 Female	11.0	28.3	0.2	10		5105BC + voltage				
3/4 Male	11.0	28.3	0.2	10		6115BC + voltage				
6mm Push Fit	11.0	19.5	0.2	10		1136BC + voltage				
8mm Push Fit	11.0	19.5	0.2	10		1145BC + voltage				
10mm Push Fit	11.0	27.5	0.2	10		1156BC + voltage	£29.55			
15mm Push Fit	11.0	28.3	0.2	10		1175BC + voltage	£29.55			
1/4 Push Fit	11.0	19.5	0.2	10	F	1186BC + voltage				
3/8 Push Fit	11.0	27.5	0.2	10	-	1196BC + voltage				

**OPTIONS** 

IPX0 coil & Anti Water Hammer 30 cm Flying Lead wire coil

P024000001 – 24vDC PWM pulse width modulating circuit board, 50% heat & 60% power reduction for 100% duty cycle

+10% £58.14

	ELECTRICAL DATA										
Voltage (-10% + 15%) Media under 60°C 100% 60°C+ (60% Duty 2 min ON - 3 min OFF)		Coil	Power Consumption		Insulation class	Enclosure	Electrical				
		Coll	Inrush	Holding	insulation class	Eliciosure	connections				
~	12 - 24 - 110 - 230	COIL-R	11VA	8 VA							
=	12 - 24	COIL-R	6.2 Watts		Insulation Class II Windings Class F	IPX 0	Faston Tags				
=	12 - 24	COIL-R-LP	3.6 Watts		William go Glaco I						

#### CONSTRUCTION

Body: White glass filled food grade nylon or Black glass filled nylon non-food grade Tube and internal parts: stainless steel, Seals and gaskets: NBR, Moulded coil: resin

#### **REPAIR KIT**

Coil COIL-R + voltage

APPROVALS

Complies with EN55014 ED. 1993, EN60730-2-8-1 Ed. 1995, WRc approved materials throughout as per cert. 7067

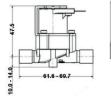
#### **OVERALL DIMENSIONS**

P024000001 PWM Board











Media: water

Pressure range: 0.2 to 10 Bar max Media temperature: +75°C max Ambient temp: +5°C to +50°C max

Mounting: any position

Opening / Closing time: 50 mSec Max

Weight: 80g / 120g





3/4 – 10/13mm NORMALLY CLOSED SERVO ASSISTED 0.2 – 10 Bar

## **TYPE SDT180/90**



	PRESSURE									
Ø	Outlet Hose Barb mm	Orifice	Pressure Ra	ating (Bar) ∆P						
Inlet Port		(mm) KV=21 Ltr / Min	Min	Max	Port Config	Part Number	List Price			
	Single 10mm		0.2	10	180°	S18 + voltage + 10BH				
	Single 13mm		0.2	10	180°	S18 + voltage + 12BH	£13.26			
	Single 10mm		0.2	10	90°	S90 + voltage + 10BH	£13.26			
	Single 13mm		0.2	10	90°	S90 + voltage + 12BH				
3/4 BSP	Double 10mm	11	0.2	10	180°	D18 + voltage + 10BH				
Male	Double 13mm	] ''	0.2	10	180°	D18 + voltage + 12BH	£24.59			
	Double 10mm		0.2	10	90°	D90 + voltage + 10BH	224.55			
	Double 13mm	]	0.2	10	90°	D90 + voltage + 12BH				
	Triple 10mm		0.2	10	180°	T18 + voltage + 10BH	£37.65			
	Triple 10mm		0.2	10	90°	T90 + voltage + 10BH	237.05			

**OPTIONS** 

IPX0 coil faston tags (Optional Flying lead wire)

Plastic Inlet filter

Mounting bracket (Adjustable horizontal or vertical) Flow regulator (0.25mm to 5mm in 0.25 increments)

Included Included Included +£0.58

	ELECTRICAL DATA									
Voltage (-10% + 15%)		Coil	Power Consumption		Insulation	Enclosure	Electrical			
1	Duty 2 min ON max - 3 min ÓFF min		Inrush	Holding	class	Eliciosure	connections			
~	12 - 24 - 110 - 230 (50 or 60 Hz)	- Coil-R	7.2 - 13.2VA	4.4 - 8VA	F 155°C	IPX0	Faston Tags			
=	12 - 24 (DC)	Coll-R	5.4 – 8.5 Watts		7 133 0	IFAU	rasion rays			
	CONSTRUCTION									

Body: White glass filled nylon

Tube: 304 stainless steel, armature 430F stainless steel

Shading ring: copper Seals and gaskets: Buna Moulded coil: Resin

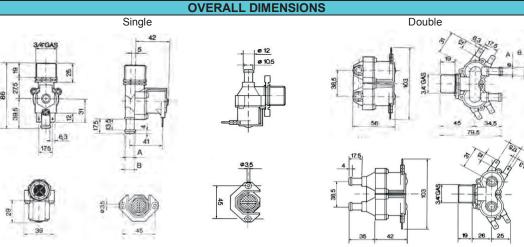
VDE (Germany) KEMA (Netherlands) DEMKO (Denmark) SETI (Finland) SEV (Switzerland) **APPROVALS** 

NEMKO (Norway) SEMKO (Sweden) BEAB (UK) OVE (Austria)

UL (USA Approval No MH13778 (N), category YOIZ2)

REPAIR KIT

Coil (faston Tags) COIL-R + voltage



2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanica Air Valves

Accessories Fittings, Tubing

> FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors
Vent Suction
Check Valves

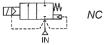
Pinch Proportional Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filters

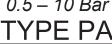
**Plastic** 212 N/Closed

Media: slight acid - alkali - air - water Pressure range: 0.5 to 10 Bar max Media temperature: +5 °C to 100 °C Ambient temperature: +5°C to +60°C Media viscosity: 50 centistokes max Mounting: coil upright



### 2/2 Delrin

3/8 - 11/2NORMALLY CLOSED 2 WAY SERVO ASSISTED 0.5 - 10 Bar





	PRESSURE										
Ø	Ø	Flow	Pressure R	ating (Bar) ∆P		Max Media		List			
Port BSP	Orifice (mm)	Kv Ltr/Min	Min	Max	Seals	Temp. °C	Part Number	Price			
					FKM	80	PA14V + voltage	£114.26			
3/8	15	70	0.5	10	EPDM	80	PA14E + voltage	£90.20			
					NBR	40	PA14N + voltage	£90.20			
					FKM	80	PA15V + voltage	£114.26			
1/2	15	70	0.5	10	EPDM	80	PA15E + voltage	£90.20			
					NBR	40	PA15N + voltage	£90.20			
					FKM	80	PA20V + voltage	£135.30			
3/4	20	95	0.5	10	EPDM	80	PA20E + voltage	£120.26			
					NBR	40	PA20N + voltage	£120.26			
					FKM	80	PA25V + voltage	£135.30			
1	25	175	0.5	10	EPDM	80	PA25E + voltage	£120.26			
					NBR	40	PA25N + voltage	£120.26			
					FKM	80	PA35V + voltage	£237.52			
11/4	35	390	0.5	10	EPDM	80	PA35E + voltage	£222.50			
					NBR	40	PA35N + voltage	£222.50			
					FKM	80	PA40V + voltage	£237.52			
11/2	35	410	0.5	10	EPDM	80	PA40E + voltage	£222.50			
					NBR	40	PA40N + voltage	£222.50			

**OPTIONS** IP67 (EN60529:1991+A1:2000) UL + CSA Approved coil & IP65 LED Connector PG11 - DIN 43650 A ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (No shading ring)

Silver Shading Ring (PAxxxS)

\* VST, CR, ECO, HNBR or Hypalon Seals

Other custom made options available upon request

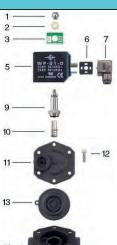
Included +£101.68 +£30.06 +10%

	ELECTRICAL DATA								
Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Co	nsumption	Insulation class	Enclosure	Electrical connections		
		Com	Inrush	Holding	- ilisulation class	Eliciosure			
~	24 - 110 - 220 - 380 (50 or 60 Hz)	WPG1	11.2VA	8.2VA	H 180°C	IP65 with	3 spades DIN 43650		
= 12 - 24 (DC)		WPG1	12 Watts		H 100 C	connector	DIN 40050 VDE 0110		
	CONSTRUCTION								

Body: Poly-acetate

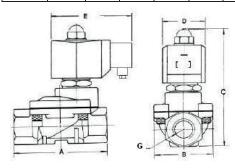
Tube and internal parts: Stainless steel

Moulded Coll: Resin					
REPAIR KIT					
Coil	WPG1 + voltage				
Diaphragm	SP213 + valve part number				
OVERALL DIMENSIONS					



No	Reference	Description
1	SP201-*	Nut
2.	SP202-*	Washer
3.	SP203-*	Name Plate
5.	WPG1	Coil
6	SP206-*	Gasket
7.	SP207-*	Connector
9.	SP209-*	Core Tube
10.	SP210-*	Armature
11.	SP211-*	Valve Bonnet
12.	SP212-*	Bolts
13.	SP213-*	Diaphragm
14.	SP214-*	Valve Body

Model	Α	В	С	D	Е	F	Kg
PA14	73.5	48	105	35	55	3/8	0.32
PA15	73.5	48	105	35	55	1/2	0.32
PA20	104	90	124	35	55	3/4	0.65
PA25	104	90	124	35	55	1	0.6
PA35	132	120	145	35	55	11/4	0.85
PA40	132	120	145	35	55	11/2	0.8



Media: water

Pressure range: 0.65 to 10 Bar max Media temperature: +60° C max Ambient temperature: 0° to +60° C Media viscosity: 22 centistokes max Mounting: any position



## 2/2 Irrigation Valve

1", 2" & 3" BSP N/CLOSED & LATCHING 2 WAY SERVO ASSISTED 0.65 to 10 Bar

TYPE PN225A



**PRESSURE** Flow Rate Pressure Rating (bar) 0 **Options** List Orifice **Port Seals Function Part Number** Included Κv USG Min Max **Price BSP** (mm)  ${\rm M}^3\,{\rm Hr}$ Min diff diff Normally Manual PN22508A + voltage £27.67 Closed Override 1 25 7.7 35 0.65 10 **NBR** Flow Latching PN22508AL-6-40vDC £30.97 Controller Normally PN22514A + voltage £88.67 Manual Closed **NBR** 11/2 40 25 110 0.65 10 Override £91.97 PN22514AL-6-40vDC Latching Normally PN22520A + voltage £106.40 Manual Closed **NBR** 2 50 40 180 0.65 10 Override Latching PN22520AL-6-40vDC £109.70 Normally PN22528A + voltage £177.33 Closed 3 80 90 400 0.65 10 **NBR** Latching PN22528AL-6-40vDC £180.63

**OPTIONS** 

IP66 weather proof coil with flying lead wire

Included + 10%

**ELECTRICAL DATA** Voltage (-10% + 10%) Coil Insulation Electrical Power **Enclosure** Continuous duty 100% Size connections class 24 - 230 (50 or 60 Hz) 12.5VA 2W Flying lead 12 - 24 (DC) 12.5 Watts IP 66 F 155°C wire 6 to 40vDC (Reg 4700µf capacitor) 2WL 2.2 Watts 6Ω Pulse 20 - 100msec

CONSTRUCTION

Body: Glass Reinforced UV resistant PA66

Tube, internal parts and bolts : Stainless steel

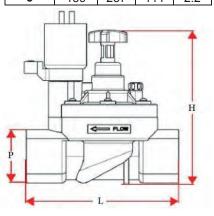
Seals and gaskets : NBR Moulded coil : Resin

REPAIR KI	Т				
Diaphragm Seal	225N + port + seal material				
Coil	2W + voltage				
OVERALL DIMENSIONS					





Port	Н	L	Р	Kg
1	133	119	44	0.6
11/2	104	190	61	1.35
2	104	200	75	1.8
3	159	257	111	22



2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

> Mechanical Air Valves

Accessories Fittings, Tubing

> FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors Vent Suction Check Valves

Pinch Proportional Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filters

**Plastic** 212 N/Closed

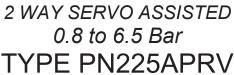
Media: water

Pressure range: 0.65 to 10 bar max Adjustable range: 0.8 to 6.5 Bar Media temperature: +60° C max Ambient temperature: 0° to +60° C Media viscosity: 22 centistokes max Mounting: any position



## 2/2 Irrigation Valve 11/2"to 4"

Solenoid & PRV 2 WAY SERVO ASSISTED 0.8 to 6.5 Bar





	PRESSURE									
Ø	Ø	Flow	Rate	Pressure Ra	ting (Bar) ∆P			List		
Port BSP	Orifice (mm)	Kv M³ Hr	USG Min	Min	Max	Function	Part Number	Price		
11/2	40	25	110	0.8	6.5		PN22514APRV-24vAC	£248.29		
2	50	40	180	0.8	6.5	Normally Closed	PN22520APRV-24vAC	£266.04		
3 Weld	80	100	440	0.8	6.5	+ Pressure Reducing Valve	PN22528APRV-24vAC	£319.22		
4" Weld	100	160	700	0.8	6.5		PN22532APRV-24vAC	£478.84		
					OPTIONS					

IP65 Coil with flying lead wire

Manual over ride for open, closed or solenoid control

NPT Thread

12vdc, 24vdc, 110vAC or 230vAC

Pressure adjustment range 0.5 to 3 Bar (7 – 40 psi)

Without solenoid - manual control only

	+£2.75	
re	Electrical connections	

Included Included

+ 10%

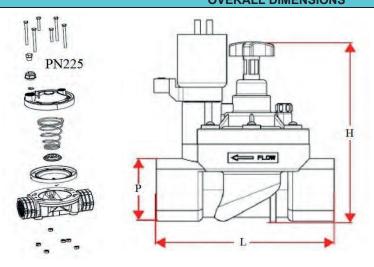
	ELECTRICAL DATA								
Voltage (-10% + 10%) Continuous duty 100%				Insulation class	Enclosure	Electrical connections			
~ 24	-110 – 230 (50 or 60 Hz)	2W	12.5VA	F 155°C	IP 66	Flying lead			
= 12	- 24 (DC)	ZVV	12.5 Watts	F 155°C	IP 66	wire			
	CONSTRUCTION								

Body: Glass Reinforced PA66

Tube, internal parts and bolts: Stainless steel

Seals and gaskets: NBR

Moulded coil : Resin						
REPAIR K	IT .					
Diaphragm Seal	225N + port + seal material					
Coil 2W + voltage						
OVERALL DIMENSIONS						



Port	Н	L	Р	Kg
11/2	104	190	61	1.6
2	104	200	75	2
3	187	259	112	2.75
4	201	278	136	5.9

Media: air – water – vacuum (Torr 10<sup>-1</sup>)
Pressure range: 0 to 5 Bar max
Media temperature: +60°C max
Ambient temperature: +4°C to +50°C max

Ambient temperature: +4°C to +50°C max Media viscosity: 50 centistokes max

Mounting: coil upright



# **2/2 Nylon** 1/2 – 1"

1/2 – 1" NORMALLY OPEN 2 WAY ZERO RATED 0 – 5 Bar



TYPE NOPK

	PRESSURE										
Ø	Ø	Flow		Pressure Rating (	Bar)						
Port BSP	Orifice (mm)	Kv Ltr/ min	Min	Max DC 22005 Coil	Max AC 22003 Coil	Seals	Part Number	List Price			
1/2	18	67	0		5	NBR FKM EPDM	NOPK15NS + voltage NOPK15VS + voltage NOPK15ES + voltage	£138.02			
1/2	10	67	67	07		5		NBR FKM EPDM	NOPK15N-5 + voltage NOPK15V-5 + voltage NOPK15E-5 + voltage	£138.02	
3/4	28	163	0		5	NBR FKM EPDM	NOPK20NS + voltage NOPK20VS + voltage NOPK20ES + voltage				
3/4	20	103	U	4		NBR FKM EPDM	NOPK20N-5 + voltage NOPK20V-5 + voltage NOPK20E-5 + voltage	6476.04			
4	20			5		5	NBR FKM EPDM	NOPK25NS + voltage NOPK25VS + voltage NOPK25ES + voltage	£176.24		
1	28	183	0	4		NBR FKM EPDM	NOPK25N-5 + voltage NOPK25V-5 + voltage NOPK25E-5 + voltage				

**OPTIONS** 

IP65 Coil & Connector PG9 - DIN 43650 A

Silver Shading Ring for AC Coil (Not suitable for DC or ATEX EExmIIT4 coils)

ATEX EExmIIT4 II 2G & 2D IP65 T130°C (AC ~3 Bar DC= 1 Bar) (Without Shading Ring) NPT Thread

Included Included +£101.68 +10%

	ELECTRICAL DATA											
Voltage (-10% + 10%)		Coil	Power Co	nsumption	Insulation	Enclosure	Electrical					
	Continuous duty 100%	Coll	Inrush	Holding	class	Eliciosure	connections					
~	24 - 48 - 110 - 230 - 380 (50 or 60 Hz)	22003	23VA	17VA	H 180°C	IP 65 with	3 spades DIN 43650					
~	12 - 24 - 48 (DC)	22005	18.5	Watts	11 100 C	connector	DIN 40050 VDE 0110					
	CONSTRUCTION											

Body: Poly Acetate

Tube and internal parts: Stainless steel

Seals and gaskets: EPDM (Optional FKM or NBR)

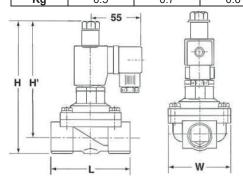
Moulded coil: Resin

REPA	IR KIT
Diaphragm seal	SP + Valve Part Number -DIAPHRAGM
Coil	Coil size (22003 or 22005) + voltage
OVERALL D	DIMENSIONS



No	Description
1	Coil Clip
2	Coil
3	Wave Washer
4	Core Tube
5	Armature
6	Push Bar
7	Base O Ring
8	Armature Base
9	Socket O Ring
10	Socket
11	Pillar Spring
12	Pillar
13	Spring Seat
14	Socket O Ring
15	Bonnet Bolt
16	Bonnet
17	Diaphragm Spring
18	Diaphragm
19	Body O Ring
20	Valve Body

Г	Model	NOPK15	NOPK20	NOPK25		
L		1401 1(10		1401 1425		
L	Port	1/2	3/4	1		
	L	71	90			
	Н	114	12	24		
ſ	H1	98	104			
ſ	W	56	76			
Г	Ka	0.5	0.7	0.6		



2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanical Air Valves

Accessories Fittings, Tubing

> FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors
Vent Suction
Check Valves

Pinch Proportional Sub Base

Timers, Coils & Connectors

Magnets & Y Filters

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

2/2 N/Oper

Stear

Plastic 2/2

Plastic 2/2 N/Open

Plastic Acids/ Alkali

2/2 Latching Bi-Stable

> EN161 Gas Valves

Pressure Reducing Valves Media: air – water

Pressure range: 0.2 to 10 Bar max Media temperature: +90°C max Ambient temperature: +40°C max Media viscosity: 40 centistokes max

Mounting: any position Weight (including coil): 155 g Open / Close Time: 25mSec Max



NO

### 2/2 NYLON

1/4–3/4 + Push Fit WRAS NORMALLY OPEN 2 WAY SERVO ASSISTED 0.2 – 10 Bar

YPE 115BA



	PRESSURE									
Ø	Ø	Flow	(				List			
Port BSP	Orifice (mm)	Kv Ltr/ min	Min	Max	Picture	Part Number	Price			
1/4 Male	11.0	19.5	0.2	10		3115BA + voltage				
1/4 Female	11.0	19.5	0.2	10		3105BA + voltage				
3/8 Male	11.0	27.5	0.2	10		4115BA + voltage				
3/8 Female	11.0	27.5	0.2	10		4105BA + voltage	£43.21			
1/2 Male	11.0	28.3	0.2	10		5115BA + voltage				
1/2 Female	11.0	28.3	0.2	10		5105BA + voltage				
3/4 Male	11.0	28.3	0.2	10	F	6115BA + voltage				
6mm Push Fit	11.0	19.5	0.2	10		1136BA + voltage				
8mm Push Fit	11.0	19.5	0.2	10		1145BA + voltage				
10mm Push Fit	11.0	27.5	0.2	10		1156BA + voltage	£47.71			
15mm Push Fit	11.0	28.3	0.2	10	6	1175BA + voltage	241.11			
1/4 Push Fit	11.0	19.5	0.2	10	T	1186BA + voltage				
3/8 Push Fit	11.0	27.5	0.2	10	1	1196BA + voltage				

**OPTIONS** 

IPX0 coil, Anti Water Hammer 30cm flying lead wire coil

P024000001 - 24vDC PWM pulse width modulating circuit board, 50% heat & 60% power reduction for 100% duty cycle

Included +10% +£58.14

	ELECTRICAL DATA											
	<b>Voltage (-10% + 15%)</b> Media under 60°C 100%	Coil	Power Consumption Insulation class Enclosur		Inculation alone Footness		Electrical					
6	0°C+ (60% Duty 2 min ON - 3 min OFF	Coll	Inrush	Holding	Insulation class	Enclosure	connections					
~	12 - 24 - 110 - 230	COIL-R	11VA	8 VA								
=	12 - 24	COIL-R	6.2 Watts		Insulation Class II Windings Class F	IPX 0	Faston Tags					
=	12 – 24	COIL-R-LP	3.6 Watts		]							

#### CONSTRUCTION

Body: White glass filled food grade nylon or Black glass filled nylon non-food grade Tube and internal parts: stainless steel, Seals and gaskets: NBR, Moulded coil: resin

**REPAIR KIT** 

COIL-R + voltage

APPROVALS

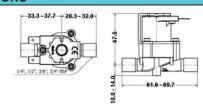
Complies with EN55014 ED. 1993, EN60730-2-8-1 Ed. 1995, WRc approved materials throughout as per cert. 7067

OVERALL DIMENSIONS

P024000001 PWM Board







Media: slight acid - alkali - water - gas Pressure range: 0.5 to 10 Bar max Media temperature: -10 °C to 100 °C Ambient temperature: +5°C to +60°C Media viscosity: 50 centistokes max Mounting: coil upright



### 2/2 Delrin

3/8 - 11/2NORMALLY OPEN 2 WAY SERVO ASSISTED 0.5 - 10 Bar



TYPE NOPA

	PRESSURE										
Ø	Ø	Flow	Pressure Ra	ating (Bar) ∆P		Max Media		List			
Port BSP	Orifice (mm)	Kv Ltr/Min	Min	Max	Seals	Temp. °C	Part Number	Price			
3/8	15	70	0.5	10	FKM EPDM NBR	80 80 40	NOPA14V + voltage NOPA14E + voltage NOPA14N + voltage	£159.36 £135.30 £135.30			
1/2	15	70	0.5	10	FKM EPDM NBR	80 80 40	NOPA15V + voltage NOPA15E + voltage NOPA15N + voltage	£159.36 £135.30 £135.30			
3/4	20	95	0.5	10	FKM EPDM NBR	80 80 40	NOPA20V + voltage NOPA20E + voltage NOPA20N + voltage	£180.40 £165.36 £165.36			
1	25	175	0.5	10	FKM EPDM NBR	80 80 40	NOPA25V + voltage NOPA25E + voltage NOPA25N + voltage	£180.40 £165.36 £165.36			
11/4	35	390	0.5	10	FKM EPDM NBR	80 80 40	NOPA35V + voltage NOPA35E + voltage NOPA35N + voltage	£282.62 £267.60 £267.60			
11/2	35	410	0.5	10	FKM EPDM NBR	80 80 40	NOPA40V + voltage NOPA40E + voltage NOPA40N + voltage	£282.62 £267.60 £267.60			

**OPTIONS** 

IP67 (EN60529:1991+A1:2000) UL & CSA Approved Coil & IP65 Connector PG11 - DIN 43650 A

Silver Shading Ring (NOPAXXX + S + voltage)

ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C 8 \* VST, CR, ECO, HNBR or Hypalon Seals

Included +£36.08 +£101.68 +10%

### FLECTRICAL DATA

Voltage (-10% + 10%)		Coil	Power Co	nsumption	Insulation	Enclosure	Electrical				
	Continuous duty 100%	Con	Inrush	Holding	class	Eliciosule	connection				
~	24 - 110 - 230 - 380 (50 or 60 Hz)	MDOO	18.7VA	15.3VA	H 180°C	IP 65	3 spades DIN 43650				
=	12 - 24 – 48 (DC)	WPG2	18 Watts		H 160 C	with connector	DIN 40050 VDE 0110				

#### CONSTRUCTION

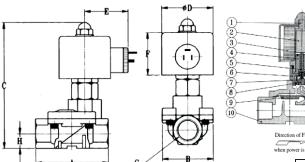
Body: Poly-acetate

Tube and Spring: 304 Stainless Armature: 430F Stainless other internal parts 316 Stainless

Moulded coil: Resin

REPAIR KIT				
Diaphragm	SP + Valve Part Number -DIAPHRAGM			
Coil	WPG2 + voltage			
Armature + seal	SP + Valve Part Number -ARMATURE			

#### **OVERALL DIMENSIONS**



1	Tube	Stainless
2	Slide Block	Stainless
3	Coil	Brass Wire
4	Armature Core	Stainless
5	Sliding link	Stainless
6	Joint	Stainless
7	Spring	Stainless
8	Seals	NBR, EPDM,
0	Seals	FKM
9	Valve Body	P.O.M.

Model	Α	В	С	D	Е	F	Kg
NOPA25	104	90	147	40	65	38	1.65
NOPA35	120	120	170	40	65	38	1.8
NOPA40	132	120	170	40	65	38	1.85

Model	Α	В	С	D	E	F	Kg
NOPA14	73.5	48	128	40	65	38	1.32
NOPA15	73.5	48	128	40	65	38	1.32
NOPA20	104	90	147	40	65	38	1.6

2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

> 2/2 N/Open

Stear

Plastic 2/2 N/Closed

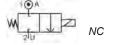
> Plastic Acids/ Alkali

2/2 Latching Bi-Stable

> EN161 Gas

Pressure Reducing Valves Media: acid – detergent – bleach - vinegar Pressure range: 0 to 2.5 Bar max Media temperature: -15°C to 90°C max Ambient temperature: -10°C to +50°C Media viscosity: 50 centistokes max

Mounting: any position Weight (including coil): 200g



## 2/2 PPA

1/4 DRY – ARMATURE NORMALLY CLOSED 2 WAY DIRECT ACTING 0 – 2.5 BAR



## **TYPE PPA1**

	PRESSURE										
Ø	ø ø Flo			Pressure	e Rating (Bar) A	\P					
Port BSP	Orifice (mm)	Kv Ltr/ min	Min	Max 10W	Max ~5.5W	Max =5.5W	Seals	Part Number	List Price		
	4.5	5	0	2.5	2	0.4	EPDM	PPA1EPDM + voltage			
1/4	4.5	5	0	2.5	2	0.4	FKM	PPA1FKM + voltage	£77.57		
	4.5	5	0	2.5	2	0.4	SILICONE	PPA1Silicone + voltage			

**OPTIONS** 

IP65 Coil & Connector PG9 – DIN 43650 A Manual Over ride Included Included

ELECTRICAL DATA								
Voltage (-10% + 15%)		Power Consumption		Insulation		Electrical		
Continuous duty 100%	Coil	Inrush	Holding	class	Enclosure	connections		
~ 24 - 48 - 110 - 240 (50 or 60 Hz)	11000	26VA	14VA					
= 6 - 12 - 24 - 48 (DC)	11630	10 Watts		E 455°O	IP 65	3 spades DIN 43650		
~ 24 - 48 - 110 - 240 (50 or 60 Hz)	11630/55	16VA	12VA	F 155°C	with connector	DIN 40050 VDE 0110		
= 12 - 24 - 48 (DC)	11030/33	5.5W				VDE 0110		

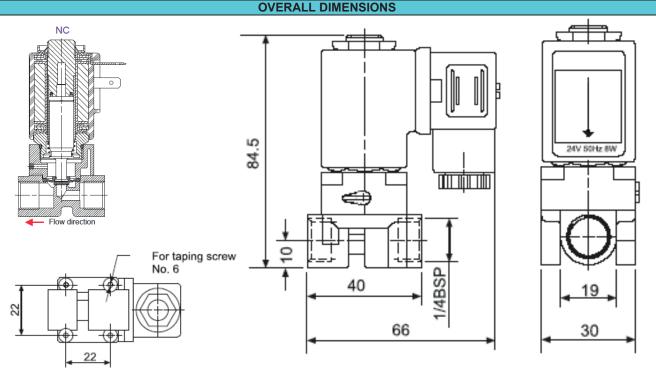
CONSTRUCTION

Body: Reinforced PPA (Polyphthalamide)

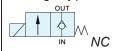
Tube and internal parts: Stainless steel (Dry Armature) Seals and gasket: EPDM (Optional FKM & SILICONE)

Moulded coil: Resin

THOUSE OF THE TOTAL TOTA					
REPAIR KIT					
Coil	11630 or 11630/55 + voltage				
Complete plunger	SP + Valve Part Number -ARMATURE				
Diaphragm	SP + Valve Part Number -DIAPHRAGM				



Media: acid – alkali - water –light oil (Not suitable for vacuum) Pressure range: 0 to 3 Bar max Media temperature: +5°C to +40°C max Ambient temperature: +5°C to +40°C Media viscosity: 50 centistokes max Mounting: any position



## **2/2 PTFE**

3/8 - 1/2 DRY-ARMATURE NORMALLY CLOSED & OPEN 2 WAY ZERO RATED 0 - 3 Bar



**TYPE PE220 + PE220N** 

	PRESSURE															
ø	Orifice		Flow		Pressu	re Rating (Bar) ∆P		List								
Port BSP	Ø (mm)	Coil	Kv Ltr/min	Function	Min	Max	Part Number	Price								
3/8		22003			0.1	1	PE22003T + voltage	£169.26								
1/2		22003		2/2 Normally Closed	0.1	1	PE22004T + voltage	2103.20								
3/8		22005			,	0	3	PE22003H+ voltage	C477 F4							
1/2	5.0	22005	22005	22005	22005	22005	22005		7.1		0	3	PE22004H + voltage	£177.51		
3/8	3.0	22003	7.1	/.1	/.1	/	/	1.1	'	/	/·' [		0.1	1	PE220N03T + voltage	£178.30
1/2		22003		2/2 Normally	0.1	1	PE220N04T + voltage	£170.30								
3/8		22005		Open	0	3	PE220N03H+ voltage	£186.55								
1/2		22005			0	3	PE220N04H + voltage	2.100.55								
					OPTIO	NS										

IP65 Coil & Connector PG9 - DIN 43650 A

ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (0.5 Bar Max)



Included £101.68

	ELECTRICAL DATA								
	Voltage (-10% + 10%) Continuous duty 100%		Power Cor	Power Consumption Insulation class Enc		Enclosure	Electrical		
			Inrush	Holding	ilisulation class	Liiciosure	connections		
~	12 - 24 - 48 - 110 - 220 - 380 (50/60 Hz)	22003	22VA	17VA			0		
=	12 - 24 - 48 (DC)	22003	15 Watts		H 180°C	IP 65 with	3 spades DIN 43650		
~	24 - 48 - 110 - 220 - 380 (50/ 60 Hz)	22005	33VA	24VA	H 160 C	connector	DIN 40050 VDE 0110		
=	12 - 24 - 48 – 110 – 220 (DC)	22005	18.5 Watts				VDE 0110		

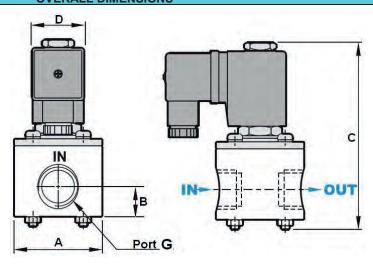
CONSTRUCTION

Body: PTFE (all wetted parts in contact with media PTFE) Tube and internal parts: Stainless steel (Dry armature)

Seal: PTFE encapsulated NBR Test pressure: 1.5 Bar H series 4.5 Bar

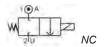
REPAIR KIT						
Coil	Coil size (22003 or 22005) + voltage					
Diaphragm	SP + Valve Part Number - DIAPHRAGM					
OVERALL DIMENSIONS						

Model	PE22003 (mm)	PE22004 (mm)
Port	3/8	1/2
Α	50	50
В	21	21
С	105.5	105.5
D	30/36	30/36
Ka	0.44	0.44



**Plastic** Acids/ Alkali

Media: strong acid – strong alkali (Not suitable for vacuum) Pressure range: 0 to 5 Bar max Media temperature: +5°C to +80°C max Ambient temperature: +5° to +40°C Media viscosity: 50 centistokes max



Mounting: coil upright

### **2/2 PTFE**

1/4 - 1/2 DRY-ARMATURE NORMALLY CLOSED 2 WAY DIRECT ACTING 0 - 5 Bar





YPE SVC

	PRESSURE									
ø	Orifice		Flow	Pressure Ra	ting (bar) ∆P		List			
Port BSP	Ø (mm)	Coil	Kv Ltr/min	Min	Мах	Part Number	Price			
1/4	3	RF1	4.3	0	2	SVC-202-3T + voltage	£171.38			
1/4	6	RF1	9.1	0	0.5	SVC-202-6T + voltage	£171.30			
3/8	3	RF2	4.3	0	5	SVC-203-3T + voltage	£279.62			
3/6	6	RF2	9.1	0	1	SVC-203-6T + voltage	2219.02			
1/2	8	RF3	18	0	1	SVC-204-8T + voltage	£511.14			
1/2	12	RF3	35	0	0.5	SVC-204-12T + voltage	2011.14			

**OPTIONS** 

IP67 UL + CSA Approved Coil + IP65 LED Connector PG11 (SVC 202 + 203 only)

ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (Not available SVC204) (Pressure Reduced by 50%) NPT thread

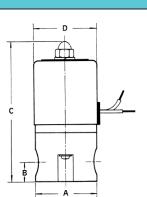
Other custom made orifice, coil and pressure options available upon request

+5% +£101.68 +10%

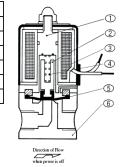
other edetern made office, our and pressure options available apon request									
	ELECTRICAL DATA								
	Voltage (-10% + 10%)		Power Consumption		Insulation class	F	Electrical		
	Continuous duty 100%	Coil	Inrush	Holding	insulation class	Enclosure	connections		
~	24 - 110 - 230 (50 or 60 Hz)	RF1	11.2VA	8.2VA					
=	12 - 24 (DC)		12 Watts						
~	24 - 110 - 230 (50 or 60 Hz)	RF2	30VA	18.2VA	F 155°C	IP54	30 cm		
=	12 - 24 (DC)	T KF2	18 Watts		F 155 C	1P54	flying lead		
~	110 - 220 (50 or 60 Hz)	RF3	29VA	17.6VA					
=	12 - 24 (DC)	T KF3	14.4 Watts						
	CONSTRUCTION								

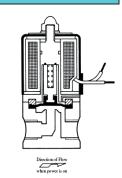
Body: PTFE (all wetted parts PTFE) other parts stainless steel Tube and internal parts: Stainless steel (Dry armature)

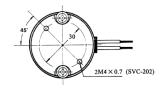
Seal: PTFE encapsulated FKIVI						
REPAIR KIT						
Coil	Coil size (RF1 or RF2 or RF3) + voltage					
Diaphragm	SP + Valve Part Number -DIAPHRAGM					
OVERALL DIMENSIONS						



Model	SVC202	SVC203	SVC204
Port	1/4	3/8	1/2
Α	40	50	70
В	12.5	13.5	19
С	89	120	155
D	42	52	60
Kg	0.28	0.48	1.3







Media: vacuum - acid-detergent-bleach Pressure range: 0 to 0.7 bar max Media temperature: +5°C to 50°C max Ambient temperature: -10° to +40°C Media viscosity: 50 centistokes max

Mounting: any position Weight (including coil): 300 g

Opening or Closing time: 20 mSec Max



## 2/2 PVC

1/2 DRY- ARMATURE NORMALLY CLOSED 2 WAY DIRECT ACTING 0 – 0.7 Bar TYPE C40



Flow Pressure Rating (Bar) ∆P Ø Ø List **Port** Orifice Seals **Part Number** Κv Max Max **Price** Min **BSP** (mm) Ltr/Min ~10 w =10W FKM 8.0 19 0 0.7 0.4 C4012 + seal + voltage **EPDM** 1/2 £175.89 FKM 8.0 19 0 -1 -0.4 C4011 + seal + voltage **EPDM** 

**OPTIONS** 

IP65 Coil & Connector PG9 – DIN 43650 A

NPT Thread

Included +10%

	ELECTRICAL DATA						
	Voltage (+10% -5%) Continuous duty 100%		Power Cor	nsumption	Insulation	Enclosure	Electrical connections
			Inrush	Holding	class		
~	24 - 48 - 110 - 230 (50 or 60 Hz)		26VA	14VA		IP 65	3 spades DIN 43650
=	6 - 12 - 24 - 48	11630	10 V	Vatts	F 155°C	with connector	DIN 40050 VDE 0110

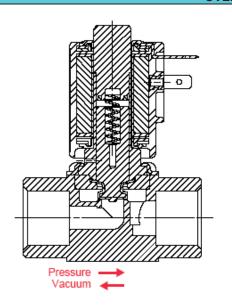
CONSTRUCTION

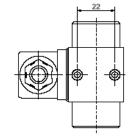
Body: PVC

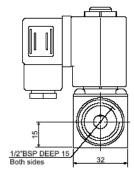
Tube and internal parts: Stainless steel Seals and gasket: FKM or EPDM

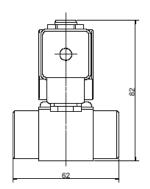
Moulded coil: Resin

REPAIR KIT						
Coil	11630 or 11630/55 + voltage					
Armature	SP + Valve Part Number -ARMATURE					
Diaphragm	SP + Valve Part Number - DIAPHRAGM					
OVERALL DIMENSIONS						









2/2 & 3/2 Coaxial Solenoid Valves

> lectric actuated all Valves

Air Solenoid Valves

Mechanical Air Valves

Accessorie Fittings, Tubing

> FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors Vent Suction Check Valves

Pinch Proportional Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filters Brass 2/2 N/Closed

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

> 2/2 N/Oper

> > Stear

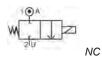
Plastic 2/2 N/Closed

> Plastic Acids/ Alkali

2/2 Latching

> EN161 Gas

Pressure Reducing Valves Media: Strong Acid — Strong Alkali Pressure range: 0 to 1 Bar max Media temperature: -5°C to +80°C max Ambient temperature: -10°C to +40°C max Media viscosity: 20 centistokes max Mounting: any position



## 2/2 PVC + PTFE

1/4 – 1/2 DRY- ARMATURE NORMALLY CLOSED 2 WAY DIRECT ACTING 0 – 1 Bar

## TYPE UDC & TF



	PRESSURE																		
Ø	.   .				Pressure Rating		List												
Port BSP	Orifice (mm)	Cv	Coil	Body	Min	Max AC	Max DC	Part Number	Price										
1/4	6.5	0.28	- WPA2		0	1	0.7	UDC8 + voltage											
3/8	6.5	0.28		WPA2	WPA2	WPA2	WPA2			PVC	0	1	0.7	UDC10 + voltage	£166.10				
1/2	6.5	0.28							0	1	0.7	UDC15 + voltage							
1/4	6.5	0.28						VVPAZ	VVPAZ	VVPAZ	VVPAZ	VVFAZ	VVFAZ	VVPAZ	0	0	1	UDC8TF + voltage	
3/8	6.5	0.28															0	0	1
1/2	6.5	0.28	]	PTFE	0	0	1	UDC15TF + voltage											
3/4	13	4.0	225440		0	0	0.5	UDC20TF + voltage	£399.36										
1	13	4.0	22514S		0	0	0.5	UDC25TF + voltage	£435.67										
	OPTIONS																		

IP65 Coil & Connector PG9 - DIN 43650 A (1/4 3/8 & 1/2), 3/4 & 1" IP54 flying lead wire

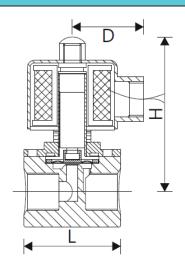
Included

	ELECTRICAL DATA								
	Voltage (-10% + 15%)	Coil	Power Co	nsumption	Insulation class	Enclosure	Electrical		
	Continuous duty 100%	Con	Inrush Holding	Holding	insulation class	Eliciosure	connections		
~	24 - 110 - 230 (50 or 60 Hz)	WPA2	40VA	24.2VA	11.400%	IP 65 with	3 spades DIN 43650		
=	12 - 24 (DC)	VVPAZ	18 V	Vatts	H 180°C	connector	DIN 40050 VDF 0110		
~	24 - 110 - 230 (50 or 60 Hz)	22514S	116VA	72.6VA	N200°C	IP54	30 cm		
=	12 - 24 (DC)	223143	27 Watts		N200°C	1754	flying lead		
	CONSTRUCTION								

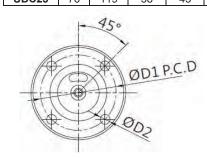
Body: UDC PVC; UDC-TF PTFE (Dry Armature)
Tube: stainless steel, armature 430F stainless steel

Shading ring: copper Seals and gaskets: PTFE Moulded coil: Resin

Not suitable for Vacuum						
REPA	IR KIT					
Coil	WPA2 or 22514S + voltage					
Core tube & armature assembly SP + Valve Part Number -ARMATURE						
OVERALL DIMENSIONS						



Model	L	Н	D	D1	D2	Kg
UDC8	50	90	48	45	5.2	0.53
UDC10	50	90	48	45	5.2	0.52
UDC15	55	93	48	45	5.2	0.58
UDC20	76	119	58	45	5.2	1.76
UDC25	76	119	58	45	5.2	1 73

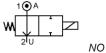


Media: acid – detergent – bleach - vinegar

Pressure range: 0 to 1 Bar max

Media temperature: -15°C to +90°C max Ambient temperature: -10°C to +50°C Media viscosity: 50 centistokes max

Mounting: any position Weight (including coil): 200g



### 2/2 PPA

1/4 DRY - ARMATURE NORMALLY OPEN 2 WAY DIRECT ACTING 0 – 1 BAR



TYPE PPA2

PRESSURE											
Ø	Ø	Flow		Pressure Rating (Bar) ∆P							
Port BSP	Orifice (mm)	Kv Ltr/ min	Min	Max 10W	Max ~5.5W	Max =5.5W	Seals	Seals	Part Number	List Price	
	4.5	5	0	1	0.5	0.5	EPDM	PPA2-EPDM + voltage			
1/4	4.5	5	0	1	0.5	0.5	FKM	PPA2-FKM + voltage	£98.49		
	4.5	5	0	1	0.5	0.5	SILICONE	PPA2-SILICONE + voltage			

**OPTIONS** 

IP65 Coil & Connector PG9 - DIN 43650 A

Included

	ELECTRICAL DATA						
	Voltage (-10% + 15%)		Power Co	nsumption	Insulation	Enclosure	Electrical connections
	Continuous duty 100%	Coil	Inrush	Holding	class		
~	24 - 48 - 110 - 240 (50 or 60 Hz)	11630	26VA	14VA			2 anadaa
=	6 - 12 - 24 - 48 (DC)	11030	10 Watts		F 155°C	IP 65 with	3 spades DIN 43650
~	24 - 48 - 110 - 240 (50 or 60 Hz)	11630/55	16VA	12VA	F 155 C	connector	DIN 40050 VDE 0110
=	12 - 24 - 48 (DC)	11030/33	5.5W				VDL 0110

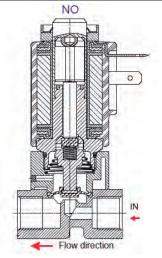
CONSTRUCTION

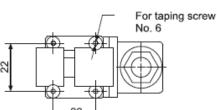
Body: Reinforced PPA (Polyphthalamide)

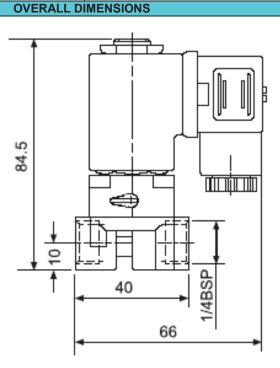
Tube and internal parts: Stainless steel (Dry Armature) Seals and gasket: EPDM (Optional FKM & SILICONE)

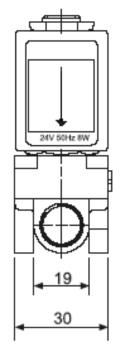
Moulded coil: Resin

REPAIR KIT					
Coil	30 or 30/55 + voltage				
Armature	SP + Valve Part Number – ARMATURE				
Diaphragm	SP + Valve Part Number - DIAPHRAGM				









2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanica Air Valves

Accessories Fittings, Tubing

FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors Vent Suction Check Valves

> inch roportional Sub Base

Timers, Coils & Connectors

Magnets & Y Filters

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

> 2/2 N/Open

> > Steam

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas Valves

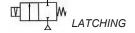
Pressure Reducing Valves Media: air – water – gas – light oil - vacuum

Pressure range: 0 to 3.5 Bar max Media temperature: 120°C max

Ambient temperature: -10°C to +50°C max Media viscosity: 50 centistokes max

Mounting: any position

Opening / Closing time: 20 mSec Max



## 2/2 Brass

1/8 – 1/2 LATCHING 2 WAY DIRECT ACTING 0 – 3.5 Bar



TYPE LAD612

					PRESSURE			
Ø	Ø		Flow	Pressu	Pressure Rating (Bar)			Lint
Port BSP	Orifice (mm)	Coil	Kv Ltr/min	Min	Max	Seals	Part Number	List Price
	3.0		4	0	3.5		LAD6A + seal + voltage	
1/8	4.0		5.5	0	2.5		LAD6B + seal + voltage	
	5.0	WPG1	7.2	0	1.8	NBR +80°C	LAD6C + seal + voltage	£54.12
	3.0	WEGI	4	0	3.5	SILICONE +120°C	LAD8A + seal + voltage	
1/4	4.0		5.5	0	2.5	EPDM +120°C	LAD8B + seal + voltage	
	5.0		7.2	0	1.8	FKM +120°C	LAD8C + seal + voltage	
	4.0		5.5	0	3.5	*DTEE : 10000	LAD10A + seal + voltage	
3/8	6.0		10.5	0	1.8	*PTFE +120°C *VST +120°C	LAD10B + seal + voltage	£99.22
	8.0	WPG2	16.2	0	0.7	V31 +120 C	LAD10C + seal + voltage	
1/2	6.0		10.5	0	1.8		LAD12A + seal + voltage	£105.24
1/2	8.0		16.2	0	0.7		LAD12B + seal + voltage	2100.24

OPTIONS

IP67 CSA + UL Approved Coil & IP65 LED Connector PG11 - DIN 43650 A

\* PTFE, VST, CR, ECO, HNBR and Hypalon

Manual Over Ride AD8 – AD10

+£15.37 +£45.10

			ELECTRICAL DATA			
	Voltage (-10% + 10%) Continuous duty 100%	Coil	Power Consumption	Insulation class	Enclosure	Electrical connections
Ī	= 12 - 24 (DC)	WPG1	12 Watts	H 490°C	IP 65	3 spades DIN 43650A
	= 12 - 24 (DC)	WPG2	18 Watts	H 180°C	with connector	DIN 40050 VDE 0110
			CONSTRUCTION			

Body: Brass

Tube and Spring: 304 Stainless Armature: 430F Stainless Other internal parts: Stainless No Shading Ring Seals and gaskets: FKM (Optional EPDM, NBR, SILICONE, PTFE, VST, CR, ECO, HNBR and Hypalon)

Moulded coil: Resin	
REPA	IR KIT
Coil	WPG1 OR WPG2 + voltage
Armature + Seal	SP210 + valve part number
OVERALLE	MENCIONO

C

89

90

F\*

63

65

G

15

15

Н

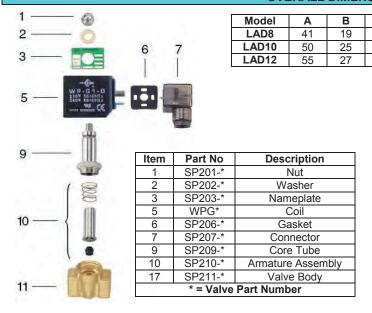
10.5

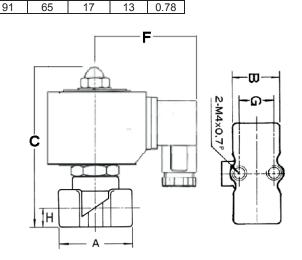
11.7

Kg

0.47

0.73





Media: air – water – gas – light oil - vacuum

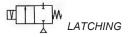
Pressure range: 0 to 42 Bar max Media temperature: 120°C max

Ambient temperature: -10°C to +50°C max

Media viscosity: 50 centistokes max

Mounting: any position

Opening / Closing time: 20 mSec Max



### 2/2 Brass

1/8" **LATCHING** 2 WAY DIRECT ACTING 0 - 42 Bar



TYPE LAD6000

					PR	ESSURE		
Ø	ø		Flow	Pressure F	Rating (Bar)			
Port BSP	Orifice (mm)	Coil	Kv Ltr/min	Min	Max	Seals	Part Number	List Price
	1.2		1.1	0	21		LAD6012 + seal + voltage	
	1.6	WPG1	1.5	0	14	NBR +80°C SILICONE +120°C EPDM +120°C FKM +120°C	LAD6016 + seal + voltage	£66.15
	2.0		1.8	0	7		LAD6020 + seal + voltage	
	1.2		1.1	0	42		LAD6112 + seal + voltage	
1/8	1.6		1.6	0	21		LAD6116 + seal + voltage	
	2.0	WPG2	1.8	0	10	DTEE 40000	LAD6120 + seal + voltage	£102.22
	3.0		4.3	0	7	PTFE +120°C	LAD6130 + seal + voltage	£102.22
	4.0		9.7	0	4.2	VST +120°C	LAD6140 + seal + voltage	
	5.0		10.7	0	3.5		LAD6150 + seal + voltage	

**OPTIONS** 

IP67 UL + CSA Approved Coil & IP65 LED Connector PG11 - DIN 43650 A

\* PTFE, VST, CR, ECO, HNBR or Hypalon Seals

Manual Over Ride

Other custom made options available upon request

Included +£15.37

+£45.10

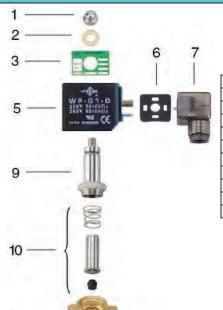
	ELECTRICAL DATA										
Voltage (-10% + 10%) Continuous duty 100%		Coil Power Consumption		Insulation class	Enclosure	Electrical connections					
=	12 – 24 (DC)	WPG1	12 Watts	11.400°C	IP 65	3 spades DIN 43650A					
=	12 – 24 (DC)		18 Watts	H 180°C	with connector	DIN 40050 VDE 0110					

#### CONSTRUCTION

Body: Brass

Tube and Spring: 304 Stainless Armature: 430F Stainless Other internal parts: Stainless No Shading Ring Seals and gaskets: FKM (Optional EPDM, NBR, SILICONE, PTFE, VST, CR, ECO, HNBR and Hypalon) Moulded coil: Resin

Modidod coll. 1 toolii						
REPAIR KIT						
Coil	Coil size (WPG1 or WPG2) + voltage					
Armature SP210 + valve part number						
OVERALL DIMENSIONS						



Model	Α	В	С	F*	G	Н	Kg
6012-6020	41	19	85	63	15	10.5	0.47
6112-6150	41	19	88	65	15	10.5	0.66

Item	Part No	Description				
1	SP201-*	Nut				
2	SP202-*	Washer				
3	SP203-*	Nameplate				
5	WPG-*	Coil				
6	SP206-*	Gasket				
7	SP207-*	Connector				
9	SP209-*	Core Tube				
10	SP210-*	Armature Assembly				
17	SP211-*	Valve Body				
* = Valve Part Number						

2-M4×0 Ċ

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed

> 2/2 N/Oper

> > Stear

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas Valves

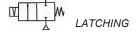
Pressure Reducing Valves Media: air - water - gas - light oil - vacuum

Pressure range: 0 to 42 Bar max Media temperature: 120°C max

Ambient temperature: -10°C to +50°C max Media viscosity: 50 centistokes max

Mounting: any position

Opening / Closing time: 20 mSec Max



## 2/2 Brass

1/4" LATCHING 2 WAY DIRECT ACTING 0 – 42 Bar

## TYPE LAD8000



	PRESSURE										
Ø	Ø Orifice (mm)	Coil	Flow	Pressure F	Rating (Bar)						
Port BSP			Kv Ltr/min	Min   May	Part Number	List Price					
	1.2		1.1	0	21		LAD8012 + seal + voltage				
	1.6	WPG1	1.5	0	14	NBR +80°C SILICONE +120°C EPDM +120°C	LAD8016 + seal + voltage	£66.15			
	2.0		1.8	0	7		LAD8020 + seal + voltage				
	1.2		1.1	0	42		LAD8112 + seal + voltage				
1/4	1.6		1.6	0	21	FKM +120°C	LAD8116 + seal + voltage				
	2.0	WPG2	1.8	0	10	*DTEE : 10000	LAD8120 + seal + voltage	£102.23			
	3.0	WFGZ	4.3	0	7	*PTFE +120°C *VST +120°C	LAD8130 + seal + voltage				
	4.0		9.7	0	4.2	V31 +120 C	LAD8140 + seal + voltage				
	5.0		10.7	0	3.5		LAD8150 + seal + voltage				

**OPTIONS** 

IP67 UL + CSA Approved Coil & IP65 LED Connector PG11 - DIN 43650 A

\* PTFE, VST, CR, ECO, HNBR or Hypalon Seals

Manual Over Ride

Other custom made options available upon request

Included +£15.37 +£45.10

			ELECTRICAL DATA			
	Voltage (-10% + 10%) Continuous duty 100%	Coil	Power Consumption	Insulation class	Enclosure	Electrical connections
= 13	12 - 24 (DC)	WPG1	12 Watts	H 180°C	IP 65 with	3 spades DIN 43650A
_	12 - 24 (DO)	WPG2	18 Watts	11 100 C	connector	DIN 40050 VDE 0110

CONSTRUCTION

Body: Brass

Tube and Spring: 304 Stainless Armature: 430F Stainless Other internal parts: Stainless No Shading Ring Seals and gaskets: FKM (Optional EPDM, NBR, SILICONE, PTFE, VST, CR, ECO, HNBR and Hypalon)

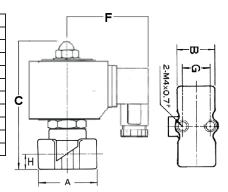
Moulded coil: Resin

Woulded coll. (Coll)							
REPAIR KIT							
Coil	Coil size WPG1 or WPG2 + voltage						
Armature + Seal	SP210 + valve part number						
OVERALL DIMENSIONS							



Model	Α	В	С	F*	G	Н	Kg
8012-8020	41	19	85	63	15	10.5	0.47
8112-8150	41	19	88	65	15	10.5	0.66

Item	Part No	Description					
1	SP201-*	Nut					
2	SP202-*	Washer					
3	SP203-*	Nameplate					
5	WPG-*	Coil					
6	SP206-*	Gasket					
7	SP207-*	Connector					
9	SP209-*	Core Tube					
10	SP210-*	Armature Assembly					
17	SP211-*	Valve Body					
	* = Valve Part Number						



Media: air – water – light oil - vacuum Pressure range: 0 to 4.9 Bar max Media temperature: 120°C max

Ambient temperature: -20°C to +60°C max Media viscosity: 50 centistokes max

Mounting: coil upright

Opening / Closing Time: 50 mSec Max



LATCHING

### 2/2 Brass

3/8 - 2" **LATCHING** 2 WAY ZERO RATED 0 - 3.5 Bar



TYPE LAD

	PRESSURE											
Ø	Ø	Flow	Pressure F	Rating (Bar)		Maria Maratta		1.1-4				
Port BSP	Orifice (mm)	Kv Ltr/ min	Min	Max	Seals	Max Media Temp. °C	Part Number	List Price				
3/8	15	35	0	3.5	NBR FKM EPDM	80 120 120	LAD14N + voltage LAD14V + voltage LAD14E + voltage	£138.30				
1/2	15	35	0	3.5	NBR FKM EPDM	80 120 120	LAD15N + voltage LAD15V + voltage LAD15E + voltage	£138.30				
3/4	20	72	0	3.5	NBR FKM EPDM	80 120 120	LAD20N + voltage LAD20V + voltage LAD20E + voltage	£153.34				
1	25	183	0	3.5	NBR FKM EPDM	80 120 120	LAD25N + voltage LAD25V + voltage LAD25E + voltage	£210.46				
11/4	35	400	0	3.5	NBR FKM EPDM	80 120 120	LAD35N + voltage LAD35V + voltage LAD35E + voltage	£297.66				
11/2	35	400	0	3.5	NBR FKM EPDM	80 120 120	LAD40N + voltage LAD40V + voltage LAD40E + voltage	£297.66				
2	51	580	0	2.5	NBR FKM EPDM	80 120 120	LAD50N + voltage LAD50V + voltage LAD50E + voltage	£565.25				

**OPTIONS** 

IP67 UL & CSA Approved Coil & IP65 LED Connector PG11 DIN 43650A

NPT Thread

Manual Over Ride Base Mounted Screw T Bar for AD series

\* VST, CR, ECO, HNBR and Hypalon

Included +10% +£105.24 +10%

	ELECTRICAL DATA									
	Voltage (-10% + 10%) Continuous duty 100%	Coil	Power Consumption	Insulation class	Enclosure	Electrical connections				
=	12 – 24 (DC)	WPG2	18 Watts	H 180°C	IP 65 with connector	3 spades DIN 43650A DIN 40050 VDE 0110				

CONSTRUCTION

Tube and Spring: 304 Stainless Armature: 430F Stainless Other internal parts: Stainless No Shading Ring Seals and gaskets: NBR (Optional EPDM, NBR, SILICONE, VST, CR, ECO, HNBR and Hypalon)
Moulded coil: Duroplast / Thermo set resin

REPAI	R KIT

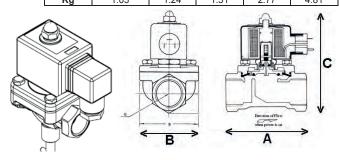
Diaphragm seal SP215 + Valve Part Number Coil WPG2 + voltage

#### **OVERALL DIMENSIONS**



No.	Part No	Description
1	SP201*	Nut
2	SP202*	Washer
3	SP203*	Nameplate
5	SP205*	Coil
6	SP206*	Gasket
7	SP207*	Connector
8	SP208*	Core Tube
9	SP209*	Valve Bonnet
10	SP210*	Bolt
11	SP211*	Bonnet O Ring
12	SP212*	Armature Parts
13	SP213*	Diaphragm Base
14	SP214*	Diaphragm Base
15	SP215*	Diaphragm
16	SP216*	Base O Ring
17	SP217*	Valve Body
	* = Valve	Part Number

Model	AD14 AD15	AD20	AD25	AD35 AD40	AD50
Port R	1/2	3/4	1	11/2	2
Α	75	85	100	120	150
В	52	60	70	90	120
С	103	114	120	140	160
Ka	1.03	1 2/	1.51	2 77	// 81



Brass 2/2 N/Closed Pilot

2/2 N/Open

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

> Stainless 2/2 N/Open

Stear

Plastic 2/2 N/Closed

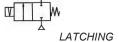
> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas Valves

Pressure Reducing Valves Media: air – water – light oil - steam Pressure range: 0 - 4.9 or 0.5 - 20 Bar Media temperature: +200°C Max Ambient temperature: -20°C to +60°C Media viscosity: 50 centistokes max Mounting: coil upright

Opening / Closing 200 mSec Max



## 2/2 Brass

1/8 - 2 LATCHING 2 WAY DIRECT + SERVO ASSIST 0 – 20 Bar TYPE LSA



Flow Pressure Rating (Bar) Max AP Ø Ø List K۷ Port Orifice Coil **Part Number Price** Ltr/ Min Steam Air/ Water **BSP** (mm) min £66.14 1/8 3 5.2 WPG1 0 4.9 LSA6A + voltage 1/4 3 5.2 WPG1 0 4.9 LSA8A + voltage £66.14 3/8 4 9.7 WPG2 0 4.9 LSA10A + voltage £120.26 3/8 15 75 WPG2 0.5 20 £205.43 12 LSA14 + voltage £205.43 1/2 15 75 WPG2 0.5 12 20 LSA15 + voltage 3/4 20 155 WPG2 0.5 12 20 LSA20 + voltage £213.47 1 25 220 WPG2 0.5 12 20 LSA25 + voltage £228.50 WPG2 11/4 35 433 0.5 12 20 LSA35 + voltage £405.90 11/2 35 433 WPG2 0.5 12 20 LSA40 + voltage £405.90 2 12 £664.47 50 800 WPG2 0.5 20 LSA50 + voltage

OPTIONS

IP67 UL + CSA Approved Coil & IP65 PG11 LED Connector DIN43650A

Included +10%

Stainless Steel Body, High Pressure, Flanged and other custom made options available upon request

	ELECTRICAL DATA							
	Voltage (-10% + 10%) Continuous duty 100%	Coil	Power Consumption	Insulation class	Enclosure	Electrical connections		
	= 12 – 24 (DC)	WPG1	12 Watts	H 180°C	IP 65         3 spades           With         DIN 43650           Connector         DIN 40050           VDE0110			
=		WPG2	18 Watts			DIN 40050		
CONSTRUCTION								

Body: Brass

NPT Thread

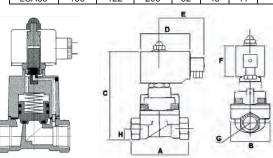
Tube and Spring: 304 Stainless Armature: 430F Stainless Other internal parts: Stainless No Shading Ring

Seals and gaskets: PTFE Moulded coil: Resin

Wodiaca coll. (Coll)	Woulded Coll. 1 Coll					
REPAIR KIT						
Coil	Coil size (WPG1 or WPG2) + voltage (DC Only)					
Piston	SP + valve part number - PISTON					
Armature assembly SP + valve part number - ARMATURE						
OVERALL DIMENSIONS						



Model	Α	В	С	D	Е	F	G	Н	Kg
LSA6	41	19	86	41	40	-	1/8	10.5	0.47
LSA8	41	19	86	41	40	-	1/4	10.5	0.43
LSA10	50	25	91	52	45	-	3/8	11.7	0.56
LSA14	67	48	123	67	52	42	3/8	15	1.13
LSA15	67	48	123	67	52	42	1/2	15	1.1
LSA20	96	72	149	67	52	42	3/4	25	1.53
LSA25	96	72	149	67	52	42	1	25	1.85
LSA35	120	90	168	52	45	41	11/4	33	3.3
LSA40	120	90	168	52	45	41	11/2	33	3.25
LSA50	150	122	203	52	45	41	2	40.5	6.8



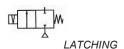
Media: air - water - gas - light oil - vacuum

Pressure range: 0 to 3.5 Bar max Media temperature: 180°C max

Ambient temperature: -10°C to +50°C max Media viscosity: 50 centistokes max

Mounting: any position

Opening / Closing time: 20 mSec Max



### 2/2 Stainless

1/8 - 1/2" **LATCHING** 2 WAY DIRECT ACTING 0 - 3.5 Bar TYPE LADS612



Included

+£49.61

+£16.91

**PRESSURE** Pressure Rating (Bar) **Flow** Ø Port Orifice Coil **Part Number List Price** Seals Κv Min Max **BSP** (mm) Ltr/min 3.0 4 0 3.5 LADS6A + seal + voltage 1/8 4.0 5.5 0 2.5 LADS6B + seal + voltage £112.45 5.0 7.2 0 1.8 LADS6C + seal + voltage WPG1 3.0 4 0 3.5 LADS8A + seal + voltage NBR +80°C Silicone +120°C 1/4 0 £112.45 4.0 5.5 2.5 LADS8B + seal + voltage EPDM +120°C 5.0 7.2 0 1.8 FKM+120°C LADS8C + seal + voltage 0 4.0 5.5 3.5 LADS10A + seal + voltage \*PTFE +180°C \*VST +180°C 3/8 £178.60 6.0 10.5 0 1.8 LADS10B + seal + voltage 8.0 WPG2 16.2 0 0.7 LADS10C + seal + voltage 6.0 10.5 0 1.8 LADS12A + seal + voltage 1/2 £198.44 8.0 16.2 0 0.7 LADS12B + seal + voltage

IP67 UL + CSA Approved Coil & IP65 LED Connector PG11 - DIN 43650 A

Manual Over Ride (LADS8 - 10)

\* PTFE, VST, CR, ECO, HNBR or Hypalon Seals Other custom made options available upon request

В

19

25

41

50

C

89

90

63

G

15

15

Н

10.5

11.7

Kg

0.47

0.73

	ELECTRICAL DATA						
Voltage (-10% + 10%) Continuous duty 100%		Coil Power Consumption		Insulation class	Enclosure	Electrical connections	
=	12 – 24 (DC)	WPG1	12 Watts	H 180°C	IP 65 with	3 spades DIN 43650A	
=	12 - 24 (DC)	WPG2	18 Watts	11 100 0	connector	DIN 40050 VDE 0110	

#### CONSTRUCTION

Body: Forged 316 stainless steel (CF8M)

Tube 304 stainless steel, armature 430F stainless steel

Shading ring: None

Seals and gaskets: FKM (Optional EPDM, NBR, SILICONE, PTFE, VST, CR, ECO, HNBR and Hypalon)

Modided Coll. Resili						
REPAIR KIT						
Coil	Coil size (WPG1 or WPG2) + voltage					
Armature + seal SP210 + valve part number - ARMATURE						
OVERALL DIMENSIONS						

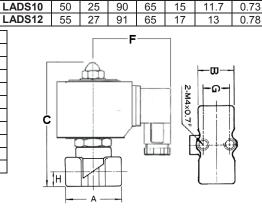
Model

LADS8

LADS10



Item	Part No	Description				
1	SP201-*	Nut				
2	SP202-*	Washer				
3	SP203-*	Nameplate				
5	WPG*	Coil				
6	SP206-*	Gasket				
7	SP207-*	Connector				
9	SP209-*	Core Tube				
10	SP210-*	Armature Assembly				
17	SP211-*	Valve Body				
	* = Valve Part Number					



Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

Stainless 2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

> 2/2 N/Oper

Stean

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas Valves

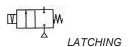
Pressure Reducing Valves Media: air - water - gas - light oil - vacuum

Pressure range: 0 to 42 Bar max Media temperature: 180°C max

Ambient temperature: -10°C to +50°C max Media viscosity: 50 centistokes max

Mounting: any position

Opening / Closing time: 20 mSec Max



## 2/2 Stainless

1/8" LATCHING 2 WAY DIRECT ACTING 0 – 42 Bar

## TYPE LADS6000



	PRESSURE										
Ø Port BSP	Ø	Coil	Flow	Pressure I	Rating (Bar)			1.5-4			
	Orifice (mm)		Kv Ltr/min	Min	Max	Seals	Part Number	List Price			
	1.2		1.1	0	21		LADS6012 + seal + voltage				
	1.6	WPG1	1.5	0	14	NBR +80°C SILICONE +120°C EPDM +120°C	LADS6016 + seal + voltage	£132.29			
	2.0		1.8	0	7		LADS6020 + seal + voltage				
	1.2		1.1	0	42		LADS6112 + seal + voltage				
1/8	1.6		1.6	0	21	FKM +120°C	LADS6116 + seal + voltage				
	2.0	WPG2	1.8	0	10.5	*DTEE : 40000	LADS6120 + seal + voltage	£156.34			
	3.0	WPG2	4.3	0	7	*PTFE +180°C *VST +180°C	LADS6130 + seal + voltage	2130.34			
	4.0		9.7	0	4.2	V31 +100 C	LADS6140 + seal + voltage				
	5.0		10.7	0	3.5		LADS6150 + seal + voltage				

**OPTIONS** 

IP67 UL + CSA Approved Coil & IP65 LED Connector PG11 - DIN 43650 A

\* PTFE, VST, CR, ECO, HNBR or Hypalon Seals

Manual Over Ride

Other custom made options upon request

Included +£15.37 +£45.10

	ELECTRICAL DATA						
	Voltage (-10% + 10%) Continuous duty 100%	Coil	Power Consumption	Insulation class	Enclosure	Electrical connections	
_	12 - 24 (DC)	WPG1	12 Watts	H 180°C	IP ha I .	3 spades DIN 43650A	
-	12 - 24 (DC)	WPG2	18 Watts	H 160 C	connector	DIN 40050 VDE 0110	
CONSTRUCTION							

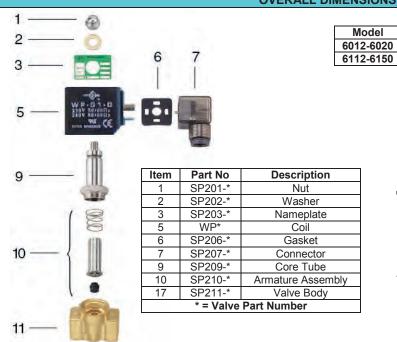
Body: 316 Stainless steel

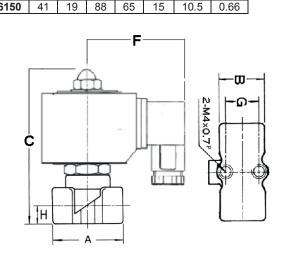
Tube 304 stainless steel, armature 430F stainless steel, Shading ring None

Seals and gaskets: FKM (Optional EPDM, NBR, SILICONE, PTFE, VST, CR, ECO, HNBR and Hypalon)

Moulded coil: Resin

Wodiaca ooii. 1 coiii				
REPAIR KIT				
Coil	Coil size (WPG1 OR WPG2) + voltage			
Armature	SP210 + Valve Part Number			
OVERALL DIMENSIONS				





В

19

41

С

85

F

63

G

15

10.5

Kg

0.47

Media: air – water – gas – light oil - vacuum

Pressure range: 0 to 42 Bar max Media temperature: 180°C max

Ambient temperature: -10°C to +50°C max

Media viscosity: 50 centistokes max

Mounting: any position

Opening / Closing time: 20 mSec Max



**LATCHING** 

### 2/2 Stainless

1/4" LATCHING 2 WAY DIRECT ACTING 0 – 42 Bar



TYPE LADS8000

PRESSURE

	PRESSURE										
Ø	Ø	Coil	Flow Pressure Rating (Bar)								
Port BSP	Orifice (mm)		Kv Ltr/min	Min	Max	Seals	Part Number	List Price			
	1.2		1.1	0	21		LADS8012 + seal + voltage				
	1.6	WPG1	1.5	0	14	NBR +80°C SILICONE +120°C EPDM +120°C	LADS8016 + seal + voltage	£132.29			
	2.0		1.8	0	7		LADS8020 + seal + voltage				
	1.2		1.1	0	42		LADS8112 + seal + voltage				
1/4	1.6		1.6	0	21	FKM +120°C	LADS8116 + seal + voltage				
	2.0	WPG2	1.8	0	10.5	*DTEE .40000	LADS8120 + seal + voltage				
	3.0	WPG2	4.3	0	7	*PTFE +180°C *VST +180°C	LADS8130 + seal + voltage				
	4.0		9.7	0	4.2	V31 +100 C	LADS8140 + seal + voltage				
	5.0		10.7	0	3.5		LADS8150 + seal + voltage				

**OPTIONS** 

IP67 UL + CSA Approved Coil & IP65 LED Connector PG11 – DIN 43650 A

\* PTFE, VST, CR, ECO, HNBR or Hypalon Seals

Manual Over Ride

Other custom made options upon request

Included +£15.37 +£45.10

**ELECTRICAL DATA** Voltage (-10% + 10%) Insulation Electrical Coil **Power Consumption Enclosure** Continuous duty 100% connections class 3 spades WPG1 12 Watts IP 65 DIN 43650A 12 - 24 (DC) H 180°C with DIN 40050 WPG2 18 Watts connector **VDE 0110** 

CONSTRUCTION

Body: 316 Stainless steel

Tube 304 stainless steel, armature 430F stainless steel

Shading ring: None

Seals and gaskets: FKM (Optional EPDM, NBR, SILICONE, PTFE, VST, CR, ECO, HNBR and Hypalon)

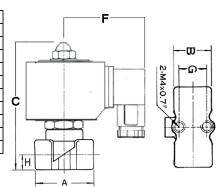
Moulded coil: Resin

Modided Coll. INESITI							
REPAIR KIT							
Coil	Coil size (WPG1 or WPG2) + voltage						
Armature + Seal	SP210 + Valve Part Number						
OVERALL DIMENSIONS							



Mar del		_		_			17
Model	Α	В	ن	F	5	Ι	Kg
8012-8020	41	19	85	63	15	10.5	0.47
8112-8150	41	19	88	65	15	10.5	0.66

Item	Part No	Description					
1	SP201-*	Nut					
2	SP202-*	Washer					
3	SP203-*	Nameplate					
5	WPG-*	Coil					
6	SP206-*	Gasket					
7	SP207-*	Connector					
9	SP209-*	Core Tube					
10	SP210-*	Armature Assembly					
17	SP211-*	Valve Body					
	* = Valve Part Number						



2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

> Mechanical Air Valves

Accessories Fittings, Tubing

FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors
Vent Suction
Check Valves

Pinch Proportional Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filters

Latching Bi-Stable

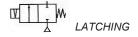
Media: slight acid – alkali - water – vacuum

Pressure range: 0 to 3.5 Bar max Media temperature: 180°C max

Ambient temperature: -10°C to +60°C max Media viscosity: 50 centistokes max

Mounting: coil upright

Opening Closing time: 150 mSec Max



### 2/2 Stainless

3/8 - 2"**LATCHING** 2 WAY ZERO RATED 0 - 3.5 Bar



YPE LADS

	PRESSURE											
Ø Port	Ø Orifice	Flow	Pressure R	Rating (Bar)	Seals	Max Media	Part Number	List				
BSP	(mm)	Kv Ltr/Min	Min	Max	Seals	Temp °C	Part Number	Price				
1/2	15	40	0	3.5	FKM EPDM NBR SILICONE	120 120 80 120	LADS15V + voltage LADS15E + voltage LADS15N + voltage LADS15S + voltage	£251.32				
3/4	20	95	0	3.5	FKM EPDM NBR SILICONE	120 120 80 120	LADS20V + voltage LADS20E + voltage LADS20N + voltage LADS20S + voltage	£281.40				
1	25	185	0	3.5	FKM EPDM NBR SILICONE	120 120 80 120	LADS25V + voltage LADS25E + voltage LADS25N + voltage LADS25S + voltage	£382.28				
11/4	35	400	0	3.5	FKM EPDM NBR SILICONE	120 120 80 120	LADS35V + voltage LADS35E + voltage LADS35N + voltage LADS35S + voltage	£642.44				
11/2	35	400	0	3.5	FKM EPDM NBR SILICONE	120 120 80 120	LADS40V + voltage LADS40E + voltage LADS40N + voltage LADS40S + voltage	£642.44				
2	50	570	0	2.5	FKM EPDM NBR SILICONE	120 120 80 120	LADS50V + voltage LADS50E + voltage LADS50N + voltage LADS50S + voltage	£1250.77				

**OPTIONS** 

IP67 UL approved Coil & IP65 LED Connector PG11 - DIN 43650 A

NPT, BSPT Thread

Manual Over Ride (Base entry T bar) \* VST, CR, ECO, HNBR or Hypalon Seals

Other custom made options available upon request

Included +10% +£105.23 +10%

	ELECTRICAL DATA										
Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Consumption	Insulation class	Enclosure	Electrical connections					
=	12 – 24 (DC)	WPG2	18 Watts	H 180°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110					
	CONSTRUCTION										

Body: 316 stainless steel (CF8M)

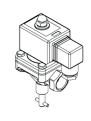
Tube and Spring: 304 Stainless Armature: 430F Stainless Other internal parts: Stainless No Shading Ring Seals and gaskets: FKM (Optional EPDM, NBR, SILICONE, VST, CR, ECO, HNBR and Hypalon)

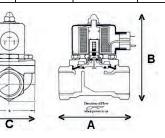
Moulded coil: Resin							
REPAIR KIT							
Diaphragm	SP + valve part number - DIAPHRAGM						
Coil	WPG2 + voltage (DC Only)						
Armature	SP + valve part number + ARMATURE						

## **OVERALL DIMENSIONS**

	8
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П	

Model	LADS15	LADS20	LADS25	LADS35/40	LADS50
Α	75	85	100	120	150
В	103	114	120	140	160
С	52	60	70	90	122
Kg	1.06	1.24	1.51	2.87	4.81





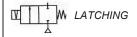
No.	Part No	Description					
1	SP201*	Nut					
2	SP202*	Washer					
3	SP203*	Nameplate					
5	WPG2*	Coil					
6	SP206*	Gasket					
7	SP207*	Connector					
8	SP208*	Core Tube					
9	SP209*	Valve Bonnet					
10	SP210*	Bolt					
11	SP211*	Bonnet O Ring					
12	SP212*	Armature Assembly					
13	SP213*	Diaphragm Base Kit					
14	SP214*	Diaphragm Base					
15	SP215*	Diaphragm					
16	SP216*	Base O Ring					
17	SP217*	Valve Body					
	* = Val	ve Part Number					

Media: water

Pressure range: 0.2 to 10 Bar max Media temperature: +90°C max Ambient temperature: +40°C max

Mounting: any position Weight (including coil): 155g

Opening / Closing Time: 25 mSec Max



## 2/2 Nylon

1/4 - 3/4 + 15mm WRAS **LATCHING** 2 WAY SERVO ASSISTED 0.2 - 10 Bar TYPE 115BB



PRESSURE										
Ø	Ø	Flow	Press	ure Rating (Bar) ∆P						
Port BSP	Orifice (mm)	Kv Ltr/ min	Min Max		Picture	Part Number	List Price			
1/4 Male	11.0	19.5	0.2	10	Ties.	3115BB - 6vDC				
1/4 Female	11.0	19.5	0.2	10		3105BB - 6vDC				
3/8 Male	11.0	27.5	0.2	10		4115BB - 6vDC				
3/8 Female	11.0	27.5	0.2	10		4105BB - 6vDC	£30.83			
1/2 Male	11.0	28.3	0.2	10		5115BB - 6vDC				
1/2 Female	11.0	28.3	0.2	10	A.	5105BB - 6vDC				
3/4 Male	11.0	28.3	0.2	10		6115BB - 6vDC				
15mm Push Fit	11.0	28.3	0.2	10	T. Company	1175BB - 6vDC	£40.68			

**OPTIONS** 

IPX0 coil

QD00582 Protective fire retardant, shock water splash proof cover

Included +£5.19

	ELECTRICAL DATA									
Voltage (-10% + 15%)		Coil	Power Consumption				Insulation class	Enclosure	Electrical	
		0011	Op	en	Cle	ose	modiation class	Liiciosare	connections	
	6vDC (50% ED)		Min	Max	Min	Max				
=	Latching Only	COIL-R6vL	4.5v	7.5v	3.0v	7.5v	Windings Class F Insulation Class II	IPX 0	Faston Tags	
	(375 mA 15mSec)		2.2 Watts			Insulation Class II		rays		

CONSTRUCTION

Body: White glass filled food grade nylon, Tube and internal parts: stainless steel + Plastic

Seals and gaskets: Buna, Moulded coil: resin

**REPAIR KIT** COIL-R-6vL

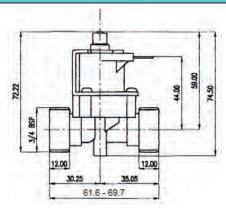
**APPROVALS** 

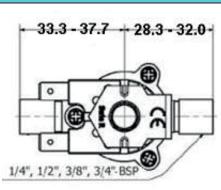
Complies with EN55014 ED. 1993

EN60730-2-8-1 Ed. 1995

WRC approved materials throughout as per cert. 7067

#### **OVERALL DIMENSIONS**





Brass 2/2 N/Closed

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed

Stainless 2/2 N/Open

Stean

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas Valves

Pressure Reducing Valves Media: slight acid – alkali – air – water Pressure range: 0.5 to 10 Bar max Media temperature: +5°C to 100°C Ambient temperature: +5°C to +60°C Media viscosity: 50 centistokes max Mounting: coil upright



**LATCHING** 

### 2/2 Delrin

3/8 – 11/2" LATCHING 2 WAY SERVO ASSISTED 0.5 – 10 Bar TYPE LPA



**PRESSURE** Pressure Rating (Bar) AP Flow Ø Ø Max Media List **Part Number** Port Orifice Seals Κv **Price** Temp. °C Min **BSP** (mm) Ltr/Min FKM LPA14V + voltage £129.29 80 3/8 70 0.5 10 **FPDM** 15 80 LPA14E + voltage £105.24 **NBR** 40 LPA14N + voltage £105.24 LPA15V + voltage FKM £129.29 80 1/2 15 70 0.5 10 **EPDM** 80 LPA15E + voltage £105.24 **NBR** LPA15N + voltage £105.24 40 LPA20V + voltage FKM £150.34 80 3/4 20 95 0.5 10 **EPDM** 80 LPA20E + voltage £135.30 **NBR** 40 LPA20N + voltage £135.30 FKM 80 LPA25V + voltage £150.34 **EPDM** LPA25E + voltage 1 25 175 0.5 10 80 £135.30 LPA25N + voltage **NBR** 40 £135.30 FKM 80 LPA35V + voltage £252.56 LPA35E + voltage 11/4 35 390 0.5 10 **EPDM** 80 £237.53 **NBR** LPA35N + voltage £237.53 40 FKM 80 LPA40V + voltage £252.56 11/2 LPA40E + voltage 35 410 0.5 10 **FPDM** £237.53 80

OPTIONS

**NBR** 

40

IP67 UL + CSA Approved coil & IP65 LED Connector PG11 - DIN 43650 A

\* VST, CR, ECO, HNBR or Hypalon Seals

Other custom made options available upon request

Included +10%

Kg

0.32

0.32

0.65

0.6

0.85

£237.53

LPA40N + voltage

	ELECTRICAL DATA									
Voltage (-10% + 10%) Continuous duty 100%			Coil	Power Consumption	Insulation class	Electrical connections				
	=	12 - 24 (DC)	WPG1	12 Watts	H 180°C	IP 65 with connector	3 Spades DIN 43650 DIN 40050 VDE 0110			

CONSTRUCTION

Body: Poly-acetate

Tube and Spring: 304 Stainless Armature: 430F Stainless Other internal parts: Stainless No Shading Ring

Moulded coil: Resin

 REPAIR KIT

 Diaphragm
 SP213 + Valve Part number

 Coil
 WPG1 + voltage (DC Only)

 OVERALL DIMENSIONS

Model

LPA14

LPA15

LPA20

LPA25

LPA35

LPA40

В

48

48

90

90

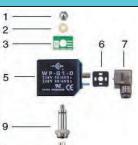
120

73.5

104

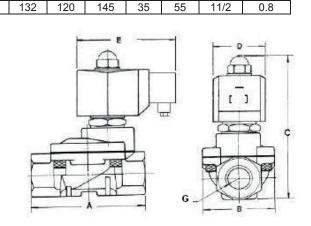
104

132



5	N.C.
9 —	_\$
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11-	- 12 T - 12
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No	Reference	Description				
1	SP201-*	Nut				
2.	SP202-*	Washer				
3.	SP203-*	Name Plate				
5.	WPG1	Coil				
6	SP206-*	Gasket				
7.	SP207-*	Connector				
9.	SP209-*	Core Tube				
10.	SP201-*	Armature				
11.	SP211-*	Valve Bonnet				
12.	SP212-*	Bolts				
13.	SP213-*	Name Plate Coil Gasket Connector Core Tube Armature Valve Bonnet				
14.	SP214-*	Valve Body				
		<u>-</u>				



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35

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55

55

3/8

1/2

3/4

11/4

105

105

124

124

145

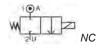
Media: mains gas - air

Pressure range: 0 to 200 mBar max Media temperature: 60°C max Ambient temperature: -15°C to +60°C

Mounting: coil upright

Opening - Closing Time: 1 Sec Max

EN161 Gas Approved



### EN161 Gas Valves

1/2 - 2" DN50 - DN150 NORMALLY CLOSED Slam Shut Safety Valves 0 – 200mBar



TYPE VMR

	PRESSURE								
Ø	Ø Orifice	Power Cor	nsumption	Pressure R	ating (mBar)	Part Number	List		
Port	(mm)	Inrush	Hold	Min	Max mBar	Part Number	Price		
1/2	10	1	6	0	200	VMR120TN + 230vAC	£66.84		
3/4	20	2	5	0	200	VMR22 + 230vAC	£169.48		
1	25	4	5	0	200	VMR32 + 230vAC	£179.03		
11/4	32	120	30	0	200	VMR352 + 230vAC	£250.64		
11/2	40	120	30	0	200	VMR42 + 230vAC	£255.41		
2	50	120	30	0	200	VMR62 + 230vAC	£338.96		
DN65	65	180	45	0	200	VMR72 + 230vAC	£742.36		
DN80	80	180	45	0	200	VMR82 + 230vAC	£840.22		
DN100	100	280	70	0	200	VMR92 + 230vAC	£1627.93		
DN125	125	320	80	0	200	VMR932 + 230vAC	£3162.78		
DN150	150	320	80	0	200	VMR952 + 230vAC	£3329.87		

#### **OPTIONS**

IP54 Coil & Connector PG9 - DIN 43650 A & Flow Adjustment, Metal mesh filter

Closed Position Indicator (KO1)

110vAC, 24vAC/DC or 12vAC/DC

360mBar (DN65-DN150), 500mBar (3/8-2") or 6 Bar (3/8 to DN100) AC 230-110vAC only

ATEX, Biogas or Coke Gas corrosive gases

Included +£93.09 +10% +10%

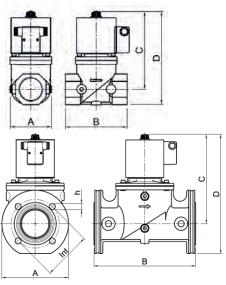
**TBA** 

## CONSTRUCTION

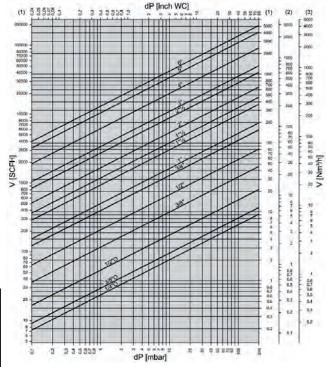
Body: Aluminium, (Except VMR120TN - Brass), Tube and internal parts: Stainless steel

Seals and gaskets: NBR Moulded coil: Resin

#### **DIMENSIONS**



	,		,				•	
Model	Α	В	С	D	Depth	Int	Holes	Kg
VMR120TN	58	30	95	110	30			0.4
VMR22	96	46	150	164	88			2.5
VMR32	96	46	150	164	88			2.5
VMR352	153	65	188	220	120			5.7
VMR42	153	65	188	220	120			5.7
VMR62	156	77	192	230	106			6
VMR72	305	190	266	355	200	145	4X18	14
VMR82	305	190	266	355	200	160	8X18	14
VMR92	350	220	352	492	252	180	8X18	36
VMR932	460	250	430	600	310	210	8X18	58
VMR952	460	285	430	600	310	240	8X22	60



Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

Stainless 2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

2/2 N/Open

Stean

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas Valves

Pressure Reducing Valves Media: mains gas –air – coke/bio gas
Pressure range: 0 to 1.6 Bar max
Media temperature: 60°C max

EN161 Gas Valves

DN65 – DN300 NORMALLY CLOSED Electro Hydraulic 0 – 1600 mBar



TYPE VMH

	PRESSURE									
Ø Port	Ø Opening Orifice Time		Flow Kvs	Max	Pressure Ra	ating (mBar)	Part Number	List		
PN16	(mm)	Seconds	m³/hr	Cycles per hour	Min	Max mBar	Fait Number	Price		
DN65	65	10-15	83	60	0	1600	VMH7 + 230vAC	£1969.28		
DN80	80	10-15	92	60	0	1600	VMH8 + 230vAC	£2064.76		
DN100	100	15-25	152	40	0	1300	VMH9 + 230vAC	£2532.61		
DN125	125	25-40	250	30	0	500	VMH93 + 230vAC	£3771.46		
DN150	150	25-40	315	30	0	500	VMH95 + 230vAC	£4034.03		
DN200	200	35-50	476	20	0	200	VMH98 + 230vAC	£8688.68		
DN250	250	40-60	660	15	0	1300	VMH910 + 230vAC	£11911.13		
DN300	300	45-75	970	15	0	1300	VMH912 + 230vAC	£13605.90		

mesh Flow rate adjustment (VMH7 & 8 DN65 to DN

IP65 Coil & Connector PG9 – DIN 43650 A, Filter 600μ metal mesh, Flow rate adjustment (VMH7 & 8 DN65 to DN80) PCS (closed position indicator switch)

110 v 50/60 Hz

Higher pressure options VMH93U, 95U, 98U 1.3 Bar, 1300mBar

K Version for Coke and Bio Gas, ATEX Version for Hazardous Area

Included Included +10% +10% TBA

CONSTRUCTION

Body: Aluminium

Internal parts: Stainless steel, plated steel, Brass, anaerobic adhesive

Seals and gaskets: NBR, FPM and PTFE

Ambient temperature: -15°C to +60°C

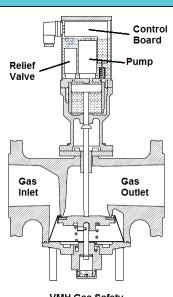
Power: Inrush 110VA, Holding 20VA

Mounting: upright

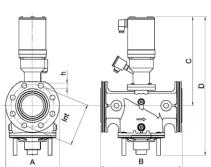
Opening Time: 50 Sec Max Closing Time: <1 Second

EN161 Gas Class A Approved

#### **DIMENSIONS**



VMH Gas Safety Shut Off Valve



		" V	[Nm³/h]
	Gas flow chart	Natural gas Town gas	
dP [mmH O]	(Pressure drop)	atru	LPG Alr
- 2 6 4 9 9 0 0 00 00 00 00 00 00 00 00 00 00 0	40 40 40 40 40 40 40 40 40 40 40 40 40 4	ž ř	
		-20000	-20000
		-2000	
		-10000	- 8000 - 7000 - 6000 - 8000
		8000 -1000	
		- 6000 - 700	5000
		- 5000 - 600 - 4000 - 500	0 3000
		3000 - 400	0   2000
		- 2000	0 - 2000
		- 200	
		- 1000	800 700 - 1000 600 - 800
		800 - 100	0 - 500 - 700
		- 600 - 70	500
		- 500 - 60 - 400 - 50	n
DN 300		- 300 - 40	0 - 200 - 300
DN 250		- 30	0 - 200
DN 200		- 200	
DN 150			80 70 60 80
DN 125		- 100 - 80 - 10	
211400		- 70 - 8 - 60 - 7	0 - 40 - 50
DN 100		- 50 - 6 - 40 - 5	n
DN 80		30 - 4	
DN 65		- 3	0 - 20
		- 20 - 2	0 - 10
0.1 0.3 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	4 10 10 10 10 10 10 10 10 10 10 10 10 10		
dF	[mbar]		

Model	Α	В	С	D	Int	h	Kg
VMH7	200	305	350	536	145	4x18	14
VMH8	200	305	350	536	160	8x18	14
VMH9	252	350	365	572	180	8x18	18
VMH93	310	460	461	671	210	8x18	34
VMH95	310	460	461	671	240	8x23	36
VMH98	370	546	494	740	295	12x23	52
VMH910	405	600	560	852	355	12x28	59
VMH912	460	700	596	923	410	12x28	106

European Approval: Gas EN161 Class A + (2009/142/CE), PED (97/23/CE), Electromagnetic (2004/108/EC), Low Voltage (2006/95/EC)

Media: Natural Gas: Gas: Air Pressure range: 0 to 600 mBar max Media temperature: -10 °C +90°C max Ambient temperature: -15° to +60°C Media viscosity: 50 centistokes max

Mounting: any position Closing time <1 sec EN161 Approved

### EN161 Gas Valves

3/8 - 2"BSP DN65 - DN300 MANUAL RESET 0 - 600 mBar



### TYPE EVRMNC

	PRESSURE								
Ø Port BSP/ PN16	Weight Kg	Watts 230vAC	Flow Kvs M³/Hr	Pressu Min	re Rating Max (mBar)	Part Number	List Price		
1/2	0.9	12	1.3	0	600	EVRMNCA1 + 230vac	£121.74		
3/4	1.1	12	2.0	0	600	EVRMNCA2 + 230vac	£138.45		
1	1.1	12	4.5	0	600	EVRMNCA3 + 230vac	£143.22		
11/4	2.0	12	20 0 600		600	EVRMNCA35 + 230vac £2			
11/2	2.0	12	26	0	600	EVRMNCA4 + 230vac	£226.77		
2	2.3	12	40	0	600	EVRMNCA6 + 230vac	£286.44		
DN65	7.6	12	63	0	600	EVRMNCA7 + 230vac	£1002.54		
DN80	7.6	12	80	0	600	EVRMNCA8 + 230vac	£1098.02		
DN100	17	35	148	0	600	EVRMNCA9 + 230vac	£1456.07		
DN125	29	35	250	0	600	EVRMNCA93 + 230vac	£2618.54		
DN150	31	35	315	0	600	EVRMNCA95 + 230vac	£2900.21		
DN200	46	35	516	0	600	EVRMCNA98 + 230vac	£4929.16		
DN250	72	35	660	0	600	EVRMNCA100 + 230vac	£7340.03		
DN300	99	35	1120	0	600	EVRMNCA102 + 230vac	£8056.13		

**OPTIONS** 

IP65 Coil & Connector PG9 - DIN 43650 A, 600µ metal mesh filter

Manual reset (valve stays open when energised - closes on power failure will need to manually reset open with power on to open) Closed position indicator (CPI Switch)
Voltages D 12vAC/DC; C 24vAC/DC; B 110vAC

6 Bar (90 psig) EVRM6NC

J series for biogas, ATEX tc IIIC T135C Dc Zones 2 & 22

Included Included +£93.09 +10% +10% **TBA** 

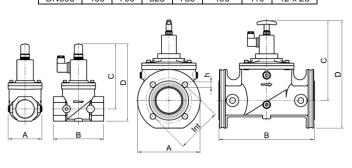
**ELECTRICAL DATA** Voltage (-15% + 10%) Continuous duty 100% **Electrical connections** Insulation class **Enclosure** 3 spades 12 - 24 - 110 - 230 (50 or 60 Hz) IP 65 with DIN 43650 H 180°C DIN 40050 connector = 12 - 24 (DC) VDE0110

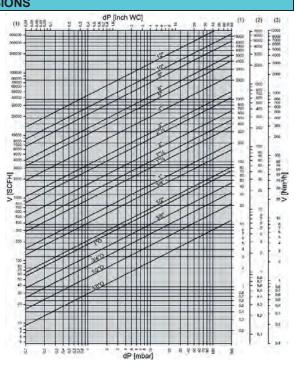
CONSTRUCTION Body: BSP 3/8-1" Brass, BSP 11/4 and PN16 flange DN65 to DN300 Aluminium Tube and internal parts: Stainless steel, Seals and gaskets: NBR (EN459)

Moulded coil: Resin

#### **OVERALL DIMENSIONS**

	Α	В	С	D	Depth	Int	Holes
1/2	70	77	148	164	70		
3/4	85	96	158	180	85		
1	85	96	158	180	85		
11/4	120	153	188	220	120		
11/2	120	153	188	220	120		
2	106	156	192	230	106		
DN65	200	305	262	352	200	145	4 x 18
DN80	200	305	262	352	200	160	8 x 18
DN100	252	350	305	435	252	180	8 x 18
DN125	310	460	370	540	310	210	8 x 18
DN150	310	460	370	540	310	240	8 x 23
DN200	370	546	425	635	370	295	12 x 23
DN250	405	600	485	712	432	355	12 x 28
DN300	460	700	523	786	496	410	12 x 28





Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

2/2 N/Open

Stoon

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas

Pressure Reducing Valves Media: air – fluid – oil - water Pressure: Inlet 12 Bar max Pressure: Outlet 1 to 5 Bar max Media temperature: -15°C to +80°C max Media viscosity: 40 centistokes max

Mounting: any position

1/2 – 21/2
Bronze, Stainless & Titanium
2 WAY DIRECT ACTING
12 – 1 Bar

Pressure Reducing Valve

TYPE RDT,B, S & T



Included

PRESSURE								
Ø Port	Flow	Pressure Range (Bar)	Body	Seal	Part Number		List Price	
BSP	Cv m³/Hr	Inlet 12 Bar Max	Material	Seai	Fait Nulliber		LIST PITCE	
1/2	2.5			NBR	RDT15B + Pressure Range		£57.12	
3/4	4			NBR	RDT20B + Pressure Range		£69.16	
1	6.5			NBR	RDT25B + Pressure Range		£75.163	
11/4	10		Bronze	NBR	RDT32B + Pressure Range		£105.24	
11/2	13	Outlet Adjustment		NBR	RDT40B + Pressure Range		£186.42	
2	17	Range Options		NBR	RDT50B + Pressure Range		£210.46	
21/2	28	(1 – 3 Bar)	(1 – 3 Bar) NBR RDT65B +		RDT65B + Pressure Range	+ Pressure Range		
1/2	2.5	(2 – 5 Bar)		NBR	RDT15S + Pressure Range		£147.32	
3/4	4	(4 – 9 Bar)	NBR RDT20S + Pressure Range			£189.42		
1	6.5		Stainless Steel	NBR	RDT25S + Pressure Range		£231.52	
11/4	10		304	NBR	RDT32S + Pressure Range		£258.58	
11/2	13		001	NBR	RDT40S + Pressure Range		£342.76	
2	17			NBR	RDT50S + Pressure Range		£399.88	
		Inlet 16 Bar Max			Spring Cover Material→	316 Stainless	Titanium	
1/2	2.0			Viton	RDT15T + cover + pressure range	£1145.54	£1428.16	
3/4	4.0	Outlet Adjustment		Viton	RDT20T + cover + pressure range	£1362.02	£1641.64	
1	6.0	Range Options	Titanium	Viton	RDT25T + cover + pressure range	£1593.54	£1873.16	
11/4 10.0 (1 – 6 Bar) (4 – 10 Bar)			Viton	RDT32T + cover + pressure range	£1912.24	£2191.86		
11/2				Viton	RDT40T + cover + pressure range £2931.50		£3211.12	
2	17.0			Viton	RDT50T + cover + pressure range	£3698.20	£3977.82	
				OPTIONS	3			

Pressure Gauge

Seals: Bronze & stainless steel models NBR (option EPDM or Viton), Titanium model Viton (optional NBR or EPDM) Other custom made options and pressure ranges available upon request

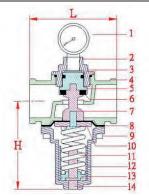
CONSTRUCTION

See below

Test Pressure 21 Bar Bronze + Stainless steel, Titanium 24 Bar

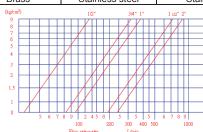
#### **OVERALL DIMENSIONS**

Direct Acting Pressure Reducing Valve Bronze, Stainless or Titanium body and can be used for fluid, air or water. Pressure reducing valve gate utilises balance pressure system that will not influence outlet pressure regardless of inlet pressure changes. The combination of diaphragm and piston allows the valve to respond quickly and accurately whilst minimising leakage and maintaining accurate outlet pressures.



No	Part		Material	
	Model	RDTB Bronze	RDTS Stainless	RDTT Titanium
1	Gauge	Steel	Stainless steel	Stainless steel
2	Upper cover	Bronze	Stainless steel	Titanium
3	O Ring	NBR	NBR	Viton
4	Body	Bronze	Stainless steel	Titanium
5	Piston	Bronze	Stainless steel	Titanium
6	Sealing	NBR	NBR	Viton / PTFE
7	Shaft	Stainless steel	Stainless steel	Titanium
8	Diaphragm	NBR	NBR	CR Rubber
9	Fixed bolt	304 stainless	Stainless steel	Titanium
10	Diaphragm washer	Electro	olated iron	Stainless steel 304
11	Spring	Sprir	ng steel	Spring Steel
12	Spring cover	Polya	mide 66	Titanium or 316 Stainless
13	Spring washer	Brass	Stainless steel	Stainless steel 304
14	Adjusting bolt	Brass	Stainless steel	Stainless steel 304

Model	Port	Н	L
Model	1 011	(mm)	(mm)
RDT15	1/2	70	60
RDT20	3/4	70	70
RDT25	1	80	80
RDT32	11/4	85	90
RDT40	11/2	110	110
RDT50	2	115	115



Media: air – water

Pressure: Inlet 25 Bar max

Pressure: (1 - 5), (4 - 10) or (8 - 13) Bar Media temperature: -15 ℃ to +80 ℃ max Media viscosity: 40 centistokes max

Mounting: any position

## Pressure Reducing Valve

1/2 – 2" & DN15-DN150 STAINLESS STEEL DIRECT ACTING (1 – 5), (4 – 10) or (8 – 13) Bar



TYPE RET + REF

PRESSURE						
Ø Port BSP	Flow Cv	Max Inlet (Bar)	Part Number Outlet Adjustment Range Options (1 – 5), (4 – 10) or (8 – 13) Bar	List I Seals NBR	Price Seals Viton	
1/2	2.5	25	RET15S + seal + pressure range	£240.54	£285.64	
3/4	4.0	25	RET20S + seal + pressure range	£255.56	£300.66	
1	6.5	25	RET25S + seal + pressure range	£288.64	£327.72	
11/2	13.0	25	RET40S + seal + pressure range	£505.12	£595.32	
2	17.0	25	RET50S + seal + pressure range	£541.20	£661.46	
Ø Port PN16 Flange						
DN15	2.5	25	REF15S + seal + pressure range	£420.94	£466.04	
DN20	4.0	25	REF20S + seal + pressure range	£448.00	£502.12	
DN25	6.5	25	REF25S + seal + pressure range	£475.06	£544.20	
DN32	13.0	25	REF32S + seal + pressure range	£676.50	£739.64	
DN40	13.0	25	REF40S + seal + pressure range	£691.54	£781.74	
DN50	17.0	25	REF50S + seal + pressure range	£772.72	£892.98	
DN65	30.0	25	REF65S + seal + pressure range	£1713.80	£1894.20	
DN80	42.0	25	REF80S + seal + pressure range	£1864.14	£1924.26	
DN100	75.0	25	REF100S + seal + pressure range	£2429.38	£2549.66	
DN150	170.0	25	REF150S + seal + pressure range	£5099.30	£5249.64	
OPTIONS						

OPTIONS

Pressure Gauge (displays outlet pressure)

Optional NPT or Rc thread or ANSI150Lb or JIS10K flange

Other custom made PTFE or other seal, media and pressure options available upon request

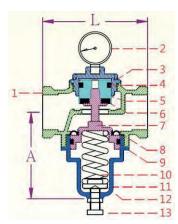
Included +10%

#### CONSTRUCTION

RET Pressure adjustment screw ½ to 1" is external, 11/2 and 2" is internal, Test Pressure 35 Bar

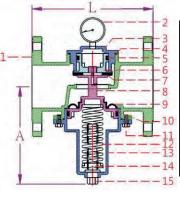
#### **OVERALL DIMENSIONS**

No	Part	Material
1	Main Body	316 Stainless Steel
2	Pressure Gauge	Stainless Steel
3	Upper Cover	316 Stainless Steel
4	U Ring	NBR or Viton
5	Piston	316 Stainless Steel
6	Sealing Spacer	NBR or Viton
7	Shaft	316 Stainless Steel
8	Diaphragm	NBR or Viton
9	UH Ring	NBR or Viton
10	Spring	Spring Steel
11	Lower Cover	316 Stainless Steel
12	Washer	Brass
13	Adjusting Stem	304 Stainless steel



Model	Port	L (mm)	A (mm)
RET15S	1/2	71	75
RET20S	3/4	86	75
RET25S	1	90	81
RET40S	11/2	115	115
RET50S	2	120	115

No	Part	Material
1	Main Body	316 Stainless Steel
2	Pressure Gauge	Stainless steel
3	Upper Cover	316 Stainless Steel
4	O Ring	NBR or Viton
5	U Ring	NBR or Viton
6	Piston	316 Stainless Steel
7	Sealing Spacer	NBR or Viton
8	Shaft	316 Stainless Steel
9	Diaphragm	NBR or Viton
10	UH Ring	NBR or Viton
11	Bolt	304 Stainless Steel
12	Spring	Steel
13	Cover	316 Stainless Steel
14	Washer	Brass
15	Stem	304 Stainless Steel



Model	Port	L	Α
Wodei	POIL	mm)	(mm)
REF15S	DN15	150	75
REF20S	DN20	150	82
REF25S	DN25	150	82
REF32S	DN32	190	115
REF40S	DN40	190	115
REF50S	DN50	192	115
REF65S	DN65	210	185
REF80S	DN80	225	185
REF100S	DN100	250	230
REF150S	DN150	310	290

2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanica Air Valves

Accessorie Fittings, Tubing

> FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors Vent Suction Check Valves

Pinch Proportiona Sub Base

Timers, Coils & Connectors

Magnets & Y Filters

12

13

14

Lower cover

Washer

Adjusting stem

Pressure Reducing Valves Media: air – water

Pressure: Inlet 10 Bar max Pressure: Outlet 0.2 to 1.5 Bar Media temperature: -15°C to +80°C max Ambient temperature: +80°C max Media viscosity: 40 centistokes max Mounting: Gauge upright, stem down

## Low Pressure Reducing Valve 1/2 - 2" DN15-50 316 STAINLESS STEEL DIRECT ACTING 0.2 - 1.5 Bar



### TYPE RELT / RELF

	PRESSURE						
Ø	F1		Pressure Rating (Bar)			List Price	
Port	<b>Flow</b> Cv	Max Inlet	Adjustable Pressure Reducing Range		Part Number	Seals	Seals
BSP	0.	(Bar)	Minimum	Maximum		NBR	Viton
1/2	1.44	10	0.2	1.5	RELT15S + seal	£369.82	£414.92
3/4	5.38	10	0.2	1.5	RELT20S + seal	£384.85	£429.95
1	6.58	10	0.2	1.5	RELT25S + seal	£416.45	£457.01
11/2	12.57	10	0.2	1.5	RELT40S + seal	£694.54	£784.74
2	14.96	10	0.2	1.5	RELT50S + seal	£730.62	£850.88
			Ø Port	Flange PN16			
DN15	1.44	10	0.2	1.5	RELF15S + seal	£550.22	£595.32
DN20	5.38	10	0.2	1.5	RELF20S + seal	£577.28	£631.40
DN25	6.58	10	0.2	1.5	RELF25S + seal	£604.34	£673.49
DN32	12.57	10	0.2	1.5	RELF32S + seal	£805.78	£868.92
DN40	12.57	10	0.2	1.5	RELF40S + seal	£880.96	£971.16
DN50	14.96	10	0.2	1.5	RELF50S + seal	£962.14	£1082.40

**OPTIONS** 

Pressure Gauge (316 Stainless steel) displays outlet pressure NPT or Rc thread, ANSI150Lb or JIS10K flange

Other custom made seal, media and pressure options available upon request

Included +10%

Kg

1.3

1.5

1.6

3

4

D

105

105

105

145

145

CONSTRUCTION

Body, Piston & shaft: 316 stainless steel, Seals: NBR or Viton, Spring: steel, Fixing bolts and adjusting stem: 304 stainless steel Test Pressure: 16 Bar

#### **OVERALL DIMENSIONS**

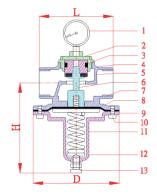
NO	Part Name	Material
1	Gauge	Stainless Steel
2	Upper cover	Stainless Steel 316
3	U-Ring	Viton or EPDM
4	Piston	Stainless Steel 316
5	Sealing spacer	NBR or Viton
6	Shaft	Stainless Steel 316
7	Main body	Stainless Steel 316
8	Diaphragm	NBR or Viton
9	Lower cover	Stainless Steel 316
10	Fixed bolt	Stainless Steel 304
11	Spring	Spring steel
12	Washer	Brass
13	Adjusting stem	Stainless Steel 304

12	Washer	Brass	
13	Adjusting stem	Stainless Steel 304	٦
			_
NO	Part Name	Material	
1	Main Body	Stainless Steel 316	
2	Gauge	Stainless Steel	1
3	Upper cover	Stainless Steel 316	
4	U-Ring	Viton or EPDM	
5	Piston	Stainless Steel 316	
6	Sealing spacer	NBR or Viton	
7	Shaft	Stainless Steel 316	
8	Diaphragm disc	Stainless Steel 316	
9	Diaphragm	NBR or Viton	
10	Fixed bolt	Stainless Steel 304	
11	Spring	Spring steel	

Stainless Steel 316

Brass

Stainless Steel 304



2					
3	Part No:	Port	H mm	L mm	Kg
1	RELF15	DN15	110	150	2.5
5	RELF20	DN20	125	150	3.5
2	RELF25	DN25	125	150	5.6
2	RELF40	DN40	155	190	8.7
9	RELF50	DN50	155	190	13.5

Н

mm

110

125

125

155

155

mm

70

85

90

115

120

Port

1/2

3/4

1

11/2

2

Part No:

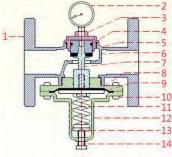
RELT15

RELT20

RELT25

RELT40

RELT50



Pressure: Inlet 10 Bar max Pressure range: 0.03 to 0.15 Bar Media temp: -15 ℃ to +80 °C max Ambient temperature: +80°C max Mount: Gauge upright, stem down

### Micro Pressure Reducing Valve

1/2 - 2" or DN15 - DN50 316 STAINLESS STEEL **DIRECT ACTING** 0.03 - 0.15 Bar



### TYPE REMT + REMF

			PRESSURE				
Flow		Pressure Rating (F	Bar)		List	List Price	
Cv	Max Inlet		<u> </u>	Part Number	Seals	Seals	
	(Bar)	Minimum	Maximum		NBR	FKM	
2.4	10	0.03	0.15	REMT15S + seal	£2245.98	£2291.08	
9.0	10	0.03	0.15	REMT20S + seal	£2261.01	£2306.12	
11.0	10	0.03	0.15	REMT25S + seal	£2294.08	£2333.18	
21.0	10	0.03	0.15	REMT40S + seal	£2510.56	£2600.76	
25.0	10	0.03	0.15	REMT50S + seal	£2546.64	£2666.92	
N16 Flange							
2.4	10	0.03	0.15	REMF15S + seal	£2426.38	£2471.48	
9.0	10	0.03	0.15	REMF20S + seal	£2453.44	£2507.56	
11.0	10	0.03	0.15	REMF25S + seal	£2480.50	£2549.66	
21.0	10	0.03	0.15	REMF32S + seal	£2681.94	£2745.08	
21.0	10	0.03	0.15	REMF40S + seal	£2696.98	£2787.18	
25.0	10	0.03	0.15	REMF50S + seal	£2778.16	£2898.42	
	2.4 9.0 11.0 25.0 N16 Flange 2.4 9.0 11.0 21.0 21.0	Cv         Max Inlet (Bar)           2.4         10           9.0         10           11.0         10           21.0         10           25.0         10           N16 Flange         2.4         10           9.0         10           11.0         10           21.0         10           21.0         10	Flow Cv         Pressure Rating (I Max Inlet (Bar))         Adjustable Pressure R Minimum           2.4         10         0.03           9.0         10         0.03           11.0         10         0.03           21.0         10         0.03           25.0         10         0.03           N16 Flange         2.4         10         0.03           9.0         10         0.03           11.0         10         0.03           21.0         10         0.03           21.0         10         0.03	Cv         Max Inlet (Bar)         Adjustable Pressure Reducing Range (Bar)           Minimum         Maximum           2.4         10         0.03         0.15           9.0         10         0.03         0.15           11.0         10         0.03         0.15           21.0         10         0.03         0.15           25.0         10         0.03         0.15           N16 Flange           2.4         10         0.03         0.15           9.0         10         0.03         0.15           11.0         10         0.03         0.15           21.0         10         0.03         0.15           21.0         10         0.03         0.15           21.0         10         0.03         0.15	Flow Cv         Pressure Rating (Bar)         Part Number           Max Inlet (Bar)         Adjustable Pressure Reducing Range (Bar)         Part Number           2.4         10         0.03         0.15         REMT15S + seal           9.0         10         0.03         0.15         REMT20S + seal           11.0         10         0.03         0.15         REMT25S + seal           21.0         10         0.03         0.15         REMT40S + seal           25.0         10         0.03         0.15         REMT50S + seal           N16 Flange         2.4         10         0.03         0.15         REMF15S + seal           9.0         10         0.03         0.15         REMF20S + seal           11.0         10         0.03         0.15         REMF25S + seal           21.0         10         0.03         0.15         REMF25S + seal           21.0         10         0.03         0.15         REMF32S + seal           21.0         10         0.03         0.15         REMF40S + seal	Flow CV         Pressure Rating (Bar)         List           Max Inlet (Bar)         Adjustable Pressure Reducing Range (Bar)         Part Number         Seals NBR           2.4         10         0.03         0.15         REMT15S + seal         £2245.98           9.0         10         0.03         0.15         REMT20S + seal         £2261.01           11.0         10         0.03         0.15         REMT25S + seal         £2294.08           21.0         10         0.03         0.15         REMT40S + seal         £2510.56           25.0         10         0.03         0.15         REMT50S + seal         £2546.64           N16 Flange           2.4         10         0.03         0.15         REMF15S + seal         £2426.38           9.0         10         0.03         0.15         REMF20S + seal         £2453.44           11.0         10         0.03         0.15         REMF25S + seal         £2480.50           21.0         10         0.03         0.15         REMF32S + seal         £2681.94           21.0         10         0.03         0.15         REMF40S + seal         £2696.98	

OPTIONS

Pressure Gauge (316 Stainless steel)

Other ANSI150Lb, JIS10K flange or NPT and Rc thread options

Other custom made media, pressure and seal options available upon request

Included +10%

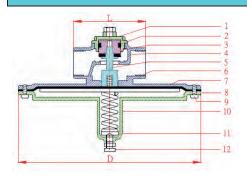
### CONSTRUCTION

Body, Piston & shaft: 316 stainless steel Seals: NBR or FKM, Diaphragm Nylon /EPDM

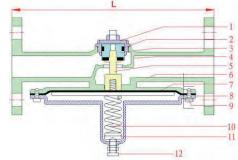
Spring: steel

Fixing bolts and adjusting stem: 304 stainless steel

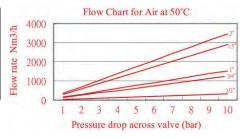
Body Test Pressure: 16 Bar



Part No:	Port	L mm	D
REMT15	1/2	70	310
REMT20	3/4	85	310
REMT25	1	90	310
REMT40	11/2	115	310
REMT50	2	120	310
REMF15	DN15	420	
REMF20	DN20	420	
REMF25	DN25	420	
REMF40	DN40	420	
REMF50	DN50	420	



No	Part	Material	No	Part	Material
1	Cover	Stainless steel 316	7	Diaphragm	Nylon - EPDM
2	U Ring	NBR or FKM	8	Spring cover	Stainless steel 316
3	Piston	Stainless steel 316	9	Stem	Stainless steel 304
4	Sealing	NBR or FKM	10	Spring	Spring steel
5	Shaft	Stainless steel 316	11	Washer	Brass
6	Main body	Stainless steel 316	12	Stem	Stainless steel 304



Brass 2/2 V/Closed 0 Rated

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed

> Stainless 2/2 N/Open

> > Steam

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas

Pressure Reducing Valves Media: Water

Pressure Rating: 20 Bar Max
Pressure: (0.2 – 4), (2 - 8) or (4 - 12)Bar
Media temperature: -15°C +80°C max
Media viscosity: 50 centistokes max
Mounting: any position

## Pressure Reducing Valve

DN50 – DN300 Ductile Iron Epoxy Coated PILOT ASSISTED (0.2 - 4), (2 - 8) or (4 - 12) Bar



Included

Included

Included

+10%

TYPE BFR-DE

	PRESSURE				
Ø Port PN16	Ø Orifice (mm)	Flow Cv	Max Inlet Pressure (Bar)	Part Number Pressure Reducing Adjustment Range Options: $(0.2-4)$ , $(2-8)$ or $(4-12)$ Bar	List Price
DN50	50	37	20	BFR50DE + pressure range	£444.98
DN65	65	85	20	BFR65DE + pressure range	£616.36
DN80	80	110	20	BFR80DE + pressure range	£802.78
DN100	100	150	20	BFR100DE + pressure range	£974.16
DN125	125	230	20	BFR125DE + pressure range	£1515.36
DN150	150	450	20	BFR150DE + pressure range	£2077.60
DN200	200	580	20	BFR200DE + pressure range	£4982.04
DN250	250	910	20	BFR250DE + pressure range	£9870.88
DN300	300	1300	20	BFR300DE + pressure range	£12928.66
DN350	350	1800	20	BFR350DE + pressure range	POA
DN400	400	2300	20	BFR400DE + pressure range	POA

**OPTIONS** 

Pressure Regulator PRV controller Brass

Pressure gauge (Displays outlet Pressure)

Pressure adjusting range (0.2 to 4 Bar), (2 to 8 Bar) or (4 to 12 Bar) Other flange options JIS10K, ANSI150Lb, JIS20K, PN10, PN20

Other flange options JIS10K, ANSI150Lb, JIS20K, PN10, PN20

Other custom made sizes (up to 56" DN1400), higher pressures and other media and seal options available upon request

REPAIR KIT

Piston U Ring

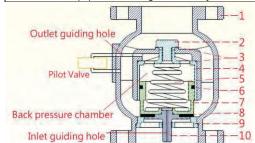
Pressure Reducing Controller

SP + Valve Part Number + U RING

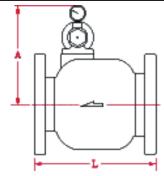
BFRB + pressure range

### **OVERALL DIMENSIONS**

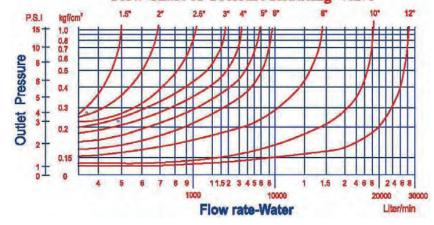
Pressure reducing valve will reduce and maintain a stable set outlet pressure regardless of inlet pressure changes to prevent pipeline and equipment damage caused by accidental over pressure. Outlet pressure is displayed by external pressure gauge.



No	Description	Material
1	Main body	Ductile Iron
2	Cylinder bolt	Ductile Iron
3	O-Ring	NBR
4	Cylinder	Bronze
5	Spring	304 Stainless
6	U- ring	NBR
7	Piston	Bronze
8	Sealing	NBR
9	Seat	Bronze
10	Shaft	Bronze



### Flow Chart of Pressure Reducing Valve



Item	Kg	Dimensions (mm)		
		L	Α	
BFR50	12	190	130	
BFR65	15	212	140	
BFR80	18	225	155	
BFR100	24	250	165	
BFR125	32	284	180	
BFR150	44	310	215	
BFR200	87	420	235	
BFR250	152	470	280	
BFR300	202	535	310	
BFR350		600	350	
BFR400		600	355	

Pressure Rating: 20 Bar Max

Pressure: (0.2 - 4), (2 - 8) or (4 - 12) Bar Media temperature: -15°C +80°C max Media viscosity: 50 centistokes max

Mounting: any position

## Pressure Reducing Valve

DN50 – DN300 Stainless Steel 304 or 316 PILOT ASSISTED (0.2 – 4), (2 – 8) or (4 – 12) Bar TYPE BFR-S





O	D		0	0	П	D	
-	$\boldsymbol{\kappa}$	ᆮ	O	O	u	1	

TREGOORE						
Elow		Max Inlet	Part Number	List Price		
Port PN16	Orifice (mm)	Cv	Pressure (Bar)	Pressure Reducing Adjustment Range Options: $(0.2-4)$ , $(2-8)$ or $(4-12)$ Bar	304 Stainless	316 Stainless
DN50	50	37	20	BFR50 + body material + pressure range	£1239.23	£1416.44
DN65	65	85	20	BFR65 + body material + pressure range	£1482.28	£1731.84
DN80	80	110	20	BFR80 + body material + pressure range	£1849.10	£2086.62
DN100	100	150	20	BFR100 + body material + pressure range	£2411.34	£2772.14
DN125	125	230	20	BFR125 + body material + pressure range	£3361.46	£3896.64
DN150	150	450	20	BFR150 + body material + pressure range	£4519.02	£5192.52
DN200	200	580	20	BFR200 + body material + pressure range	£9017.00	£10370.00
DN250	250	910	20	BFR250 + body material + pressure range	£16512.62	£18993.12
DN300	300	1300	20	BFR300 + body material + pressure range	£20018.38	£23001.00

#### **OPTIONS**

Pressure Regulator PRV Controller Stainless steel

Pressure gauge (Displays outlet Pressure)

Pressure adjusting range (0.2 to 4 Bar) or (2 to 8 Bar) or (4 to 12 Bar)

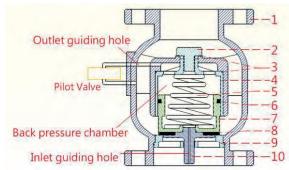
Other flange options ANSI150Lb, JIS10K, JIS20K, PN10, PN20

Other custom made sizes (up to 56" DN1400), higher pressures and other media (acid- alkali – oil) options available upon request

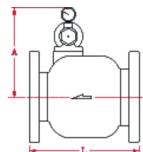
Included Included Included +10%

REPAIR KIT				
Piston U Ring	SP + Valve Part Number + U RING			
Pressure Reducing Controller BFRS + pressure range				
OVERALL DIMENSIONS				

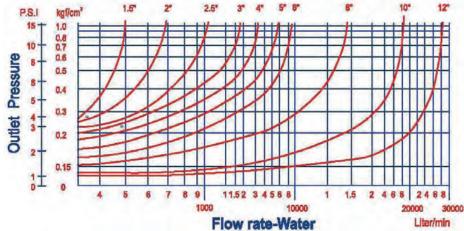
Pressure reducing valve will reduce and maintain a stable set outlet pressure regardless of inlet pressure changes to prevent pipeline and equipment damage caused by accidental over pressure. Outlet pressure is displayed by external pressure gauge.



No	Description	Material
1	Main body	Stainless Steel
2	Cylinder bolt	Stainless Steel
3	O-Ring	NBR
4	Cylinder	Stainless Steel
5	Spring	304 Stainless
6	U- ring	NBR
7	Piston	Stainless Steel
8	Sealing	NBR
9	Seat	Stainless Steel
10	Shaft	Stainless Steel



Flow	Chart of	Pressure	Reducing	Valve
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Item	Kg	Dimensions (mm)		
		L	Α	
BFR50	12	190	130	
BFR65	15	212	140	
BFR80	18	225	155	
BFR100	24	250	165	
BFR125	32	284	180	
BFR150	44	310	215	
BFR200	87	420	235	
BFR250	152	470	280	
BFR300	202	535	310	
BFR350		600	350	
BFR400		600	355	
·			·	

2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanica Air Valves

Accessories Fittings, Tubing

> FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors Vent Suctior Check Valves

Pinch Proportiona Sub Base

Timers, Coils & Connectors

Magnets & Y Filters

Pressure Rating: 12 Bar Max

Pressure: (0.2 - 4), (2 - 8) or (4 - 12) Bar Media temperature: -15°C +80°C max Media viscosity: 50 centistokes max

Mounting: any position

### Pressure Reducing Valve

DN50 - DN300 **Bronze** PILOT ASSISTED (0.2-4), (2-8) or (4-12) Bar TYPE BFR-B



				PRESSURE	
Ø Port PN16	Ø Orifice (mm)	<b>Flow</b> Cv	Max Inlet Pressure (Bar)	<b>Part Number</b> Pressure Reducing Adjustment Range Options: $(0.2 - 4)$ , $(2 - 8)$ or $(4 - 12)$ Bar	List Price
DN50	50	37	12	BFR50B + pressure range	£1220.70
DN65	65	85	12	BFR65B + pressure range	£1220.70
DN80	80	110	12	BFR80B + pressure range	£1527.38
DN100	100	150	12	BFR100B + pressure range	£1972.38
DN125	125	230	12	BFR125B + pressure range	£3006.66
DN150	150	450	12	BFR150B + pressure range	£4134.16
DN200	200	580	12	BFR200B + pressure range	£8785.48
DN250	250	910	12	BFR250B + pressure range	£15514.40
DN300	300	1300	12	BFR300B + pressure range	£18406.82

#### **OPTIONS**

Pressure Regulator PRV controller Brass

Pressure gauge (Displays Outlet Pressure)

Pressure adjusting range (0.2 to 4 Bar), (2 to 8 Bar) or (4 to 12 Bar)

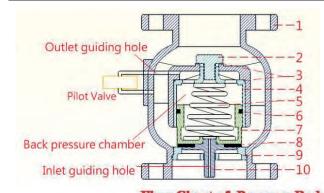
Other flange options JIS10K, ANSI150Lb, PN10, PN20, JIS20K

Other custom made sizes (up to 56" DN1400), higher pressures and other media and seal options available upon request

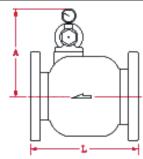
**REPAIR KIT** Piston U Ring SP + Valve Part Number + U RING Pressure Reducing Controller BFRB + pressure range

#### **OVERALL DIMENSIONS**

Pressure reducing valve will reduce and maintain a stable set outlet pressure regardless of inlet pressure changes to prevent pipeline and equipment damage caused by accidental over pressure. Outlet pressure is displayed by external pressure gauge

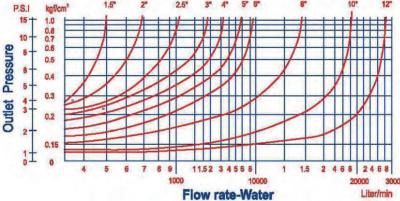


No	Description	Material
1	Main body	Bronze
2	Cylinder bolt	Brass
3	O-Ring	NBR
4	Cylinder	Bronze
5	Spring	304 Stainless
6	U- ring	NBR
7	Piston	Bronze
8	Sealing	NBR
9	Seat	Bronze
10	Shaft	Bronze



Included Included

Included +10%



Item	Kg		ensions mm)
		L	Α
BFR50	12	190	130
BFR65	15	212	140
BFR80	18	225	155
BFR100	24	250	165
BFR125	32	284	180
BFR150	44	310	215
BFR200	87	420	235
BFR250	152	470	280
BFR300	202	535	310
BFR350		600	350
BFR400		600	355

Media: Air - Water - Oil Pressure: 25 Bar Max

Back Pressure: (1 - 5) or (4 - 10) Bar Media temperature: +80°C max Ambient temperature: +80°C max Media viscosity: 40 centistokes max Mounting: any position

## Pressure Sustaining Valve

1/2 – 2" DN15-150 STAINLESS STEEL DIRECT ACTING (1 – 5) or (4 – 10) Bar TYPE RFT RFF



£1864.14

£2429.38

£5099.30

Flow **List Price Part Number** Ø Max Inlet Outlet Adjustment Range Options **Port Seals Seals** M³/Hr ΔP 1 (Bar) **BSP** (1-5) or (4-10) Bar **NBR** Viton Bar 1/2 £240.54 £285.64 25 RFT15S + seal + pressure range 2.5 £300.66 3/4 4.0 25 RFT20S + seal + pressure range £255.56 25 1 6.5 RFT25S + seal + pressure range £288.64 £327.72 11/2 25 13.0 RFT40S + seal + pressure range £505.12 £595.32 17.0 25 £541.20 £661.46 2 RFT50S + seal + pressure range Ø Port Flange PN16 DN15 2.5 25 RFF15S + seal + pressure range £420.94 £466.04 **DN20** 4.0 25 RFF20S + seal + pressure range £448.00 £502.12 DN25 6.5 25 RFF25S + seal + pressure range £475.06 £544.20 DN32 13.0 25 RFF32S + seal + pressure range £676.50 £739.64 **DN40** 13.0 25 RFF40S + seal + pressure range £691.54 £781.74 **DN50** 17.0 25 RFF50S + seal + pressure range £772.72 £892.98 **DN65** 30.0 25 RFF65S + seal + pressure range £1713.80 £1894.20

**OPTIONS** 

RFF80S + seal + pressure range

RFF100S + seal + pressure range

RFF150S + seal + pressure range

Pressure Gauge (Shows the sustained back pressure)
Other thread options NPT & Rc or flange ANSi150Lb or JIS10K

25

25

25

Other custom made options and pressure ranges available upon request

Included +10%

£1924.26

£2549.66

£5249.64

Test Pressure 35 Bar

42.0

75.0

170.0

**DN80** 

**DN100** 

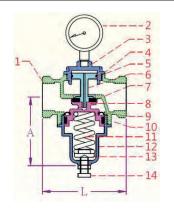
**DN150** 

#### **OVERALL DIMENSIONS**

CONSTRUCTION

No	Part	Material
1	Main Body	316 Stainless
2	Pressure Gauge	Stainless
3	Upper Cover	316 Stainless
4	O Ring	NBR or Viton
5	U Ring	NBR or Viton
6	Piston	316 Stainless
7	Sealing Spacer	NBR or Viton
8	Shaft	316 Stainless
9	Diaphragm	NBR or Viton
10	UH Ring	NBR or Viton
11	Spring	Spring Steel
12	Lower Cover	316 Stainless
13	Washer	Brass
14	Adjusting Stem	304 Stainless

No	Part	Material
1	Main Body	316 Stainless
2	Pressure Gauge	Stainless
3	Upper Cover	316 Stainless
4	O Ring	NBR or Viton
5	U Ring	NBR or Viton
6	Shaft	316 Stainless
7	Sealing Spacer	NBR or Viton
8	Set	316 Stainless
9	Diaphragm	NBR or Viton
10	UH Ring	NBR or Viton
11	O Ring	NBR or Viton
12	Bolt	304 Stainless
13	Spring	Spring Steel
14	Lower Cover	316 Stainless
15	Washer	Brass
16	Adjusting Stem	304 Stainless



	L
	3
1	-5
1	-7 -8
	-10 -11
A	12 13 14
1	15 16

Model	Port	L (mm)	A (mm)
RFF15S	DN15	150	75
RFF20S	DN20	150	82
RFF25S	DN25	150	82
RFF40S	DN40	190	115
RFF50S	DN50	192	115
RFF65S	DN65	210	185
RFF80S	DN80	225	185

DN100

DN150

250

310

230

L

(mm)

71

86

90

115

120

(mm)

75

75

81

115

115

Port

1/2

3/4

11/2

2

Model

RFT15S

RFT20S

RFT25S

RFT40S

RFT50S

RFF100S

RFF150S

Pressure Sustaining Valves

2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanica Air Valves

Accessories Fittings, Tubing

> FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors Vent Suction Check Valves

Pinch Proportional Sub Base

Timers, Coils & Connectors

Magnets & Y Filters Brass 2/2 N/Closed

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed O Rated

2/2 N/Closed

> 2/2 N/Open

Stean

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas Valves

Pressure Reducing Valves Media: air – water

Back pressure range: 0.2 to 1.5 Bar Media temperature: -15°C to +80°C max Ambient temperature: +80°C max Media viscosity: 40 centistokes max Mounting: Gauge upright, stem down

## Pressure Sustaining Valve

1/2 – 2" or DN15 – DN50 316 STAINLESS STEEL DIRECT ACTING 0.2 – 1.5 Bar



### TYPE RFLT + RFLF

		PRESS	URE		
Ø		e Sustaining Range ar)		List	Price
Port BSP	Minimum	Maximum	Part Number	Seals NBR	Seals FKM
1/2	0.2	1.5	RFLT15S + seal material	£369.82	£414.92
3/4	0.2	1.5	RFLT20S + seal material	£384.85	£429.95
1	0.2	1.5	RFLT25S + seal material	£416.42	£457.01
11/2	0.2	1.5	RFLT40S + seal material	£694.54	£784.74
2	0.2	1.5	RFLT50S + seal material	£730.62	£850.88
		Port PN16 Flange			
DN15	0.2	1.5	RFLF15S + seal material	£550.22	£595.32
DN20	0.2	1.5	RFLF20S + seal material	£577.28	£631.40
DN25	0.2	1.5	RFLF25S + seal material	£604.34	£673.49
DN32	0.2	1.5	RFLF32S + seal material	£805.78	£868.92
DN40	0.2	1.5	RFLF40S + seal material	£880.96	£971.16
DN50	0.2	1.5	RFLF50S + seal material	£962.14	£1083.50

**OPTIONS** 

Pressure Gauge (316 Stainless steel) displays back sustained pressure
Other flange ANSI150Lb, JIS10K, JIS20K and NPT or Rc thread options
Other custom made seal, media and pressure options available upon request

CONSTRUCTION

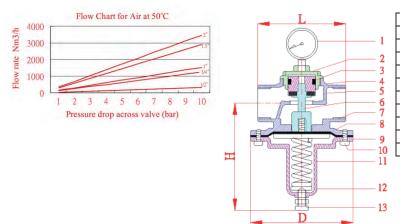
Included +10%

Body, Piston & shaft: 316 stainless steel

Seals: NBR or FKM Spring: steel

Fixing bolts and adjusting stem: 304 stainless steel

Test Pressure: 16 Bar



Part No:	Port	H mm	L mm	Kg
rait No.	FOIL	11 1111111	L 1111111	rvg
RFLT15	1/2	110	70	1.3
RFLT20	3/4	125	85	1.5
RFLT25	1	125	90	1.6
RFLT40	11/2	155	115	3
RFLT50	2	155	120	4
RFLF15	DN15 PN16	110	150	2.5
RFLF20	DN20 PN16	125	150	3.5
RFLF25	DN25 PN16	125	150	5.6
RFLF40	DN40 PN16	155	190	8.7
RFLF50	DN50 PN16	155	190	13.5

NO	Part Name	Material	No	Part Name	Material
1	Gauge	Stainless Steel	8	Diaphragm	EPDM or Viton
2	Upper cover	Stainless Steel 316	9	Lower cover	Stainless Steel 316
3	U-Ring	NBR or Viton	10	Fixed bolt	Stainless Steel 304
4	Piston	Stainless Steel 316	11	Spring	Spring steel
5	Sealing spacer	NBR or Viton	12	Washer	Brass
6	Shaft	Stainless Steel 316	13	Adjusting stem	Stainless Steel 304
7	Main body	Stainless Steel 316			

Media: air – water

Back pressure range: 0.02 - 0.2 Bar Media temperature: -15 °C to +80 °C max Ambient temperature: +80°C max Media viscosity: 40 centistokes max Mounting: any position

## Pressure Sustaining Valve

1/2 - 2" or DN15 - DN50 STAINLESS STEEL 2 WAY DIRECT ACTING 0.02 to 0.2 Bar



## TYPE RFMT + RFMF

			PRESSU	RE		
Ø Port	Flow		e Sustaining Range ar)	Part Number	List	Price
BSP	Cv	Minimum	Maximum	r art Number	Seals NBR	Seals FKM
1/2	2.4	0.02	0.2	RFMT15S + seal material	£2245.98	£2291.08
3/4	9.0	0.02	0.2	RFMT20S + seal material	£2261.01	£2306.11
1	11.0	0.02	0.2	RFMT25S + seal material	£2292.58	£2333.17
11/2	21.0	0.02	0.2	RFMT40S + seal material	£2633.84	£2724.04
2	25.0	0.02	0.2	RFMT50S + seal material	£2669.92	£2790.18
Ø Port F	PN16 Flange					
1/2	2.4	0.02	0.2	RFMF15S + seal material	£2426.38	£2471.48
3/4	9.0	0.02	0.2	RFMF20S + seal material	£2453.44	£2507.56
1	11.0	0.02	0.2	RFMF25S + seal material	£2480.50	£2549.65
11/2	21.0	0.02	0.2	RFMF40S + seal material	£2820.26	£2910.46
2	25.0	0.02	0.2	RFMF50S + seal material	£2901.44	£3021.70

### **OPTIONS**

Pressure Gauge (316 Stainless steel)

Other ANSI150Lb, JIS10K, JIS20K flange or NPT or Rc thread options

Other custom made media, seal and pressure options available upon request

Included +10%

CONSTRUCTION

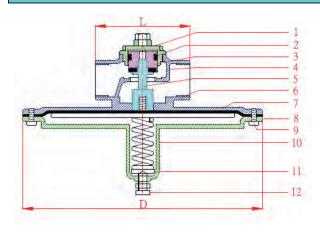
Body, Piston & shaft: 316 stainless steel

Seals: NBR or FKM Spring: steel

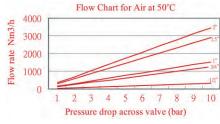
Fixing bolts and adjusting stem: 304 stainless steel

Test Pressure: 16 Bar

### **OVERALL DIMENSIONS**



	Part No:	Port	L mm	D
	RFMT15	1/2 BSP	70	*
	RFMT20	3/4 BSP	85	*
	RFMT25	1 BSP	90	*
	RFMT40	11/2 BSP	115	*
	RFMT50	2 BSP	120	*
* Diameter D depend on outlet pressure setting				etting



No	Part	Material	No	Part	Material
1	Cover	Stainless steel 316	7	Diaphragm	Nylon - EPDM
2	U Ring	NBR	8	Spring cover	Stainless steel 316
3	Piston	Stainless steel 316	9	Stem	Stainless steel 304
4	Sealing	NBR	10	Spring	Spring steel
5	Shaft	Stainless steel 316	11	Washer	Brass
6	Main body	Stainless steel 316	12	Stem	Stainless steel 304

Pressure Sustaining Valves

Brass 2/2 V/Closed 0 Rated

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

Stainless 2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

> 2/2 N/Open

> > Steam

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas Valves

Pressure Reducing Valves Media: water

Mounting: any position

Pressure Rating: 20 Bar Max
Back Pressure Range: (0.2-4) or (2-8) Bar
Media temperature: -15°C +80°C max
Ambient temperature: -15°C to +60°C
Media viscosity: 50 centistokes max

## Pressure Sustaining Valve

DN50 – DN300 Ductile Iron Epoxy Coated PILOT ASSISTED (0.2 – 4) or (2 – 8) Bar



TYPE BFS-DE

	PRESSURE					
Ø Port PN16	Ø Orifice (mm)	<b>Flow</b> Cv	Part Number Pressure Sustaining Adjusting Range Options: (0.2 − 4) or (2 − 8) Bar	List Price		
DN50	50	37	BFS50DE + pressure range	£444.98		
DN65	65	85	BFS65DE + pressure range	£616.36		
DN80	80	110	BFS80DE + pressure range	£802.78		
DN100	100	150	BFS100DE + pressure range	£974.16		
DN125	125	230	BFS125DE + pressure range	£1515.36		
DN150	150	450	BFS150DE + pressure range	£2077.60		
DN200	200	580	BFS200DE + pressure range	£4982.04		
DN250	250	910	BFS250DE + pressure range	£9870.88		
DN300	300	1300	BFS300DE + pressure range	£12928.66		

### **OPTIONS**

Pressure Regulator (Bronze)

Pressure gauge (Displays back sustained Pressure)

Pressure adjusting range (0.2 to 4 Bar) or (2 to 8 Bar)

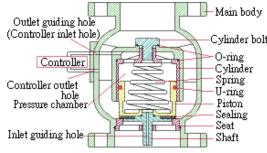
Other flange options JIS10K, JIS20K, ANSI150Lb, PN10, PN20

Other custom made sizes (up to 56"), higher pressures and other media and seal options available upon request

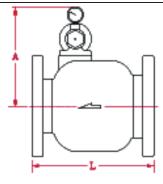
Included Included Included +10%

REPAIR	KINII
Piston U Ring	SP – Valve Part Number - U RING
Pressure Sustaining Controller	BFSB + pressure range
OVERALL DII	MENSIONS

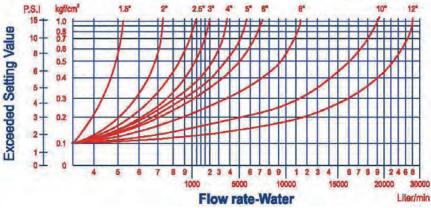
Pressure sustaining valve will maintain a set minimum back pressure regardless of downstream demand. If back pressure drops to minimum set level valve will begin to close to reduce flow to increase back pressure. When pressure increases above minimum set limit valve will slowly open again.



	Materia	ils + Pressure Spec.	
	Main body	Ductile Iron Epoxy Coated	
lt -	Cylinder bolt	Ductile Iron	
ıı	O-Ring	NBR	
	Cylinder	Bronze	
	Spring	Stainless steel	
	U- ring	NBR	
	Piston	Bronze	
	Sealing	NBR	
	Seat	Bronze	
	Shaft	Bronze	
	Controller	Brass	
	Working	20 Bar	
	Test	32 Bar	



# Flow Chart of Pressure Sustaining Valve



Item	Kg	Dimensions (mm)			
		L A			
BFS50	12	190	180		
BFS65	15	210	185		
BFS80	18	225	200		
BFS100	24	250	222		
BFS125	32	280	235		
BFS150	44	310	260		
BFS200	87	420	300		
BFS250	152	470	335		
BFS300	202	530	370		

Pressure Rating: 20 Bar Max

Back Pressure Range:(0.2–4) or (2–8) Bar Media temperature: -15°C +80°C max Ambient temperature: -15°C to +60°C Media viscosity: 50 centistokes max

Mounting: any position

## Pressure Sustaining Valve

DN50 – DN300 Stainless 304 or 316 PILOT ASSISTED (0.2 – 4) or (2 – 8) Bar TYPE BFS-S



**PRESSURE Part Number List Price** Ø Ø Flow Pressure Sustaining Adjusting Range Port Orifice 304 316 Cv **PN16** Options: (0.2 - 4) or (2 - 8) Bar (mm) **Stainless Stainless DN50** £1239.23 £1416.44 50 37 BFS50 + body material + pressure range £1482.28 £1731.84 **DN65** 65 85 BFS65 + body material + pressure range **DN80** 80 110 BFS80 + body material + pressure range £1849.10 £2086.62 **DN100** 100 150 BFS100 + body material + pressure range £2411.34 £2772.14 **DN125** £3361.46 £3896.64 125 230 BFS125 + body material + pressure range £4519.02 £5192.52 **DN150** 150 450 BFS150 + body material + pressure range **DN200** 200 £9017.00 £10370.00 580 BFS200 + body material + pressure range **DN250** £16512.62 £18993.12 250 BFS250 + body material + pressure range 910 £23001.00 **DN300** 300 1300 BFS300 + body material + pressure range £20018.38

**OPTIONS** 

Pressure Regulator 304 Stainless steel

Pressure gauge (Displays Back Sustained Pressure)

Pressure adjusting range (0.2 to 4 Bar) or (2 to 8 Bar)

Other flange options JIS10K, JIS20K, ANSI150Lb, PN10, PN20

Other custom made sizes (up to 56"), higher pressures and other media (acid- alkali – oil) and seal options available upon

request

Included Included Included +10%

REPAIR KIT

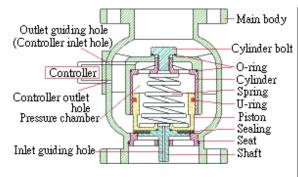
Piston U Ring
Pressure Sustaining Controller

OVERALL DIMENSIONS

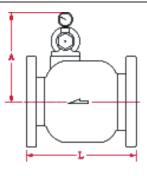
REPAIR KIT

SP – Valve Part Number - U RING
BFSS + pressure range
OVERALL DIMENSIONS

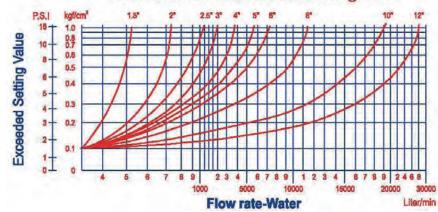
Pressure sustaining valve will maintain a set minimum back pressure regardless of downstream demand. If back pressure drops to minimum set level valve will begin to close to reduce flow to increase back pressure. When pressure increases above minimum set limit valve will slowly open again.



Materials + Pressure Spec			
Main body	304 or 316 Stainless steel.		
Cylinder bolt	Stainless steel.		
O-Ring	NBR or FKM		
Cylinder	Stainless steel.		
Spring	Stainless steel.		
U- ring	NBR or FKM		
Piston	Stainless steel.		
Sealing	NBR or FKM		
Seat	Stainless steel.		
Shaft	Stainless steel.		
Controller	Stainless steel.		
Working	22 Bar		
Test	35 Bar		



### Flow Chart of Pressure Sustaining Valve



Item	Kg	Dimensions (mm)		
		L	Α	
BFS50	12	190	180	
BFS65	15	210	185	
BFS80	18	225	200	
BFS100	24	250	222	
BFS125	32	280	235	
BFS150	44	310	260	
BFS200	87	420	300	
BFS250	152	470	335	
BFS300	202	530	370	

Pressure Sustaining Valves

2/2 & 3/2 Coaxial Solenoid Valves

> Electric Actuated Ball Valves

Air Solenoid Valves

Mechanical Air Valves

Accessories Fittings, Tubing

> FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors Vent Suctior Check Valves

Pinch Proportiona Sub Base

Timers, Coils & Connectors

Magnets & Y Filters

Pressure Rating: 12 Bar Max

Back Pressure Range: (0.2-4) or (2-8) Bar Media temperature: -15°C +80°C max Ambient temperature: -15°C to +60°C Media viscosity: 50 centistokes max

Mounting: any position

## Pressure Sustaining Valve

DN50 - DN300 **Bronze** PILOT ASSISTED (0.2-4) or (2-8) Bar TYPE BFS-B



	PRESSURE					
Ø Port PN16	Ø Orifice (mm)	<b>Flow</b> Cv	Part Number Pressure Sustaining Adjustment Range Options: (0.2 – 4) or (2 – 8) Bar	List Price		
DN50	50	37	BFS50B + pressure range	£1220.70		
DN65	65	85	BFS65B + pressure range	£1220.70		
DN80	80	110	BFS80B + pressure range	£1527.38		
DN100	100	150	BFS100B + pressure range	£1972.38		
DN125	125	230	BFS125B + pressure range	£3006.66		
DN150	150	450	BFS150B + pressure range	£4134.16		
DN200	200	580	BFS200B + pressure range	£8785.48		
DN250	250	910	BFS250B + pressure range	£15514.40		
DN300	300	1300	BFS300B + pressure range	£18406.82		
	ORTIONS					

#### **OPTIONS**

Pressure Regulator Bronze Pressure gauge (Displays Back Sustained Pressure) Pressure adjusting range (0.2 to 4 Bar) or (2 to 8 Bar)

Other flange options JIS10K, JIS20K, ANSI150Lb, PN10, PN20

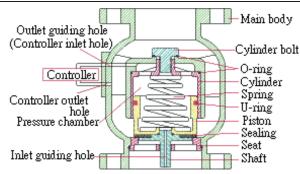
Other custom made sizes (up to 56"), higher pressures and other media and seal options available upon request

Included Included Included +10%

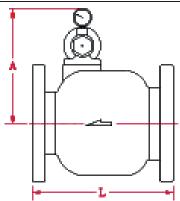
**REPAIR KIT** Piston U Ring SP - Valve Part Number - U RING Pressure Sustaining Controller BFSB + pressure range

#### **OVERALL DIMENSIONS**

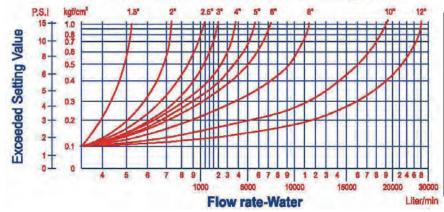
Pressure sustaining valve will maintain a set minimum back pressure regardless of downstream demand. If back pressure drops to minimum set level valve will begin to close to reduce flow to increase back pressure. When pressure increases above minimum set limit valve will slowly open again.



Materials + P	ressure Specs
Main body	Bronze
Cylinder bolt	Brass
O-Ring	NBR
Cylinder	Bronze
Spring	Stainless steel
U- ring	NBR
Piston	Bronze
Sealing	NBR
Seat	Bronze
Shaft	Bronze
Controller	Brass
Working	12 Bar
Test	21 Bar



### Flow Chart of Pressure Sustaining Valve



Item	Kg	Dimensions (mm)		
		L	Α	
BFS50	12	190	180	
BFS65	15	210	185	
BFS80	18	225	200	
BFS100	24	250	222	
BFS125	32	280	235	
BFS150	44	310	260	
BFS200	87	420	300	
BFS250	152	470	335	
BFS300	202	530	370	

Media Temperature: +80°C Max Pressure Range: 0 - 10 Bar Max Media viscosity: 50 centistokes max

## Float Ball Valve

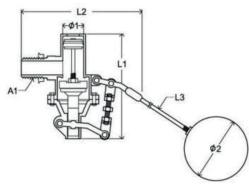
1/2 - 3" DN80 –DN100 304 Stainless Steel Mechanical Full Flow 0 – 10 Bar



TYPE FBV-SS

PRESSURE					
Ø Port BSP	Part Number	List Price			
1/2	FBV-SS	£105.24			
3/4	FBV20-SS	£114.26			
1	FBV25-SS	£120.26			
11/2	FBV40-SS	£287.13			
2	FBV50-SS	£411.92			
3	FBV65-SS				
Flange PN16					
DN80	FBV80F-SS	£948.61			
DN100	FBV100F-SS	£1816.62			
	OPTIONS	Included			
Fully adjustable water tank level link mechanism 20 Bar Pressure Option Other flange options JIS10K, JIS20K, ANSI150Lb					
	CONSTRUCTION				
Body: 304 Stai Ball: 304 Stain					

OVERALL DIMENSIONS



Seals: Silicone with EPDM Seat

استنسم	T - 2	- 1 -3		
,		On		
- 6		,	7	
				/

Tab	le of v	alve si	zes	SS30	4 Ball Float	Kg
A1	L1	L2	Ø1	L3	Ø2	
1/2	110	133	20	170	100	0.67
3/4	110	145	20	170	100	0.72
1	110	145	20	170	100	0.76
11/2	170	120	30	300	150	1.75
2	210	130	40	400	150	2.42
3	240	160	60	420	200	5.67

	Material Specs						
1	U Ring	EPDM / Silicone					
2	Main body	Stainless 304					
3	Shaft	Stainless 304					
4	U Ring	EPDM / Silicone					
5	Piston	Stainless 304					
6	Adjusting Screw	Stainless 304					
7	Lifting Gear	Stainless 304					
8	Float Ball	Stainless 304					



Pilot Float Valves

2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanical Air Valves

Accessories Fittings, Tubing

FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors
Vent Suction
Check Valves

Pinch Proportiona Sub Base

Timers, Coils & Connectors

Magnets & Y Filters

Media: water Pilot Float Valves Pressure range: 0.7 to 20 Bar max

> DN50 - DN300 Ductile Iron Epoxy Coated PILOT ASSISTED 0.7 - 20 Bar

## TYPE BFF-DE



	PRESSURE						
Ø Ø Flow Max Inlet		Flow   How   How How How How How How How How How How	<b>-</b>	List Price			
Port PN16	Orifice (mm)	Cv	Pressure (Bar)	Part Number	Seals NBR	Seals Viton	
DN50	50	37	20	BFF50DE + seal material	£378.84	£478.06	
DN65	65	85	20	BFF65DE + seal material	£586.30	£685.52	
DN80	80	110	20	BFF80DE + seal material	£859.90	£959.12	
DN100	100	150	20	BFF100DE + seal material	£1226.72	£1353.00	
DN125	125	230	20	BFF125DE + seal material	£1849.10	£1999.44	
DN150	150	450	20	BFF150DE + seal material	£2074.60	£2224.94	
DN200	200	580	20	BFF200DE + seal material	£5171.46	£5484.16	
DN250	250	910	16	BFF250DE + seal material	£9372.60	£10622.56	
DN300	300	1300	16	BFF300DE + seal material	£13554.06	£13866.75	
DN350	350	1800	10	BFF350DE + seal material	POA	POA	
DN400	400	2300	10	BFF400DE + seal material	POA	POA	

1/2" Threaded pilot adaptor plate

Media temperature: -15°C +80°C max

Ambient temperature: -15°C to +60°C Media viscosity: 50 centistokes max

Mounting: any position

Flange JIS10K, JIS20K, ANSI150Lb, PN10, PN25

Other custom made sizes (up to 56") and other media and seal options available upon request

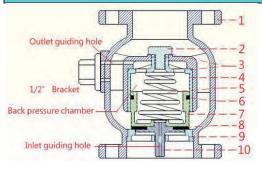
Included +10%

#### **REPAIR KIT**

Piston U Ring

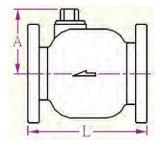
SP + Valve Part Number + U RING

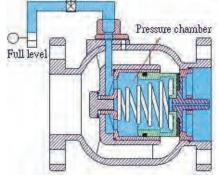
#### **DIMENSIONS**

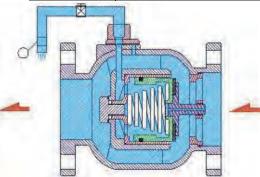


	Dimensions					
DN	L	Α	Kg			
50	190	100	10			
65	212	105	13			
80	225	120	16			
100	250	130	22			
125	284	150	30			
150	310	180	42			
200	420	205	85			
250	470	250	150			
300	535	280	200			

Mate	rial Specifications
Main Body	Ductile Iron Epoxy Coated
Cylinder bolt	Brass
O-Ring	NBR or Viton
Cylinder	Bronze
Spring	Stainless Steel
U- ring	NBR or Viton
Piston	Bronze
Sealing	NBR or Viton
Seat	Bronze
Shaft	Bronze
Controller	Brass







Pressure range: 0.7 to 20 Bar max Media temperature: -15°C +80°C max Ambient temperature: -15°C to +60°C Media viscosity: 50 centistokes max

Mounting: any position

### Pilot Float Valves

DN50 – DN300 Stainless 304 or 316 PILOT ASSISTED 0.7 – 20 Bar



TYPE BFF-S

PRESSURE								
Ø	Ø	Ø Max Inlet		List Price				
Port	Orifice	Flow Cv	Pressure	Part Number	Stainless 304		Stainless 316	
PN16	(mm)		(Bar)		Seals NBR	Seals Viton	Stainless 316 Is Viton Seals NBR Seals Viton 118.48 £1181.62 £1280.84 374.04 £1482.283 £1581.50 713.80 £1813.317 £1912.54 459.46 £2549.66 £2675.94 301.32 £3638.06 £3788.40 461.90 £4961.00 £5111.34 119.22 £10129.46 £10442.16 825.31 £18993.12 £19305.81	
DN50	50	37	20	BFF50 + body material + seal	£1019.26	£1118.48	£1181.62	£1280.84
DN65	65	85	20	BFF65 + body material + seal	£1274.82	£1374.04	£1482.283	£1581.50
DN80	80	110	20	BFF80 + body material + seal	£1614.58	£1713.80	£1813.317	£1912.54
DN100	100	150	20	BFF100 + body material + seal	£2333.18	£2459.46	£2549.66	£2675.94
DN125	125	230	20	BFF125 + body material + seal	£3150.98	£3301.32	£3638.06	£3788.40
DN150	150	450	20	BFF150 + body material + seal	£4311.56	£4461.90	£4961.00	£5111.34
DN200	200	580	20	BFF200 + body material + seal	£8806.52	£9119.22	£10129.46	£10442.16
DN250	250	910	16	BFF250 + body material + seal	£16512.62	£16825.31	£18993.12	£19305.81
DN300	300	1300	16	BFF300 + body material + seal	£20018.13	£20330.83	£23001.00	£23313.70

**Options** 

1/2" threaded pilot adaptor plate

Other flange JIS10K, JIS20K; ANSI150Lb, PN10 or PN25

Included +10%

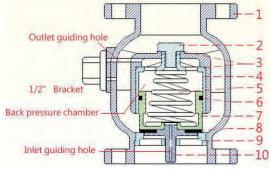
Other custom made sizes (up to 56" DN1400) and other media and seal options available upon request

**REPAIR KIT** 

Piston U Ring

SP + Valve Part Number + U RING

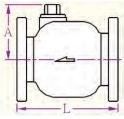
#### **OVERALL DIMENSIONS**

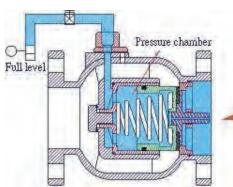


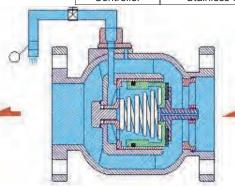
	Dimensions					
DN	L	Α	Kg			
50	190	100	10			
65	212	105	13			
80	225	120	16			
100	250	130	22			
125	284	150	30			
150	310	180	42			
200	420	205	85			
250	470	250	150			
300	535	280	200			

IVICI	iciiai opeca
Main body	Stainless Steel
Cylinder bolt	Stainless Steel
O-Ring	NBR or Viton
Cylinder	Stainless Steel
Spring	Stainless Steel
U- ring	NBR or Viton
Piston	Stainless Steel
Sealing	NBR or Viton
Seat	Stainless Steel
Shaft	Stainless Steel
Controller	Stainless Steel

Material Space







Pilot Float Valves

2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanica Air Valves

Accessories Fittings, Tubing

FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors Vent Suction Check Valves

Pinch Proportional Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filters Brass 2/2 I/Closed 0 Rated Media: water

Mounting: any position

Pressure range: 0.7 to 12 Bar max Media temperature: -15°C +80°C max

Ambient temperature: -15°C to +60°C Media viscosity: 50 centistokes max

Brass 2/2 N/Closed Pilot

2/2 N/Oper 0 Rated

Brass Stainless 3/2

Stainless 2/2 N/Closed 0 Rated

Stainless 2/2 N/Closed Pilot

> 2/2 N/Open

Stear

Plastic 2/2 N/Closed

> Plastic Acids/ Alkali

2/2 Latching Bi-Stable

> EN161 Gas

Pressure Reducing Valves

### Pilot Float Valves

DN50 – DN300 Bronze PILOT ASSISTED 0.7 – 12 Bar

## TYPE BFF-B



			PRESSURE		
Ø	Ø	Flow		List Price	
Port PN16	Orifice (mm)	Cv	Part Number	Seals NBR	Seals Viton
DN50	50	37	BFF50B + seal material	£1127.50	£1226.72
DN65	65	85	BFF65B + seal material	£1127.50	£1226.72
DN80	80	110	BFF80B + seal material	£1434.18	£1533.40
DN100	100	150	BFF100B + seal material	£2300.10	£2426.38
DN125	125	230	BFF125B + seal material	£2913.46	£3063.80
DN150	150	450	BFF150B + seal material	£4040.96	£4191.30
DN200	200	580	BFF200B + seal material	£8692.28	£9004.97
DN250	250	910	BFF250B + seal material	£15418.18	£15730.88
DN300	300	1300	BFF300B + seal material	£18310.60	£18623.30
			OPTIONS		

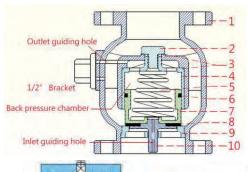
1/2" Threaded pilot adaptor plate Flange JIS10K, JIS20K, ANSI150Lb, PN10

Other custom made sizes (up to 56") and other media and seal options available upon request **REPAIR KIT** 

Included +10%

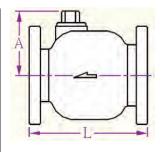
SP + Valve Part Number + U RING

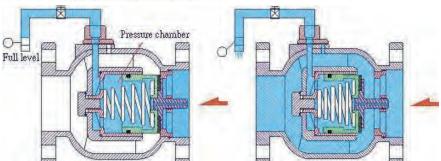
OVERALL DIMENSIONS



Piston U Ring

No	Description	Material
1	Main body	Bronze
2	Cylinder bolt	Brass
3	O-Ring	NBR
4	Cylinder	Bronze
5	Spring	304 Stainless
6	U- ring	NBR
7	Piston	Bronze
8	Sealing	NBR
9	Seat	Bronze
10	Shaft	Bronze



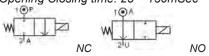


	Dimens	ions	
DN	L	Α	Kg
50	190	100	10
65	212	105	13
80	225	120	16
100	250	130	22
125	284	150	30
150	310	180	42
200	420	205	85
250	470	250	150
300	535	280	200

Media: air – water – oil - vacuum Pressure range: 0 to 100 bar max Media temperature: -20° to +100° C Ambient temperature: -30° to +50° C Media viscosity: 500 centistokes max

Mounting: any position

Opening Closing time: 25 - 130mSec



## 2/2 Steel

1/8 – 1/4 COAXIAL N/CLOSED & N/OPEN 2 WAY DIRECT ACTING 0 - 100 Bar TYPE 266



2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanica Air Valves

+£25.33

+£39.86

Accessories Fittings, Tubing

FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors Vent Suction Check Valves

Pinch Proportional Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filter

PRESSURE								
Port	Ø Orifice	Flow	Pres	ssure Rating	` '	Body		List
BSP	(mm)	Κv	Min	IV	lax	Material	Part Number	Price
3	()	L/min	IVIIII	A→P	P→A	matorial		1 1100
	2.0	2.5	0	12	100		266A20S1G + port + voltage	
	3.0	3.7	0	12	40		266A30S1G + port + voltage	£340.05
	4.0	6.5	0	12	20	Steel Galvanised	266A40S1G + port + voltage	
	5.0	8.0	0	12	16		266A50S1G + port + voltage	
1/8	6.0	9.5	0	10	10		266A60S1G + port + voltage	
or 1/4	2.0	2.5	0	12	100		266A20S2G + port + voltage	
	3.0	3.7	0	12	40	Steel	266A30S2G + port + voltage	
	4.0	6.5	0	12	20	Nickel	266A40S2G + port + voltage	£377.58
	5.0	8.0	0	12	16	Plated	266A50S2G + port + voltage	
	6.0	9.5	0	10	10		266A60S2G + port + voltage	

Normally Open version (266B)

Fastening Brackets (Steel Zinc plated)

Other options: Vacuum – Free of oil and Grease – Flanged – Brass - Stainless Steel 304 or 316 – 3/8 Port

FI FCTRICAL DATA

**OPTIONS** 

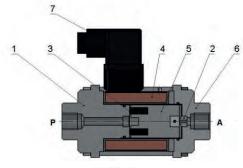
	Voltage (-10% + 10%) Continuous duty 100%	Power Consumption (Watts)	Insulation class	Enclosure	Electrical connections	
~	12 - 24 - 48 - 110 - 230 (Connector with rectifier)	41	F 455°C	IP 65	3 spades DIN 43650	
=	12 - 24 - 48 - 110 - 230 (DC)	35	F 155°C	with connector	DIN 40050 VDE 0110	

CONSTRUCTION

Body: Steel

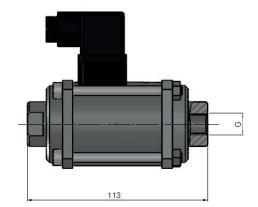
Tube and internal parts: Stainless steel

Seals: PTFE



Position	Quantity	Description
1	1	Solenoid core
2	1	Nozzle
3	2	Spring
4	1	Coil
5	1	Plunger
6	1	Adaptor fitting
7	1	Plug
Weight	1.7Ka	





Brass 2/2 N/Closed 0 Rated

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed O Rated

2/2 N/Closed

> 2/2 N/Open

> > Stean

Plastic 2/2

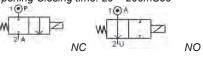
Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas Valves

Pressure Reducing Valves Media: air – water – oil - vacuum Pressure range: 0 to 300 Bar max Media temperature: -20°C to +100°C Ambient temperature: -30°C to +50°C Media viscosity: 500 centistokes max Weight: 4000g

Opening Closing time: 29 – 200mSec



## 2/2 Steel

1/8 – 3/8 COAXIAL N/CLOSED & N/OPEN 2 WAY DIRECT ACTING 0 - 300 Bar



**TYPE 267** 

					PRESSURE				
	ø	Flow		Pressure Rating	g (Bar)				
Port BSP	Orifice	Kv	Min	M	ax	Body Material	Part Number	List Price	
Вог	(mm)	L/min	IVIII	P→A	A→P	Waterial		FIICE	
	1.0	0.7	0	300	100		267A1S1 + port + voltage		
	2.0	1.9	0	300	50		267A2S1 + port + voltage		
	2.5	2.7	0	300	30	]	267A3S1 + port + voltage		
	3.0	4.6	0	270	24	Galvanised Steel	267A4S1 + port + voltage	£769.23	
	4.0	7.3	0	135	9	]	267A5S1 + port + voltage		
1/8	5.0	8.2	0	90	3		267A6S1 + port + voltage		
1/4	6.0	10.7	0	60	2		267A7S1 + port + voltage		
	1.0	0.7	0	300	100		267A1S2 + port + voltage		
3/8	2.0	1.9	0	300	50		267A2S2 + port + voltage		
	2.5	2.7	0	300	30	]	267A3S2 + port + voltage		
	3.0	4.6	0	270	24	Nickel Plated Steel	267A4S2 + port + voltage	£834.89	
	4.0	7.3	0	135	9		267A5S2 + port + voltage	-	
	5.0	8.2	0	90	3		267A6S2 + port + voltage		
	6.0	10.7	0	60	2		267A7S2 + port + voltage		
					OPTIONS				

Normally Open version (267B)

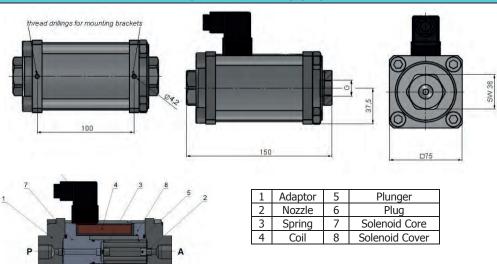
Fastening Brackets (Steel Zinc plated)

Other options available upon request - Vacuum - Free of oil and Grease

+£60.09 +£39.86

	ELECTRICAL DATA												
	Voltage (-10% + 10%) Continuous duty 100%	Power Consumption (Watts)	Insulation class	Enclosure	Electrical connections								
~	12 - 24 - 48 - 110 - 230 (Connector with rectifier)	58	F 155°C	IP 65 with	3 spades DIN 43650								
=	12 - 24 - 48 - 110 - 230 (DC)	55	1 133 0	connector	DIN 40050 VDE 0110								
	CONSTRUCTION												

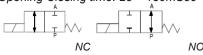
Body: Steel (S1 galvanised or S2 nickel plated) Tube and internal parts: Stainless steel Seals: FKM static, PTFE Dynamic



Media: air - water - oil - vacuum Pressure range: 0 to 20 bar max Media temperature: -20°C to +100°C Ambient temperature: -10°C to +50°C Media viscosity: 500 centistokes max

Mounting: any position

Opening Closing time: 25 – 130mSec



## 2/2 Brass & Stainless

1/4 - 1/12" COAXIAL N/CLOSED & N/OPEN 2 WAY DIRECT ACTING 0 - 20 Bar **TYPE 269** 



	PRESSURE													
	Ø	Flow	Pres	ssure Ratin	g (bar) <u>∆</u> P									
Port BSP	Orifice	Kv		M	ax	Body Material	Part Number	List Price						
БЭР	(mm)	m³/hr	Min	P→A	A→P	Material		FIICE						
1/4, 3/8, 1/2, (3/4*)	10	2.5	0	20	16	Brass	269A10MOG + port + voltage	£319.42						
3/8, 1/2, 3/4, (1*)	<b>1/2, 3/4, (1*)</b> 15 5.2 0 20 16		16	Brass	269A15MOG + port + voltage	£519.93								
1/2, 3/4, 1, (11/4*)	20	7.0	0	20	16	Brass	269A20MOG + port + voltage	£681.98						
3/4, 1, 11/4, (11/2*)	25	12.3	0	20	16	Brass	269A25MOG + port + voltage	£863.74						
1, 11/4, 11/2, (2*)	32	20.0	0	20	16	Brass	269A32MOG + port + voltage	£1295.25						
1/4, 3/8, 1/2, (3/4*)	10	2.5	0	20	16	St.St.303	269A10V2G + port + voltage	£621.01						

**OPTIONS** 

Normally Open version (269B) PTFE, NBR or EPDM Seals

24 - 48 - 110 - 230

Fastening Brackets (Steel Zinc plated)

Electrical Position Switch E1 with 1 position Open or Closed (Please advise if require position Open or Position Closed Switch)

30

Electrical Position Switch E2 with 2 positions Open and Closed
\*Special options – Vacuum – Degreased – Flanged – Stainless Steel – Manual Override – Galvanised or Nickel Plated Steel Body

+ 7%	
+10%	
+6%	

+£504.94 +£822.48

**VDE 0110** 

**ELECTRICAL DATA Power Consumption (Watts) Electrical** Insulation class **Enclosure** connections Ø 10 Ø 32 Ø 15 Ø 20 Ø 25 3 spades 29 32 42 60 76 IP 65 DIN 43650 F 155°C with DIN 40050

connector

51 CONSTRUCTION

34

73

Body: Brass MS058 (MO version): Option: St steel 303 (V2G) or 316L (V4G)

25

Tube and internal parts: Stainless steel

12 - 24 - 48 - 110 - 230 (DC)

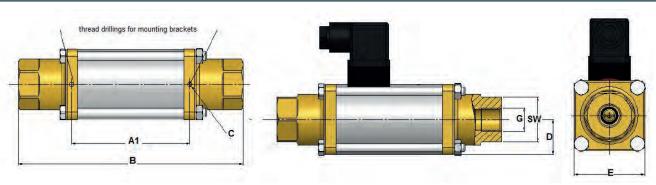
Voltage (-10% + 10%)

Continuous duty 100%

(40 - 60Hz Connector with rectifier)

Seals: Static FKM - Dynamic PTFE (Optional NBR, EPDM or PTFE)

### OVERALL DIMENSIONS



DN	G	sw	A1	В	С	D	Е	Kg
10	1/4 3/8 1/2 (3/4*)	32	84	159.5	M4	25	50	1.7
15	3/8 1/2 3/4 (1*)	41	100	184	M5	35	70	3.6
20	1/2 3/4 1 (11/4*)	46	108	215	M5	40	80	5.4
25	3/4 1 11/4 (11/2*)	55	121	246	M5	45	90	7.1
32	1 11/4 11/2 (2*)	60	122	269	M6	57.5	115	12.6

2/2 & 3/2 Coaxial Solenoid Valves

Brass 2/2 N/Closed

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed

2/2 N/Open

Stean

Plastic 2/2 N/Closed

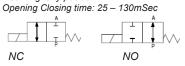
> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas Valves

Pressure Reducing Valves Media: air – water – oil - vacuum Pressure range: 0 to 40 bar max Media temperature: -20°C to +130°C Ambient temperature: -30°C to +60°C Media viscosity: 500 centistokes max

Mounting: any position



### 2/2 Brass & Stainless

1/4 – 2" COAXIAL N/CLOSED & N/OPEN 2 WAY DIRECT ACTING

0 - 40 Bar

**TYPE 270** 



					PRES	SURE		
Do-ut.	ø	Flow	Pressu	re Ratin	g (bar) ∆P	Dark		1.1-4
Port BSP	Orifice	Kv		!	Max	Body Material	Part Number	List Price
БЗР	(mm)	m³/hr	Min	$P \rightarrow A$	A→P	Waterial		FIICE
1/4, 3/8, 1/2, (3/4*)	10	2.5	0	40	16	Brass	270A10MOG + port + voltage	£344.98
3/8, 1/2, 3/4, (1*)	15	5.2	0	40	16	Brass	270A15MOG + port + voltage	£561.21
1/2, 3/4, 1, (11/4*)	20	7.0	0	40	16	Brass	270A20MOG + port + voltage	£736.40
3/4, 1, 11/4, (11/2*)	25	12.3	0	40	16	Brass	270A25MOG + port + voltage	£930.81
1, 11/4, 11/2, (2*)	32	20.0	0	40	16	Brass	270A32MOG + port + voltage	£1374.76
11/2	40	45.7	0	16	16	Brass	270A40MOG112 + voltage	£1953.79
2	50	47.2	0	16	16	Brass	270A50MOG2 + voltage	£2080.19
1/4, 3/8, 1/2, (3/4*)	10	2.5	0	40	16	St.St.303	270A10V2G + port + voltage	£627.34
3/8, 1/2, 3/4, (1*)	15	5.2	0	40	16	St.St.303	270A15V2G + port + voltage	£1001.64
1/2, 3/4, 1, (11/4*)	20	7.0	0	40	16	St.St.303	270A20V2G + port + voltage	£1181.05
3/4, 1, 11/4, (11/2*)	25	12.3	0	40	16	St.St.303	270A25V2G + port + voltage	£1541.74
1, 11/4, 11/2, (2*)	32	20.0	0	40	16	St.St.303	270A32V2G + port + voltage	£2373.34
11/2	40	45.7	0	16	16	St.St.303	270A40V2G112 + voltage	£2594.97
2	50	47.2	0	16	16	St.St.303	270A50MOG2 + voltage	£2830.65
1/4, 3/8, 1/2, (3/4*)	10	2.5	0	40	16	St.St.316	270A10V4G + port + voltage	£762.42
3/8, 1/2, 3/4, (1*)	15	5.2	0	40	16	St.St.316	270A15V4G + port + voltage	£1151.03
1/2, 3/4, 1, (11/4*)	20	7.0	0	40	16	St.St.316	270A20V4G + port + voltage	£1438.55
3/4, 1, 11/4, (11/2*)	25	12.3	0	40	16	St.St.316	270A25V4G + port + voltage	£1791.03
1, 11/4, 11/2, (2*)	32	20.0	0	40	16	St.St.316	270A32V4G + port + voltage	£2725.12
11/2	40	45.7	0	16	16	St.St.316	270A40V4G112 + voltage	£3124.75
2	50	47.2	0	16	16	St.St.316	270A50V4G2 + voltage	£3336.05

Normally Open version (270B)

Electrical Position Switch E1 with 1 position Open or Closed (Please advise if require position Open or Position Closed Switch) Electrical Position Switch E2 with 2 positions Open and Closed

Vacuum – Degreased – Flanged – Manual Override – Galvanised or Nickel Plated – mounting brackets – EPDM NBR or PTFE seals

+£504.94 +£822.48

FLECTRICAL DATA

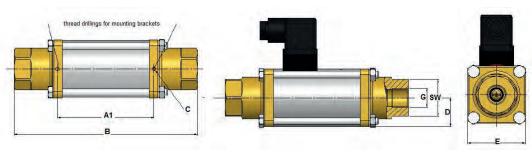
				ELECT	RICAL	DATA					
	Voltage (-10% + 10%)	Power Consumption (Watts)							Insulation	Enclosure	Electrical
	Continuous duty 100%	Ø 10	Ø 15	Ø 20	Ø 25	Ø 32	Ø 40	Ø 50	class	Eliciosure	connections
	~ 24 - 48 - 110 - 230 (40 – 60Hz Connector with rectifier)	41	45	53	68	76	91	91	F 155°C	IP 65 with	3 spades DIN 43650
-	= 12 - 24 - 48 - 110 - 230 (DC)	35	40	45	60	73	73	73		connector	DIN 40050 VDE 0110

**OPTIONS** 

CONSTRUCTION
Body: Brass MS058 (MO version): Option: St steel 303 (V2G) or 316L (V4G)

Tube and internal parts: Stainless steel

Seals: Static FKM - Dynamic PTFE (Optional NBR, EPDM or PTFE)



DN	G	SW	A1	В	С	D	Е	Kg
10	1/4 3/8 1/2 (3/4*)	32	84	159.5	M4	25	50	1.7
15	3/8 1/2 3/4 (1*)	41	100	184	M5	35	70	3.6
20	1/2 3/4 1 (11/4*)	46	108	215	M5	40	80	5.4
25	3/4 1 11/4 (11/2*)	55	121	246	M5	45	90	7.1
32	1 11/4 11/2 (2*)	60	122	269	M6	57.5	115	12.6
40	11/2	75	131	304	M6	65	130	18.3
50	2	75	131	304	M6	65	130	18.3

Media: air - water - oil - vacuum Pressure range: 0 to 64 bar max Media temperature: -20° to +130° C Ambient temperature: -30° to +60° C Media viscosity: 500 centistokes max

Mounting: any position

Opening Closing time: 25 - 130mSec



### 2/2 Brass & Stainless

1/4 - 11/2 COAXIAL N/CLOSED & N/OPEN 2 WAY DIRECT ACTING 0 - 64 Bar TYPE 271



**PRESSURE** Pressure Rating (Bar) Flow Ø Port Body List Max Orifice **Part Number** Κv **BSP** Material **Price** Min (mm) m³/hr  $P \rightarrow A$  $A \rightarrow P$ 1/4, 3/8, 1/2, (3/4\*) 271A10MOG + port + voltage £413.69 10 2.5 0 64 16 **Brass** 3/8, 1/2, 3/4, (1\*) 15 5.2 0 64 16 **Brass** 271A15MOG + port + voltage £673.54 1/2, 3/4, 1, (11/4\*) 20 7.0 0 64 16 **Brass** 271A20MOG + port + voltage £883.91 3/4, 1, 11/4, (11/2\*) 25 12.3 0 64 16 **Brass** 271A25MOG + port + voltage £1117.02 1, 11/4, 11/2 (2\*) 32 20.0 0 64 16 **Brass** 271A32MOG + port + voltage £1649.85 1/4, 3/8, 1/2, (3/4\*) 10 2.5 0 64 16 St.St.303 271A10V2G + port + voltage £721.15 3/8, 1/2, 3/4, (1\*) 15 5.2 0 64 16 St.St.303 271A15V2G + port + voltage £1151.96 1/2, 3/4, 1, (11/4\*) 20 7.0 0 64 16 St.St.303 271A20V2G + port + voltage £1358.34 3/4, 1, 11/4, (11/2\*) 25 12.3 0 64 16 St.St.303 271A25V2G + port + voltage £1773.20 32 64 16 St.St.303 £2604.81 1, 11/4, 11/2 (2\*) 20.0 n 271A32V2G + port + voltage 1/4, 3/8, 1/2, (3/4\*) 16 271A10V4G + port + voltage £876.40 10 0 64 St.St.316 2.5 3/8, 1/2, 3/4, (1\*) 16 £1323.63 15 5.2 0 64 St.St.316 271A15V4G + port + voltage 1/2, 3/4, 1, (11/4\*) 16 £1654.30 20 7.0 0 64 St.St.316 271A20V4G + port + voltage 3/4, 1, 11/4, (11/2\*) 16 271A25V4G + port + voltage £2059.55 25 12.3 0 64 St.St.316 £2950.27 1, 11/4, 11/2 (2\*) 32 20.0 0 64 16 St.St.316 271A32V4G + port + voltage

**OPTIONS** 

Normally Open version (271B)

Electrical Position Switch E1 with 1 position Open or Closed (Please advise if require position Open or Position Closed Switch)

+£504.94 +£822.48

Electrical Position Switch E2 with 2 positions Open and Closed Vacuum - Degreased - Flanged - Manual Override - Galvanised or Nickel Plated Steel - NBR EPDM PTFE seals, Mounting Bracket

**ELECTRICAL DATA Power Consumption (Watts)** Voltage (-10% + 10%) Insulation **Electrical Enclosure** Continuous duty 100% class connections Ø 10 Ø 15 Ø 20 Ø 25 Ø 32 12 - 24 - 48 - 110 - 230 3 spades 53 55 59 85 76 IP 65 (40 - 60Hz Connector with rectifier) DIN 43650 F 155°C with DIN 40050 12 - 24 - 48 - 110 - 230 (DC) 44 50 53 77 73 connector **VDE 0110** 

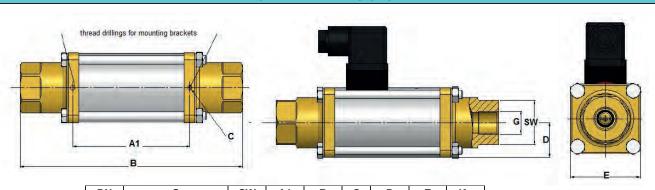
CONSTRUCTION

Body: Brass MS058 (MO version): Option: St steel 303 (V2G) or 316L (V4G)

Tube and internal parts: Stainless steel

Seals: Static FKM - Dynamic PTFE (Optional NBR, EPDM or PTFE)

#### **OVERALL DIMENSIONS**



DN	G	SW	A1	В	ن	ט	L	Kg
10	1/4 3/8 1/2 (3/4*)	32	84	159.5	M4	25	50	1.7
15	3/8 1/2 3/4 (1*)	41	100	184	M5	35	70	3.6
20	1/2 3/4 1 (11/4*)	46	108	215	M5	40	80	5.4
25	3/4 1 11/4 (11/2*)	55	121	246	M5	45	90	7.1
32	1 11/4 11/2 (2*)	60	122	269	M6	57.5	115	12.6

2/2 & 3/2 Coaxial Solenoid Valves

Brass 2/2 V/Closed

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

> 2/2 N/Open

> > Stean

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas

Pressure Reducing Valves Media: air – water – oil - vacuum Pressure range: 0 to 100 bar max Media temperature: -20°C to +130°C Ambient temperature: -30°C to +60°C Media viscosity: 500 centistokes max Mounting: any position

Opening Closing time: 25 – 130mSec

NC

NO

NO

### 2/2 Brass & Stainless

1/4 – 11/2 COAXIAL N/CLOSED & N/OPEN 2 WAY DIRECT ACTING 0 - 100 Bar





	PRESSURE												
5 /	ø	Flow	Р	ressure Ratir									
Port BSP	Orifice (mm)	Kv Min	P→A	<b>ax</b> A→P	Body Material	Part Number	List Price						
1/4, 3/8, 1/2, (3/4*)	10	2.5	0	100	16	Brass	272A10MOG + port + voltage	£496.47					
3/8, 1/2, 3/4, (1*)	15	5.2	0	100	16	Brass	272A15MOG + port + voltage	£808.16					
1/2, 3/4, 1, (11/4*)	20	7.0	0	100	16	Brass	272A20MOG + port + voltage	£1060.73					
3/4, 1, 11/4, (11/2*)	25	12.3	0	100	16	Brass	272A25MOG + port + voltage	£1340.28					
1, 11/4, 11/2, (2*)	32	20.0	0	100	16	Brass	272A32MOG + port + voltage	£1945.58					
1/4, 3/8, 1/2, (3/4*)	10	2.5	0	100	16	St.St.303	272A10V2G + port + voltage	£753.05					
3/8, 1/2, 3/4, (1*)	15	5.2	0	100	16	St.St.303	272A15V2G + port + voltage	£1202.15					
1/2, 3/4, 1, (11/4*)	20	7.0	0	100	16	St.St.303	272A20V2G + port + voltage	£1417.67					
3/4, 1, 11/4, (11/2*)	25	12.3	0	100	16	St.St.303	272A25V2G + port + voltage	£1850.13					
1, 11/4, 11/2, (2*)	32	20.0	0	100	16	St.St.303	272A32V2G + port + voltage	£2827.61					
1/4, 3/8, 1/2, (3/4*)	10	2.5	0	100	16	St.St.316	272A10V4G + port + voltage	£914.86					
3/8, 1/2, 3/4, (1*)	15	5.2	0	100	16	St.St.316	272A15V4G + port + voltage	£1381.33					
1/2, 3/4, 1, (11/4*)	20	7.0	0	100	16	St.St.316	272A20V4G + port + voltage	£1726.54					
3/4, 1, 11/4, (11/2*)	25	12.3	0	100	16	St.St.316	272A25V4G + port + voltage	£2149.61					
1, 11/4, 11/2, (2*)	32	20.0	0	100	16	St.St.316	272A32V4G + port + voltage	£3238.96					

Normally Open version (272B)

Electrical Position Switch E1 with 1 position Open or Closed (Please advise if require position Open or Position Closed Switch)

Electrical Position Switch E2 with 2 positions Open and Closed

Vacuum – Degreased – Flanged – Manual Override – Galvanised or Nickel Plated – Mounting Brackets

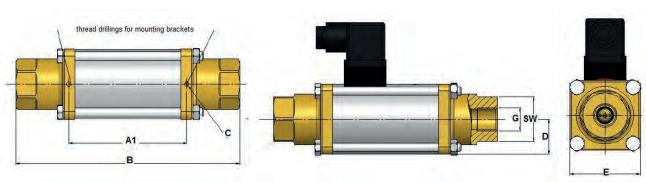
+ 7% +£504.94 +£822.48

				ELEC					
	Voltage (-10% + 10%)	Power Consumption (Watts)					Insulation class	Enclosure	Electrical
	Continuous duty 100%	Ø 10	Ø 15	Ø 20	Ø 25	Ø 32	Ilisulation class	Eliciosule	connections
~	24 - 48 - 110 - 230 (40 – 60Hz Connector with rectifier)	53	55	59	85	76	F 155°C	IP 65	3 spades DIN 43650
=	12 - 24 - 48 - 110 - 230 (DC)	44	50	53	77	73	F 100 C	with connector	DIN 40050 VDE 0110

**OPTIONS** 

CONSTRUCTION
Body: Brass MS058 (MO version): Option: St steel 303 (V2G) or 38516L (V4G)

Tube and internal parts: Stainless steel76
Seals: Static FKM - Dynamic PTFE



DN	G	SW	A1	В	С	D	E	Kg
10	1/4 3/8 1/2 (3/4*)	32	84	159.5	M4	25	50	1.7
15	3/8 1/2 3/4 (1*)	41	100	184	M5	35	70	3.6
20	1/2 3/4 1 (11/4*)	46	108	215	M5	40	80	5.4
25	3/4 1 11/4 (11/2*)	55	121	246	M5	45	90	7.1
32	1 11/4 11/2 (2*)	60	122	269	M6	57.5	115	12.6

Media: air – water – oil - vacuum Pressure range: 0 to 20 Bar max Media temperature: -20° to +40°C Ambient temperature: -30° to +40°C Media viscosity: 500 centistokes max Mounting: any position

Mounting: any position
Opening Closing time: 25 – 130mSec





1/4 –3/4" ATEX COAXIAL N/CLOSED & N/OPEN 2 WAY DIRECT ACTING 0 - 20 Bar TYPE 290



2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Included

+ 7% +10%

+6%

**£POR** 

Mechanical Air Valves

Accessories Fittings, Tubing

FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors Vent Suction Check Valves

Pinch Proportiona Sub Base

Timers,
Coils &
Connector

Magnets & Y Filter

					PRESSURE			
	Ø	Flow	Pı	essure Rating	(bar) ∆P			
Port BSP	Orifice	Kv		M	ax	Body Material	Part Number	List Price
БЭР	(mm)	L/min	Min $P \rightarrow A$ $A \rightarrow P$		Wateriai		Price	
	10	51	0	20	16	Brass	290A10MOG + port + voltage	£953.33
1/4, 3/8, 1/2, (3/4*)	10	51	0	20	16	303 Stainless	290A10V2G + port + voltage	£1365.38
	10	51	0	20	16	316 Stainless	290A10V4G + port + voltage	£1692.06
	15	91	0	20	16	Brass	290A15MOG + port + voltage	£1118.19
3/8, 1/2, 3/4, (1*)	15	91	0	20	16	303 Stainless	290A15V2G + port + voltage	£1490.61
	15	91	0	20	16	316 Stainless	290A15V4G + port + voltage	£2158.76

OPTIONS

ATEX II 2G ExemIIT4 + II 2D td A21 IP65 T130°C

Normally Open version (290B)

PTFE Seals

Fastening Brackets (Steel Zinc plated)

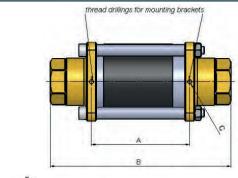
\*Special options - Vacuum - Degreased - Flanged - Manual Override - Galvanised or Nickel Plated Steel Body - Manifold

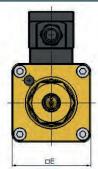
**ELECTRICAL DATA** Power Consumption (Watts) Voltage (-10% + 10%) Electrical Insulation class **Enclosure** Continuous duty 100% connections Ø 10 Ø 15 3 spades 230 (40 - 60Hz Connector with rectifier) 23 23 IP 65 DIN 43650 F 155°C with DIN 40050 connector 24 (DC) 30 30 VDE 0110

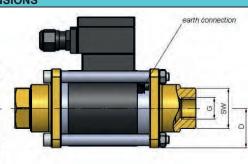
CONSTRUCTION
Body: Brass MS058 (MG version): Option: St steel 303 (V2G) or 316L (V4G)

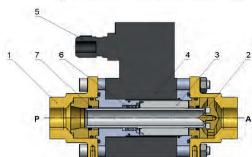
Tube and internal parts: Stainless steel

Seals: Static FKM - Dynamic PTFE (Optional NBR, EPDM or PTFE)









Position	Description
1	Port adaptor
2	Valve Seat
3	Plunger
4	Solenoid
5	M16x1.5 Cable entry
6	Spring
7	PTFE Rod seal

	DN	G	SW	Α	В	С	D	Е	Kg
ı	10	1/4 3/8 1/2 (3/4*)	32	84	159.5	M4	32.5	65	2.3
ı	15	3/8 1/2 3/4 (1*)	41	100	184	M5	40	80	4.3

Media: air - water - oil - vacuum 3/2 Brass & Stainless Pressure range: 0 to 40 bar max Media temperature: -20°C to +100°C

1/4 - 2" COAXIAL N/CLOSED & N/OPEN 3 WAY DIRECT ACTING 0 - 40 Bar

**TYPE 370** 



+ 7%

					PRESSURE			
	Ø	Flow		Pressure Rati	ing (Bar)			
Port BSP	Orifice	Kv		IV	Max Body Material		Part Number	List Price
БЗР	(mm)	M³/Hr	Min	P⇒A P⇒R	A⇒P R⇒P	wateriai		Price
1/4, 3/8, 1/2	10	2.0	0	40	16	Brass	370A10MOG + port + voltage	£414.63
3/8, 1/2, 3/4	15	5.6	0	40	16	Brass	370A15MOG + port + voltage	£700.04
1/2, 3/4, 1	20	8.0	0	40	16	Brass	370A20MOG + port + voltage	£921.20
3/4, 1, 11/4	25	11.5	0	40	16	Brass	370A25MOG + port + voltage	£1160.17
1, 11/4, 11/2	32	17.9	0	40	16	Brass	370A32MOG + port + voltage	£1934.79
11/2	40	41.5	0	16	16	Brass	370A40MOG112 + voltage	£2884.60
2	50	43.0	0	16	16	Brass	370A50MOG2 + voltage	£3236.38
1/4, 3/8, 1/2	10	2.0	0	40	16	St.St.303	370A10V2G + port + voltage	£784.94
3/8, 1/2, 3/4	15	5.6	0	40	16	St.St.303	370A15V2G + port + voltage	£1396.33
1/2, 3/4, 1	20	8.0	0	40	16	St.St.303	370A20V2G + port + voltage	£2068.46
3/4, 1, 11/4	25	11.5	0	40	16	St.St.303	370A25V2G + port + voltage	£2572.22
1, 11/4, 11/2	32	17.9	0	40	16	St.St.303	370A32V2G + port + voltage	£4268.26
11/2	40	41.5	0	16	16	St.St.303	370A40V2G112 + voltage	£6355.49
2	50	43.0	0	16	16	St.St.303	370A50V2G2 + voltage	£6613.46
1/4, 3/8, 1/2	10	2.0	0	40	16	St.St.316	370A10V4G + port + voltage	£1090.75
3/8, 1/2, 3/4	15	5.6	0	40	16	St.St.316	370A15V4G + port + voltage	£1525.56
1/2, 3/4, 1	20	8.0	0	40	16	St.St.316	370A20V4G + port + voltage	£2197.92
3/4, 1, 11/4	25	11.5	0	40	16	St.St.316	370A25V4G + port + voltage	£2818.46
1, 11/4, 11/2	32	17.9	0	40	16	St.St.316	370A32V4G + port + voltage	£4636.46
11/2	40	41.5	0	16	16	St.St.316	370A40V4G112 + voltage	£6847.98
2	50	43.0	0	16	16	St.St.316	370A50V4G2 + voltage	£7152.86
					OPTIONS			

Normally Open version (370B)

Ambient temperature: -30°C to +50°C

Media viscosity: 500 centistokes max

Opening Closing time: 25 - 130mSec

Mounting: any position

NC

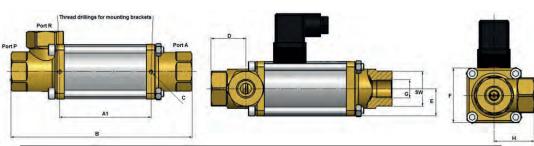
Vacuum - Nickel Plated - Free of oil and Grease - Flanged - NBR EPDM or PTFE seals - Position feed back switches

	Voltage (-10% + 10%)		Ро	wer Cor	nsumpti	on (Wa	Insulation	Enclosuro	Electrical		
	Continuous duty 100%	Ø 10	Ø 15	Ø 20	Ø 25	Ø 32	Ø 40	Ø 50	class	IP 65 with connector	connections
~	24 - 48 - 110 - 230 (40 – 60Hz Connector with rectifier)	35	40	45	60	73	73	73	F 155°C		3 spades DIN 43650
=	12 - 24 - 48 - 110 - 230 (DC)	41	45	53	68	76	90	90	F 155 C		DIN 40050 VDE 0110
				CON	ICTDII	CTION					

Body: Brass MS058 (MO version): Option: St steel 303 (V2G) or 316L (V4G)

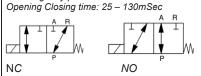
Tube and internal parts: Stainless steel

Seals: Static FKM, Dynamic PTFE, Seat FKM, Optional NBR and EPDM



DN	G	sw	A1 (mm)	<b>A2</b> (mm)	B (mm)	С	D (mm)	E (mm)	F (mm)	H (mm)	Kg
10	1/4 3/8 1/2	32	84	-	166.5	M4	32	25	50	37	1.9
15	3/8 1/2 3/4	41	100	-	200	M5	38.5	35	70	60	4
20	1/2 3/4 1	46	108	-	228	M5	45.5	40	80	72	6
25	3/4 1 11/4	55	121	-	252	M5	48	45	90	80	7.5
32	1 11/4 11/2	60	122	50	269	M6	49.5	57.5	115	80	13.4
40	11/2	75	131	60	304	M6	56.5	65	130	84	18.7
50	2	75	131	60	304	M6	56.5	65	130	84	18.5

Media: air - water - oil - vacuum Pressure range: 0 to 64 bar max Media temperature: -20°C to +100°C Ambient temperature: -30°C to +50°C Media viscosity: 500 centistokes max Mounting: any position



## 3/2 Brass

1/4 - 11/2" COAXIAL N/CLOSED & N/OPEN 3 WAY DIRECT ACTING 0 - 64 Bar **TYPE 371** 



					PRESSURE			
_	Ø	Flow		Pressure Ratir	ng (Bar)			
Port BSP	Orifice	Kv		M	ax	Body	Part Number	List Price
БЭР	(mm)	M³/Hr	Min	P⇒A P⇒R	A⇒P R⇒P	Material		Price
1/4, 3/8, 1/2	10	2.0	0	64	16	Brass	371A10MOG + port + voltage	£619.14
3/8, 1/2, 3/4	15	5.6	0	64	16	Brass	371A15MOG + port + voltage	£812.38
1/2, 3/4, 1	20	8.0	0	64	16	Brass	371A20MOG + port + voltage	£1069.41
3/4, 1, 11/4	25	11.5	0	64	16	Brass	371A25MOG + port + voltage	£1346.38
1, 11/4, 11/2	32	17.9	0	64	16	Brass	371A32MOG + port + voltage	£2036.10
3/4, 1, 11/4	25	11.5	0	64	16	St.St.316	371A25V4G + port + voltage	£3087.23

**OPTIONS** 

Normally Open version (371B) PTFE, NBR or EPDM Seals

Fastening Brackets (Steel Zinc plated)

Electrical Position Switch E1 with 1 position Open or Closed (Please advise if require position Open or Position Closed Switch)

Electrical Position Switch E2 with 2 positions Open and Closed

Many other options available upon request – Vacuum – Nickel Plated – Free of oil and Grease – Flanged – Stainless Steel 304 or 316

Air
Valves

+6°

+10

+£822

2/2 & 3/2 Coaxial Solenoid Valves

### **ELECTRICAL DATA**

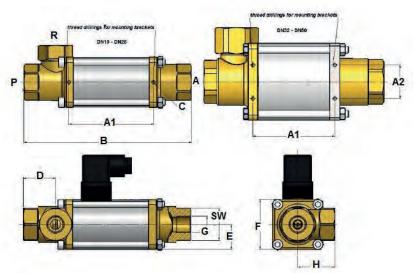
	Voltage (-10% + 10%)	F	ower Co	nsumpti	on (Watts	s)	Insulation	Enclosure	Electrical
	Continuous duty 100%	Ø 10	Ø 15	Ø 20	Ø 25	Ø 32	class		connections
~	24 - 48 - 110 - 230 (40 – 60Hz Connector with rectifier)	53	55	59	85	76	F 155°C	IP 65	3 spades DIN 43650
=	12 - 24 - 48 - 110 - 230 (DC)	44	50	53	77	73	F 155 C	with connector	DIN 40050 VDE 0110

#### CONSTRUCTION

Body: Brass MS058 (MO version): Option: St steel 303 (V2G) or 316L (V4G)

Tube and internal parts: Stainless steel

Seals: Static FKM, Dynamic PTFE, Seat FKM, Optional NBR and EPDM

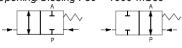


DN	G	SW	A1	A2	В	С	D	E	F	Н	Kg
			(mm)	(mm)	(mm)	_	(mm)	(mm)	(mm)	(mm)	- 5
10	1/4 3/8 1/2	32	84	-	166.5	M4	32	25	50	37	1.9
15	3/8 1/2 3/4	41	100	-	200	M5	38.5	35	70	60	4
20	1/2 3/4 1	46	108	-	228	M5	45.5	40	80	72	6
25	3/4 1 11/4	55	121	-	252	M5	48	45	90	80	7.5
32	1 11/4 11/2	60	122	50	269	M6	49.5	57.5	115	80	13.4

Media: air - water - oil - vacuum Pressure range: 0 to 64 bar max Media temperature : -10°C to +100°C Ambient temperature : -10°C to +50°C

Control pressure: 3 – 8 Bar air Media viscosity: 500 centistokes max

Mounting: any position Opening/Closing: 50 - 1000 mSec



### 2/2 Brass & Stainless

1/4 - 2" COAXIAL N/CLOSED + N/OPEN 2 WAY PNEUMATIC 0 - 64 Bar **TYPE 280** 



**PRESSURE** Pressure Rating (Bar) Flow 0 Port **Body** List Max. Part Number Orifice Κv **BSP** Material **Price** min (mm) m³/hr P⇒A A⇒P 1/4, 3/8, 1/2 (3/4\*) 10 2.7 0 64 16 Brass 280A10MOG + port £320.58 3/8, 1/2, 3/4, (1\*) 15 7.2 0 64 16 280A15MOG + port £460.36 **Brass** 1/2, 3/4, 1, (11/4\*) 20 9.4 0 64 16 280A20MOG + port £548.54 Brass 25 14.5 0 3/4, 1, 11/4, (11/2\*) 64 16 280A25MOG + port £684.56 Brass 1, 11/4, 11/2, (2\*) 32 20.0 0 64 16 Brass 280A32MOG + port £966.46 11/2 40 45.7 0 64 16 Brass 280A40MOG112 £1360.22 Brass 2 50 47.2 0 64 16 280A50MOG2 £1536.11 1/4, 3/8, 1/2 (3/4\*) 10 2.7 0 64 16 St.St.303 280A10V2G + port £604.59 3/8, 1/2, 3/4, (1\*) 15 7.2 0 64 16 St.St.303 280A15V2G + port £974.19 1/2, 3/4, 1, (11/4\*) 20 9.4 0 64 16 St.St.303 280A20V2G + port £1245.54 280A25V2G + port 3/4, 1, 11/4, (11/2\*) 25 14.5 0 64 16 St.St.303 £1478.65 280A32V2G + port 1, 11/4, 11/2, (2\*) 32 20.0 0 64 16 St.St.303 £1897.27 11/2 40 45.7 0 64 16 St.St.303 280A40V2G112 £2991.31 50 47.2 0 64 16 2 St.St.303 280A50V2G2 £3236.38 10 2.7 0 1/4, 3/8, 1/2 (3/4\*) 64 16 280A10V4G + port £678.23 St.St.316 15 0 64 16 3/8, 1/2, 3/4, (1\*) 7.2 St.St.316 280A15V4G + port £1100.36 1/2, 3/4, 1, (11/4\*) 20 9.4 0 64 16 St.St.316 280A20V4G + port £1427.29 3/4, 1, 11/4, (11/2\*) 25 14.5 0 64 16 St.St.316 280A25V4G + port £1639.07 1, 11/4, 11/2, (2\*) 32 20.0 0 64 16 St.St.316 280A32V4G + port £2073.16 11/2 40 45.7 0 64 16 St.St.316 280A40V4G112 £3306.96

**OPTIONS** 

St.St.316

280A50V4G2

£3589.33

+7%

+£48.55

+£73.45

+£67.16

+£352.25 +£511.72

16

Normally Open version (280B) Namur Valve CY52002S single acting spring close

2

Namur Valve CY52002D double acting

50

47.2

ATEX 22001EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (68)

E1 Open or Closed position feedback switch

E2 Open & Closed position feedback switches

Vacuum - Degreased - Flanged - Galvanised or Nickel Plated - Mounting Brackets - NBR EPDM PTFE sealing

64

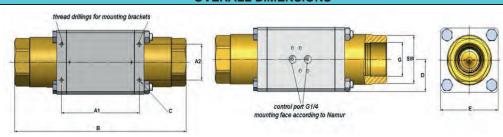
CONSTRUCTION

Body: Brass MS058 (MO version): Option St steel 303 (V2G) or St steel 316L (V4G)

0

Tube and internal parts: Stainless steel

Seals: Static FKM - Dynamic FKM + PTFE - Seat PTFE (Optional NBR and EPDM)

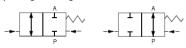


DN	G	sw	<b>A1</b> (mm)	<b>A2</b> (mm)	B (mm)	С	<b>D</b> (mm)	E (mm)	Kg
10	1/4 3/8 1/2 (3/4*)	32	84	-	159.5	M4	25	50	1.6
15	3/8 1/2 3/4 (1*)	41	100	-	184	M5	35	70	2.8
20	1/2 3/4 1 (11/4*)	46	108	-	215	M5	40	80	4.0
25	3/4 1 11/4 (11/2*)	55	121	-	246	M5	45	90	5.3
32	1 11/4 11/2 (2*)	60	122	50	269	M6	45	90	6.9
40	11/2	75	131	60	304	M6	55	110	11.7
50	2	75	131	60	304	M6	55	110	11.7

Media: air – water – oil - vacuum Pressure range : 0 to 120 bar max Media temperature : -10°C to +100°C Ambient temperature : -10°C to +50°C Control pressure : 3 – 8 Bar air Media viscosity : 500 centistokes max

Mounting: any position

Opening/Closing: 50 - 1000 mSec



### 2/2 Brass

1/4 – 2" COAXIAL N/CLOSED + N/OPEN 2 WAY PNEUMATIC 0 - 120 Bar TYPE 281



					PRESSURE			
Port	Ø	Flow	Pr	essure Rat		Body		List
BSP	Orifice	Kv	min		Max.	Material	Part Number	Price
20.	(mm)	M³/Hr	111111	P⇒A	A⇒P	matorial		11100
1/4, 3/8, 1/2, (3/4*)	10	2.7	0	120	16	Brass	281A10MOG + port	£476.54
3/8, 1/2, 3/4, (1*)	15	7.2	0	120	16	Brass	281A15MOG + port	£568.71
1/2, 3/4, 1, (11/4*)	20	9.4	0	120	16	Brass	281A20MOG + port	£737.56
3/4, 1, 11/4 (11/2*)	25	14.5	0	120	16	Brass	281A25MOG + port	£869.36
1, 11/4, 11/2, (2*)	32	20.0	0	100	16	Brass	281A32MOG + port	£1350.60
11/2	40	45.7	0	100	16	Brass	281A40MOG112	£1712.00
2	50	47.2	0	100	16	Brass	281A50MOG2	£1829.26
1/4, 3/8, 1/2, (3/4*)	10	2.7	0	120	16	St.St.303	281A10V2G + port	£637.43
3/8, 1/2, 3/4, (1*)	15	7.2	0	120	16	St.St.303	281A15V2G + port	£1094.74
1/2, 3/4, 1, (11/4*)	20	9.4	0	120	16	St.St.303	281A20V2G + port	£1355.76
3/4, 1, 11/4 (11/2*)	25	14.5	0	120	16	St.St.303	281A25V2G + port	£1626.39
1, 11/4, 11/2, (2*)	32	20.0	0	100	16	St.St.303	281A32V2G + port	£2002.80
11/2	40	45.7	0	100	16	St.St.303	281A40V2G112	£3119.12
2	50	47.2	0	100	16	St.St.303	281A50V2G2	£3331.59
1/4, 3/8, 1/2, (3/4*)	10	2.7	0	120	16	St.St.316	281A10V4G + port	£752.35
3/8, 1/2, 3/4, (1*)	15	7.2	0	120	16	St.St.316	281A15V4G + port	£1191.83
1/2, 3/4, 1, (11/4*)	20	9.4	0	120	16	St.St.316	281A20V4G + port	£1477.95
3/4, 1, 11/4 (11/2*)	25	14.5	0	120	16	St.St.316	281A25V4G + port	£1693.23
1, 11/4, 11/2, (2*)	32	20.0	0	100	16	St.St.316	281A32V4G + port	£2161.81
11/2	40	45.7	0	100	16	St.St.316	281A40V4G112	£3402.42
2	50	47.2	0	100	16	St.St.316	281A50V4G2	£3541.73

Normally Open version (281B)

Namur Valve CY52002S single acting spring close

Namur Valve CY52002D double acting

ATEX 22001EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C

E1 Open or Closed position feedback switch E2 Open & Closed position feedback switches

Vacuum – Degreased – Flanged – Galvanised or Nickel Plated Body – Mounting Brackets – NBR EPDM PTFE seals

### CONSTRUCTION

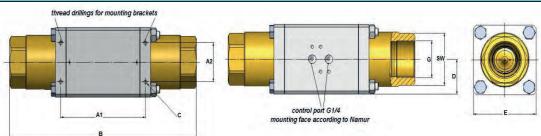
**OPTIONS** 

Body: Brass MS058 (MO version): Option St steel 303 (V2G) or St steel 316L (V4G)

Tube and internal parts : Stainless steel

Seals : Static FKM - Dynamic FKM + PTFE - Seat PTFE (Optional NBR and EPDM)

#### OVERALL DIMENSIONS



DN	G	sw	<b>A1</b> (mm)	<b>A2</b> (mm)	B (mm)	С	<b>D</b> (mm)	E (mm)	Kg
10	1/4 3/8 1/2 (3/4*)	32	84	-	159.5	M4	25	50	1.6
15	3/8 1/2 3/4 (1*)	41	100	-	184	M5	35	70	2.8
20	1/2 3/4 1 (11/4*)	46	108	-	215	M5	40	80	4.0
25	3/4 1 11/4 (11/2*)	55	121	-	246	M5	45	90	5.3
32	1 11/4 11/2 (2*)	60	122	50	269	M6	45	90	6.9
40	11/2	75	131	60	304	M6	55	110	11.7
50	2	75	131	60	304	M6	55	110	11.7

2/2 & 3/2 Coaxial Solenoid Valves

2/2 & 3/2 Coaxial Air Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanical Air Valves

Accessories
Fittings,
Tubing

FRL's, Filters Regulators Lubricators

+ 7%

+£48.55

+£73.45

+£67.16

+£352.25

+£511.72

Air Actuated Valves

Arrestors
Vent Suction
Check Valves

Proportional Sub Base

Timers, Coils & Connectors

Vlagnets & Y Filters Brass 2/2 N/Closed

Brass 2/2 N/Closed Pilot

Brass 2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

> 2/2 N/Open

Stoom

Plastic 2/2 V/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas

Pressure Reducing Valves 2/2 Brass & St.St.

1/4 – 11/4" COAXIAL N/CLOSED + N/OPEN 2 WAY PNEUMATIC 0 - 160 Bar TYPE 282



+ 7%

+6%

+£48.55

+£73.45

+£67.16 +£352.25

+£511.72

					PRESSU	IRE		
	a	Flow	Pres	sure Rating	(bar) ∆P			
Port BSP	Ø Orifice	Kv	min	Ma	ax.	Body Material	Part Number	List Price
50.	(mm)	M³/Hr	min	P⇒A	A⇒P	material		1 1100
1/4, 3/8, 1/2, (3/4*)	10	2.7	0	160	16	Brass	282A10MOG + port	£524.15
3/8, 1/2, 3/4, (1*)	15	7.2	0	160	16	Brass	282A15MOG + port	£682.34
1/2, 3/4, 1, (11/4*)	20	9.4	0	160	16	Brass	282A20MOG + port	£720.92
3/4, 1, 11/4, (11/2*)	25	14.5	0	160	16	Brass	282A25MOG + port	£867.72
1/4, 3/8, 1/2, (3/4*)	10	2.7	0	160	16	St.St.303	282A10V2G + port	£693.01
3/8, 1/2, 3/4, (1*)	15	7.2	0	160	16	St.St.303	282A15V2G + port	£1121.95
1/2, 3/4, 1, (11/4*)	20	9.4	0	160	16	St.St.303	282A20V2G + port	£1421.43
3/4, 1, 11/4, (11/2*)	25	14.5	0	160	16	St.St.303	282A25V2G + port	£1626.63
1/4, 3/8, 1/2, (3/4*)	10	2.7	0	160	16	St.St.316	282A10V4G + port	£881.09
3/8, 1/2, 3/4, (1*)	15	7.2	0	160	16	St.St.316	282A15V4G + port	£1351.78
1/2, 3/4, 1, (11/4*)	20	9.4	0	160	16	St.St.316	282A20V4G + port	£1550.65
3/4, 1, 11/4, (11/2*)	25	14.5	0	160	16	St.St.316	282A25V4G + port	£1795.49

Normally Open version (282B)

Media: air - water - oil - vacuum

Pressure range : 0 to 160 Bar max Media temperature : -10°C to +100°C

Ambient temperature : -10°C to +50°C Control pressure : 3 – 8 Bar air

Media viscosity: 500 centistokes max

Opening/Closing: 50 - 1000 mSec

Mounting: any position

Fastening Brackets (Steel Zinc plated)

Namur Valve CY52002S single acting spring close

Namur Valve CY52002D double acting

ATEX 22001EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C 🥮

E1 Open or Closed position feedback switch E2 Open & Closed position feedback switches

Many other options available upon request – Vacuum – Nickel Plated – Free of oil and Grease – Flanged – Stainless Steel

304 or 316

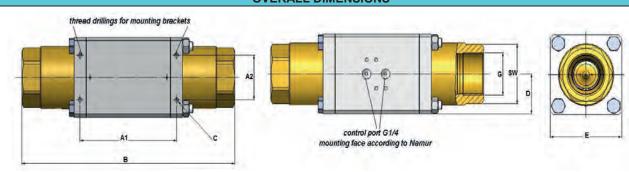
### CONSTRUCTION

**OPTIONS** 

Body: Brass MS058 (MO version): Option St steel 303 (V2G) or St steel 316L (V4G)

Tube and internal parts: Stainless steel

Seals: Static FKM - Dynamic FKM + PTFE - Seat PTFE (Optional NBR and EPDM)



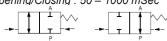
DN	G	sw	<b>A1</b> (mm)	<b>A2</b> (mm)	B (mm)	С	<b>D</b> (mm)	E (mm)	Kg
10	1/4 3/8 1/2 (3/4*)	32	84	-	159.5	M4	25	50	1.6
15	3/8 1/2 3/4 (1*)	41	100	-	184	M5	35	70	2.8
20	1/2 3/4 1 (11/4*)	46	108	-	215	M5	40	80	4.0
25	3/4 1 11/4 (11/2*)	55	121	-	246	M5	45	90	5.3

Media: air - water - oil - vacuum Pressure range: 0 to 200 bar max Media temperature : -10° to +100°C Ambient temperature : -10° to +50°C Control pressure: 3 – 8 Bar air

Media viscosity: 500 centistokes max

Mounting: any position

Opening/Closing: 50 - 1000 mSec



### 2/2 Brass & St.St.

3/8 - 1" COAXIAL N/CLOSED + N/OPEN 2 WAY PNEUMATIC 0 - 200 Bar **TYPE 283** 



283A25V2G1

				PRESS	BURE			
		Flow		Pressure Rating (I	oar) ∆P			
Port Ø Orifice (mm)	Kv	min	Ma	ax.	Body Material	Part Number	List Price	
	(mm) <i>M³/Hr</i>			P⇒A	A⇒P			
3/8, 1/2, 3/4	15	7.2	0	200	16	Brass	283A15MOG + port	£1315.19
3/8, 1/2, 3/4	15	7.2	0	200	16	St.St.303	283A15V2G + port	£1490.61
1	25	14.5	0	200	16	Brass	283A25MOG1	£1982.87

**OPTIONS** 

16

St.St.303

200

Normally Open version (283B)

Fastening Brackets (Steel Zinc plated)

Namur Valve CY52002S single acting spring close

25

Namur Valve CY52002D double acting

ATEX 22001EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C

14.5

Many other options available upon request - Vacuum - Nickel Plated - Free of oil and Grease

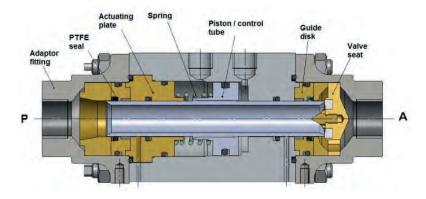
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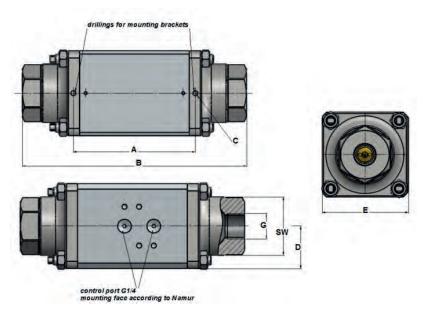
CONSTRUCTION

Body: Brass MS058 (MO version): Option St steel 303 (V2G) or St steel 316L (V4G) Tube and internal parts: Stainless steel

Seals : Static FKM - Dynamic FKM + PTFE - Seat PTFE (Optional NBR and EPDM)

#### **OVERALL DIMENSIONS**





DN	G	SW	<b>A1</b> (mm)	B (mm)	С	<b>D</b> (mm)	E (mm)	Kg
15	3/8 1/2 3/4	50	100	184	M5	35	70	3.2

2/2 & 3/2 Coaxial Air Valves

£2393.28

+6%

+£48.55

+£73.45

+£67.16

Brass 2/2 N/Closed

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed

Stainless 2/2 N/Open

Stear

Plastic 2/2

> Plastic Acids/

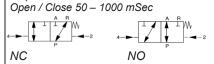
2/2 Latching Bi-Stable

> EN161 Gas Valves

Pressure Reducing Valves Media: air – water – oil - vacuum
Pressure range: 0 to 64 bar max
Media temperature: -20°C to +100°C

Media temperature: -20°C to +100°C Ambient temperature: -30°C to +50°C Media viscosity: 500 centistokes max

Mounting: any position Air pilot: 3 - 8 bar



### 3/2 Brass & Stainless

1/4 – 2" COAXIAL N/CLOSED & N/OPEN 3 WAY PNEUMATIC 0 - 64 Bar TYPE 380



+10%

+£48.55

+£73.45 +£67.16

+£352.25

+£511.72

					PRESSU	RE		
		Flow		Pressure Ratir	ng (Bar)			
Port BSP	Ø Orifice	Kv	min	Ma	ax.	Body Material	Part Number	List Price
	(mm)	M³/Hr		P⇒A P⇒R	A⇒P R⇒P			
1/4, 3/8, 1/2	10	2.5	0	64	16	Brass	380A10MOG + port	£540.57
3/8, 1/2, 3/4	15	6.6	0	64	16	Brass	380A15MOG + port	£580.21
1/2, 3/4, 1	20	10.0	0	64	16	Brass	380A20MOG + port	£676.83
3/4, 1, 11/4	25	12.2	0	64	16	Brass	380A25MOG + port	£816.37
1, 11/4, 11/2	32	17.9	0	64	16	Brass	380A32MOG + port	£1177.76
11/2	40	41.5	0	64	16	Brass	380A40MOG112	£2040.32
2	50	43.0	0	64	16	Brass	380A50MOG2	£2626.62
1/4, 3/8, 1/2	10	2.5	0	64	16	St.St.303	380A10V2G + port	£674.25
3/8, 1/2, 3/4	15	6.6	0	64	16	St.St.303	380A15V2G + port	£1022.27
1/2, 3/4, 1	20	10.0	0	64	16	St.St.303	380A20V2G + port	£1206.14
3/4, 1, 11/4	25	12.2	0	64	16	St.St.303	380A25V2G + port	£1708.01
1, 11/4, 11/2	32	17.9	0	64	16	St.St.303	380A32V2G + port	£2246.71
11/2	40	41.5	0	64	16	St.St.303	380A40V2G112	£3705.42
2	50	43.0	0	64	16	St.St.303	380A50V2G2	£4186.18
1/4, 3/8, 1/2	10	2.5	0	64	16	St.St.316	380A10V4G + port	£747.89
3/8, 1/2, 3/4	15	6.6	0	64	16	St.St.316	380A15V4G + port	£1148.68
1/2, 3/4, 1	20	10.0	0	64	16	St.St.316	380A20V4G + port	£1383.20
3/4, 1, 11/4	25	12.2	0	64	16	St.St.316	380A25V4G + port	£1868.42
1, 11/4, 11/2	32	17.9	0	64	16	St.St.316	380A32V4G + port	£2534.70
11/2	40	41.5	0	64	16	St.St.316	380A40V4G112	£4058.37
2	50	43.0	0	64	16	St.St.316	380A50V4G2	£4574.32

Normally Open (380B)

PTFE Seals

Namur Valve CY52002S single acting spring close

Namur Valve CY52002D double acting

ATEX 22001EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C

E1 Open or Closed position feedback switch
E2 Open & Closed position feedback switches

Many other options available upon request - Vacuum - Nickel Plated - Free of oil and Grease - Flanged - Mounting

Brackets

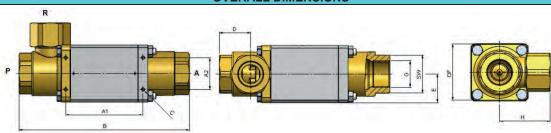
#### CONSTRUCTION

**OPTIONS** 

Body: Brass MS058 (MO): Optional St steel 303 (V2G) or 316L (V4G)

Tube and internal parts: Stainless steel

Seals: Static FKM, Dynamic PTFE + FKM, Seat PTFE



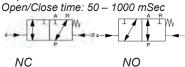
DN	G	sw	<b>A1</b> (mm)	<b>A2</b> (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	H (mm)	Kg
10	1/4 3/8 1/2	32	84	-	166.5	M4	32	25	50	37	1.8
15	3/8 1/2 3/4	41	100	1	200	M5	38.5	35	70	60	3.2
20	1/2 3/4 1	46	108	-	228	M5	45.5	40	80	72	4.6
25	3/4 1 11/4	55	121	-	252	M5	48	45	90	80	6.5
32	1 11/4 11/2	60	122	50	269	M6	49.5	45	90	80	7.6
40	11/2	75	131	60	304	M6	56.5	55	110	84	12.1
50	2	75	131	80	304	M6	56.5	55	110	84	12.1

Media: air – water – oil - vacuum Pressure range: 0 to 100 Bar max Media temperature: -10°C to +100°C Ambient temperature: -10°C to +50°C Media viscosity: 500 centistokes max

Mounting: any position

NC

Air pilot: 3 - 8 bar



## 3/2 Brass & Stainless

1/4 - 2" COAXIAL N/CLOSED & N/OPEN 3 WAY PNEUMATIC 0 - 100 Bar **TYPE 381** 



					PRESSURE			
Port BSP	Ø Orifice	Flow Kv		Pressure Rati Ma	ng (Bar) ax.	Body Material	Part Number	List Price
BSF	(mm)	M³/Hr	min	P⇒A P⇒R	A⇒P R⇒P	Waterial		FIICE
1/4, 3/8, 1/2	10	2.5	0	100	16	Brass	381A10MOG + port	£540.57
3/8, 1/2, 3/4	15	6.6	0	100	16	Brass	381A15MOG + port	£740.15
1/2, 3/4, 1	20	10.0	0	100	16	Brass	381A20MOG + port	£849.43
3/4, 1, 11/4	25	12.2	0	100	16	Brass	381A25MOG + port	£1000.93
1, 11/4, 11/2	32	17.9	0	100	16	Brass	381A32MOG + port	£1414.39
11/2	40	41.5	0	100	16	Brass	381A40MOG-112	£2392.10
2	50	43.0	0	100	16	Brass	381A50MOG-2	£3236.38
1/4, 3/8, 1/2	10	2.5	0	100	16	St.St.303	381A10V2G + port	£828.09
3/8, 1/2, 3/4	15	6.6	0	100	16	St.St.303	381A15V2G + port	£1130.38
1/2, 3/4, 1	20	10.0	0	100	16	St.St.303	381A20V2G + port	£1365.14
3/4, 1, 11/4	25	12.2	0	100	16	St.St.303	381A25V2G + port	£1848.02
1, 11/4, 11/2	32	17.9	0	100	16	St.St.303	381A32V2G + port	£2532.82
11/2	40	41.5	0	100	16	St.St.303	381A40V2G-112	£4033.74
2	50	43.0	0	100	16	St.St.303	381A50V2G-2	£4504.90
1/4, 3/8, 1/2	10	2.5	0	100	16	St.St.316	381A10V4G + port	£965.76
3/8, 1/2, 3/4	15	6.6	0	100	16	St.St.316	381A15V4G + port	£1250.46
1/2, 3/4, 1	20	10.0	0	100	16	St.St.316	381A20V4G + port	£1502.11
3/4, 1, 11/4	25	12.2	0	100	16	St.St.316	381A25V4G + port	£2064.95
1, 11/4, 11/2	32	17.9	0	100	16	St.St.316	381A32V4G + port	£2814.47
11/2	40	41.5	0	100	16	St.St.316	381A40V4G-112	£4408.98
2	50	43.0	0	100	16	St.St.316	381A50V4G-2	£4710.10

Normally Open (381B)

Namur Valve CY52002S single acting spring close

Namur Valve CY52002D double acting

ATEX 22001EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C

E1 Open or Closed position feedback switch

E2 Open & Closed position feedback switches

Vacuum - Nickel or Galvanised Steel - Oil / Grease Free - Flanged - Mounting Brackets - PTFE NBR EPDM seals

### CONSTRUCTION

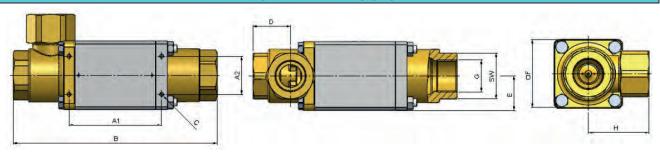
**OPTIONS** 

Body: Brass MS058 (MO): Optional St steel 303 (V2G) or 316L (V4G)

Tube and internal parts: Stainless steel

Seals: Static FKM - Dynamic PTFE + FKM - Seat PTFE (Optional NBR or EPDM)

### **OVERALL DIMENSIONS**



DN	G	sw	<b>A1</b> (mm)	<b>A2</b> (mm)	B (mm)	C (mm)	<b>D</b> (mm)	E (mm)	F (mm)	H (mm)	Kg
10	1/4 3/8 1/2	32	84	-	166.5	M4	32	25	50	37	1.8
15	3/8 1/2 3/4	41	100	1	200	M5	38.5	35	70	60	3.2
20	1/2 3/4 1	46	108	-	228	M5	45.5	40	80	72	4.6
25	3/4 1 11/4	55	121	1	252	M5	48	45	90	80	6.5
32	1 11/4 11/2	60	122	50	269	M6	49.5	45	90	80	7.6
40	11/2	75	131	60	304	M6	56.5	55	110	84	12.1
50	2	75	131	80	304	M6	56.5	55	110	84	12.1

2/2 & 3/2 Coaxial Air Valves

+£48.55

+£73.45

+£67.16 +£352.25

+£511.72

Brass 2/2 N/Closed 0 Rated Media: air - water - gas - liquid

Pressure range: 0 to 10 bar max Media temperature: -15°C +100° C max

Duty cycle: 70,000

Mounting: Any Seals: Silicone + PTFE

Ambient temperature: -20° to +45° C

Media viscosity: 500 centistokes max

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

Stainless 2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

> 2/2 N/Oper

> > Stean

Plastic

Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas

Pressure Reducing Valves Actuated PVC Ball Valve

1/2 – 3/4 NORMALLY CLOSED 2 WAY DIRECT 0 – 10 Bar



TYPE ABVMP-AR

	PRESSURE								
Ø Port BSP	Orifice mm	Max Opening Time Seconds	Max Closing Time Seconds	Min (Bar)	Max (Bar)	Voltage	Part Number	List Price	
1/2	15	3	3	0	10	9 to 24v AC or DC	ABVM04P-9AR	£54.12	
1/2	15		3	U	10	85 to 265v AC	ABVM04P-2AR	£78.16	
3/4	15	5	5	0	10	9 to 24v AC or DC	ABVM06P-9AR	£57.15	
3/4	15	15 5 5 0	U	0 10 -		ABVM06P-2AR	£81.18		

**OPTIONS** 

3 to 6 volt, manual Over Ride, Visual Position Indicator, 316 Stainless Steel or Brass Valve, Failsafe open, 3 wire control (power open/power close and open / closed signal position feedback.

TBA

		ELECTRICAL DATA	4			
Voltage Min - Max	Actu	ıator	Dower	Englosure	Electrical connections	
Continuous duty 100%	Model	Torque	Power	Enclosure		
9 to 24 volts AC 50/60Hz or DC	ABVM	2 Nm	5 Watts	IP65	2 lead wires	
85 to 265 volts AC 50/60Hz	ADVIVI	Z INIII	5 Walls	1705	0.5 meter	
		CONCEDUCTION				

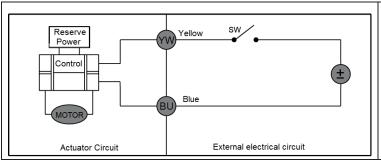
CONSTRUCTION

Valve Body: CPVC Plastic, Optional Brass or 304 and 316 stainless steel

ABVM Actuator: ABS Engineering Plastic , Gears Metal and POM

#### OVERALL DIMENSIONS

Requires minimum 60 second power ON time to charge the reserve power to close.



Switch power ON valve motor actuates valve into fully open position and then automatically powers off.

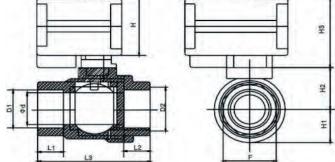
Valve stays open.

Switch power OFF valve motor actuates valve into fully closed position utilising reserve power.

Valve stays closed.

Option: failsafe open, 2 wire control, 3 wire 2 point control, 3 wire 1 point control and signal feedback.

3 D	a	Kg
0 52	62	0.34
0 52	62	0.33
	-	
-		
聖		
(	52 52	0 52 62 0 52 62



Media: air - water - gas - liquid Pressure range: 0 to 10 bar max Media temperature: -15°C +100°C max Ambient temperature: -20°C to +45°C Media viscosity: 500 centistokes max

Duty cycle: 70,000 Mounting: Any Seals: PTFE

## Actuated Ball Valve

3/8 - 1NORMALLY CLOSED 2 WAY DIRECT 0 - 10 Bar



## TYPE ABVM-AR

				PI	RESSURE					
Ø Port BSP	Orifice mm	Max Opening Time Seconds	Max Closing Time Seconds	Min (Bar)	Max (Bar)	Voltage	Part Number	List Price		
						5 to 6vDC	ABVM04S-6V	£54.12		
1/2	15	3	3	0	0	0 10	9 to 24v AC or DC	ABVM04S-9AR	204.12	
						85 to 265v AC	ABVM04S-2AR	£78.16		
						5 to 6vDC	ABVM06S-6V	£69.14		
3/4	20	5	5	0	10	9 to 24v AC or DC	ABVM06S-9AR	209.14		
						85 to 265v AC	ABVM06S-2AR	£93.17		
						5 to 6vDC	ABVM08S-6V	£90.20		
1	25	5	5	0	10	9 to 24v AC or DC	ABVM08S-9AR	250.20		
						85 to 265v AC	ABVM08S-2AR	£114.24		

#### **OPTIONS**

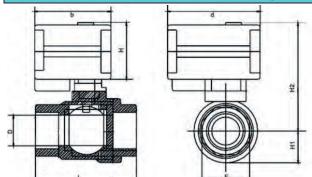
Manual Over Ride, Visual Position Indicator, 316 Stainless Steel or Brass Valve, Failsafe open, 3 wire control (power open/power closed), and open / closed signal position feedback.

TBA

	ELECTRICAL DATA									
Voltage Min - Max	Acti	uator	Power	En ele euro	Electrical					
Continuous duty 100%	Model	Torque	Power	Enclosure	connections					
5 to 6 volts DC										
9 to 24 volts AC 50/60Hz or DC	ABVM	2 Nm	5 Watts	IP65	2 lead wires 0.5 meter					
85 to 265 volts AC 50/60Hz					0.00.0.					
CONSTRUCTION										

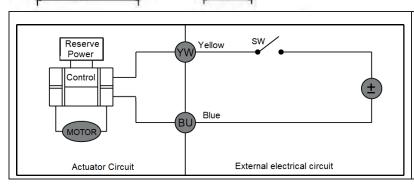
Valve Body: 304 stainless steel, Optional Brass or 316 stainless steel ABVM Actuator: ABS Engineering Plastic, Gears Metal and POM

### **OVERALL DIMENSIONS**



Port	D	L	F	H1	H2	Н	d	b	Kg
1/2	15	55	26.5	17	75	45	67	52	0.4
3/4	20	70.5	31	20	75	45	67	52	0.5
1	23	72	37	22	80	45	67	52	0.6

Requires minimum 60 second power ON time to charge the reserve power to close.



Switch power ON valve motor actuates valve into fully open position and then automatically powers

Valve stays open.

Switch power OFF valve motor actuates valve into fully closed position utilising reserve power. Valve stays closed.

Option: failsafe open, 2 wire control, 3 wire 2 point control, 3 wire 1 point control and signal feedback.

Electric Actuated **Ball Valves** 

Media: air – water – gas – liquid Pressure range: 0 to 10 bar max Media temperature: 0°C to +100°C max Ambient temperature: -20°C to +45°C Media viscosity: 500 centistokes max

Duty cycle: 100,000

Mounting: Any Seals: PTFE

### Actuated Ball Valve

11/4 - 2N/CLOSED + N/OPEN 2 WAY ISO5211 0 - 10 Bar



TYPE ABV-AR

	PRESSURE								
Ø Port BSP	Orifice mm	Max Opening Time Seconds	Max Closing Time Seconds	Min (Bar)	Max (Bar)	Voltage	Part Number	List Price	
11/4	32	12	12	0	10	9 to 35v AC/DC	ABV12S-9AR	£234.52	
11/4	32	12	12 0 10	10	85 to 250vAC	ABV12S-2AR	£255.134		
11/2	38	12	12	0	10	9 to 35v AC/DC	ABV14S-9AR	£273.625	
11/2	30	12	12	U	0 10	85 to 250vAC	ABV14S-2AR	£294.239	
2	50	12	12	0	10	9 to 35v AC/DC	ABV20S-9AR	£330.715	
2	50	12	12	U	10	85 to 250vAC	ABV20S-2AR	£351.329	

#### **OPTIONS**

Visual Position Indicator

Manual stay button, disengages motor so valves keeps position until button pulled back to reengage motor. Failsafe Open

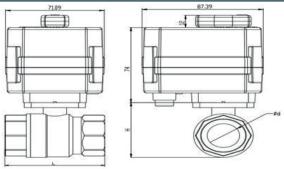
Included Included +10% **TBA** 

3 to 6 volt, 316 Stainless Steel or Brass Valve, 3 wire (power open/power closed)or open / closed signal position feedback

		ELECTRICAL D	ATA			
Voltage Min - Max	Actu	ıator	Power	Enclosure	Electrical	
Continuous duty 100%	Model	Torque	Power	Eliciosure	connections	
9 to 35 volts AC 50/60 Hz or DC	ABV-AR	20 Nm	22 Watt	IP67	2 lead wires	
85 to 250 volts AC 50/60 Hz	ADV-AR	20 MIII	ZZ Wall	vatt IP67		

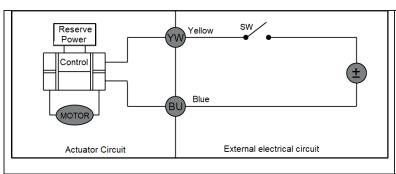
CONSTRUCTION Valve Body: 304 stainless steel, Optional Brass or 316 stainless steel, Plastic UPVC or CPVC ABV Actuator: ABS Engineering Plastic with ISO5211 valve mounting Gears Metal

### **OVERALL DIMENSIONS**



Port	ød	┙	Η	d	Kg
11/4	32	90	84	32	1.2
11/2	40	98	100	38	1.5
2	50	121	118	50	2.2

Requires minimum 60 second power ON time to charge the reserve power to close. Designed for very long periods power ON.



Switch power ON valve motor actuates valve into fully open position and then automatically powers off.

Valve stays open.

Switch power OFF valve motor actuates valve into fully closed position utilising reserve power. Valve stays closed.

Option: failsafe open, 2 wire control, 3 wire 2 point control, 3 wire 1 point control and signal feedback. Media: air – water – gas – oil Pressure range: 0 to 40 Bar max Media temp: -20°C to +95°C max Ambient temp: -20°C to +70°C Mounting: Any position Cycles: 20,000

Opening/Closing: 10-15 Sec Duty cycle: 75% (min 1 min stop between cycles for cooling)

Orifice

(mm)

15

15

15

20

25

32

40

50

Port

**BSP** 1/4

3/8

1/2

3/4

1

11/4

11/2

2

Min

(Bar)

0

0

0

0

0

0

0

0

### Actuated WRAS Ball Valve

Open-Close, Failsafe or Modulating ISO5211 2 WAY DIRECT 0 - 40 Bar

## TYPE CNX20-2BW

CNX202BW2 + voltage + option

**PRESSURE** 

Max at Ambient Temp

(Bar)

40

40

40

40

40

40

40

40



0-2BW	W	RAS APPRODUCT
Part Number		List Price
CNX202BW14 + voltag	e + option	
CNX202BW38 + voltag	£329.96	
CNX202BW12 + voltag	e + option	
CNX202BW34 + voltag	e + option	£340.66
CNX202BW1 + voltage	e + option	£358.05
CNX202BW114 + voltag	ge + option	£395.74
CNX202BW112 + voltag	ge + option	£428.13

OPTIONS OPTIONS					
Basic actuator, Visual Position Indicator, Manual Over Ride, 2x volt free open + closed contact feedback cam adjustable switches	Included				
Anti-condensation heater (ACH)	+£12.28				
Aluminium cover (ALC)	+£20.46				
Relay output with alarm (RO)	+£20.46				
Failsafe return (power off valve automatically returns to start position) 15NM Max (FSC closed or FSO open)	+£102.30				
Valve: 2 PC and 3 PC stainless or plastic.	TBA				
Smart actuator, with LED & button control for override, dead band; speed control, closed position & reverse action adjustment (CNX20S)	+£132.99				
Modulating 4-20mAmp (Smart actuator only) (CNX20SM)	+£16.37				
Wireless (Smart actuator only) (CNX20SW)	+£69.56				
Modbus (Smart actuator only) (CNX20SMB)	+£0.00				
High speed actuator (24vDC Smart actuator only) (CNX20SHS)	+£34.10				
Timer (Smart actuator only) (CNX20ST)	+£8.18				

	TECHNICAL DATA										
Rated Voltage		Torque		Power Consumption				Run			
	Voltage Range	Max Break	Working	Run Watts	Hold Watts	Max Current	Fuse	time	IP		
12 volts DC	10 – 15 Volts	15	15	9.5	0.3	1A for 5ms	2Amp	12 Sec			
24 volts DC	22 – 28 Volts	20	15	9.6	0.3	500mA for 5ms	2Amp	10 Sec			
24 volts AC	22 – 28 Volts	20	15	10.8	0	450mA for 5ms	2Amp		IP67		
110 volts AC	90 – 130 Volts	20	15	15	0	135mA for 5ms	1Amp	15 Sec			
230 volts AC	190 – 250 Volts	20	15	13.2	0	60mA for 5ms	1Amp				

#### CONSTRUCTION

Valve Body: WRAS full flow 2 piece Brass nickel plated, ball brass chrome plated, seals PTFE CNX02N Actuator: ABS Engineering Plastic

### **OVERALL DIMENSIONS**



Port	A1 (cm)	B1 (cm)	H (cm)	L1 (cm)	W1 (cm)	W2 (cm)
1/2	8.5	4.5	13	6	3	6.5
3/4	8.5	5.5	14	7	4	6.5
1	8.5	6	14.5	8	5	6.5
11/4	8.5	7	15.5	9	6	6.5
11/2	8.5	9	17.5	10	7	6.5

Electric Actuated Ball Valves

£493.46

Media: air - water - gas - oil Pressure range: 0 to 63 Bar max Media temp: -20°C to +80°C max Ambient temp: -20°C to +70°C Mounting: Any position

Cycles: 20,000

Opening/Closing: 10-20 Sec Duty cycle: 75% (min 1 min stop between cycles for cooling)

### Actuated St.St. Ball Valve

Open-Close, Failsafe or Modulating ISO5211 2 WAY DIRECT 0 - 63 Bar

### TYPE CNX--3S



Included

See below

See below

+£12.28 +£20.46

+£20.46

				PRESSURE	- '		
Ø Port BSPT	Orifice (mm)	Actuator	Min (Bar)	Max at Ambient Temp (Bar)	Part Number	List Price	
1/4	15	CNX20	0	63	CNX20-3S02 + voltage	£330.77	
3/8	15	CNX20	0	63	CNX20-3S03 + voltage		
1/2	15	CNX20	0	63	CNX20-3S04 + voltage	£337.59	
3/4	20	CNX20	0	63	CNX20-3S06 + voltage	£365.64	
1	25	CNX20	0	63	CNX20-3S08 + voltage	£364.87	
11/4	32	CNX60	0	63	CNX60-3S12 + voltage	£416.02	
11/2	40	CNX60	0	63	CNX60-3S14 + voltage	£826.93	
2	50	CNX60	0	63	CNX60-3S20 + voltage	£888.31	
21/2	65	CNX60	0	63	CNX60-3S24 + voltage	£1184.98	
3	80	CNX110	0	63	CNX110-3S28 + voltage	£1535.36	
4	100	CNX110	0	63	CNX110-3S32 + voltage	£1965.02	

**OPTIONS** 

Basic actuator, Visual Position Indicator, Manual Over Ride, 2x volt free open + closed contact feedback cam adjustable switches Basic actuator with failsafe (other options such as Modulating, Wireless, Modbus or High Speed require Smart Actuator) Smart actuator, includes LED & button control for over ride, dead band; speed control, closed position & reverse acting adjustments (CNXS) Anti-condensation heater (ACH)

Aluminium cover (ALC)

Smart actuator (CNX20S)

110

Relay output with alarm (RO) **CNX20 Smart** 

**CNX60 Smart CNX110 Smart** Smart actuator (CNX60S) +£115.08 Smart actuator (CNX110S) +£36.66 +£86.11 Modulating 4-20mAmp CNX110SM +£138.11 Modulating 4-20mAmp (CNX60SM) Wireless (CNX110SW) **TBA TBA TBA** Modbus (CNX110SMB) **TBA** High speed 24vDC only (CNX60SHS) +£106.57 High speed 24vDC CNX110SHS +£121.55 +£204.60 +£204.60

Failsafe Return 3 & 4" valve

0.3 for 5ms

Modulating 4-20mAmp (ĆNX20SM) Wireless (CNX20SW) Modbus (CNX20SMB) High speed 24vDC only (CNX20SHS) Failsafe Return 1/4-1" valve

+£16.37 Wireless (CNX60SW) +£69.56 +£0.00 Modbus (CNX60SMB) +£34.10 +£102.30 Failsafe Return 11/4-21/2" valve

+£132.99

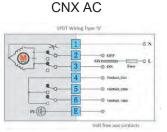
**TECHNICAL DATA** 

Voltage Torque (NM) **Power Consumption** Rated Run time CNX Range Max Run Hold Max Fuse Voltage (Sec) Working (Volts) Watts Watts Current Break (Amp) 20 DC24 22 - 2820 15 9.6 0.3 500mA for 5ms 2 10 20 AC24 22 - 2820 15 10.8 0 450mA for 5 ms 2 20 AC110 90 - 13020 15 15 0 135mA for 5 ms 1 15 20 AC230 190 - 25020 15 13.2 0 60mA for 5 ms 1 60 DC24 21.6-26.4 60 60 36 1.5 4 2.5 for 5ms 60 AC24 60 60 50 0 10 22-28 2.5 for 5ms AC110 60 60 55 0 5 60 90-130 0.6 for 5ms 60 60 55 2 60 AC230 190-250 0 0.3A for 5ms 20 1.5 110 110 DC24 21.6-26.4 110 36 2.5 for 5ms 4 50 10 AC24 22-28 110 110 0 110 2.5 for 5ms 55 110 AC110 90-130 110 110 0 0.6 for 5ms 5

#### 55 CONSTRUCTION

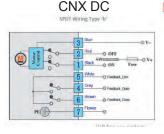
Valve Body: full flow 3 piece stainless steel 1.4408, ball stainless steel 1.4408, seals Viton, seats RPTFE, stem 316 stainless CNX Actuator: ABS Engineering Plastic

### **WIRING**

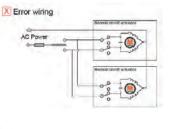


AC230

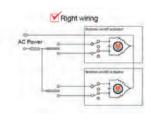
190-250



110



0



2

Media: filtered air class 3,4,3 Pressure range: 0 to 10 bar max Media temperature: -10°C +50° C max Ambient temperature: -10° to +50° C

Media viscosity: Air Only Mounting: any position

Opening / Closing time: 5 -15mSec

Cycles: 2000 cpm

Life expectancy 50 million cycles

15mm Width
DIRECT ACTING
N/CLOSED + OPEN
0 - 10 Bar
TYPE 15

2/2 + 3/2 Pilot Valve



NC

PRESSURE										
		Ori	fice		Flow Rate	Pres	sure	Pov	wer	
Valve Type	Function	Port 1	Port 2	Kv Factor	NL/Min (Port 1 to 2) 6 Bar ∆P 1 bar	Min	Max	Watt DC	VA AC	List Price
Α	3/2 NC	0.8	1.0	0.28	18	0	8	1	3	
В	3/2 NC	1.1	1.5	0.42	28	0	10	2.5	3	
С	3/2 NC	1.5	1.5	0.55	36	0	6	2.5	3	
D	2/2 NC	0.8	-	0.28	18	0	8	1	3	
Е	2/2 NC	1.1	-	0.42	28	0	10	2.5	3	
F	2/2 NC	1.5	-	0.55	36	0	6	2.5	3	
G	3/2 NO	1.0	1.1	0.36	23	0	7	2.5	3	£12.63
Н	3/2 NO	1.5	1.5	0.55	36	0	3.5	2.5	3	
I	2/2 NO	1.0	-	0.4	26	0	10	1	3	
J	2/2 NO	1.5	-	0.55	36	0	10	2.5	3	
K	3/2 NC	0.8	1.0	0.28	18	0	16	2.5	3	
N	3/2 NC	1.1	1.5	0.42	28	2	7.5	1	-	
Q	3/2 UNI	0.8	1.0	0.28/0.36	18/23	2	10	2.5	3	

**OPTIONS** 

M3x18 fixing screws

Integral gasket

Connection DIN C, optional AMP 2.8x0.5, Flying leads, M12

Included Included Included

	ELECTRICAL DATA								
	Voltage (-10% + 10%) Continuous duty 100%	Coil	Power Consumption	Insulation class	Enclosure				
~	24 – 115 - 230 (50 or 60 Hz)	Integral	3VA	H 180°C	IP40 According to EN60529				
=	12 - 24 (DC)	Integral	1 – 2.5 Watts	H 160 C					
	CONSTRUCTION								

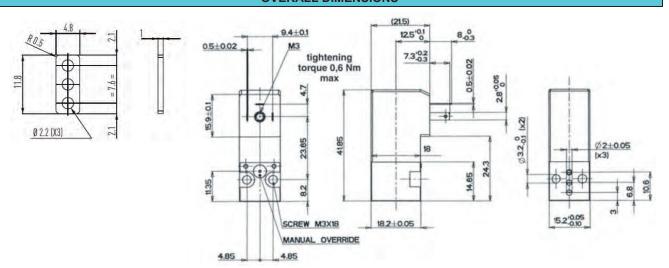
Body: 30% Glass Filled polyester (PBT) Tube and internal parts: Stainless steel Seals and gaskets: NBR (Optional FKM)

Life expectancy 50 Million Cycles, maximum 2000 cycles a minute

#### **REPAIR KIT**

N/A

### OVERALL DIMENSIONS



2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanical Air Valves

Accessories Fittings, Tubing

> FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors
Vent Suction
Check Valves

Pinch Proportional Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filters

Media: air

Media temperature: +50°C max

Low power consumption 0.8 Watts

Mounting: any position

Cycle rate: 20 Hz max Weight (including coil): 10g

Ambient temperature: -10°C to +50°C max

#### 3/2 Miniature Solenoid Valve Pressure range: 0 to 7 Bar max

M5 10mm Width 3/2 Way **DIRECT ACTING** 0 - 7 Bar **YPE VM320** 

3/2 Way Valve Only

	VM320 Series									
	Ø	Ø Orifice	Pressure Rating (Bar)		Pressu	re Rating (Bar)	Max Working	Valve Part Number		List
	Port	(mm²)	Min	Max	Max Working	valve rait Number		Price		
	М5	0.14	0	7	8	VM320 + voltage		£22.25		

**Manifold Only** VM320M Series

Ø Port	Manifold Part Number		List Price Per Station						
М5	VM320M-M5 + number of stations		£4.51						
	ORTIONS								

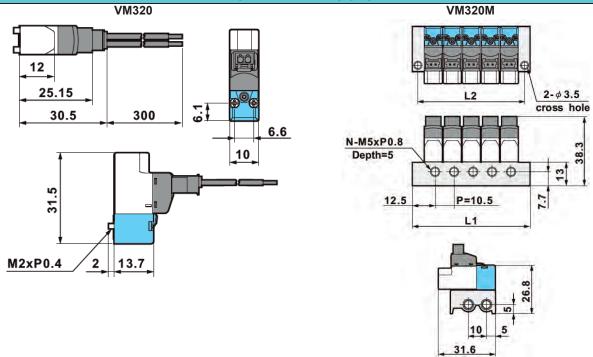
IP65 dust proof Coil & JPC Connector with LED, surge protection & non polarity & short circuit protection

Included

	ELECTRICAL DATA									
Voltage (-10% + 10%) Continuous duty 100%		Power Consumption	Insulation class	Enclosure	Electrical connections					
=	12vDC or 24vDC	0.8 Watts	F 155°C	Dust proof	JPC plug connector					
	CONCERNATION									

CONSTRUCTION

Body: Aluminium alloy, Tube and internal parts: Stainless steel, Seals and gaskets: special rubber seals



Stations	2	3	4	5	6	7	8	9	10
L1	33.5	44	54.5	65	75.5	86	96.5	107	117.5
L2	27.5	38	48.5	59	69.5	80	90.5	101	111.5

Pressure range: 1 to 7 Bar max Media temperature: +50°C max

Ambient temperature: -10°C to +50°C max

Mounting: any position Cycle rate: 5 Hz max Weight: 72g,93g

Low power consumption 0.8 Watts

### 5/2 Miniature Solenoid Valve

1/8" 16.6mm Width 5/2 SPRING RETURN & DOUBLE ACTING PILOT ASSIST

1 – 7 Bar

## TYPE VM5252 & 5252M

					TIFE VIVIDEDE & DEDEIVI				
					5/2 Way Spring Return VM5252 Series		A B T T T T T T T T T T T T T T T T T T		
ø	ø	Pressu	re Rating (Bar) ∆P	Max	<b>5</b>			List	
Port BSP	Orifice (mm²)	Min	Max	Work	Part Number		VALSZSZ-01-39 3	Price	
1/8	8.8	1.5	7	8	VM5252-01S + voltage			£61.34	
					5/2 Way Double Acting VM5252D Series		Z T T T T T T T T T T T T T T T T T T T		
Ø Port	Ø Orifice	Pressu	re Rating (Bar) ΔP	Max	Part Number		2	List Price	
BSP	(mm²)	Min	Max	Work	T dit Number	Numerous Contraction of the Cont	Warran and		
1/8	8.8	1	7	8	VM5252-01D + voltage			£100.12	
					Manifold Only VM5252M Series				
Ø Port BSP			Part N	umber				List Price per station	
1/4			VM5252M-02 + n	umber of		200		£4.51	
OPTIONS									
	IP65 dust proof coil & JPC LED connector with flying lead wires, surge protection & non polarity & short circuit protection  NPT Thread  Included +10%								
ELECTRICAL DATA									
	Voltage (-10% + 10%) Continuous duty 100%  Power Consumption Insulation class Enclosure Connections								
= 12vI	DC or 24v	DC			0.8 Watts	F 155°C	Dust Proof	JPC plug connector	
D					CONSTRUCTION				
Body: A	Body: Aluminium alloy, Internal parts: Stainless steel, seals and gaskets: special rubber seals.								

VM5252-01S

VM5252-01D

128.5

36

15

2-63.2

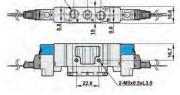
2-63.2

2-63.2

3-G1/8

13.6 13.6

13.6 13.6



VM5252-02M	
4.04.5 20 00 00 00 00 00 00 00 00 00 00 00 00	L1=(N-1)×10+44
SG18 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5	

Station	2	3	4	5	6	7	8	9	10
L1	60	76	92	108	124	140	156	172	188
12	40	56	72	88	104	120	136	152	168

**OVERALL DIMENSIONS** 

2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanical Air Valves

Accessories Fittings, Tubing

FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors
Vent Suction
Check Valves

Pinch Proportiona Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filter

Media: air – Inert Gas

Pressure range: 0.5 to 8 Bar max Media temperature: -10°C to +50°C max Ambient temperature: -10°C to +50°C max

Mounting: any position

Weight (including coil): 125,195,215 g

Exhaust: M5

### 5/2 & 5/3 Pneumatic Solenoid

1/8" 18mm Width 5/2 S/RETURN or 5/2 + 5/3 D/ACTING SERVO ASSISTED 1.5 - 10 Bar

### TYPE AM520S&D & AM530D

				Sprir	2 Way ng Return 0S Series	B A RPR			
Ø Port	Ø Orifice	Press	ure Rating (Bar) ∆P	Max	Part Number		List		
BSP	(mm <sup>2</sup> )	Min	Max	Working	Part Number	The state of the s	Price		
1/8	11.0	1.5	8	10	AM52001S + voltage	O SHAKO	£42.83		
5/2 Way Double Acting AM520D Series									
Ø Port	Ø Orifice	Press	ure Rating (Bar) ∆P	Max			List		
BSP	(mm <sup>2</sup> )	Min	Max	Working	Part Number		Price		
1/8	11.0	1.5	8	10	AM52001D + voltage	9 SHAND	£75.50		
	5/3 Way Double Acting AM530D Series								
Ø Port	Ø Orifice	Press	ure Rating (Bar) ∆P	Max	Part Number		List		
BSP	(mm <sup>2</sup> )	Min	Max	Working	rait Nullibel		Price		
1/8	9.0	2	7	10	AM53001D + voltage		£108.19		
				OF	PTIONS				

IP65 coil + Connector 30cm flying lead & manual over ride

DIN 43650B Coil + connector

NPT or Rc Thread

AM520B 5/2 way base mounted

AM530X Exhaust centre or AM530Y pressure centre

AM0501 Manifold c/w Gaskets and Fixing Kit (cost is per station Ref: MF520 X Number of stations)

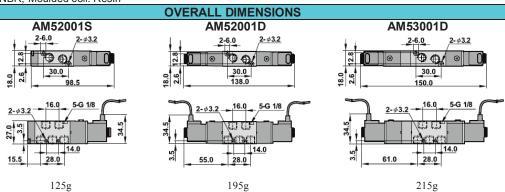
Included +£1.65 +10% +£1.65 +£2.02 +£5.19

	ELECTRICAL DATA								
	Voltage (-10% + 15%)	Power Consumption		Insulation	Englosure	Electrical			
	Continuous duty 100%	Coll	Inrush	Holding	class	Enclosure	connections		
,	~ 24 - 110 - 230 (50 or 60 Hz)	22000	11.6 VA	8.5 VA	F 155°C	IP 65	30 cm flying lead		
	= 12 - 24 - 48 - 110 (DC)	22000	4.5	5 Watts	F 155 C	IF 05	30 cm nying lead		

CONSTRUCTION

Body: Anodised Aluminium, Tube and internal parts: Stainless steel

Seals and gaskets: NBR, Moulded coil: Resin



Pressure range: 1.5 to 8 Bar max Media temperature: +50°C max Ambient temperature: -10°C to +50°C max

Mounting: any position

Weight (including coil): 115,180g

# 3/2 Single/Double Solenoid

1/8 1/4" 18mm Width 3/2 Normally Closed or Open SERVO ASSISTED 1.5 - 10 Bar

YPE BM320

#### 3/2 Way **Normally Closed** BM320 Series



Ø Port	Ø Orifice	Pressu	re Rating (Bar) ∆P	Max	Part Number
BSP	(mm²)	Min	Max	Work	
1/8	12	1.5	8	10	BM320-01S + voltage
1/4	16	1.5	8	10	BM320-02S + voltage



#### 3/2 Way **Normally Open BM320N Series**



Ø Port	Ø Orifice	Pressu	Pressure Rating (Bar) ∆P		Part Number	
BSP	(mm²)	Min	Max	Work		
1/8	12	1.5	8	10	BM320N-01S + voltage	
1/4	16	1.5	8	10	BM320N-02S + voltage	
					ODTIONS	



£37.43

£28.69

Included +10%

Air Solenoid

Valves

+£67.14 +£34.57

IP65 Coil & Connector PG9 - DIN 43650 B & manual over ride (option flying lead wire coil F) NPT Thread

ATEX 22001EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C 🧐

BM320D double acting version (BM320-01/2D)

Voltage (-10% + 15%) Continuous duty 100%

24 - 110 - 230 (50 or 60 Hz)

12 - 24 - 48 - 110 (DC)

ELEC	TRICAL	. DATA
Power	Consum	ntion

Coil	Power Cor	nsumption	Insulation class	Enclosure	Electrical			
	Inrush	Holding	ilisulation class	Eliciosule	connections			
	7.6 VA 6 VA			IP 65	3 spades DIN 43650B			
22001	4.5 V	Vatts	F 155°C	with connector	DIN 40050 VDE 0110			

#### CONSTRUCTION

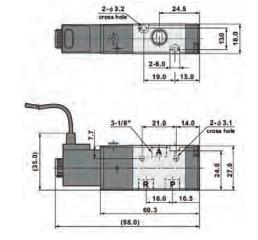
Body: Anodised Aluminium

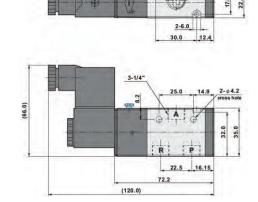
Tube and internal parts: Stainless steel

BM320-01S

Seals and gaskets: NBR Moulded coil: Resin

#### **OVERALL DIMENSIONS**





BM320-02S 2- \$3.3 cross hole

Brass 2/2 I/Closed 0 Rated

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

Stainless 2/2 N/Open

Stear

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas

Pressure Reducing Valves Media: air

Pressure range: 1.5 to 8 Bar max Media temperature: +50°C max Ambient temperature: -10°C to +50°C max

Mounting: any position

Weight (including coil): 235, 335,445g

# 5/2 & 5/3 Pneumatic Solenoid

1/4" 22mm Width 5/2 S/RETURN or 5/2 & 5/3 D/ACTING SERVO ASSISTED 1.5 – 10 Bar

TYPE BM520

5/2 Way Spring Return BM520S Series



Min   Max   Work   Part Number	Ø Port BSP	Ø Orifice	Pressur	re Rating (Bar) ∆P	Max	Part Number	
1/4   18   15   8   10			Min	Max	Work	rait Nullibei	
	1/4	18	1.5	8	10		

5/2 Way
Double Acting
BM520D Series



Ø Port	Ø Orifice (mm²)	Pressur	re Rating (Bar) ∆P	Max	Part Number
BSP		Min	Max	Work	r art Humber
1/4	18	1.5	8	10	BM52002D + voltage

£74.426

List Price

£39.94

List Price

Double Acting BM530D Series



Ø	Ø Orifice	Pressui	re Rating (Bar) ∆P	Max	Part Number
Port BSP	(mm)	Min	Max	Work	rait number
1/4	14	2	8	10	BM53002D + voltage



List Price

£105.29

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 B & manual over ride (option flying lead wire coil)

NPT Thread ATEX 22001EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C 🕙

BF Manifold c/w Gaskets and Fixing Kit (cost is per station Ref: BF X Number of stations)

BM530X Exhaust centre or BM530Y Pressure centre

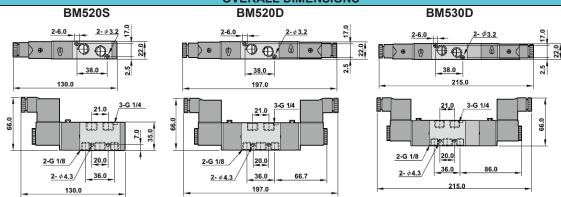
Included +10% +£67.14 +£5.61 +£3.18

	ELECTRICAL DATA										
	Voltage (-10% + 15%)	Coil	Power Co	nsumption	Insulation class	Enclosure	Electrical connections				
	Continuous duty 100%		Inrush	Holding	insulation class						
~	24 - 110 - 230 (50 or 60 Hz)		7.6 VA	6 VA		IP 65	3 spades DIN 43650B				
=	12 - 24 – 48 - 110 (DC)	22001	4.5 Watts		F 155°C	with connector	DIN 40050 VDE 0110				
	CONSTRUCTION										

Body: Anodised Aluminium

Tube and internal parts: Stainless steel

Seals and gaskets: NBR Moulded coil: Resin



Pressure range: 1.5 to 8 Bar max Media temperature: +50°C max Ambient temp: -10°C to +50°C max

Mounting: any position

Weight (including coil): 430, 525, 715g

# 5/2 & 5/3 Aluminium

3/8 30mm Width
5/2 S/RETURN 5/2 & 5/3 D/ACTING
1.5 - 10 Bar
TVDE DU52003

				1 1 PE PU52003						
				Spr	5/2 Way ring Return 2003S Series	B A A R PR				
ø	Ø	Pres	sure Rating (Bar) ∆	P Max		- 6				
Port BSP	Orifice (mm²)	Min	Max	Working	Part Number		List Price			
3/8	35	1.5	8	10	PU52003S + voltage		£48.10			
				a R P R						
ø	Ø	Pres	sure Rating (Bar) Δ	P Max	D. (N. ole					
Port BSP	Orifice (mm²)	Min	Max	Working	Part Number		List Price			
3/8	35	1.5	8	10	PU52003D + voltage	O MANO Proper distribution	£59.53			
				Dou	5/3 Way uble Acting 8003T Series	a MANUTE AND A SECOND REPRESENTATION OF THE PROPERTY OF THE PR				
ø	Ø	Pres	sure Rating (Bar) ∆	P Max	D. (N		Live Date:			
Port BSP	Orifice (mm²)	Min	Max	Working	Part Number		List Price			
3/8	32	2	8	10	PU53003D + voltage	Tarkey commenced to the second	£97.12			

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A & manual over ride (Optional flying lead wire coil & )

NPT or Rc Thread

ATEX 22001EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (

PU530X Exhaust centre or PU530Y Pressure centre

Included +10% +£67.16 +£5.13

DUEGGGG

	ELECTRICAL DATA										
	Voltage (-10% + 15%)	Coil	Po	wer	Insulation	Enclosure	Electrical				
	Continuous duty 100%		Inrush	Holding	class	Liiciosure	connections				
~	24 - 48 -110 - 230 (50 or 60 Hz)		7.6 VA	6 VA		IP 65   DIN 43650	3 spades DIN 43650				
=	12 - 24 - 110 (DC)	22001	4.5 Watts		F 155°C	with connector	DIN 40050 VDE 0110				
	CONSTRUCTION										

ELECTRICAL DATA

Body: Anodised Aluminium

Tube and internal parts: Stainless steel

DILEGGGG

Seals and gaskets: NBR Moulded coil: Resin

#### **OVERALL DIMENSIONS**

PU52003	PU52003D	PU53003D		
2-7.0 2-\$\psi 4.3 \\ \text{\$\text{\$\text{\$0\$}}\$} \\ \$\text{\$\exititt{\$\text{\$\exititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$	27.0 2-+4.3	2-7.0 2-44.3 () () () () () () () () () () () () () (		
5-RC3/8 30.0 G 2-\$\phi 4.3	2-+4.3 28.0 99.5 52.0 109.0 270.0	5-RC3/8 30.0 2- \( \phi \) 4.3 \( \frac{280}{52.0} \) 73.5 \( \frac{70}{87.0} \) 226.0		

430g 525g 715g

2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanical Air Valves

Accessories Fittings, Tubing

FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors
Vent Suction
Check Valves

Pinch Proportiona Sub Base

Timers, Coils & Connectors

Magnets & Y Filters

Ø

Port

**BSP** 

1/2

Ø

Orifice

(mm<sup>2</sup>)

54

Media: air

Pressure range: 2 to 8 bar max Media temperature: +50°C max Ambient temp: -10°C to +50°C max

Mounting: any position Weight (including coil): 665,770,1045g

# 5/2 & 5/3 Aluminium

1/2 BSP Width 34mm 5/2 S/RETURN 5/2 & 5/3 D/ACTING 2 - 10 Bar TYPE PU52004

#### 5/2 Way Spring Return PU52004S Series



Ø	Ø Orifice (mm²)	Press	ure Rating (Bar) ∆P	Max	Part Number	
Port BSP		Min	Max	Working		
1/2	70	2	8	10	PU52004S + voltage	



List Price £84.18

#### 5/2 Way Double Acting PU52004D Series



List Price

Ø	Ø	Press	sure Rating Bar) ∆P	Max	Part Number	
Port BSP	Orifice (mm <sup>2</sup> )	Min	Мах	Working		
1/2	70	2	8	10	PU52004D + voltage	



#### 5/3 Way Double Acting PU53004D Series

Max

Working

10



List Price £168.38

#### **OPTIONS**

**Part Number** 

PU53004D + voltage

IP65 Coil & Connector PG9 - DIN 43650 A & manual over ride (option flying lead wire coil) NPT Thread

Max

8

Pressure Rating (Bar) ∆P

ATEX 22001EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C ( PU530X Exhaust Centre or PU530Y pressure centre

Min

2

Included +10% +£67.16 +£9.02

	ELECTRICAL DATA									
	Voltage (-10% + 15%)	Coil	Power Co	nsumption	Insulation	Enclosure	Electrical			
	Continuous duty 100%		Inrush	Holding	class	Eliciosure	connections			
~	24 – 48 -110 - 230 (50 or 60 Hz)		7.6 VA	6 VA		### 10   ### 3   ### 3   ### 3   ### 3   ### 5	/			
=	12 - 24 – 48 - 110 (DC)	22001	4.5 V	Vatts	F 155°C		DIN 40050			

#### CONSTRUCTION

Body: Anodised Aluminium

Tube and internal parts: Stainless steel

PU52004S

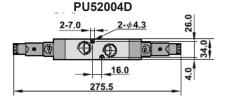
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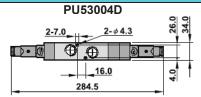
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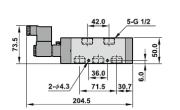
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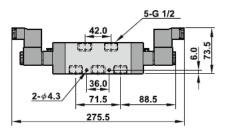
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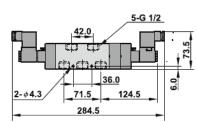
Seals and gaskets: NBR Moulded coil: Resin











Pressure range: 1.5 to 8 Bar max Media temperature: +50°C max Ambient temperature: -10°C to +60°C max

Mounting: any position

PS520S





# ISO 1 & 2 5/2 Solenoid Valve

1/4 3/8 1/2 INTERNAL PILOT 1.5 – 8 Bar TYPE PS520

### ISO 1 & ISO 2 5/2 Way

	F3020 Series												
Ø	Kg	Ø Orifice		Pressure Rating (Bar) ∆P		ISO Stored and	Part Number	Picture	List				
Port		(mm²)	Min	Max	Work	Standard			Price				
1/4	0.32	29	1.5	8	10	ISO 1	PS520-02S + voltage	0=-	£60.14				
3/8	0.7	62	1.5	8	10	ISO 2	PS520-03S + voltage		£120.26				
1/4	0.46	29	1.5	8	10	ISO 1	PS520-02D + voltage		£81.18				
3/8	0.84	62	1.5	8	10	ISO 2	PS520-03D + voltage		£150.34				

#### **Manifold Only ZESF Series**

Ø Port Kg		Part Number	ISO Standard
1/4 (02)	0.18	ZESF-02	ISO 1
3/8 (03) 1/2 (04)	0.28	ZESF + port size	ISO 2



£23.16

£35.77

Included

+10% +£67.16

Air

Solenoid Valves

**OPTIONS** 

IP65 Coil & Connector PG9 - DIN 43650 A & manual over ride (Optional flying lead wire coil & ) NPT or Rc Thread

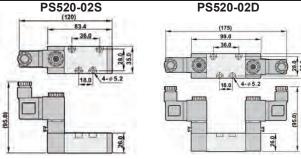
ATEX 22001EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C

**ELECTRICAL DATA** 

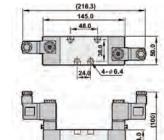
	Voltage (-10% + 10%)	Power Co	nsumption	Insulation class	Enclosure	Electrical connections				
	Continuous duty 100%	Inrush	Holding	ilisulation class	Eliciosure					
~	12 - 24 - 48 -110 - 230 (50 or 60 Hz)	7.6 VA	6 VA	F 155°C	IP 65	3 spades DIN 43650				
=	12 - 24 - 110 (DC)	4.5 Watts		F 155 C	with connector	DIN 40050 VDE 0110				
	CONCEDITION									

#### CONSTRUCTION

Body: Aluminium alloy, Tube and internal parts: Stainless steel, Seals and gaskets: NBR

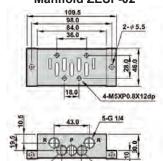


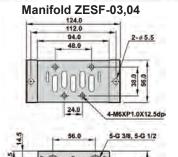




PS520-03D







Media: air – Inert Gas Pressure range: 1.5 to 10 Bar max

Media temperature: 50°C max Ambient temp: -10°C to +50°C max Mounting: any position

Seals: NBR Opening & Closing: 50mSec Max

Weight: 305g & 390g 1/4 Exhaust

### **Namur Mount**

NORMALLY CLOSED 3/2-5/2 S/RETURN + D/ACTING 1.5 - 10 Bar

# TYPE CY525



Included

Included

+10%

+£67.14

	5/2 Way Spring Return CY520S Series											
Ø Port	Ø Orifice	Pressure Rating (Bar) ΔP		Max	Part Number	Ħ <b>Ĭ</b> ÎM	List					
BSP	mm	Min	Max	Work	Part Number	a T T T D B R P R	Price					
1/4	4.8	1.5	8	10	CY52502S + voltage		£48.55					
					Double Acting 20D Series							
Ø	Ø	Pressure Rating (Bar) ∆P		Max	Down Name how	HTTT /H	List					
Port BSP	Orifice mm	Min	Max	Work	Part Number	a T T T D	Price					
1/4	4.8	1.5	8	10	CY52502D + voltage	000	£73.45					

**OPTIONS** 

IP65 Coil & DIN Connector PG9 - DIN 43650 B

3/2 Mounting plate adaptor

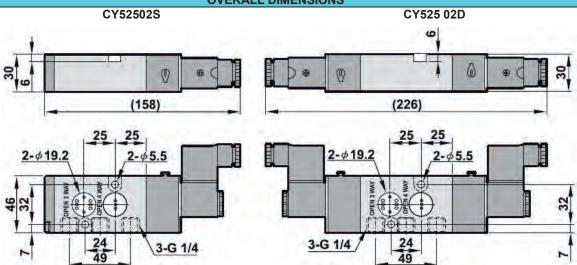
NPT Thread

ATEX 22001EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C

	ELECTRICAL DATA										
Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Cor	nsumption	Insulation	Enclosure	Electrical connections				
			Inrush	Holding	class	Eliciosule					
~	24 - 110 - 230 (50 or 60 Hz)	22004	7.6 VA	6 VA	F 155°C	IP 65	<i>3 spades</i> DIN 43650B				
=	12 - 24 - 110 (DC)	22001	4.5 Watts		F 155 C	with connector	DIN 40050 VDE 0110				
	CONSTRUCTION										

Body: Anodised Aluminium Exhaust 1/4 BSP Tube and internal parts: Stainless steel Seals and gaskets: NBR

Moulded coil: Resin



Media: air – inert gas

Pressure range: 1.5 to 8 Bar max Media temperature: +50°C max

Ambient temperature: -10°C to +60°C max

Mounting: any position

Weight (including coil): 1000g / 1200g

### 5/2 Stainless

1/4 - 1/2 5/2 SINGLE + D/ACTING SERVO ASSISTED 1.5 - 8 Bar

# YPE SPU520



Ø	Ø	Pressure Ra	ting (Bar) ∆P	Max	<b>-</b>
Port BSP	Orifice (mm <sup>2</sup> )	Min	Max	Working	Part Number
1/4	35	1.5	8	10	SPU52002S + voltage
3/8	65	1.5	8	10	SPU52003S + voltage
1/2	65	1.5	8	10	SPU52004S + voltage



£397.63

List **Price** 

List Price

£456.41

Included

+10%

+£67.14

Air Solenoid

Valves

**Spring Return SPU520S** 

	- :	i ressure iva	ting (bai) Ai	Max	
Port BSP	Orifice (mm <sup>2</sup> )	Min	Max	Working	Part Number
1/4	35	1.5	8	10	SPU52002S + voltage
3/8	65	1.5	8	10	SPU52003S + voltage
1/2	65	1.5	8	10	SPU52004S + voltage
					5/2 Way



**Double Acting** SPU520D

	Ø	Ø	Pressure Ra	ting (Bar) ∆P	Max		
Port BSP		Orifice (mm <sup>2</sup> )	Min	Max	Working	Part Number	
	1/4	35	1.5	8	10	SPU52002D + voltage	
	3/8	65	1.5	8	10	SPU52003D + voltage	
	1/2	65	1.5	8	10	SPU52004D + voltage	
						DTIONO	



**OPTIONS** 

IP65 Coil & Connector PG9 - DIN 43650 B & manual over ride (optional flying lead wire coil) NPT Thread

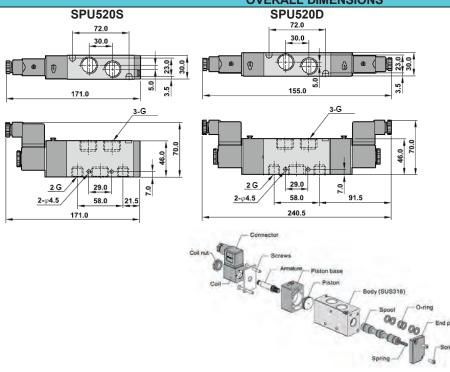
ATEX 22001EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C 🕑

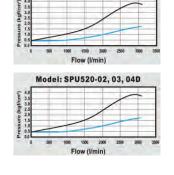
	ELECTRICAL DATA										
	Voltage (-10% + 15%) Continuous duty 100%		Power Cor	nsumption	Insulation	Englague	Electrical				
			Inrush	Holding	class	Enclosure	connections				
~	24 – 48 - 110 - 230 (50 or 60 Hz)	00004	7.6 VA	6 VA	E 45500	IP 65	3 spades DIN 43650B				
=	12 - 24 – 48 - 110 (DC)	22001	4.5 Watts		F 155°C	with connector	DIN 40050 VDE 0110				
			COMOTOLIOT	ION							

#### CONSTRUCTION

Body: 316 stainless steel, Tube and internal parts: Stainless steel Seals and gaskets: NBR, Moulded coil: Resin

**OVERALL DIMENSIONS** 





Model: SPU520-02, 03, 04S

Brass 2/2 N/Closed 0 Rated

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

Stainless 2/2 N/Closed 0 Rated

2/2 N/Closed

2/2 N/Open

Stean

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas

Pressure Reducing Valves Media: air
Pressure range: 0 to 9 Bar max

3/2 Hand Control

Media temp: -10 °C +60 °C max Ambient temperature: -10 °to +60 °C

Mounting: any position

1/8

Mechanical Valves 3 WAY DIRECT ACTING 0 – 9 Bar

## TYPE MSV8632



	PRESSURE											
ø	Ø	Pr	essure Rating	g (Bar)		Operator			List			
Port	Orifice (mm²)	Min ∆P	Max ∆P	Max	Туре	Standard Colour	Picture	Part Number	Price			
		0	9	10	Basic	-		MSV8632-01	£20.45			
		0	9	10	Roller	-		MSV8632-01R	£21.65			
		0	9	10	One Way Roller	-		MSV8632-01RL	£24.35			
		0	9	10	Twist Selector	Black		MSV8632-01TB	£21.65			
1/8 (01)	1/8" 1.8mm²	0	9	10	Long Twist Selector	Black		MSV8632-01LB	£24.35			
		0	9	10	Palm Button Mushroom	Red		MSV8632-01PB				
		0	9	10	Palm Button Flush	Red		MSV8632-01PP	£21.65			
		0	9	10	Palm Button Extended	Red		MSV8632-01PPL				
		0	9	10	Push Pull	Red		MSV8632-01EB	£24.35			

**OPTIONS** 

With exhaust port

NPT Thread (MSV8632-01N)

Optional button colours Green (G), Black (B) or Yellow(Y)

Panel mount diameter 25mm

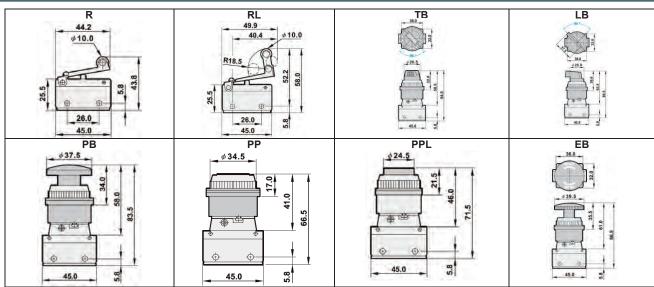
Without exhaust MSV8622 or Stackable 2 station (LB or TB) or stackable MSV8642, Stackable with exhaust MSV8662

+ 10% +5% +10% TBA

Included

#### CONSTRUCTION

Body: Aluminium alloy, Panel dimension 30mm, internal parts: Stainless steel, Seals and gaskets: NBR



Pressure range: 0 to 9 Bar max Media temp: -10 °C +60 °C max Ambient temperature: -10 °C to +60 °C Mounting: any position

# 3/2 Hand Control

Mechanical Valves 3 WAY DIRECT ACTING 0 – 9 Bar



TYPE MSV9832

	PRESSURE													
Ø	Ø	Press	sure Rating	(Bar)	Oį	perator			List Price					
Port	Orifice (mm²)	Min ∆P	Max ∆P	Max	Туре	Standard Colour	Picture	Part Number						
		0	9	10	Basic	-		MSV9832-02	£26.46					
		0	9	10	Roller	-		MSV9832-02R	£28.57					
		0	9	10	Twist Selector	Black		MSV9832-02TB	220.57					
1/4	18mm²	0	9	10	Long Twist selector	Black		MSV9832-02LB	£31.57					
(02)	TOTTITI	0	9	10	Palm Button Mushroom	Red		MSV9832-02PB						
		0	9	10	Palm Button Flush	Red		MSV9832-02PP	£28.57					
		0	9	10	Palm Button Extended	Red		MSV9832-02PPL						
		0	9	10	Detent Button	Red		MSV9832-02EB	£31.57					

OPTIONS
NPT Thread (MSV9832-02N)

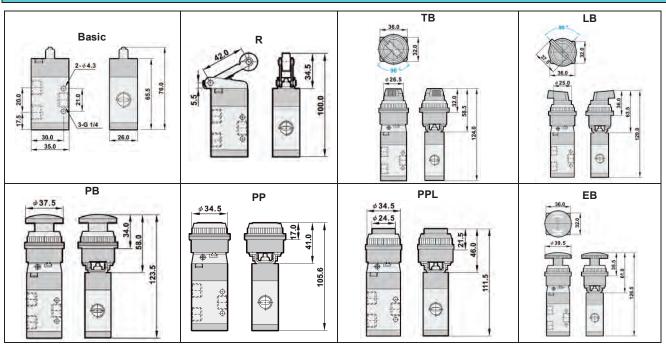
Optional button colours Green (G), Black (B) or Yellow(Y) (PB, PP, PPL)

Panel diameter 25mm or Port 1/8"

CONSTRUCTION

Body: Aluminium alloy, Panel dimension 30mm, internal parts: Stainless steel, Seals and gaskets: NBR

#### OVERALL DIMENSIONS



2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

> Mechanical Air Valves

Accessories Fittings, Tubing

FRL's, Filters
Regulators
Lubricators

+ 10%

+5%

+10%

Air Actuated Valves

Arrestors Vent Suction Check Valves

> Pinch Proportional Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filters Brass 2/2 I/Closed 0 Rated

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed O Rated

2/2 N/Closed

> 2/2 N/Open

> > Stean

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas

Pressure Reducing Valves Media: air

Pressure range: 0 to 9 Bar max Media temp: -10°C +60°C max Ambient temperature: -10° to +60°C Mounting: any position

Mechanical Valves
5 WAY DIRECT ACTING
0 – 9 Bar

5/2 Hand Control

1/8 1/4

TYPE MSV8652



+ 10%

+5%

+10%

	PRESSURE												
Ø	Ø	Pres	sure Rating	g (Bar)	Ор	erator			List				
Port	Orifice (mm²)	Min ∆P	Max ∆P	Max	Туре	Standard Colour	Picture	Part Number	Price				
		0	9	10	Roller	-		MSV8652 + port (01/02)R	£34.73				
		0	9	10	Twist Selector	Black		MSV8652+ port (01/02)TB	234.73				
4/0		0	9	10	Long Twist selector	Black		MSV8652+ port (01/02)LB	£37.71				
1/8 (01)	1/8" 14mm²	0	9	10	Palm Button Mushroom	Red		MSV8652+ port (01/02)PB					
1/4 (02)	1/4 18mm²	0	9	10	Palm Button Flush	Red		MSV8652+ port (01/02)PP	£34.73				
(02)		0	9	10	Palm Button Extended	Red		MSV8652+ port (01/02)PPL					
		0	9	10	Detent Button	Red		MSV8652+ port (01/02)EB	£37.71				
		0	9	10	Push Pull Button	Black		MSV8652+ port (01/02)PH	£31.11				

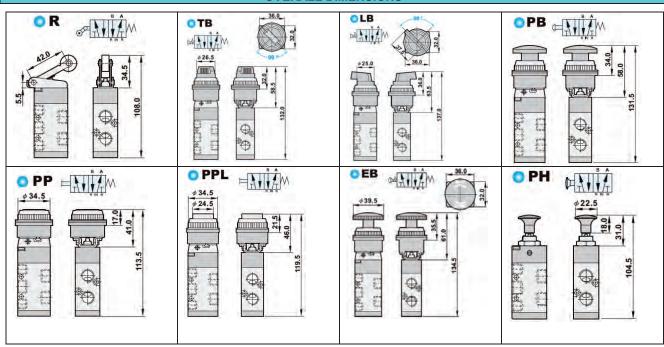
OPTIONS

NPT Thread (MSV8652-01/2N)
Optional button colours Green (G), Black (B) or Yellow(Y) (PB, PP, PPL)

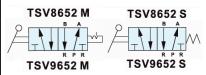
Panel diameter 25mm

CONSTRUCTION

Body: Aluminium alloy, Panel dimension 30mm, internal parts: Stainless steel, Seals and gaskets: NBR



Media: air - vacuum
Pressure range: 0 to 9 Bar max
Media temp: -10 °C +60 °C max
Ambient temperature: -10 °C to +60 °C
Mounting: any position



### 5/2 Hand Control 1/8 1/4 3/8

Mechanical Lever Valves 5 WAY DIRECT ACTING 0 – 9 Bar

TYPE TSV8652



				PRESS	URE			
Ø	Ø	Pressure	e Rating (Bar)	B	Malana da man	Distant	Dort Novel or	List
Port	Orifice (mm²)	Min	Max	Mounting	Valve type	Picture	Part Number	Price
1/8 (01)	18mm²	0	9		Spring Return		TSV8652 + port + S	£26.16
1/4 (02)	10111111	0	9	Standard	Detent	L	TSV8652 + port + M	220.10
3/8	35mm²	0	9	Standard	Spring Return	View !	TSV8652-03S	£34.57
(03)	3311111	0	9		Detent	Vint.	TSV8652-03M	234.57
1/8 (01)	18mm²	0	9	Manifold	Spring Return		TSV8652R + port + S	£31.57
1/4 (02)	10INITI-	0	9	Type (R)	Detent		TSV8652R + port + M	

**OPTIONS** 

Panel mounting ring M22xp1.5 (TSV9652-02M&S, 8652-01-02MS+F) only

NPT Thread (TSV +port +N)

Mounting bracket (F) (TSV8652 1/8 & 1/4 only)

Included +10% +£5.20

20 Accessor Fittings,

> FRL's, Filters Regulators Lubricators

Valves

Air Actuated Valves

Arrestors Vent Suction Check Valves

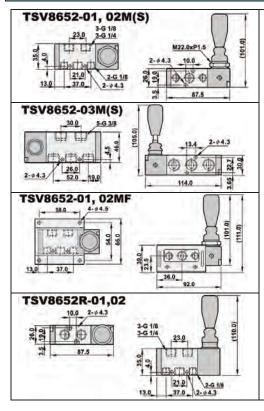
Pinch Proportiona Sub Base

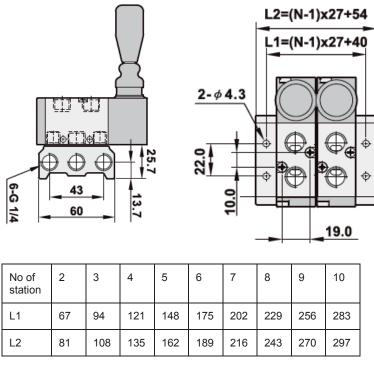
Coils & Connectors

Magnets & Y Filter

#### CONSTRUCTION

Body: Aluminium alloy, internal parts: Stainless steel, Seals and gaskets: NBR, Test pressure: 10 Bar





Brass 2/2 N/Closed 0 Rated

Brass 2/2 N/Closed Pilot

2/2 N/Oper 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

> Stainless 2/2 N/Open

> > Steam

Plastic 2/2 N/Closed

Plastic

2/2 Latching

> EN161 Gas Valves

Pressure Reducing Valves Media: air - vacuum
Pressure range: 0 to 9 Bar max
Media temp: -10°C +60°C max
Ambient temperature: -10°C to +60°C
Mounting: any position

• TSV8753-02SX

• TSV8753-02MX

●TSV9832-M

٣

**ALI** 

• TSV8753-02M

TSV8753-02S

Mechanical Lever Valves 3+5 WAY DIRECT ACTING 0 – 9 Bar

5/3 3/2 Hand Control

1/8 1/4 3/8

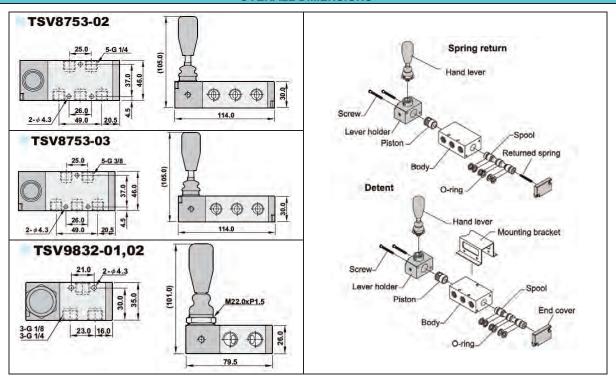
TYPE TSV8753-9832



				PRES	SURE			
Ø	Ø Orifice	Pressure	Rating (Bar)	Function	Valve type	Picture	Part Number	List Price
Port	(mm²)	Min	Max	Function	valve type	Ficture	Fait Number	LIST FIICE
4/4 (02)	18mm²	0	9		Spring return	1	TSV8753-02S	£44.95
1/4 (02)	TOTHIT	0	9	5/3	Spring return exhaust centre		TSV8753-02SX	£46.30
1/4 (02)	1/4 18mm²	0	9	3/3	Detent		TSV8753 + port +M	£34.57
3/8 (03)	3/8 (35mm²)	0	9		Detent with exhaust centre		TSV8753 + port + MX	£36.08
1/8 (01)	1/8 18mm²	0	9	3/2	Detent		TSV9832 + port + M	£28.17
1/4 (02)	1/4 35mm²	0	9	3/2	Spring Return	. 66	TSV9832 + port + S	220.17
				OPT	IONS			
	ead (TSV + g bracket (F							+10%

CONSTRUCTION

Body : Aluminium alloy, Panel dimension 30mm, internal parts : Stainless steel, Seals and gaskets : NBR Test pressure: 10 Bar



Pressure range: 0 to 9 Bar max Media temp: -10 °C +60 °C max Ambient temperature: -10° to +60°C Mounting: any position

TSV30043

TSV30042





# 4/2 4/3 Hand Control 1/4 3/8 1/2

Mechanical Valves 4 WAY DIRECT ACTING 0 – 9 Bar

# TYPE TSV30043/42



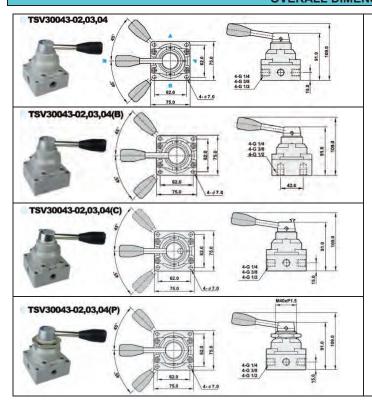
	PRESSURE										
Ø	Ø Orifice	Pressure	Rating (Bar)	Function	Valve type	Picture	Part Number	List			
Port	(mm²)	Min	Max	Tunction	valve type	1 lotare	T dit Number	Price			
		0	9		Standard		TSV30043 + port	£27.96			
		0	9	4/3 Way TSV30043	Ports in base		TSV30043 + port + B	£41.49			
1/4		0	9		With lock button		TSV30043 + port + C				
(02)	3/8 18mm²	0	9		Panel mounted		TSV30043 + port + P	£44.50			
(03) 1/2	10111111	0	9		Standard	1	TSV30042 + port	£27.96			
(04)		0	9	4/2 way TSV30042	Ports in base		TSV30042 + port + B	£41.49			
		0	9		With lock button		TSV30042 + port + C				
		0	9		Panel mounted	6	TSV30042 + port + P	£44.50			
				OPTIO	ONS						

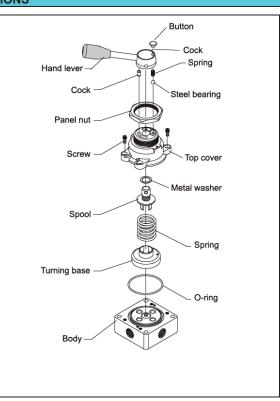
NPT Thread (TSV30043 +port +N) CONSTRUCTION

Body: Aluminium alloy, Panel dimension 30mm, internal parts: Stainless steel, Seals and gaskets: NBR

Test pressure: 10 Bar

#### OVERALL DIMENSIONS





Valves

+10%

Pressure range: 0 to 9 Bar max Media temp: -10°C +60°C max Ambient temperature: -10°C to +60°C

Mounting: any position

Air pilot start pressure: 3.5 - 4.5 Bar

# 3/2 Mechanical

Normally Open or Closed 3 WAY DIRECT ACTING 0 - 9 Bar

# TYPE MSV30132

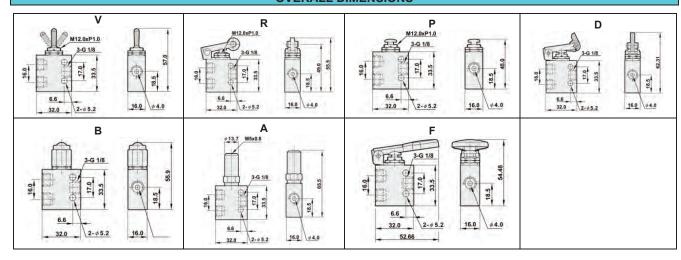


					PRESSURE			
ø	Ø	Press	sure Rating	(Bar)	Operator			List
Port	Orifice (mm²)	Min ∆P	Max ∆P	Max	Туре	Picture	Part Number	Price
		0	9	10	Toggle Lever	Tanas Tay	MSV30132-01V	£26.25
		0	9	10	Roller	CHARLES OF THE PARTY OF THE PAR	MSV30132-01R	£28.86
		0	9	10	Push Button	TO CHANGE OF THE PARTY OF THE P	MSV30132-01P	£26.25
1/8 (01)	5.5mm²	0	9	10	One Way Roller		MSV30132-01D	£35.66
		0	9	10	Ball Plunger	Manual Copy	MSV30132-01B	£30.97
		0	9	10	Air Pilot		MSV30132-01A	£41.28
		0	9	10	Finger Button		MSV30132-01F	£40.35
					OPTIONS			
NPT or	Rc Thread	d (MSV3013	2-01N)					+ 10%

CONSTRUCTION

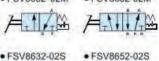
Body: Aluminium alloy Panel dimension 12mm Internal parts : Stainless steel Seals and gaskets: NBR

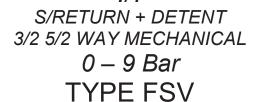
MSV30132-01P patent number ZL200530157285.1 MSV30132-01V patent number ZL200530157282.8



Pressure range: 0 to 9 Bar max Media temperature: -10 °C +60°C max Ambient temperature: -10° to +60°C

Mounting: any position ● FSV8632-02M ● FSV FSV8652-02M





3/2 5/2 Foot Pedal



Ø Port         Function         Operation         Foot Guard         Pressure Rating (Bar)         Part Number           WITHOUT GUARD           1/4         3/2         Spring Return         NO         0         9         FSV8632-02S           1/4         3/2         Detent/Latch         NO         0         9         FSV8632-02M													
Guard   Min   Max	List												
1/4 3/2 Spring Return NO 0 9 FSV8632-02S	Price												
	WITHOUT GUARD												
1/4         3/2         Detent/Latch         NO         0         9         FSV8632-02M	£52.61												
	£61.93												
1/4         5/2         Spring Return         NO         0         9         FSV8652-02S	£55.91												
1/4         5/2         Detent/Latch         NO         0         9         FSV8652-02M	£64.93												
WITH FOOT GUARD													
1/4         3/2         Spring Return         YES         0         9         FSV8632-02SF	£61.93												
1/4         3/2         Detent/Latch         YES         0         9         FSV8632-02MF	£71.25												
1/4         5/2         Spring Return         YES         0         9         FSV8652-02SF	£64.93												
1/4         5/2         Detent/Latch         YES         0         9         FSV8652-02MF	£75.16												

**OPTIONS** 

NPT Thread

With foot guard (F) or without foot guard, 3/2 (FSV8632) or 5/2 way (FSV8652), Spring return (S) or mechanical detent / latch

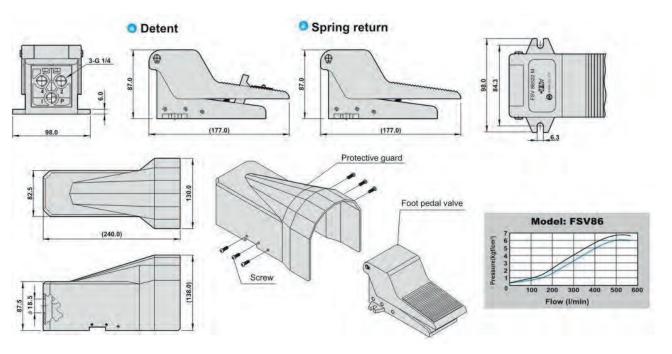
CONSTRUCTION

Body: Aluminium Alloy Internal parts : Stainless steel Foot guard: Polycarbonate Test pressure: 10 Bar

**REPAIR KIT** 

Foot Guard Valve part number + foot guard





Valves

+ 10%

Brass 2/2 N/Closed 0 Rated Media: air – gas

Pressure range: 10 Bar max Media temperature: -10 ℃ +80 °C max

Mounting: any position

Ambient temperature: -10°C to +80°C Media viscosity: 20 centistokes max

Body: Aluminium Alloy, Internals: Stainless steel

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

2/2 N/Open

Stean

Plastic 2/2 N/Closed

> Plastic Acids/

Latching Bi-Stable

> EN161 Gas

Pressure Reducing Valves ACCESSORIES

SPEED CONTROL QUICK EXHAUST CHECK NON RETURN SHUTTLE

TYPE SV, S, Q, C0, ST, STH

PRESSURE										
Ø	Ø Orifice	Symbol	Value Tyre	Pressure	Rating (Bar)	Picture	Part	List		
Port	(mm²)	Symbol	Valve Type	Min	Max	Picture	Number	Price		
1/8	3.8			0	10	Till 1	SV-01	£8.42		
1/4	6	+ *	Speed Control	0	10	3	SV-02	£8.42		
3/8	38		Precise Type	0	10		SV-03	£10.22		
1/2	48	9		0	10	The state of	SV-04	£14.14		
3/4	43	*	Speed Control	0	10		S-06	£33.08		
1	43		Speed Control	0	10		S-08	233.00		
1/8	16			0.5	10		Q-01	£8.42		
1/4	27	CYL	Quick Exhaust	0.5	10		Q-02	£9.92		
3/8	28			0.5	10	10 SHAKO	Q-03	~0.02		
1/2	71	IN R	Valves	0.5	10	Q-01	Q-04	£33.08		
3/4	72.5			0.5	10		Q-06	200.00		
1/8	10			0.3	8		C-01	£5.86		
1/4	23	6 111	Check Valve	0.3	8	C-03-water	C-02	£7.43		
3/8	38		Clieck valve	0.3	8	C-03	C-03	£8.60		
1/2	56			0.3	8		C-04	£9.77		
1/8	7.5		Shuttle Valve	0.8	10	-	ST-01	£9.92		
1/4	21	x -		0.8	10	O SHAKU	ST-02	£11.43		
1/8	14	X Y	Double Pressure Valve	0.8	10	Ø SHANO	STH-01	£9.92		
OPTIONS										
NPT Thread (N) +1										

CONSTRUCTION

	OVERALL DIMENSIONS											
	SV-01, 02 SV-03, 04	R	Α	В	С	D	Е	F	G	Н		1
		1/8	24.5	35	25.5	54	4	4.5	19	11.3	7 M1	2xP1.0
sv		1/4	24.5	35	25.5	54	4	4.5	19	11.3	7 M1	2xP1.0
	220st TSC A	3/8	38	52	32	72.8	4.8	5.5	24	14.2	2 M18	3xP1.25
	2 Pert TC	1/2	38	52	36	80.5	5.5	5.5	28	15.2	2 M22	2xP1.25
			Model		Α	В	С		D	E	F	G
s	2.5		S-06									
	A B Z-Port "R"		S-08		50	90	51	12	24	7.8	6.3	38
	φ <b>B</b> • <b>A</b>	G	L	V	v	Н	Α		В	С		D
	<u> </u>	1/8	46		9	32	30		4.3	27		PS 1/4
Q	<b>=</b> 0	1/4	61.		5.5	38	39		5.6	31.		PS 3/8
		3/8 1/2	61. 98		5.5 8	38 63.7	39 60		5.6 8.5	31.5 50.5		PS3/8 PS 3/4
	2-Port "R" L W	3/4				63.7	60		8.5	50.		PS 3/4
		1	odel		C-01	00.7	C-02		C-	•	1	-04
	2-Port "R"		ort		1/8		1/4		3/			1/2
С		-	A		40		50			0		63
		-	В	-	14	_	17		2			25
	A B -		С		14		17		2			25 25
	2- #G A 3-Prot "R"	М	odel	R	A			С	D	E	F	G
ST		S	ГН01	1/8	25	5 4	0 '	16	8	25.4	19.5	4.3
STH		ST01		1/8	25	5 4	0	16	8	25.4	19.5	4.3
	В _ С_	S	T02	1/4	35	5 5	52 2	22	11	35	25	5.5

Media: air – gas

Pressure range: 8 Bar max Temperature: -10°C to +70°C Body Material: POM / BRASS

Seals: NBR

Mounting: any position

## **PUSH IN FITTINGS**

#### **PLASTIC**

								Mala	Na alas la la									
	NPC	4M5	401	402	6M5	601	602	603	Straigh 801	802	803	804	1002	1003	1004	1202	1203	1204
377	Tube	41015	401	402	6	6	6	6	8	8	8	8	1002	1003	1004	1202	1203	1204
-	Thread	M5	1/8	1/4	M5	1/8	1/4	3/8	1/8	1/4	3/8	1/2	1/4	3/8	1/2	1/4	3/8	1/2
7.5.A	Price £	1.09	0.82	1.09	1.09	0.82	1.09	1.37	1.09	1.09	1.37	1.91	1.37	1.64	1.91	2.05	2.05	2.32
								l	Elbow			- 110						
	NPL	4M5	401	402	6M5	601	602	603	801	802	803	804	1002	1003	1004	1202	1203	1204
	Tube	4	4	4	6	6	6	6	8	8	8	8	10	10	10	12	12	12
7	Thread	M5	1/8	1/4	M5	1/8	1/4	3/8	1/8	1/4	3/8	1/2	1/4	3/8	1/2	1/4	3/8	1/2
	Price	1.37	1.09	1.37	1.37	1.09	1.37	1.64	1.37	1.37	1.64	2.73	1.91	1.91	2.73	2.73	2.73	2.73
							N	/lale Br	anch T	ee								
	NPB	4M5	401	402	6M5	601	602	603	801	802	803	804	1002	1003	1004	1202	1203	1204
7	Tube	4	4	4	6	6	6	6	8	8	8	8	10	10	10	12	12	12
	Thread	M5	1/8	1/4	M5	1/8	1/4	3/8	1/8	1/4	3/8	1/2	1/4	3/8	1/2	1/4	3/8	1/2
	Price	1.91	1.91	2.05	1.91	1.91	2.05	2.46	2.05	2.05	2.60	4.65	2.73	2.73	4.65	4.65	4.65	4.65
		ı	ı	ı	ı	ı		peed C	ontrol		ı							
果	NSC	4M5	401	402	6M5	601	602	603	801	802	803	804	1002	1003	1004	1202	1203	1204
	Tube	4	4	4	6	6	6	6	8	8	8	8	10	10	10	12	12	12
	Thread	M5	1/8	1/4	M5	1/8	1/4	3/8	1/8	1/4	3/8	1/2	1/4	3/8	1/2	1/4	3/8	1/2
****	Price	6.83	6.29	6.29	6.83	6.01	6.01	8.20	6.01	6.01	8.75	8.75	8.75	8.75	11.48	11.48	11.48	11.48
ore	NDD	4145	404	400	CME	004	600	ı	Run Te		000	004	4000	4000	4004	4000	4000	4004
طالف	NPD	4M5	401	402	6M5	601	602	603	801	802	803	804	1002	1003	1004	1202	1203	1204
eff.	Tube	4	4	4	6	6 1/8	6	6 3/8	8 1/8	8 1/4	8 3/8	8 1/2	10	10	1/2	1/4	12 3/8	1/2
	Thread Price	M5 1.91	1/8	2.19	M5 1.91	1.91	1/4	2.46	2.19	2.19	2.46	4.65	2.73	3/8 2.73	4.10	4.10	4.10	4.10
75	Filce	1.91	1.91	2.19	1.91	1.91	1.91	<u> </u>	e Elbov		2.40	4.00	2.73	2.75	4.10	4.10	4.10	4.10
	NPLF	4M5	401	402	6M5	601	602	603	801	802	803	804	1002	1003	1004	1202	1203	1204
	Tube	4	4	4	6	6	6	6	8	8	8	8	10	10	10	12	12	12
	Thread	M5	1/8	1/4	M5	1/8	1/4	3/8	1/8	1/4	3/8	1/2	1/4	3/8	1/2	1/4	3/8	1/2
	Price	1.56	1.56	1.78	1.69	1.56	1.78	2.73	1.64	1.78	2.73	3.14	2.46	2.73	3.14	3.14	3.14	3.14
		<u> </u>	<u>l</u>		<u> </u>	<u> </u>		Female	Straig	ht	<u> </u>							
THE	NPCF	4M5	401	402	6M5	601	602	603	801	802	803	804	1002	1003	1004	1202	1203	1204
m	Tube	4	4	4	6	6	6	6	8	8	8	8	10	10	10	12	12	12
	Thread	M5	1/8	1/4	M5	1/8	1/4	3/8	1/8	1/4	3/8	1/2	1/4	3/8	1/2	1/4	3/8	1/2
凝微	Price	1.23	1.23	1.64	1.23	1.23	1.64	2.32	1.37	1.64	2.32	2.73	2.73	2.73	3.01	3.01	3.01	3.42
							Sing	le Univ	ersal l	Elbow								
	NPH	4M5	401	402	6M5	601	602	603	801	802	803	804	1002	1003	1004	1202	1203	1204
	Tube	4	4	4	6	6	6	6	8	8	8	8	10	10	10	12	12	12
	Thread	M5	1/8	1/4	M5	1/8	1/4	3/8	1/8	1/4	3/8	1/2	1/4	3/8	1/2	1/4	3/8	1/2
	Price	2.19	2.19	2.19	2.19	2.19	2.19	2.73	2.19	2.19	2.73	5.47	2.73	2.73	5.47	5.47	5.47	5.47
		I	I	ı	I	I		ended			I							
	NPLL	4M5	401	402	6M5	601	602	603	801	802	803	804	1002	1003	1004	1202	1203	1204
	Tube	4	4	4	6	6	6	6	8	8	8	8	10	10	10	12	12	12
	Thread	M5	1/8	1/4	M5	1/8	1/4	3/8	1/8	1/4	3/8	1/2	1/4	3/8	1/2	1/4	3/8	1/2
	Price	2.19	2.19	2.19	2.49	2.49	2.49	2.84	2.57	2.57	2.84	4.37	2.84	2.84	4.37	5.47	5.47	5.47

2/2 & 3/2 Coaxial Solenoid

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanical Air Valves

Accessories, Fittings, Tubing

FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors Vent Suctior Check Valves

Pinch Proportional Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filters Brass 2/2 N/Closed 0 Rated Media: air – gas

Seals: NBR

Pressure range: 8 Bar max Temperature: -10°C to +70°C Body Material: POM / BRASS

Mounting: any position

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

Stainless 2/2 N/Closed 0 Rated

2/2 N/Closed

Stainless 2/2 N/Oper

Stean

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas Valves

Pressure Reducing Valves

# **PUSH IN FITTINGS**

#### **PLASTIC**

S Type Speed Controller																		
				l			1			1								
果 235	NSS	4M5	401	402	6M5	601	602	603	801	802	803	804	1002	1003	1004	1202	1203	1204
	Tube	4	4	4	6	6	6	6	8	8	8	8	10	10	10	12	12	12
	Thread	M5	1/8	1/4	M5	1/8	1/4	3/8	1/8	1/4	3/8	1/2	1/4	3/8	1/2	1/4	3/8	1/2
445	Price £	6.86	6.86	6.86	6.86	6.86	7.38	11.32	7.38	7.38	11.32	12.51	11.32	11.32	12.51	12.51	12.51	12.51
	I	ı	I	I	I		1	head F					I	I	I	I	I	ı
恶	NCM		401	402		601	602		801	802	803		1002	1003		1202	1203	
111	Tube		4	4		6	6		8	8	8		10	10		12	12	
	Thread		1/8	1/4		1/8	1/4		1/8	1/4	3/8		1/4	3/8		1/4	3/8	
	Price		2.51	3.06		2.52	3.06		2.73	3.06	4.43		3.83	4.65		6.01	6.01	
27.0.97.0		ı	ı	ı	ı		ı		Equal \				ı	ı	ı	ı	ı	ı
	NPX	4M5	401	402	6M5	601	602	603	801	802	803	804	1002	1003	1004	1202	1203	1204
	Tube	4	4	4	6	6	6	6	8	8	8	8	10	10	10	12	12	12
M	Thread	M5	1/8	1/4	M5	1/8	1/4	3/8	1/8	1/4	3/8	1/2	1/4	3/8	1/2	1/4	3/8	1/2
-	Price	3.28	3.28	3.28	3.28	3.28	3.28	5.36	3.55	3.55	3.83	5.47	4.92	4.92	5.47	6.56	6.56	6.56
	l	ı	ı	Elbov			T	T		T			Г	Straigh	Г	T	T	
	NPV	4	6	8	10	12		3	-	NF	PU	4	6	8	10	12		
1	Tube	4	6	8	10	12		- 10		Tu	ibe	4	6	8	10	12		
1	Tube	4	6	8	10	12				Tu	ibe	4	6	8	10	12		
,	Price	1.50	1.50	1.64	2.05	3.14		3	C	Pri	ice	1.64	1.64	1.78	2.19	3.14		
	T		Unic	n Tee	1		ı	ı		ı		В	ulkhea	d Unio	n	ı	ı	
30	NPE	4	6	8	10	12		72		NF	PM	4	6	8	10	12		
	Tube	4	6	8	10	12				Tu	be	4	6	8	10	12		
10	Tube	4	6	8	10	12		100		Tu	ibe	4	6	8	10	12		
35	Price	1.91	1.91	1.91	2.46	5.47		-1		Pri	ice	3.61	3.88	4.62	5.33	5.47		
			Une	qual Y									Stan	dpipe		_		
	NPW	64	86	108	12	10				NP	GJ	64	84	86	106	108		
1.01	Tube	6	8	10	1	2				Tu	ibe	6	8	8	10	10		
	Tube	4 4	6 6	8 8	10	10		1	Ī	Tu	ibe	4	4	6	6	8		
286	Price	3.58	4.37	4.76	7.	65		- D	Ш	Pri	ice	4.26	4.26	4.87	5.47	5.47		
			Une	qual T								U	nequal	Straig	ht			
36	NEG	64	86	108	1210					NF	PG	64	86	106	108	1210		
D.	Tube	6	8	10	12					Tu	be	6	8	10	10	12		
	Tube	4 4	6 6	8 8	10 10					Tu	ibe	4	6	6	8	10		
35	Price	3.58	4.37	4.76	7.65			-10	(O)	Pri	ice	2.73	3.58	3.72	3.71	4.76		
								Uni	ion Y									
212.212	NPY	4	6	8	10	1	2											
		1	_	0	10	1	2											
	Tube	4	6	8	10													
	Tube Tube	4	6	8	10		2											
		1				1	2											

Media: air – gas

Pressure range: 0 to 8 Bar Body: 316 Stainless steel

Seals: Viton

Temperature:0°C to +180°C

## **PUSH IN FITTINGS**

#### 316 Stainless Steel

					<u> </u>			Male	Straigh	t								
	S6PC	4M5	401	402	6M5	601	602	603	801	802	803	804	1002	1003	1004	1202	1203	1204
715	Tube	4	4	4	6	6	6	6	8	8	8	8	10	10	10	12	12	12
are	Thread	M5	1/8	1/4	M5	1/8	1/4	3/8	1/8	1/4	3/8	1/2	1/4	3/8	1/2	1/4	3/8	1/2
111	Price £	8.47	7.38	7.93	8.47	7.65	8.47	11.21	9.02	9.02	11.21	14.76	11.21	11.21	14.76	14.76	14.76	14.76
								Male	Elbow									
	S6PL	4M5	401	402	6M5	601	602	603	801	802	803	804	1002	1003	1004	1202	1203	1204
-	Tube	4	4	4	6	6	6	6	8	8	8	8	10	10	10	12	12	12
9	Thread	M5	1/8	1/4	M5	1/8	1/4	3/8	1/8	1/4	3/8	1/2	1/4	3/8	1/2	1/4	3/8	1/2
1000	Price	11.48	10.39	11.21	11.48	10.66	11.48	15.03	10.66	12.03	15.03	24.60	15.03	15.03	24.60	24.60	24.60	24.60
							ı	Male Br	anch T	ee								
35	S6PB	4M5	401	402	6M5	601	602	603	801	802	803	804	1002	1003	1004	1202	1203	1204
	Tube	4	4	4	6	6	6	6	8	8	8	8	10	10	10	12	12	12
47	Thread	M5	1/8	1/4	M5	1/8	1/4	3/8	1/8	1/4	3/8	1/2	1/4	3/8	1/2	1/4	3/8	1/2
	Price	18.31	16.40	17.77	18.31	16.95	18.31	22.14	19.13	19.13	22.14	31.71	22.14	22.14	31.71	22.14	31.71	31.71
		_	_	_	_	_		Male I	Run Te	е					_	_	_	
23.5	S6PD		401	402		601	602		801	802			1002	1003		1202	1203	1204
All	Tube		4	4		6	6		8	8			10	10		12	12	12
H	Thread		1/8	1/4		1/8	1/4		1/8	1/4			1/4	3/8		1/4	3/8	1/2
U	Price		16.40	17.77		16.95	18.31		19.13	19.13			22.14	22.14		31.71	31.71	31.71
Bulkhead Female Union																		
H	S6CM		401	402		601	602	603	801	802	803		1002	1003	1004	1202	1203	1204
	Tube		4	4		6	6	6	8	8	8		10	10	10	12	12	12
	Thread		1/8	1/4		1/8	1/4	3/8	1/8	1/4	3/8		1/4	3/8	1/2	1/4	3/8	1/2
	Price		11.75	13.94		11.75	13.94	19.68	11.75	15.31	21.05		15.31	21.05	27.88	16.67	22.96	30.07
	I	I	I	I	I	I		Female							I	I	I	
溉	S6PCF		401	402		601	602	603	801	802	803		1002	1003	1004	1202	1203	1204
Щ	Tube		4	4		6	6	6	8	8	8		10	10	10	12	12	12
	Tube		1/8	1/4		1/8	1/4	3/8	1/8	1/4	3/8		1/4	3/8	1/2	1/4	3/8	1/2
	Price		9.84	15.57		9.84	12.57	16.67	10.39	13.12	17.49		13.12	17.49 <b>d Unio</b>	22.96	13.94	18.85	24.33
760	S6PU	4	6	Straigh 8	10	12		<u> </u>		98	PM	4	6	8	10	12		
	Tube	4	6	8	10	12		Land A	Au.		ibe	4	6	8	10	12		
	Tube	4	6	8	10	12			-		ibe	4	6	8	10	12		
32	Price	11.21	11.21	12.57	13.94	17.49		-			ice	16.13	17.49	19.68	21.59	23.78		
	1 1100			12.07	10.0 +	17.10		Un	ion T	''		10.10	17.10	10.00				
76.00	S6PE	4	6	8	10	12												
200	Tube	4	6	8	10	12												
	Tube	4	6	8	10	12												
52	Price	19.41	20.50	22.96	25.42	42.09												
	L	<u> </u>						<u> </u>							<u> </u>	<u> </u>	<u> </u>	

2/2 & 3/2 Coaxial Solenoid

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanica Air Valves

Accessories, Fittings, Tubing

FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors Vent Suction Check Valves

Pinch Proportional Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filters

Media: air – gas - vacuum Pressure range: 10 Bar max Media temperature: -10 °C +80°C max

Ambient temperature: -10°C to +80°C

Mounting: any position

**SILENCERS** 

PLASTIC, VIBRATION TYPE, EXHAUST SPEED CONTROL, BREATHER VENT, MUFFLER

TYPE SV, S, Q, C0, ST, STH

Ø Port	Symbol	Drawing	Picture	Part Number	List Price						
Silencer Plastic											
1/8			Α		В	С	D	E		EN-01	£0.75
1/4	-	Port "R"	41		8	16	7	14		EN-02	£0.94
3/8			65		10	21	10	20		EN-03	£1.27
1/2		Вр	83.5	1	2.5	25	10	22	AAA	EN-04	£1.65
3/4		<u>E</u> A A	94		14	30	10	26	6	EN-06	£6.92
1			116		16	45	10	32		EN-08	£10.22
	I	Silencer Vi	П		т —					<u> </u>	
	1	Sintered Copper	В	С	D	СН	160	TO THE STATE OF			
1/8	4	сн	6	7	33	12	(Hit			EV-01	£2.83
3/8	*		9	7	35 40	16				EV-02 EV-03	£4.36 £5.93
1/2	_	<u>, a</u>	10	10	42	24	-			EV-03	£6.56
./2		Silencer Exhaust								L V = O +	20.00
		T 🔯	В	С	D	Е	СН		- 8		
1/8	-	Sintered copper	6	7	23	36	12			ES-01	£2.98
1/4	*	U CH	9	7	28	43	14			ES-02	£4.99
3/8			10	10	35	46.5	18			ES-03	£6.31
1/2		A	11	5	20	56.5	22		1	ES-04	£7.76
		Silencer Brea			1	т-	.   _	T		l	
M5	<u> </u>	S D	D 7.5	d	L 10	F	-	-		ED ME	£0.97
1/8	-		7.5	6.5	-	-	-	_		EP-M5 EP-01	£0.97
1/4		+ 0.3	14.8	9	14.	_	_	- (		EP-02	£1.18
3/8			18	12	15.8	_	+	_		EP-03	£1.89
1/2	-		21	15	18.8	_				EP-04	£3.55
3/4	1	<del>  • •  </del>	26	20	20.8	3 1	2 2	7		EP-06	£6.25
1	1	_ A _	34.2	26	24.8	3 14	.5 36	3		EP-08	£8.84
	I	Silencer N	luffler	Ту	T						
	_	Sintered copper	D	L	F	S	В			_	
M5	_		5.5	20	5	10	-			EC-M5	£0.97
1/8	-	<u>s</u>	8	24	6	13	+	-		EC-01	£1.11
1/4			11	33	8	15		-		EC-02	£1.39
3/8 1/2	-	m L	14	44	10	22				EC-03 EC-04	£2.77
3/4	-		21	57	11	30	-			EC-04	£3.97
1	-	Α_	27	72	15	36	+			EC-08	£10.74
			IONS		1 '0	1 30					
NPT Th	read (N)										+ 10%

Media: air – gas – fluid

7.5

9

3/16

1/4

3/8

10

12

1/4"

3/8"

1/2"

Nylon tube other colours

50

50

45

45

Polyurethane tube standard colours Blue (BL) Black (B) or Orange (OR) - price as listed

Polyurethane Tube colour Red (R), Yellow (Y), Transparent (T), Green (G) or White (W)

Nylon tube standard colours Milk White (W), Black (B) except NY0420 milk white only - price as listed

# Nylon & PU Tubing

4 – 16mm & 1/4-1/2 100 & 200 Mtr Rolls TRANSPARENT, RED, YELLOW GREEN, BLACK & MILK WHITE



2/2 & 3/2
Solenoid

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanical Air

Accessories, Fittings, Tubing

FRL's, Filters Regulators

Air Actuated Valves

Arrestors Vent Suctior Check Valve

£139.51

£203.56

£64.34

£139.51

£203.56

Included

+10% Included

POA

NY-1075 + colour code

NY-1290 + colour code

NY-1/4 + colour code

NY-3/8 + colour code

NY-1/2 + colour code

Pinch Proportional Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filters

POLYURETHANE TUBE											
OD	ID	Break Pressure	Colour	Roll Length (Meters)	Part Number	List Price					
4	2	15		200	PU-0420 + colour code	£61.94					
4	2.5	18		200	PU-0425 + colour code	£51.71					
6	4	20		200	PU-0640 + colour code	£82.69					
8	5	20	Standard Blue (BL)	100	PU-0850 + colour code	£68.55					
10	6.5	20	Black (B) Orange (OR)	100	PU-1065 + colour code	£113.65					
11	8	18		100	PU-1180 + colour code	£118.77					
12	8	20	<b>Option</b> Red (R)	100	PU-1280 + colour code	£139.21					
16	12	20	Yellow (Y) Transparent(T)	100	PU-1612 + colour code	£245.05					
16	13	18	Green(G)	100	PU1613 + colour code	£190.93					
1/4"	3/16	20	White (W)	200	PU-1/4 + colour code	£103.13					
3/8"	1/4"	18		100	PU-3/8 + colour code	£108.24					
1/2"	3/8"	18		100	PU-1/2 + colour code	£141.91					
			NYLON TU	BE							
OD	ID	Break Pressure	Colour	Roll Length (Meters)	Part Number	List Price					
4	2.5	50	Ctondond	200	NY-0425 + colour code	£85.39					
6	4	50	Standard Milk White (W)	100	NY-0640 + colour code	£64.34					
8	6	50	Black (B)	100	NY-0860 + colour code	£89.90					

(Except NY0420)

Option Red (R)

Yellow (Y) Transparent (T)

Green (G)

**OPTIONS** 

100

100

100

100

100

Brass 2/2 V/Closed

2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

Stainless 2/2 N/Closed Pilot

Stainless 2/2 N/Oper

Stean

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas Valves

Pressure Reducing Valves Media: air

Inlet Pressure: 8 Bar max

Operating Pressure range: 0.5 – 8 Bar Media temperature: -10 ℃ to +60 °C Ambient temperature: -10 °C to +60 °C

Mounting: any Weight: 205g



### Miniature Regulator

1/8 - 1/4
Aluminium
Relieving or Non Relieving
0 – 8 Bar

# TYPE R200 + NR200



	PRESSURE											
Ø	Flow			Pressure (Bar) Air		List						
Port BSP	(ANR) L/Min	Regulator Type	Min	Max	Part Number	Price						
	1500	Diaphragm	0.5	8	NR200-01	£14.73						
1/8	1500	Diaphragm	0	4	NR200L4-01	£14.73						
	1500	Diaphragm	0	2	NR200L2-01	£14.73						
	1550	Piston	0.5	8	R200-02	£12.33						
1/4	1500	Diaphragm	0.5	8	NR200-01	£14.73						
1/4	1500 Diaphragr		0	4	NR200L4-01	£14.73						
	1500	Diaphragm	0	2	NR200L2-01	£14.73						

#### **OPTIONS**

Panel mounting ring, Relieving as standard (option non relieving (V) available upon request), Blanking plug x1

Pressure gauge (G)

Mounting bracket (B)

NPT Thread

Included

+£4.66

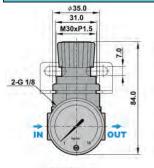
+£0.90

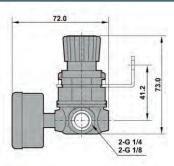
+5%

#### CONSTRUCTION

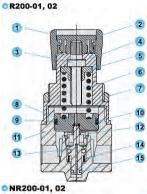
Body Die Cast Aluminium

Regulator : R200 Piston, NR200 Diaphragm R200 10 Bar NR200 12 Bar proof pressure teste



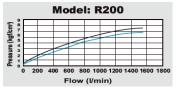


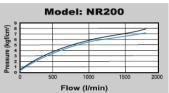
X Axis: Flow (L/min)
Y axis: Pressure (Bar / Kgcm²)
Blue line (PO) = Outlet pressure
Black line (P1) = Inlet pressure
P1 – P0 = pressure range



No	Description	Material
1	Regulator Dome	NY
2	Regulator Knob	NY
3	Pressure Regulating Screw	Fe+Ni
4	Regulator Base	NY+GF
5	Pressure Regulating Nut	Cu+Ni
6	Spring	Spring Steel
7	Lock Nut	NY+GF
8	O Ring	NBR
9	O Ring	NBR
10	Piston	AL
11	Body	ADC12
12	Positioning Nut	Cu
13	Regulating Needle	Cu
14	Spring	SUS
15	O Ring	NBR

15	O Ring	NBR
No	Description	Material
1	Regulator Knob	NY
2	Pressure Regulating screw	Fe-Ni
3	Regulator base	NY-GF
4	Spring	Spring steel
5	Lock Nut	NY-GF
6	Diaphragm	NBR70°
7	Regulating needle	AL
8	Positioning nut	POM
9	Plug	Cu
10	Spring	SUS
11	Body	ADC12





Inlet Pressure: 8 Bar max
Pressure range: 0.05 – 8 Bar
Media temperature: -5°C to +60°C
Ambient temperature: -5°C to +60°C

Mounting: any Weight: 345g



# Precision Mini Regulator

Aluminium
Relieving or Non Relieving
0.05 – 8, 4 or 2 Bar
TYPE URP-02



PR	ESS	URE

Ø		Pressure (Bar) Air			1.1-4	
Port BSP	Accuracy (F.S.)	Colour	Min	Max	Part Number	List Price
		Blue	0.1	8	URP-02	
1/4	Sensitivity +/- 0.2% Repeatability +/- 0.5%	Orange	0.1	4	URPL4-02	£101.49
	Tropodidamity 7 0.070	Yellow	0.05	2	URPL2-02	

**OPTIONS** 

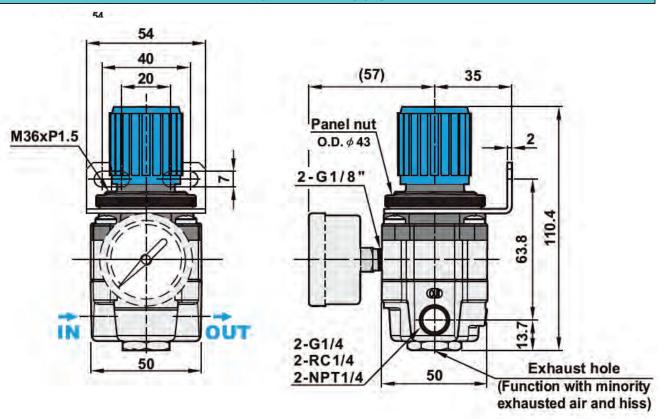
Panel mounting ring, Relieving as standard (option non relieving (V) available upon request), Blanking plug x1

Pressure gauge (G) Mounting bracket (B) NPT or Rc Thread Included +£4.65 +0.90 +5%

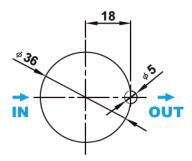
CONSTRUCTION

Body Die Cast Aluminium Regulator : Diaphragm 10 Bar proof pressure tested

#### **OVERALL DIMENSIONS**



### **Panel Size**



Thickness: Max. 3.5

2/2 & 3/2 Coaxial Solenoid

> lectric actuated all Valves

Air Solenoid Valves

> Mechanical Air Valves

Accessories Fittings, Tubing

FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors Vent Suctior Check Valves

rinch roportional Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filters Brass 2/2 N/Closed

Brass 2/2 N/Closed Pilot

2/2 N/Oper 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed

> 2/2 N/Oper

> > Steam

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas

Pressure Reducing Valves

## Miniature FRL

1/8 1/4
Aluminium
Manual, Semi & Auto Drain
0.5 – 10 Bar





Included

+£0.61

+£3.00 +£5.50

+£12.63 +£9.32

+£2.20

+£1.20

	PRESSURE										
Ø	Max Flow Air		Pressu	ıre (Bar)			List				
	(L/Min) @ 6Bar (ANR)	Kg	Min	Max	Combination	Part Number	Price				
	1850	0.81	0.5	10	F+R+L	FRL700A + port	£56.53				
1/8(01)	1650,1850	0.56	0.5	10	FR+L	FRL600A + port	£44.50				
, ,	1840,1940	0.37	0.5	10	FR	FR500A	£29.77				
1/4(02)	1900	0.245	0.5	10	Filter	F200A	£21.35				
	2449	0.165	0.5	10	Lubricator	L200A	£18.34				

#### **OPTIONS**

5 μm PE Filter element , Semi-Automatic drain below 0.5 Bar, Pressure Gauge, Plug, Mounting Bracket & screws (FRL700,600,FR500) 40 μm PE Filter element (C)

5 μm (S) or 40 μm(T) Sintered Bronze element

Manual drain (H)

Full auto drain (D)

Acid alkali resistant bowls (A) (FRL700/600 x2pcs, FR500A,F+L200A x1 pc)

Bowl Guard (K) (FRL700+600 x2pcs, FR500,F200A, L200A x1pc)

Mounting bracket (option for F200A & L200A)

NPT Thread

Media: air

Inlet Pressure: 10 Bar max Pressure range: 0.5 – 10 Bar

Media temp: -10 °C to +60 °C Ambient temp: -10 °C to +60 °C

Regulator Lubricator

Mounting: any position

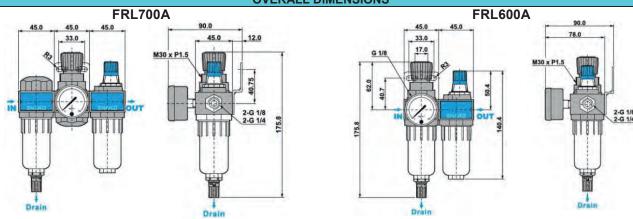
#### CONSTRUCTION

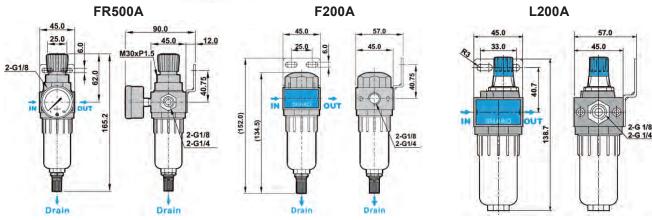
Diaphragm Regulator, Filter (35cc), Lubricator (50cc)

Body & Bowls: Polycarbonate Recommended Oil ISO VG32

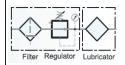
#### **FEATURES**

Ultra-compact high accuracy high flow diaphragm pressure regulation long life Lubricator oil refill under during full working pressure 12 Bar Proof Pressure Tested Secure Oil mist delivery and adjustment





Inlet Pressure: 10 Bar max Pressure range: 0.5 - 10 Bar Media temp: -10 °C to +60 °C Ambient temp: -10°C to +60°C Mounting: any position



# **FRL**

1/4 3/8 1/2 **Aluminium** Manual, Semi & Auto Drain 0.5 - 10 Bar TYPE NUFRL



	PRESSURE										
Ø	Max Flow Air	1.6	Pressu	ire (Bar)			List				
Port BSP	(L/Min) @ 6Bar (ANR)	Kg	Min	Max	Combination	Part Number	Price				
	2080,2100,2600	2.3	0.5	10	F+R+L	NUFRL + port	£97.71				
1/4(02)	2080,2100,2600	1.68	0.5	10	FR+L	NUFR/L + port	£69.75				
3/8(03)	2080,2100,2600	0.81	0.5	10	FR	NUFR + port	£42.39				
	2440,2450,3030	0.48	0.5	10	Filter	NUF + port	£30.36				
1/2(04)	2100,2130,2750	0.56	0.5	10	Regulator	NUR + port	£34.28				
	2080,2100,2600	0.55	0.5	10	Lubricator	NUL + port	£25.86				

#### **OPTIONS**

5 µm PE Filter element , Semi-Automatic drain below 0.5 bar with Manual Drain, Pressure Gauge Integral (NUFRL, NUFR/L, NUFR, NUR) 40 μm PE Filter element (C) 5 μm (S) or 40 μm(T) Sintered Bronze element

Fully Automatic Drain (D)

Manual Drain (H)

Aluminium Bowl (AL) (For NUFRL, NUFR/L 2pcs, NUFR, NUF, NUL 1pc)

Acid / Alkali Resistant Bowl (A) (For NUFRL, NUFR/L 2pcs, NUFR, NUF, NUL 1pc)

+£17.59 +£13.38

Included

+£0.78 +£8.42 +£12.63

+£5.50

+10%

CONSTRUCTION

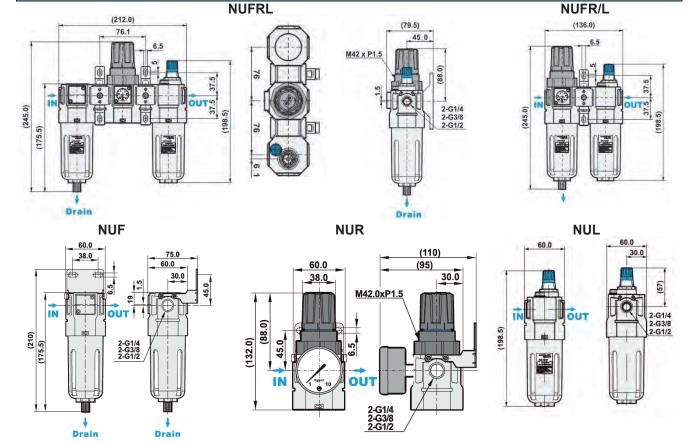
Piston Regulator, Filter (105cc), Lubricator (125cc): Die Cast Aluminium

Bowls: Polycarbonate standard Recommended Oil ISO VG32

High Accuracy High Flow Pressure Regulating Long Life Piston Lubricator oil refill under during full working pressure

15 Bar Proof Pressure Tested Secure Oil mist delivery and adjustment

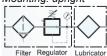
#### **OVERALL DIMENSIONS**



FRL's, Filters Regulators Lubricators

Inlet Pressure: 10 Bar max Pressure range: 0.5 to 10 Bar Media temp: -10 °C to +60 °C Ambient temp: -10°C to +60°C

Mounting: upright



# **FRL**

3/4 - 1 **Aluminium** Manual. Semi & Auto Drain 0.5 - 10 Bar TYPE UFRL



Included

Included

+£2.76

+£10.53

+£12.63

+£5.50

£17.58

+10%

	PRESSURE										
Ø	Max Flow Air		Pressu	ure (Bar)		Part	List				
Port BSP	L/min @ 6Bar (ANR)	Kg	Min	Max	Combination	Number	Price				
	7490,8200	2.65	0.5	10	F+R+L	UFRL + port	£177.40				
	7490,8200	2.145	0.5	10	F/R+L	UF/RL + port	£135.30				
3/4(06)	7940,8200	1.36	0.5	10	F/R	UF/R + port	£95.61				
1(08)	8250,8860	1.25	0.5	10	Filter	UF + port	£66.14				
	8000,8500	1.25	0.5	10	Regulator	UR + port	£81.18				
	8400,9000	1.095	0.5	10	Lubricator	UL + port	£66.14				

**OPTIONS** 5 µm PE filter element, Semi-Automatic drain below 0.5 Bar with Manual Drain (UFRL, UF/RL, UF/R, UF06-08)

Pressure Gauge, mounting bracket, plug, screws (UFRL, UF/RL, UF/R, UR06-08)

40 µm PE Filter element (C) (UFRL, UF/RL, UF/R, UF06-08)

5 µm (S) or 40 µm (T) sintered bronze filter element (UFRL, UF/RL, UF/R, UF06-08)

Fully Automatic Drain (D) (UFRL, UF/RL, UF/R, UF06-08)

Manual Drain (H) (UFRL, UF/RL, UF/R, UF06-08)

Acid / Alkali Resistant Filter or lubricator Bowl (A) (UFRL, UF/RL require 2pcs, UF/R, UF, UL06-08 require 1pc)

**NPT Thread** 

#### CONSTRUCTION

Piston regulator, Filter (210cc), Lubricator 235cc: Die Cast Aluminium

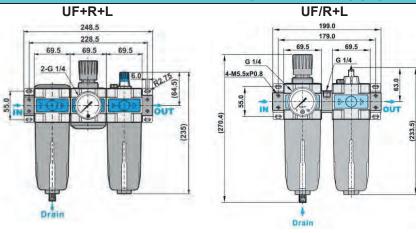
Recommended Oil ISO VG32

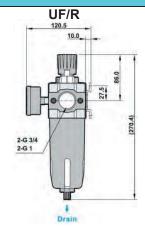
Test pressure: 15 Bar

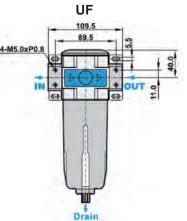
#### **FEATURES**

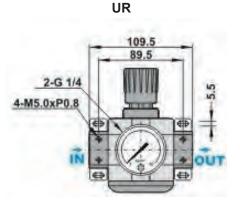
High Accuracy High Flow Pressure Regulating Long Life Piston Lubricator oil refill under during full working pressure

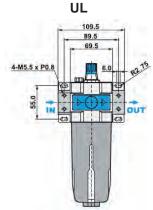
15 Bar Proof Pressure Tested Secure Oil mist delivery and adjustment











Inlet Pressure: 8 Bar max

Operating Pressure range: 0 – 8 Bar Media temperature: -10 °C to +60 °C Ambient temperature: -10 ° to +60 °C

Mounting: any Weight: 2200g/2800g



### Pilot Regulator

11/2 - 2

Aluminium

Relieving or Non Relieving

0 – 8 Bar

# TYPE UAR/UR14-20



PRESSURE										
Ø Port BSP	Pressure (I	Bar) Air	Flow Bort Number List							
	Min	Max	(L/Min)	Part Number	Price					
11/2	0	8	30000	UAR14	£371.33					
2	0	8	30000	UAR20	£3/1.33					
11/2	0	8	30000	UR14	£381.84					
2	0	8	30000	UR20	2301.04					

OPTIONS

Pressure gauge and plug

Relieving as standard (option non relieving available upon request)

NP1 Thread

Included +5% +10%

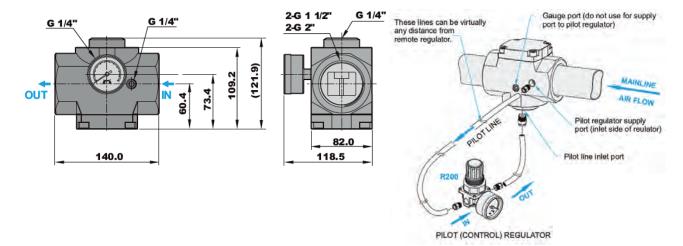
CONSTRUCTION

Body Aluminium alloy Regulator Piston

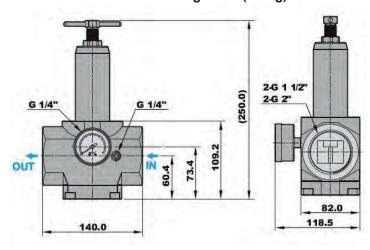
10 Bar proof pressure tested

#### **OVERALL DIMENSIONS**

#### UAR14-20 Remote Pilot Regulator (2.2Kg)



#### UR14-20 Regulator (2.8Kg)



2/2 & 3/2 Coaxial Solenoid

Electric Actuated Ball Valves

Air Solenoid Valves

> Mechanical Air Valves

Accessories Fittings, Tubing

> FRL's, Filters Regulators Lubricators

Air Actuated

Arrestors Vent Suction Check Valves

Pinch Proportional Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filters

Drain

Mounting: upright

Inlet Pressure: 10 Bar max Pressure range: 0.5 to 10 Bar

Media temp: -10 °C to +60 °C Ambient temp: -10°C to +60°C

# **Drip Leg Drain**

1/2 3/4 1 **Aluminium** Auto Drain 0.5 - 10 Bar TYPE AD940



			PRESSURE			
Ø	Ø Port Kg BSP	Pres	sure (Bar)			List
		Min	Max	Bowl	Part Number	Price
1/2	0.5	0.5	10	Polycarbonate	AD940-04	£39.69
3/4	0.4	0.5	10	Polycarbonate	AD940-06	CEC E2
1	0.4	0.5	10	Polycarbonate	AD940-08	£56.53
1/2	0.5	0.5	10	Δluminium	ΔD940-04	£57.28

**OPTIONS** 

Included Fully automatic drain NPT Thread +10%

#### CONSTRUCTION

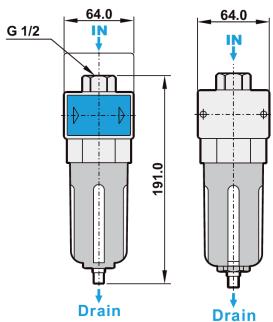
Die cast Aluminium body

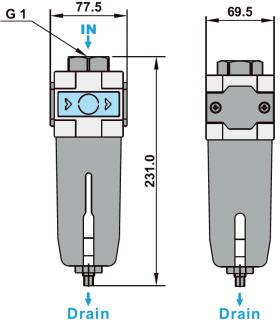
Filter bowl polycarbonate, capacity 1/2 105cc, 3/4 + 1" 210cc optional aluminium bowl

#### **FEATURES**

Effective fast fully automatic water drain. Special internal construction prevents vacuum in system.

#### **OVERALL DIMENSIONS** AD940-04 AD940-06 + 08





Inlet Pressure: 10 Bar max Pressure range: 0.5 to 10 Bar Media temp: 0°C to +60°C Ambient temp: 0°C to +60°C Mounting: Upright +/- 5°



## **UMF Air Filter**

1/4 - 1

Coalescing & Activated Charcoal Manual or Semi Auto Drain 0.5 - 10 Bar

# TYPE UMF02-08



			PRESSURE			
Ø Port	Max Flow Air	Pressu	ure (Bar)	Filter	Dowt Namehou	List
BSP L/	L/min @ 6 Bar (ANR)	Min	Max	Element	Part Number	Price £94.41 £99.81 £94.41 £99.81 £94.41
1/4	2050	0.5	10	Coalescing	UMF02	£94.41
1/4	1/4 2000	0.5	Activated Carbon	UMF02K	£99.81	
2/0	<b>3/8</b> 2100	0.5	10	Coalescing	UMF03	£94.41
3/0	2100	0.5		Activated Carbon	UMF03K	£99.81
1/2	2150	0.5	10	Coalescing	UMF04	£94.41
1/2	2130	0.5	10	Activated Carbon	UMF04K	£99.81
3/4	3800	0.5	10	Coalescing	UMF06	£200.54
3/4	3600	0.5	10	Activated Carbon	UMF06K	Price £94.41 £99.81 £94.41 £99.81 £94.41 £99.81
4	3850	0.5	10	Coalescing	UMF08	Price £94.41 £99.81 £94.41 £99.81 £94.41 £99.81 £200.54 £205.95 £200.54
'	3030	0.5	10	Activated Carbon	UMF08K	

**OPTIONS** 

0.01 Micron coalescing filter element or Activated charcoal element

Manual drain (H)

Mounting bracket and screws (B)

Acid Alkali resistant bowl 1/4 3/8 or 1/2 (A)

Acid Alkali resistant bowl 3/4 or 1 (A)

Aluminium Bowl (AL) 1/4 3/8 or 1/2 Only

Included +£5.50

> +£1.10 +£7.22

+£19.55 +£15.79

Valves

Accessories Fittings, Tubing

FRL's, Filters Regulators Lubricators

Air Actuated

Arrestors
Vent Suction
Check Valves

Pinch
Proportional
Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filter

#### CONSTRUCTION

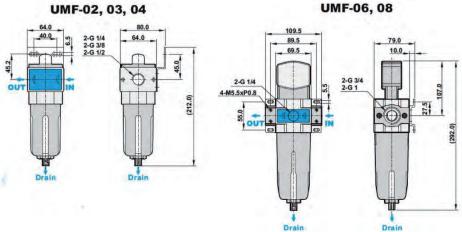
Filter bowl 02-03-04(65cc), 06-08 (115cc)

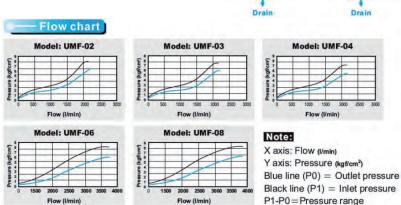
Body die cast aluminium, Bowls Polycarbonate optional acid/alkali resistant or aluminium

Test Pressure: 15 Bar

#### Repair Kit

0.01 Micron Coalescing filter element 1/4 3/8 & 1/2 (ZH04H), 3/4 & 1" (ZH08H) Activated charcoal filter element 1/4 3/8 & 1/2 (ZH04CHA), 3/4 & 1" (ZH08CHA)





Inlet Pressure: 10 Bar max

Media temp: 0°C to +60°C Ambient temp: 0°C to +60°C

0

Filter

Filter

Mounting: Upright +/- 5°

Filter Regulator

Breathing Air Filter Set Pressure range: 0.5 to 10 Bar

1/4, 3/8 & 1/2

Coalescing & Charcoal Filtration Semi Auto or Manual Drain 0.5 - 10 Bar

### YPE UFR+UMFK



Included +£0.78

			PRE	SSURE		
Ø Port	Max Flow Air	Press	ure (Bar)	Combination	Part Number	List
BSP	L/min @ 6 Bar (ANR)	Min	Max	Combination	Fait Nullibei	Price
1/4	2050	0.5	10		UFR02-UMF02B-UMF02KB	
3/8	2100	0.5	10	Filter Regulator + Coalescing Filter + Activated Charcoal Filter	UFR03-UMF03B-UMF03KB	£235.72
1/2	2150	0.5	10		UFR04-UMF04B-UMF04KB	

**OPTIONS** 

5μ pre-filter, 0.01μ coalescing filter, activated charcoal filter, semi-automatic drain, mounting brackets, pressure gauge 40 μ pre-filter element (C)

 $5 \mu$  (S)or  $40 \mu$  (T) sintered bronze pre-filter

0.1µ coalescing filter elements (L)

Manual drains (H)

Acid + Alkali resistant bowls (A)

Aluminium bowls (AL)

NPT or Rc thread

+£8.42 +£11.00 +£16.50 +£42.37 +£52.77 +10%

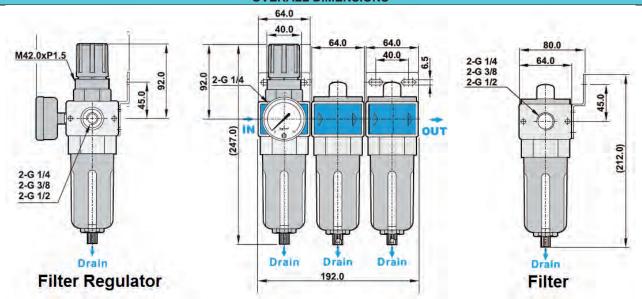
#### CONSTRUCTION

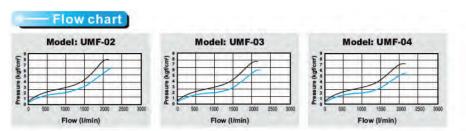
Body die cast aluminium, Filter bowl Polycarbonate (65cc) optional acid/alkali resistant or aluminium Test Pressure: 15 Bar, Weight standard 2.13Kg, with aluminium bowls 3.03Kg

#### Repair Kit

0.01 Micron Coalescing filter element (ZH04H) Activated charcoal filter element (ZH04CHA)

#### OVERALL DIMENSIONS

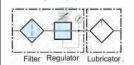




#### Note:

X axis: Flow (I/min) Y axis: Pressure (kgf/cm²) Blue line (P0) = Outlet pressure Black line (P1) = Inlet pressure P1-P0 = Pressure range

Media: air - Inert Gas Inlet Pressure: 20 Bar max Pressure range: 0.5 to 20 Bar Media temp: -10°C to +60° C Ambient temp: -10° to +60° C Mounting: any position



### Stainless F R L

1/4 Miniature Series 316 Stainless Steel Manual – Semi Auto Drain 0.5 – 20 Bar

# TYPE SSFRL02



	PRESSURE											
Ø Port	Max Flow Air L/min @ 6Bar	Pressu	re (Bar)	Combination Part Number		List						
BSP	(ANR)	Min	Max	Combination	rait Number	Price						
	1850	0.5	20	Filter/Regulator + Lubricator	SSFRL600-02	£601.34						
	1850	0.5	20	Filter / Regulator	SSFR500-02	£375.84						
1/4	1900	0.5	20	Filter	SSF200-02	£225.50						
	1850	0.5	20	Regulator	SSR200-02	£294.66						
	2500	0.5	20	Lubricator	SSL200-02	£276.62						

**OPTIONS** 

5 Micron SUS316 Filter Element, Semi-Automatic drain, Pressure Gauge, Plug, Mounting Bracket, Screws Manual Drain (H)

40 Micron SUS316 Filter Element

NPT or Rc Thread

Non relieving (Relieving is standard)

Included +£5.50 +£5.50

+£5.50 +5% +£5.50

Solenoid Valves

Mechanica Air Valves

Accessories Fittings, Tubing

> FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors
Vent Suction
Check Valve

Pinch Proportional Sub Base

Timers,
Coils &
Connectors

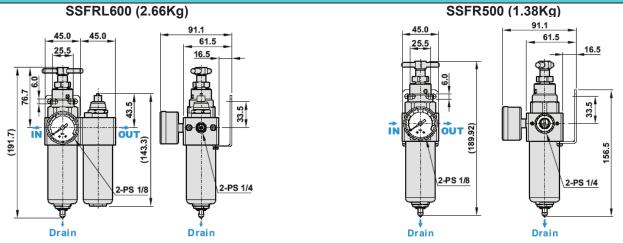
Magnets & Y Filter

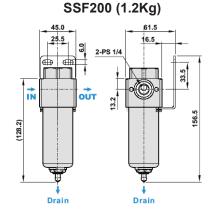
#### CONSTRUCTION

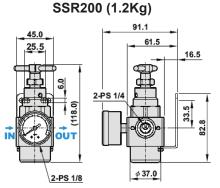
Body, Regulator, Filter (105cc) Lubricator (125cc), Filter Elements, Mounting Bracket, Blanking Plug: 316 Stainless Steel Pressure gauge: Case 304 Stainless Steel /Thread 316 Stainless Steel

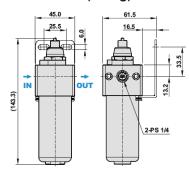
Test pressure: 30 Bar

#### **OVERALL DIMENSIONS**









SSL200 (1.2Kg)

Media: air - gas

Inlet Pressure: 30 Bar max Pressure range: 0.5 - 30 Bar

Media temp: -10 °C - +70 °C Ambient temp: -10° to +70°C

Mounting: upright (USR any)

Stainless F R L

1/4 - 1/2316 Stainless Steel Manual, Semi, Fully Auto Drain 0.5 - 30 Bar

# YPE USFRL02-03-04



	PRESSURE										
Ø	Max Flow Air		Pressure	e (Bar) ∆P			List				
Port BSP	L/min @ 6Bar (ANR)	Kg	Min	Max	Combination	Part Number	Price				
	2080,2200,2500	3.8	0.5	12	F/R+L	USFR/LB + port	£637 42				
	2080,2200,2300	3.0	12	30	F/K+L	USFR/L + port	£637.42 £408.90 £276.61 £336.74				
1/4(02)	0000 0500 0000	2200 2500 2000	2	0.5	12	Filter/Peguleter	USFRB + port	C409 00			
2/0/02\	2200,2500,3800	2	12	30	Filter/Regulator	USFR + port	2400.30				
3/8(03)	2440,2450,3030	1.65	0.5	30	Filter	USF + port	£276.61				
1/2(04)	1950,2250,2520	1.05	0.5	12	Pogulator	USRB + port	C226 74				
	1930,2230,2320	1.4	12	30	Regulator	USR + port	2330.74				
	2500,2525,4100	1.75	0.5	30	Lubricator	USL + port	£202.05				
				OPTIONS							

5 Micron SUS316 Filter Element (USFRL, USFR + USF) 40 Micron SUS316 Filter Element (USFRL, USFR, USF) Semi-Automatic drain (S) below 0.5 bar (USFRL, USFR, USF) Fully Automatic Drain (D) (USFRL, USFR, USF)

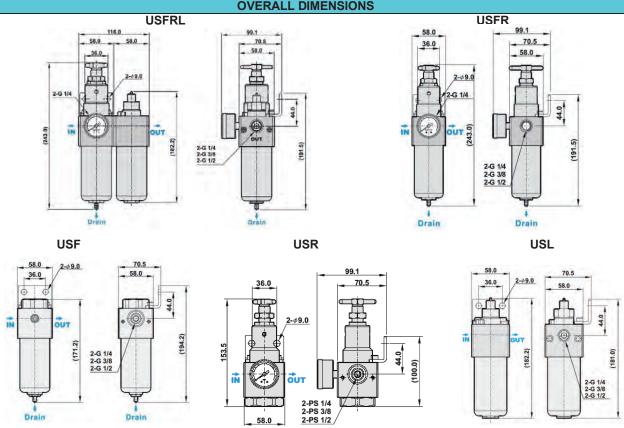
Pressure Gauge, Blanking Plug, Mounting Bracket and Screws (USFRL, USFR, USR) NPT Thread

Included +£5.50 Included +£21.04 Included +5%

#### CONSTRUCTION

Body, Regulator, Filter (110cc) Lubricator (130cc) Bowl, Filter Elements, Mounting Bracket, Blanking Plug: 316 Stainless Steel Pressure gauge: cover 304 Stainless Steel / Thread 316 Stainless Steel

O rings: Viton Test Pressure: 60 Bar



Media: air - gas

Inlet Pressure: 28 Bar max Pressure range: 0.5 - 28 Bar Media temp: -10 °C to +70 °C Ambient temp: -10° to +70°C Mounting: any position

Weight: 7960g

### Stainless F R L

3/4 - 1316 Stainless Steel

Manual, Semi or Auto Drain 0.5 - 28 Bar





			PR	ESSURE			
Ø Port	Max Flow Air	V.	Pressur	e (Bar) ∆P	Combination	Part Number	List
BSP	L/min @ 6Bar (ANR)	Kg	Min	Max	Combination	Part Number	Price
	7600,8000	10.34	0.5	12	F+R+L	USF+R+LB + port	£2126.53
	15200	10.34	12	28	F+R+L	USF+R+L + port	£2120.55
7600,8000 15200	7.96	0.5	12	F/R + L	USF/R+LB + port	£1705.60	
	15200	7.90	12	28	F/K+L	USF/R+L + port	£1705.60
	8700	4.58	0.5	12	F/R	USF/RB + port	£962.13
3/4(06)	9100	4.56	12	28		USF/R + port	
1(08)	9600	3.95	0.5	12	Filter	USFB + port	£721.60
	19200	3.95	0.5	28	Filler	USF + port	
	9000,9400	3.4	0.5	12	Regulator	USRB + port	£809.07
	18000,22000	3.4	12	28	Regulator	USR + port	
	13200	3.36	0.5	12	Lubricator	USLB + port	£724 60
	26400	3.30	5	30	LubilCator	USL + port	£721.60

**OPTIONS** 

5 Micron Filter Element, Semi auto Drain, Pressure Gauge, Mounting Brackets + screws (USFRL, USF/R, USF)

40 Micron Filter Element (USFRLB, USF/R+LB, USFRB, USFB) Manual drain (H) (USFRLB, USF/R+LB, USFRB, USFB)

Fully automatic drain (D) (USFRLB, USF/R+LB, USFRB, USFB)

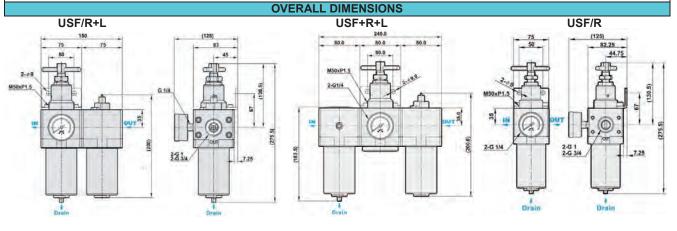
Bowl Viewer (W) (USFRLB, USF/R+LB, USFRB, USFB, USLB 0.5 to 12 Bar Only)

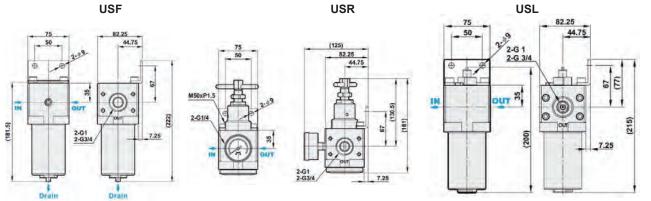
NPT Thread

#### CONSTRUCTION

Body, Regulator, Filter (200cc), Lubricator Bowl (220cc), Mounting Bracket, Blanking Plug, Filter Element: 316 Stainless Steel Pressure gauge: Case 304 Stainless Steel / Thread 316 Stainless Steel

Test Pressure: USFRL 60 Bar USFRLB 15 Bar





Included

+£5.00

+£5.00

+£19.13

+£0.00 +5%

FRL's, Filters Regulators Lubricators

Brass 2/2 N/Closed 0 Rated

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

2/2 N/Oper

Stean

Plastic 2/2 N/Closed

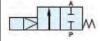
> Plastic Acids/

Latching

EN161 Gas

Pressure Reducing Valves Media: acid – alkali – vacuum - chemical Pressure range: 0 to 5 Bar max Back flow prevention: up to 3 Bar Media temperature: -10 °C to +60 °C max Ambient temperature: -10 °C to +60 °C Air pilot pressure: 1.5 – 9 Bar

Mounting: upright Weight: 491g



# 2/2 PTFE Air Valve

Anti Back Flow
NORMALLY CLOSED
2 WAY AIR DIRECT ACTING
High Purity Valve

High Purity Valve TYPE PEC22



+ 10%

**POA** 

PRESSURE						
Ø Port	Ø Orifice (mm)	Pressure Rating (Bar)				
		Min	Max	Seals	Part Number	List Price
3/8	8.0	0	5	PTFE	PEC22-03C	£169.27
1/2	8.0	0	5	PTFE	PEC22-04C	
OPTIONS						

Normally open function (PEC22-XXN)

CONSTRUCTION

Body : PTFE

NPT Thread

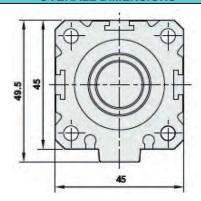
Pneumatic cylinder: Aluminium alloy air port 1/8" Diaphragm: NBR with PTFE base coating

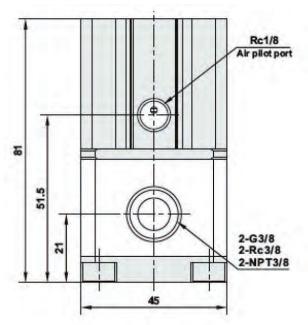
 REPAIR KIT

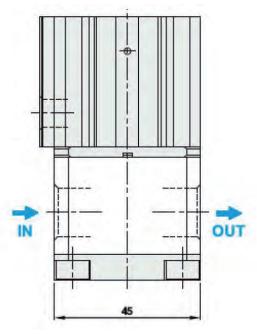
 Diaphragm Seal
 PEC22-PTFE

 Cylinder
 PEC22-cylinder

 OVERALL DIMENSIONS







Media: air - water - oil - steam Pressure range: 0 to 16 Bar Max Media temperature : +180°C max Ambient temperature:+5°C to +80°C Media viscosity: 600 centistokes max

Mounting: any position Pilot Media: air or neutral gas Pilot Pressure: 0.3 to 10 Bar Pilot mounting: Namur Frequency: 3 cycles a sec Max

## Pneumatic Shuttle

3/8 - 2AIR SHUTTLE VALVE 2 WAY AIR DIRECT ACTING 0 – 16 Bar Type SVF



				PRES	SURE			
Ø		Ø	Flow	Pressure	e (Bar) ∆P			List
Port BSP	Function	Orifice (mm)	Kv Ltr/Min	Min	Max	Seal	Part Number	Price
3/8	(0) Normally Open	10	75	0	16		SVF20 + function + 10G	£146.58
1/2	(1) Normally	15	90	0	16		SVF20 + function + 15G	£164.16
3/4	Closed Single Acting	20	167	0	16		SVF20 + function + 20G	£197.54
1		25	253	0	16	FKM	SVF20 + function + 25G	£226.85
11/4	(2) Normally Closed double	32	383	0	16		SVF20 + function + 32G	£368.47
11/2	acting	40	683	0	16		SVF20 + function + 40G	£429.35
2	(3) double acting	50	1183	0	16		SVF20 + function + 50G	£542.10

**OPTIONS** 

(0) Normally Open, (1) Normally Closed Single Acting, (2) Normally Closed double acting, (3) Double acting Open Position Proximity Switch

+10% +£85.69

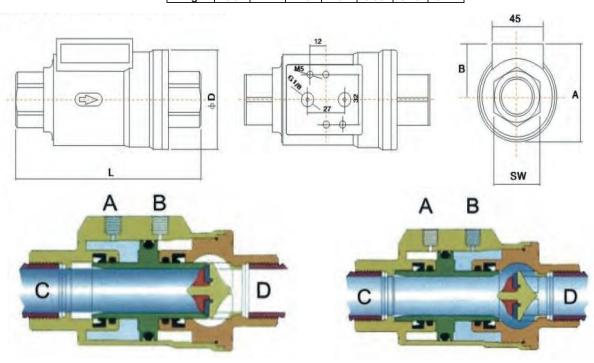
CONSTRUCTION

Body, Piston and internal parts: AISI316 (CF8M) stainless steel

Seals and gaskets: FKM SVF (optional EPDM SVE)

#### **OVERALL DIMENSIONS**

(mm)	10	15	20	25	32	40	50
Port	3/8	1/2	3/4	1	11/4	11/2	2
Α	56	61	72	78	94	104	116
D	46	52	64	69	86	96	108
SW	22	26.5	32	41	50	56	70
В	33	35	40	43	51	56	62
L	98	112	135	143	165	180	207
Kg	0.8	1	1.5	1.92	3.06	3.76	5.71



Media: water - gas - fluid - steam- vacuum

Pressure range: 0 to 16 bar Max Media temperature : -10 °C to +200 °C max Ambient temperature: +5°C to +60°C

Media viscosity: 600 centistokes max Mounting: any position Pilot Media: air - water - gas Pilot Pressure: 5 to 8 Bar



# **Piston Stainless**

3/8 - 3ANGLE SEAT PISTON VALVE 2 WAY AIR DIRECT ACTING 0 - 16 Bar

Type ASPVSS-316



	PRESSURE									
ø		Ø	Flow		Pressure (E	Bar)	Actuator		List	
Port BSP	Function	Orifice (mm)	Kv Ltr/Min	Min	1 <b>⇐2</b> Over Seat	1 ⇒2 Under seat	(mm)	Part Number	Price	
3/8	N/Closed	10	75	0	16	8	40	ASPV10SS-316	£113.83	
1/2	N/Closed	15	90	0	16	8	40	ASPV15SS-316	2113.03	
3/4	N/Closed	20	167	0	16	8	50	ASPV20SS-316	£128.69	
1	N/Closed	25	253	0	16	8	50	ASPV25SS-316	£143.56	
11/4	N/Closed	32	383	0	16	8	63	ASPV32SS-316	£217.78	
11/2	N/Closed	40	683	0	16	8	80	ASPV40SS-316	£252.56	
2	N/Closed	50	1183	0	16	8	80	ASPV50SS-316	£277.19	
21/2	N/Closed	65	1800	0	16	16	100	ASPV65SS-316	£593.98	
3	Double Acting	80	2667	0	16	16	125	ASPV80SS-316	£985.06	

Visual Position Indicator (Except 3 (Double acting) and Anti water Hammer flow 1 ⇒2 (Flow under seat)

Normally Open Version (Except ASPV80SS double acting)

Open Position Proximity Switch (normally closed actuator only)

Modulating, Normally Open, Double Acting, 3 Way, Flanged, 90 degree, manifold, high pressure and other custom made options.

Included +10% +£56.66 **TBA** 

#### CONSTRUCTION

Body, Tube, Piston and internal parts: AISI316 (CF8M) stainless steel

Actuator head: AISI304 stainless steel (Rotation 360°) Seals and gaskets: Valve - PTFE, Actuator - FKM

	OVE	RALL [	DIMEN	SIONS	3						
Parts List	3.5	DN	Port	L	L1	SW	Н	D	Act	Pilot	Kg
2.01 Bolt	3.4	10	3/8	55	17	21	120	51	40	1/8	1.1
2.02 Orifice Plate Seal	4.1	15	1/2	70	21	26.5	138	51	40	1/8	1.1
2.03 Disc Seal		20	3/4	76	23	32	154	62	50	1/8	1.3
2.04 Disc	4.2	25	1	90	25	40	168	62	50	1/8	1.7
2.5 Steam	4.3	32	11/4	116	32	50	200	76	63	1/8	3.1
2.6 V Seal	2.5	40	11/2	116	32	55.5	215	92	80	1/8	3.9
2.7 Spring	2.6	50	2	138	40	68.5	230	92	80	1/8	4.8
3.1 Body	4.5	65	21/2	168	51	85	268	117	100	1/4	9.3
3.2 Seal Ring	46_ ##	80	3	192	54	100	325	140	125	1/4	14.0
3.3 Screw connector	2.7	-					000				N.
3.4 Cylinder	2.6 3.2					/			-	I	-
3.5 Cover	3.1							) [		$\rightarrow$	.
4.1 Spring						1	1	5	H		(
4.2 Piston	2.04	6			2	\$	>		11		( l
4.3 O ring	2.02	1			8		/		12		7
4.4 Bonnet	2.01				3	M	1				
4.5 O Ring	<b>V</b> :	334			X	M					All
4.6 Bearing Ring		200			1	3					
					Convenio		2	Ξ.	Port G		\$2.

Media: gas – water – fluid – steam-vacuum Pressure range : 0 to 16 Bar Max Media temperature : -10°C to +200°C max Ambient temperature:+5°C to +60°C Media viscosity : 600 centistokes max

Mounting : any position Pilot Media : air – water – gas Pilot Pressure : 5 to 8 Bar

# **Piston Stainless**

DN15 – DN80 ANGLE PISTON VALVE 2 WAY DIRECT ACTING 0 – 16 Bar



Type ASPVSS-F

	PRESSURE									
Ø		Ø	_	~			Actuator		List	
Port PN16	Function	Orifice (mm)	Kv Ltr/Min	Min	1 <b>⇐</b> 2 Over Seat	1 ⇒2 Under seat	(mm)	Part Number	Price	
DN15	N/Closed	15	90	0	16	8	40	ASPV15SS-F	£177.44	
DN20	N/Closed	20	167	0	16	8	50	ASPV20SS-F	£198.03	
DN25	N/Closed	25	253	0	16	8	50	ASPV25SS-F	£216.49	
DN32	N/Closed	32	383	0	16	8	63	ASPV32SS-F	£313.71	
DN40	N/Closed	40	683	0	16	8	80	ASPV40SS-F	£370.37	
DN50	N/Closed	50	1183	0	16	8	80	ASPV50SS-F	£417.44	
DN65	N/Closed	65	1800	0	16	16	100	ASPV65SS-F	£795.95	
DN80	Double Acting	80	2667	0	16	16	125	ASPV80SS-F	£1121.04	

OPTIONS

Visual Position Indicator (Except DN80 is Double acting)

Anti water hammer flow 1 ⇒2 (Flow under seat)

Normally Open Version (Except ASPV80SS double acting)

Open Position Proximity Switch (Black Synthetic Actuator only)

Flanged ANSI150Lb, JIS10K

Normally Open, Double Acting, 3 Way and other custom made Flange options available upon request

#### CONSTRUCTION

Body, Tube, Piston, Flange and internal parts : AISI316 (CF8M) stainless steel

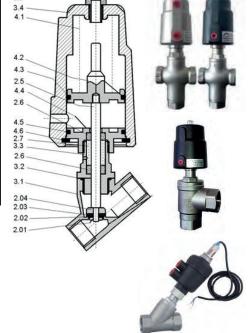
Actuator : AISI304 stainless steel (Rotation 360°) Seals and gaskets : Valve - PTFE Actuator - FKM

Moulded coil : Resin

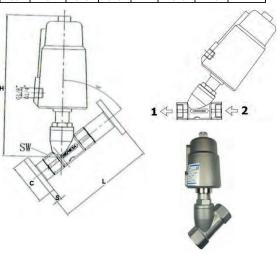
#### **OVERALL DIMENSIONS**

Parts List
2.01 Bolt
2.02 Orifice Plate Seal
2.03 Disc Seal
2.04 Disc
2.5 Steam
2.6 V Seal
2.7 Spring
3.1 Body
3.2 Seal Ring
3.3 Screw connector
3.4 Cylinder
3.5 Cover
4.1 Spring
4.2 Piston
4.3 O ring
4.4 Bonnet
4.5 O Ring
4.6 Bearing Ring





DN	Port	L	Н	С	Bolt	Act	Pilot		
15	1/2	172	138	16	14x4	40	1/8		
20	3/4	182	154	16	14x4	50	1/8		
25	1	196	168	18	14x4	50	1/8		
32	11/4	228	200	18	16x4	63	1/8		
40	11/2	228	215	22	18x4	80	1/8		
50	2	250	230	22	18x4	80	1/8		
65	21/2	295	268	24	20x4	100	1/4		
80	3	320	325	24	20x8	125	1/4		



2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanica Air Valves

Included Included

+10%

+£56.66

+10%

Accessorie Fittings, Tubing

> FRL's, Filters Regulators Lubricators

ir Actuated Valves

Arrestors Vent Suction Check Valves

Pinch Proportiona Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filters

# Piston Stainless

1/2 to 1 BSP ANGLE SEAT PISTON VALVE 3 WAY AIR DIRECT ACTING 0 - 16 Bar

# Type ASPV3SS



Included

	PRESSURE																
Ø		Ø Orifice (mm)										Flow	Press	ure (Bar)	Actuator		List
Port Function BSP	Function		Kv Ltr/Min	Min	Max	(mm)	Part Number	Price									
1/2	Double Acting	20	167	0	16	50	ASPV315SS + option										
3/4	Double Acting	20	167	0	16	50	ASPV320SS + option	£258.06									
1	Double Acting	25	253	0	16	50	ASPV325SS + option										
					OPTIONS												

Visual Position Indicator

Media: air - water - oil - steam- vacuum

Media temperature : -10 °C to +200°C max

Pressure range : 0 to 16 Bar Max

Mounting: any position Pilot Media: air - water - gas

Pilot Inlet: 1/8 BSP

Pilot Pressure: 4 to 6 Bar

Ambient temperature: +5°C to +60°C Media viscosity: 600 centistokes max

NPT Thread

Aluminium Alloy Actuator

Open Position Proximity Switch (Black synthetic actuator head)

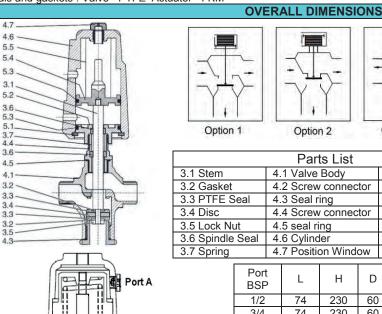
Modulating, Flanged, Manifold mount and other custom made options available upon request CONSTRUCTION

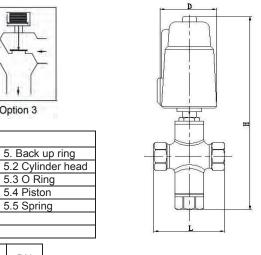
+10% +10% +£56.66

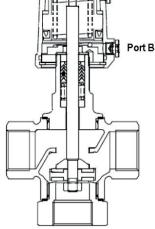
Body: AISI304. Tube, Piston and Internal Parts: AISI316 stainless steel (CF8M)

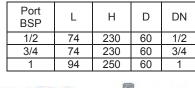
Actuator: AISI304 stainless steel (Rotation 360°)

Seals and gaskets: Valve - PTFE Actuator - FKM









Option 3

5.3 O Ring

5.4 Piston

5.5 Spring







Media: air – water – oil – aggressive Pressure range: 0 to 68 Bar max Media temperature: -10 °C +120 °C max Ambient temperature: -10 °C to +50 °C Media viscosity: 500 centistokes max

Mounting: any position

Compressed air supply: 4 - 6 bar

# 2/2 Stainless

1/4 - 3"

NORMALLY CLOSED
Pneumatic Actuated Ball Valve

0 – 68 Bar TYPE SCY2223



	PRESSURE										
Ø	Orifice	Press	ure (Bar)	Dout Number	List Price						
Port BSP	(mm)	Min	Max	Part Number	LIST Price						
1/4	11.6	0	68	SCY2223CA-02	£228.50						
3/8	12.7	0	68	SCY2223CA-03	£228.50						
1/2	15	0	68	SCY2223CA-04	£220.54						
3/4	20	0	68	SCY2223CA-06	£252.56						
1	25	0	68	SCY2223CA-08	£300.66						
11/4	32	0	68	SCY2223CA-12	£399.88						
11/2	40	0	68	SCY2223CA-14	£432.96						
2	50	0	68	SCY2223CA-20	£487.08						
21/2	65	0	68	SCY2223CA-24	£799.78						
3	80	0	68	SCY2223CA-30	£974.16						

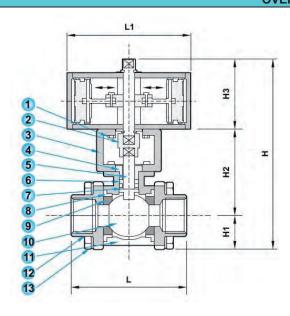
**OPTIONS** 

Normally Open version NPT Thread Limit Switch Cast Iron Actuator +£0.00 +10% +£176.79 TBA

CONSTRUCTION

Ball valve: 316 stainless steel 3 piece Ball Valve: Seals and gaskets: PTFE Actuator: Aluminium Alloy Double Acting

Notation: Alaminiam Alloy Boable Noting							
REPAIR KIT							
Actuator Only to suit 1/2 or 3/4	£169.87						
Actuator Only to suit 1	£199.95						
Actuator Only to suit 11/4, 11/2 or 2	£249.56						
Actuator Only to suit 21/2 or 3	£338.25						
OVERALL DIMENSIONS							



Port	L	L1	Н	H1	H2	Н3
1/4	65	109	175	20	76	79
3/8	65	109	175	20	76	79
1/2	74	109	185	24	82	79
3/4	83	109	191	27	85	79
1	94	131	208	30	88	90
11/4	105	165	238	35	94	109
11/2	120	165	268	40	119	109
2	136	165	283	47	127	109
21/2	167.5	200	258	59	155	128
3	189	200	337	67	168	128

No.	Description	Material	Quantity
1	Bolt	SUS304	4
2	Adaptor	SCS13	1
3	Yoke	SCS13	1
4	Gland	SUS304	1
5	Stem	SUS304	1
6	Gland packing	PTFE	4
7	Packing	Teflon	1
8	Packing	PTFE	1
9	Seat ring	PTFE	1
10	Ball	ASTM A351 GR.CF8M	1
11	Body	ASTM A351 GR.CF8M	1
12	End cap	ASTM A351 GR.CF8M	2
13	Bolt	SUS304	4

2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanica Air Valves

Accessories Fittings, Tubing

FRL's, Filters
Regulators
Lubricators

All Actuated Valves

Vent Suction
Check Valves

Pinch Proportional Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filters Brass 2/2 I/Closed 0 Rated

Brass 2/2 N/Closed Pilot

2/2 N/Open 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

> 2/2 N/Oper

OlGai

Plastic 2/2 N/Closed

> Plastic Acids, Alkal

2/2 Latching Bi-Stable

> EN161 Gas

Pressure Reducing Valves Media: Water

Pressure: 12 Bar max

Media temperature: -15°C to +80°C max Media viscosity: 50 centistokes max

Mounting: any position

# Anti Water Hammer

*Brass Nickel Plated* 1/2 & 3/4 BSP 12 Bar

# TYPE AXT



	PRESSURE PRESSURE								
Ø Air			Dimensions	;		List			
Port BSP Male	Chamber CM <sup>3</sup>	Н	L	D	Part Number	Price			
1/2	17	105	85	45	AXT15-Brass	£33.08			
3/4	30	120	95	42	AXT20-Brass	£66.14			

Flow controller
Air inlet valve
Other custom made pressure, seal and thread options available upon request

Other custom made pressure, seal and thread options available upon request

TBA

**REPAIR KIT** 

Diaphragm Seal CONSTRUCTION

Body: Brass Nickel plated

Seals: NBR

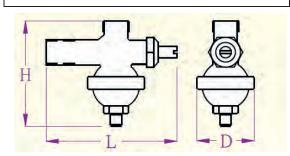
#### **OVERALL DIMENSIONS**

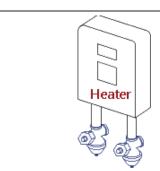
# Pressure Wave Stop Cock Compressed air chamber

#### **AXT Angle Water Hammer Arrester**

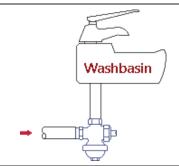
Seal-part number

This design water hammer arrestor is for domestic. Patented and especially designed for easy installation and maintaining tranquillity for any indoor environment. Additionally the AXT patented design includes a flow controller to help reduce water flow, consumption and noise and is truly an environmentally friendly addition to any home. The air chamber pressure should be set at 1.0 Bar.





Water heaters are the most common causes of water hammer within the home as its complicated piping system can cause unstable pressure impact when turned on/off. Installing the AXT valve can reduce this. Also fitting the AXT valve to the outlet of the shower heater will reduce hammer from the shower hose. As you can see the AXT valve is ideally designed to fit easily in this application.



Fast response taps can cause water hammer effect that will echo through the pipework system. The AXT valve can reduce this when fitted to the water inlet pipe. As you can see the AXT valve is ideally designed to fit easily in this application.



When the water level in the Toilet Cistern is approaching full, the float ball valve can flunctuate hindering the flow and creates a series of backpressure waves causing water hammer. Installing the AXT water hammer arrestor at the water inlet will reduce this noise. As you can see the AXT valve is ideally designed to fit easily in this application.

Media: Water

Pressure: Bronze: 12 Bar max Pressure: Ductile Iron: 12 Bar max Pressure: Stainless: 20 Bar max Media temperature: -5°C +80°C max Media viscosity: 50 centistokes max Mounting: any position

## Anti Water Hammer

1/2 - 4" & DN65 to DN300 Ductile Iron – Bronze - Stainless In Line I Series 0 to 12 or 20 Bar



TYPE AIT + AIF

PRESSURE								
Ø	Air	Dimer	nsions			List	Price	
Port BSP	Chamber CM <sup>3</sup>	Н	D	Part Number Bronze		30 Stair		
1/2	17	74	46	AIT15 + body material	£30	).67	£54.12	
3/4	30	82	52	AIT20 + body material	£36	6.08	£57	.12
1	63	95	62	AIT25 + body material	£42	2.10	£72	.16
11/2	205	120	110	AIT40 + body material	£12	1.77	£134.89	
2	650	162	135	AIT50 + body material	£229.11		£279.62	
21/2	1125	180	155	AIT65 + body material	£351.78		£457.02	
3	2000	218	188	AIT80 + body material	£580.28		£678.70	
4	4400	260	238	AIT100 + body material	£112	21.48	£1213.19	
		F	lange P	PN16	Ductile Iron	Bronze	304 Stainless	316 Stainless
DN80	2000	218	188	AIF80 + body material	£399.88	£1187.64	£1262.80	£1389.08
DN100	4400	260	238	AIF100 + body material	£757.68	£1620.60	£1683.74	£1852.10
DN125	5535	330	330	AIF125 + body material	£841.86 £2134.74		£2194.86	£2414.36
DN150	15325	420	400	AIF150 + body material	£1419.14	£4428.82	£4570.14	£5027.14
DN200	27230	510	460	AIF200 + body material	£2405.34	£6945.40	£7140.84	£7856.42
DN250	27230	510	460	AIF250 + body material	£2880.38	£7300.18	£8803.52	£9651.40
DN300	67860	625	625	AIF300 + body material	£5724.66	£13656.28	£13566.08	£14913.06

**OPTIONS** 

Pressure Gauge for AIF, (AIT no pressure gauge option available)

Other thread NPT or RC and Flange JIS10K, JIS20K, ANSI150Lb, PN10 or PN25

Custom made seal options for acid and alkali or hot media, higher pressures or sizes available upon request

Included +10% POA

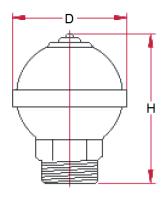
CONSTRUCTION

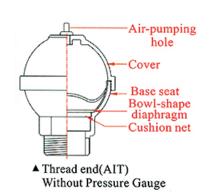
Body: Bronze (Pressure tested to 21 Bar); Ductile Iron with Epoxy Coating (tested to 21 Bar), 304 or 316 Stainless Steel (tested to 42 Bar)

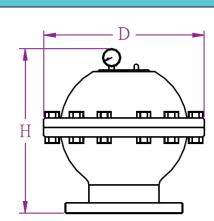
Seals: NBR

Diaphragm Seal Valve part number + seal material

OVERALL DIMENSIONS







I Style Hammer Arrester

These hammer arrestors can be mounted in any position. For Acid or Alkali or Oil we can offer custom made seal materials to suit. For special temperature applications please ask.

2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanica Air Valves

Accessories
Fittings,
Tubing

FRL's, Filters Regulators Lubricators

Actuated Valves

Arrestors Vent Suction Check Valves

Pinch Proportional Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filters Brass 2/2 N/Closed 0 Rated

Brass 2/2 N/Closed Pilot

N/Oper 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

Stainless 2/2 N/Closed

> 2/2 N/Open

Stoom

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas Valves

Pressure Reducing Valves Media: water - fluid

Media Temperature: -15 °C to +80 °C Ambient Temperature: -15 °C to +80 °C Maximum Pressure: 12 or 20 Bar Mounting: Vertically at highest point

# Air Release & Vacuum Breaker 1/2 - 2"

Cast Iron, Stainless Steel 0 – 12 or 20 Bar Type ATR



+10%

**POA** 

**Max Pressure** List **Port Size Body Material Part Number** (Bar) **Price BSP** ATR15-C 1/2 12 3/4" 12 ATR20-C £105.23 1" **Cast Iron** 12 ATR25-C 11/2 12 ATR40-C £505.12 2 12 ATR50-C 1/2 12 ATR15-CE 3/4" 12 ATR20-CE £136.81 **Cast Iron** 1" 12 ATR25-CE **Epoxy Coated** 12 ATR40-CE 11/2 £544.20 12 2 ATR50-CE 1/2" 20 ATR15-S 3/4" Stainless Steel 20 ATR20-S £216.48 1" 20 ATR25-S

CONSTRUCTION

Automatic Vacuum and air release valve must be installed vertical and at highest location of pipe system.

**OPTIONS** 

Cast Iron Valve: Body + Bolts Cast Iron, Plug and Ball float 304 Stainless steel

Stainless Valve: Body, Bolts, Plug, Ball float: 304 Stainless steel

Seals and gaskets: NBR

NPT or Rc Thread Other seal Options

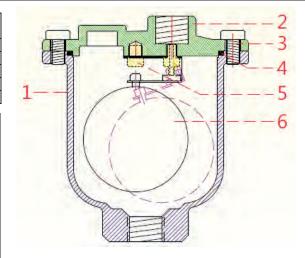
Η

Test pressure Cast Iron 21 Bar, Stainless Steel 32 Bar

on 21 Bar; etainiess steel s2 Bar						
REPAIR KIT						
Seal Kit	Kit + Part Number					
OVERALL DI	MENSIONS					

Part No: D Н Kg **Port** (mm) (mm) 1/2" ATR-15 120 131 1.9 1.9 ATR-20 3/4 120 131 1 131 1.9 ATR-25 120 ATR-40 11/2 190 210 210 190 ATR-50

No	Description	Material			
1	Main Body	Cast Iron	Cast Iron Epoxy Coated	304 Stainless	
2	Cover	Cast Iron	Cast Iron Epoxy Coated	304 Stainless	
3	Bolt	Iron	Iron Epoxy Coated	304 Stainless	
4	Sealing Spacer	NBR	NBR	NBR	
5	Plug	304 Stainless	304 Stainless	304 Stainless	
6	Float Ball Set	304 Stainless	304 Stainless	304 Stainless	





Mount Vertical at highest point in pipeline.

Media: Water

Temperature: -15 °C to +80 °C Max

### Full Flow Foot Strainer Valve

Flange DN50 - DN200 Pump Prime Aid and Self Cleaning Cast or Ductile Iron and Stainless Steel 20 Bar Max

# Type FVT + FVF



	List Price	
st n	Ductile Iron	Stainless Steel 304
.44	£243.54	£538.20
.52	£288.64	£601.34
.44	£243.54	£538.20
.52	£288.64	£601.34
.62	£336.74	£748.66
.80	£472.04	£892.98
.04	£568.26	£1157.56
44	£841 86	£1380 06

+10%

**TBA** 

Arrestors Vent Suction **Check Valves** 

PRESSURE							
Ø				List Price			
Port Size BSP	Seal	Part Number	Cast Iron	Ductile Iron	Stainless Steel 304		
2"		FVT50 + Body Material	£198.44	£243.54	£538.20		
21/2"		FVT65 + Body Material	£237.52	£288.64	£601.34		
Flange PN10							
DN50		FVF50 + Body Material	£198.44	£243.54	£538.20		
DN65	NBR	FVF65 + Body Material	£237.52	£288.64	£601.34		
DN80	INDIK	FVF80 + Body Material	£282.62	£336.74	£748.66		
DN100		FVF100 + Body Material	£363.80	£472.04	£892.98		
DN125		FVF125 + Body Material	£472.04	£568.26	£1157.56		
DN150		FVF150 + Body Material	£646.44	£841.86	£1380.06		
DN200		FVF200 + Body Material	£1190.64	£1545.42	£2940.52		

CONSTRUCTION

**OPTIONS** 

Body: Cast Iron, Ductile Iron or 304 Stainless Steel

Stainless steel clean lever for Cast or Ductile Iron

Seals and gaskets: NBR

Test Pressure: Cast Iron 16 Bar, Ductile Iron 35 Bar, Stainless Steel Bar 35

Seal

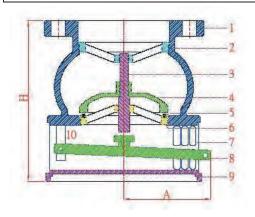
Other Flange JIS10K, JIS20K, ANSI150Lb or Thread NPT or Rc Options

Maximum Applied Pressure: Cast Iron 12 Bar, Ductile Iron 20 Bar, Stainless Steel 20 Bar

# **REPAIR KIT**

#### **OVERALL DIMENSIONS**

Full flow foot strainer suction valve prevents large debris ingress. Lever operated self-cleaning system. Aids pump priming and prevent prime loss.



	Description		Material	
1	Main Body	Cast Iron	Ductile Iron	Stainless Steel
2	Upper Seat	Brass	Brass	Stainless Steel
3	Shaft	Brass	Brass	Stainless Steel
4	Disc	Ductile Iron	Ductile Iron	Stainless Steel
5	Sealing	NBR	NBR	NBR
6	Seat	Brass	Brass	Stainless Steel
7	Screen	Stainless Steel	Stainless Steel	Stainless Steel
8	Clean lever	Ductile Iron	Ductile Iron	Stainless Steel
9	Screen seat	Ductile Iron	Ductile iron	Stainless Steel
10	Lever stand	Ductile Iron	Ductile Iron	Stainless Steel

Kit + Part Number

Part Number	Port Size Type	H (mm)	A (mm)	Kg
FVT50	2" BSP	160	95	5
FVT65	21/2" BSP	165	105	6
FVF50	2" Flange	160	95	6
FVF65	2.5" Flange	165	105	7
FVF80	3" Flange	210	115	9.5
FVF100	4" Flange	215	125	12
FVF125	5" Flange	240	145	18
FVF150	6" Flange	275	160	25
FVF200	8" Flange	380	185	44

Brass 2/2 V/Closed 0 Rated

Brass 2/2 N/Closed Pilot

2/2 N/Oper 0 Rated

Brass Stainless 3/2

Stainless 2/2 N/Closed 0 Rated

2/2 N/Closed Pilot

> Stainless 2/2 N/Open

> > Steam

Plastic 2/2 N/Closed

> Plastic Acids/

2/2 Latching Bi-Stable

> EN161 Gas

Pressure Reducing Valves

# Media: Water Pressure range: 20 Bar max Full Flow Silent Check Valve

DN50 - DN300 Ductile Iron & Stainless 20 Bar Max Type CHF



PRESSURE						
Port	Ø	Max	Part Number		List Price	
Flange PN16	Orifice	Pressure (Bar)			Stainless	
DN50	50	20	CHF50 + body material	£226.13	£741.49	
DN65	65	20	CHF65 + body material	£289.22	£941.33	
DN80	80	20	CHF80 + body material	£354.98	£1130.66	
DN100	100	20	CHF100 + body material	£473.28	£1504.00	
DN125	125	20	CHF125 + body material	£604.75	£1919.46	
DN150	150	20	CHF150 + body material	£809.86	£2426.92	
DN200	200	20	CHF200 + body material	£1643.32	£4527.82	
DN250	250	20	CHF250 + body material £281		£7761.93	
DN300	300	20	CHF300 + body material	£4585.64	£9576.22	

**OPTIONS** 

Bypass manual valve (up to DN150 only)

Media temperature: -15°C to +80°C

Ambient temperature: -15° to +80°C Mounting: Vertical and Horizontal

Other Flange Options JIS10K, JIS20K, ANSI150Lb

Custom made options include 316 Stainless steel, special media, temperature and sizes available upon request

Included +10%

#### CONSTRUCTION

Body: Ductile Iron or Stainless steel 304

Seals and gaskets: NBR

Test Pressure: Stainless Steel 35 Bar, Ductile Iron 33 Bar, Cast Iron 21 Bar

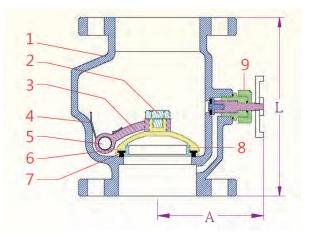
Maximum Applied Pressure: Stainless Steel 20 Bar, Ductile Iron 20 Bar, Cast Iron 16 Bar

#### REPAIR KIT

U Ring seal Kit + Part Number

#### **OVERALL DIMENSIONS**

Part No.	Flange Size	H (mm)	A (mm)	(kg)
CHF-50	DN50	183	122	9
CHF-65	DN65	200	132	12
CHF-80	DN80	210	147	14
CHF-100	DN100	220	160	16
CHF-125	DN125	260	180	27
CHF-150	DN150	280	200	32
CHF-200	DN200	370	Upon Request	61
CHF-250	DN250	450	Upon Request	117
CHF-300	DN300	520	Upon Request	138



	Sizes DN50 to DN150					Sizes DN200 to DN300				
No	Description		Material		No	Description		Material		
1	Main Body	Cast Iron	Ductile Iron	Stainless 304	1	Main Body	Cast Iron	Ductile Iron	Stainless 304	
2	Locating Bolt	Stainless 304			2	Locating Bolt	Stainless 304			
3	Cantilever	Stainless 304		3	Cantilever	Brass	Brass	Stainless 304		
4	Spring		Stainless 304		4	Spring	Stainless 304			
5	Pin		Stainless 304		5	Pin	Cast iron	Ductile Iron	Stainless 304	
6	Sealing Retainer		Brass		6	Sealing Retainer	Duct	tile iron	Stainless 304	
7	Sealing	NBR		7	Sealing	NBR				
8	Seat	Brass	Brass	Seat	8	Seat	Brass	Brass	Stainless 304	
9	By Pass Valve	Brass	Brass	Stainless 304						

Media: air

Port

**BSP** 

3/4

1 11/2

2

21/2

3

25mm

40mm

3/4

11/2

2

21/2

3

25mm

40mm

Pressure range: 0.5 to 7 bar Media temp: -5 ℃ to +80 ℃ max Ambient temperature: -15 ℃ to +50 ℃

Mounting: any position Opening: 20- 50 mSec Max Closing: 100 – 400 mSec Max



Orifice

(mm)

25

30

45

57

72

80

30

45

25

30

45

57

72

80

30

45

Flow

Cv

m³/Hr

12

25

52

85

104

172

25

52

12

25

52

85

104

172

25

52

Operation

Solenoid

## 2/2 Aluminium

3/4 - 3"

Dust Collecting NORMALLY CLOSED Pulse Valve

# TYPE PI PU PR RU

Pressure Rating Bar △P

Max

7

7

7

7

7

7

7



J						
	Part Number	List Price				
	PI20	£117.89				
	PI25	£125.47				
	PI40	£174.41				
	PI50	£325.30				
	PI65	£355.56				
	PI80	£673.17				
	PU25	£219.46				
	PU40	£295.09				
	PR20	£82.08				
	PR25	£92.32				
	PR40	£138.50				
	PR50	£292.38				
	PR65	£323.15				
	PR80	£641.15				
	RU25	£185.27				

RU40

**OPTIONS** 

IP65 Coil + Connector PG9 – DIN 43650 A (PI & PU)

ATEX 8/30 Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (PI & PU only)

Air Pilot

Included +£101.68 £254.78

£231.36

Sequence Controller Frequency 0.01-9.99 seconds (ON), adjustability (OFF) 1-999 Sec, 5AMP max , Temp -10C to +50C, Hipot 1000v PSC06 1-6 Steps, 85-265vAC

Min

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

PSC10 1-10 Steps, 85-265vAC or 24vDC

PSC20 1-20 steps, 85-265vAC or 24vDC

£330.98 £587.08

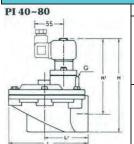
	ELECTRICAL DATA							
Voltage (-10% +10%) Continuous Duty 100%		Coil	Power Co	nsumption	Insulation	Enclosure	Electrical	
		0011	Inrush Holding Class	Lilologaic	Connections			
~	24 – 48 – 110 - 230	Coil 3	13.2VA	8VA	H 180°C	IP65 with	3 spades DIN 43650	
=	12 – 24 – 48 – 110 - 220	830P6	6.8 Watts		П 160 С	connector	VDE 0110	
CONSTRUCTION								

Body: Anodised Aluminium, Tube and internal parts: Stainless steel

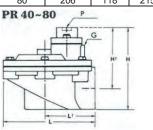
Diaphragm Coil

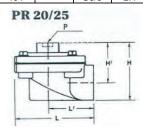
Seals and gaskets: NBR, Diaphragm NBR with Nylon fibre reinforcement, Moulded coil: Resin

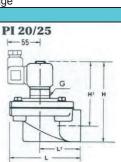
REPAI	R KIT
	SP-diaphragm + size code (20-80)
	Coil 3 830P6 + voltage



	Model	Code	Width	L1	L	H1	Н	Р	G	Kg
		20	75	52	90	108	130	-	5.0	0.7
		25	75	52	90	108	130	-	5.0	0.7
ı	PI	40	137	72	140	148	178	-	G1/4	1.5
	PI	50	170	95	181	183	228	-	G3/4	3.1
		65	170	95	181	183	228	-	G3/4	3.0
		80	206	118	215	206	264	-	G3/8	2.6
		20	75	52	90	56	64		-	0.4
		25	75	52	90	56	64	G1/8	-	0.4
	PR	40	137	72	140	90	120		G1/4	1.3
	FK	50	170	95	181	112	157		G3/4	2.9
		65	170	95	181	112	157	G3/8	G3/4	2.8
		80	206	118	215	136	194		G3/8	2.4







2/2 & 3/2 Coaxial Solenoid Valves

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanica Air Valves

Accessories Fittings, Tubing

Regulators
Lubricators

Air Actuated Valves

Arrestors
Vent Suction
Check Valves

Pulse Dust Valves

Pinch Proportional Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filters

Media: according to tube specifications Pressure range: 0 to 1 Bar max Media temperature: -10°C +100°C max Ambient temperature: -20°C to +40°C Media viscosity: 50 centistokes max

Mounting: any position Tubing: 55 - 60 Shore Hardness Opening or Closing time: 500mSec Max

# 2/2 + 4/2 Pinch

6x4 - 8x5 - 9.5x6.5 NORMALLY CLOSED **DIRECT ACTING** 0 – 1 Bar



TYPE PV

	PRESSURE									
Ø Tube	Function	ø	Pressure Rating (bar) ΔP		Seals	Part Number	List			
Size	Function	Orifice	Min	Max	Seals	Fart Number	Price			
6x4		4	0	1	Silicone Tube	PV6X4-2 + voltage				
8x5	2/2 NC	5	0	1	Silicone Tube	PV8X5-2 + voltage	£135.30			
9.5x6.5		6.5	0	1	Silicone Tube	PV9.5X6.5-2 + voltage				
6x4	4/2 NC	4	0	1	Silicone Tube	PV6X4-3 + voltage	£169.81			

**OPTIONS** 

IP65 Coil + PG9 IP65 Connector DIN 43650A High power 14 Watt coil (70% Duty only) for 4/2 way valve

Tube sizes up to 15 x 21 and normally open versions Aluminium body

Stainless steel body

Included Included **TBA** 

+5% **TBA** 

	ELECTRICAL DATA							
ſ	Voltage (-5% + 10%)	Coil	Power Co	nsumption	Insulation class	Enclosure	Electrical	
L	Continuous duty 70%	COII	Inrush	Holding	msulation class		connections	
	~ 12 - 24 - 48 - 110 - 230 (Rectified)	11630	26VA	14VA		IP 65	3 spades	
	= 6 - 12 - 24 - 48 -110 (DC)	11030	10 Watts		F 155°C	with	DIN 43650 DIN 40050	
Ī	= 6 - 12 - 24 - 48 (DC)	31400	14 - 20 Watts			connector	VDE 0110	

CONSTRUCTION

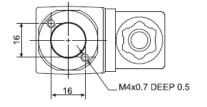
Body: Mazak

75

Tube and internal parts: Stainless steel

Seals and gaskets: Silicone

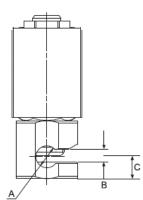
Moulded coil: Resin						
REPA	IR KIT					
Armature	SP + Valve Part Number - ARMATURE					
Coil 11630 or 31400 + voltage						
OVERALL DIMENSIONS						

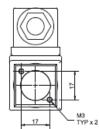


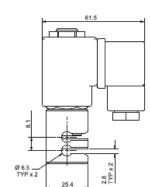
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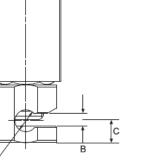
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Model	Α	В	С		
PV6	6.5	5	10		
PV8	9.5	6.5	10		
PV9.5	9.5	6.5	10		
Sizes in mm					









Media: air – water – gas – light oil Pressure range: 1 to 16 Bar max Media temperature: -10°C +80°C max Ambient temperature: -10°C to +55°C Media viscosity: 21 centistokes max Mounting: preferred upright Weight 250g



# 2/2 Brass & Stainless

1/8 – 1/4 24v PROPORTIONAL 2 WAY SERVO ASSISTED 1 – 16 Bar TYPE PR



	PRESSURE										
Ø Port	Ø Orifice	Flow	Pressure Rating (Bar) ΔP		Max	Seals	Do du	Part Number	List		
BSP	(mm)	Kv Ltr/Min	Min	Max	Working	Sears	Body	Part Number	Price		
	0.8	0.6	8	16	19.2		Brass Stainless Aluminium	PR2 + port + 1 + seal PR3 + port + 1 + seal PR5 + port + 1 + seal	£157.85 £189.42 £157.85		
	1.2	1.1	6	12	14.4		Brass Stainless Aluminium	PR2 + port + 2 + seal PR3 + port + 2 + seal PR5 + port + 2 + seal	£157.85 £189.42 £157.85		
1/8	1.6	1.7	5	10	12		Brass Stainless Aluminium	PR2 + port + 3 + seal PR3 + port + 3 + seal PR5 + port + 3 + seal	£157.85 £189.42 £157.85		
or	2.0	2.5	4	8	9.6	NBR FKM EPDM	Brass Stainless Aluminium	PR2 + port + 4 + seal PR3 + port + 4 + seal PR5 + port + 4 + seal	£157.85 £189.42 £157.85		
1/4	2.4	3.5	3	6	7.2		Brass Stainless Aluminium	PR2 + port + 5 + seal PR3 + port + 5 + seal PR5 + port + 5 + seal	£157.85 £189.42 £157.85		
	3.0	4.5	2.45	3.5	4.2		Brass Stainless Aluminium	PR2 + port + 6 + seal PR3 + port + 6 + seal PR5 + port + 6 + seal	£157.85 £189.42 £157.85		
	4.0	5	1	2	2.4		Brass Stainless Aluminium	PR2 + port + 7 + seal PR3 + port + 7 + seal PR5 + port + 7 + seal	£157.85 £189.42 £157.85		
					OPTIONS						

IP65 Coil & Connector PG9 – DIN 43650 A

NPT Thread

Included + 10%

	ELECTRICAL DATA							
	Voltage (-10% + 10%) Continuous duty 100%	Coil	Power Consumption	Insulation class	Enclosure	Electrical connections		
=	24 V pilot signal	11630 24vDC	100-500 mAmp	F 155°C	IP 65	3 spades DIN 43650 DIN 40050 VDE 0110		
	CONSTRUCTION							

Body: Brass (Aluminium and 316L Stainless steel)

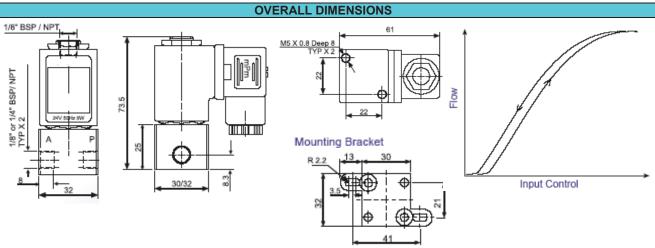
Tube and internal parts: Stainless steel

Seals and gaskets: NBR (FKM or EPDM)

Moulded coil: Resin

#### **Selection Guideline**

Special consideration must be given to valve selection based on Cv.  $\Delta P$  pressure drop should be 30-50% or more. Maximum pressure should be 1.2 times working pressure with max pressure top adjustment screw. Inlet pressure needs to remain constant.



2/2 & 3/2 Coaxial Solenoid Valves

> Electric Actuated Ball Valves

Air Solenoid Valves

Mechanical Air Valves

Accessories Fittings, Tubing

FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors
Vent Suction
Check Valves

Pinch
Proportional
Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filters

Brass 2/2 N/Closed 0 Rated

Brass 2/2 N/Closed Pilot

2/2 N/Oper

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed

> 2/2 N/Open

Chaan

Plastic 2/2 N/Closed

> Plastic Acids/ Alkali

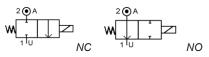
2/2 Latching Bi-Stable

> EN161 Gas

Pressure Reducing Valves Media: air – water – gas – vacuum 10-6 Torr

Pressure range: 0 to 10 Bar max
Media temperature: -10°C +80°C max
Ambient temperature: -20°C to +60°C
Media viscosity: 50 centistokes max

Mounting: any position Weight: 1750g per set



## 2/2 Brass

1/8 + 1/4 Manifold N/CLOSED + N/OPEN 2 WAY DIRECT ACTING 0 – 10 Bar TYPE ADF68



	PRESSURE									
Ø	Ø	Flow	Pressure Rating (Bar) ∆P					List		
Port BSP	Orifice (mm)	Kv Ltr/ min	Min	Max DC	Max AC	Seals	Part Number	Price Per Station		
	3.0	3.0 4.3 0 7.0 10 NBR VITO	NBR	ADF6A + seal + voltage + sets						
1/8	4.0	9.7	0	4.9	7	EPDM	ADF6B + seal + voltage + sets			
	5.0	10.7	0	3.5	5	Silicone *PTFE	ADF6C + seal + voltage + sets	£69.16		
	3.0	4.3	0	7.0	10	NBR VITON	ADF8A + seal + voltage + sets	203.10		
1/4	4.0	9.7	0	4.9	7	EPDM	ADF8B + seal + voltage + sets			
	5.0	10.7	0	3.6	5	Silicone *PTFE	ADF8C + seal + voltage + sets			

**OPTIONS** 

IP67 (EN60529:1991+A1:2000) UL & CSA Approved Coil & IP65 LED Connector PG11 – DIN 43650 A

Brass Manifold 1/8 or 1/4 BSP port (2 – 10 Stations)

ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C @

NPT Thread

Normally Open NOADF

\* PTFE, VST, CR, ECO, HNBR or Hypalon Seals

Stainless Steel and other custom made options are available upon request

Included Included +£101.68 + 10% +£51.12 +£15.04

				ELECTRIC	AL DATA			
	Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Co	nsumption	Insulation class	Enclosure	Electrical
			Con	Inrush	Holding	ilisulation class	Eliciosure	connections
	~ 2	4 - 48 - 110 - 220 - 380 (50 or 60 Hz)		11.2VA	8.2VA		IP 65	3 spades DIN 43650
	= 1	2 - 24 - 48 (DC)	WPG1	12 Watts		H 180°C	with connector	DIN 43050 DIN 40050 VDE 0110

#### CONSTRUCTION

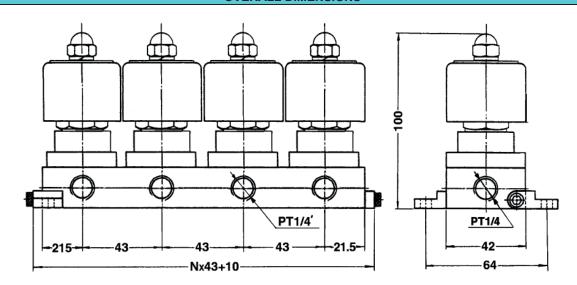
Body: Brass

Tube and internal parts: Stainless steel

Seals and gaskets: NBR (Optional EPDM, Viton, Silicone or PTFE)

Moulded coil : Resin

Moulded Coll . Resili						
REPAIR KIT						
Armature	SP + Valve Part Number + ARMATURE					
Coil	WPG1 + voltage					
Solenoid Valve	GAB312 + orifice + seal + voltage					
OVERALL DIMENSIONS						



Media: air – water – gas – vacuum Pressure range: 0 to 150 Bar max Media temperature: +180°C max\* Ambient temperature: -20°C to +60°C Media viscosity: 50 centistokes max

Mounting: any position Weight: 1750g per set



# 2/2 Brass

1/8 & 1/4 MANIFOLD NORMALLY CLOSED 2 WAY DIRECT ACTING 0 - 150 Bar





						PRE	SSURE	<u>'</u>			
Ø	Ø	Flow	Pres	sure Rating	ı (Bar) ∆P				List Price		
Port BSP	Orifice (mm)	Kv Ltr/ min	Min	Max AC	Max DC	Coil	Coil Seals	Part Number	Per Station		
	1.2	1.1	0	60	42			ADF6/8012 + seal + voltage			
	1.6	1.5	0	40	28	WPG1		ADF6/8016 + seal + voltage	£135.30		
	2.0	1.8	0	20	15			ADF6/8020 + seal + voltage			
	1.2	1.1	0	120	84	WPG2	- WPG2		NBR +80°C	ADF6/8112 + seal + voltage	
	1.6	1.6	0	60	42			SILICONE +120°C	ADF6/8116 + seal + voltage		
1/8	2.0	1.8	0	30	21			WPG2	EPDM +120°C	ADF6/8020 + seal + voltage	£165.363
6000	3.0	4.3	0	20	14				*VST +180°C	ADF6/8130 + seal + voltage	
	4.0	9.7	0	12	8.4					ADF6/8140 + seal + voltage	
1/4	5.0	10.7	0	10	7		(30 Bar Max)	ADF6/8150 + seal + voltage			
8000	1.2	1.1	0	150	105		*PTFE +180°C	ADF6/8212 + seal + voltage			
	1.6	1.5	0	80	56		(150 Bar)	ADF6/8216 + seal + voltage			
	2.0	1.8	0	60	42	WPA3C		ADF6/8220 + seal + voltage	£225.50		
	3.0	4.3	0	40	28	WFA3C		ADF6/8230 + seal + voltage	2225.50		
	4.0	9.7	0	20	14			ADF6/8240 + seal + voltage			
	5.0	10.7	0	15	10.5			ADF6/8250 + seal + voltage			

WPG IP67 (EN60529:1991+A1:2000) UL & CSA Approved Coil & IP65 LED Connector PG11 - DIN 43650 A, WPA3C IP54

Brass manifold 1/4 BSP port (2 – 10 Stations)

ATEX EExmIIT4 II 2G & 2D IP65 T130°C coil. 🕙 (Pressure rating WPG1 same, WPG2 70% of DC rating, WPA3C not available) NPT Thread

Included Included +£101.68 + 10% +£15.04

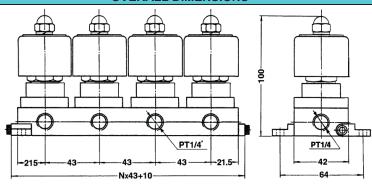
\*\* PTFE, VST, CR, ECO, HNBR or Hypalon Seals

			ELECTRICA	L DATA				
	Voltage (-10% + 10%)		Power Cor	nsumption	Insulation	Enclosure	Electrical	
	Continuous duty 100%	Coil	Inrush	Holding	class	Eliciosure	connections	
~	24 - 48 - 110 - 220 - 380 (50 or 60 Hz)	WPG1	11.2VA	8.2VA				
=	12 - 24 - 48 (DC)	WFGT	12 Watts		H 180°C	IP 65 with	3 spades DIN 43650	
~	24 - 48 - 110 - 220 - 380 (50 or 60 Hz)	WPG2	18.7VA	15.3VA	H 100 C	connector	DIN 40050 VDE 0110	
=	12 - 24 - 48 (DC)	WPG2	18 Watts				VDE 0110	
~	24 - 48 - 110 - 220 - 380 (50 or 60 Hz)	WPA3C	88VA	57VA	N 200°C	1054	30cm flying	
= 12 - 24 (DC)		WFA3C	33.6 Watts		IN 200 C	IP54	lead wires	
	CONSTRUCTION							

Body: Brass

Tube and internal parts: Stainless steel Seals and gaskets: NBR, EPDM, Viton, Silicone or PTFE M

beals and gaskets. NDIX, Et Divi, vitori, officorie of 1 11 E	
Moulded coil WPG : Resin, WPA3C round metal enclosure	
REPA	AIR KIT
Armature	SP + Valve Part Number + ARMATURE
Coil	WPG1, WPG2 or WPA3C + voltage
OVERALL I	DIMENSIONS



Pinch **Proportional** Sub Base

Media: air - water - gas - vacuum 10-6 Torr

Pressure range: 0 to 10 Bar max Media temperature: -10 °C +80 °C max Ambient temperature: -20°C to +60°C Media viscosity: 50 centistokes max

Mounting: any position Weight: 1650g per set



# 3/2 Brass

1/8 - 1/4" MANIFOLD NORMALLY CLOSED 3 WAY DIRECT ACTING 0 - 10 Bar

# TYPE MDF



				·	PRESSURE			
ø	Ø Orifice (mm)	Flow	P	ressure Rating (B	ar)		Part Number	List Price
Port BSP		Kv Ltr/ min	Min	Max AC	Max DC	Seals		Per Station
1/8	1.6	1.5	0	10	7		MDF6A + seal + voltage + sets	
176	2.0	1.8	0	7	4.9	NBR VITON EPDM	MDF6B + seal + voltage + sets	£150.34
4/4	1.6	1.5	0	10	7	Silicone PTFE*	MDF8A + seal + voltage + sets	£150.54
1/4	2.0	1.8	0	7	4.9		MDF8B + seal + voltage + sets	

**OPTIONS** 

IP67 (EN60529:1991+A1:2000) UL & CSA Approved Coil & IP65 LED Connector PG11 - DIN 43650 A

Brass manifold 1/8 or 1/4 BSP Port – (2 – 10 Sets)

ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C

**NPT Thread** \*PTFE Seals

Stainless Steel and other custom made options available upon request

Included Included +£101.68 + 10% +£15.04

			ELECTRIC	CAL DATA			
	Voltage (-10% + 10%) Continuous duty 100%		Power Co	Power Consumption		Enclosure	Electrical
			Inrush	Holding	_ Insulation class		connections
~	24 - 48 - 110 - 230 (50 or 60 Hz)		11.2VA	8.2VA		IP65 with	3 spades DIN 43650
=	12 - 24 - 48 (DC)	WPG1	12 V	Vatts	H 180°C	connector	DIN 43030 DIN 40050

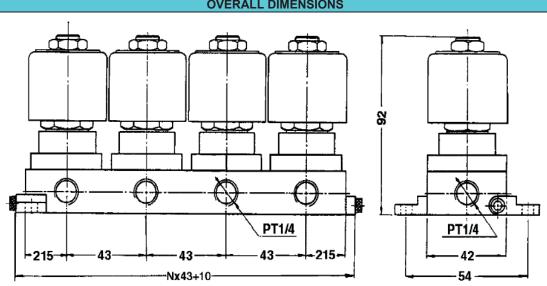
CONSTRUCTION

Body: Brass

Tube and internal parts: Stainless steel

Seals and gaskets: NBR (Optional EPDM, Viton, Silicone or PTFE)

Moulded coil : Resin	
REPA	IR KIT
Armature	SP + Valve Part Number
Coil	WPG1 + voltage
Solenoid Valve Body	GAB313 + orifice + seal + voltage
OVERALLE	MENGIONO



Media: air – water – gas – vacuum Pressure range: 0 to 150 Bar max Media temperature: +180°C max\* Ambient temperature: -20°C to +60°C Media viscosity: 50 centistokes max

Mounting: any position Weight: 1750g per set



# 2/2 Stainless

1/8 & 1/4 MANIFOLD NORMALLY CLOSED 2 WAY DIRECT ACTING 0 – 150 Bar





						PRE	SSURE					
Ø	Ø Orifice (mm)	Flow	Press	ure Rati ∆P	ng (Bar)				List Price			
Port BSP		Kv Ltr/ min	Min	Max AC	Max DC	Coil	Seals	Part Number	Per Station			
	1.2	1.1	0	60	42			ADFS6/8012 + seal + voltage				
	1.6	1.5	0	40	28	WPG1	WPG1 NBR +80°C	ADFS6/8016 + seal + voltage	£279.62			
	2.0	1.8	0	20	15			ADFS6/8020 + seal + voltage				
	1.2	1.1	0	120	84	- WPG2		ADFS6/8112 + seal + voltage				
	1.6	1.6	0	60	42		SILICONE +120°C	ADFS6/8116 + seal + voltage				
1/8	2.0	1.8	0	30	21		WPG2	WPG2	EPDM +120°C	ADFS6/8020 + seal + voltage	£309.68	
ADFS6000	3.0	4.3	0	20	14				WFGZ	FKM +120°C	ADFS6/8130 + seal + voltage	2309.00
	4.0	9.7	0	12	8.4				*VST +180°C	ADFS6/8140 + seal + voltage		
1/4	5.0	10.7	0	10	7		(30 Bar Max)	ADFS6/8150 + seal + voltage				
ADFS8000	1.2	1.1	0	150	105		*PTFE +180°C	ADFS6/8212 + seal + voltage				
	1.6	1.5	0	80	56		(150 Bar)	ADFS6/8216 + seal + voltage				
	2.0	1.8	0	60	42	WDASC		ADFS6/8220 + seal + voltage	£369.82			
	3.0	4.3	0	40	28	WPA3C		ADFS6/8230 + seal + voltage	2309.02			
	4.0	9.7	0	20	14			ADFS6/8240 + seal + voltage				
	5.0	10.7	0	15	10.5			ADFS6/8250 + seal + voltage				

**OPTIONS** 

ELECTRICAL DATA

WPG IP67 (EN60529:1991+A1:2000) UL & CSA Approved Coil & IP65 LED Connector PG11 – DIN 43650 A, WPA3C IP54 316 stainless steel manifold 1/8 BSP port (2 – 9 Sets)

ATEX EExmIIT4 II 2G & 2D IP65 T130°C coil. (Pressure rating WPG1 same, WPG2 70% of DC rating, WPA3C not available)
NPT Thread
\*PTFE Seal

Included Included +£101.68 + 10% +£15.04

			ELECTR	ICAL DATA	4			
	Voltage (-10% + 10%)	Coil	Power Cor	nsumption	Insulation class	Enclosure	Electrical	
	Continuous duty 100%	Coll	Inrush	Holding	ilisulation class	Eliciosure	connections	
^	24 - 48 - 110 - 220 - 380 (50 or 60 Hz)	WPG1	11.2VA	8.2VA				
=	12 - 24 - 48 (DC)	WFGT	12 Watts		H 180°C	IP 65 with	3 spades DIN 43650	
^	24 - 48 - 110 - 220 - 380 (50 or 60 Hz)	WPG2	18.7VA	15.3VA	П 160 С	connector	DIN 40050 VDE 0110	
=	12 - 24 - 48 (DC)	WPG2	18 Watts				VDE 0110	
^	24 - 48 - 110 - 220 - 380 (50 or 60 Hz)	WPA3C	88VA	57VA	N 200°C	IP54	30cm flying lead	
-	12 - 24 (DC)	WFA3C	33.6 Watts		N 200 C	1754	wires	
	CONSTRUCTION							

Body: 316 stainless steel

Tube and internal parts: Stainless steel

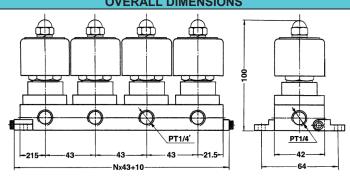
Seals and gaskets: NBR, EPDM, Viton, Silicone or PTFE Moulded coil WPG: Resin, WPA3C round metal enclosure

REPAIR KIT

Armature

Coil

Co



2/2 & 3/2 Coaxial Solenoid Valves

> Electric Actuated Ball Valves

Air Solenoid Valves

Mechanica Air Valves

Accessories Fittings, Tubing

> FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors
Vent Suction
Check Valves

Pinch
Proportional
Sub Base

Timers,
Coils &
Connectors

Magnets & Y Filters

Ambient temperature -40°C to +60°C Adjustable interval and discharge times Mounting: Any position CE Tested Weight 80g Fully Automatic - no maintenance

Simple to install

SVT22 fit all DIN43650A coils

SVT11 fit all DIN 43650B coils

Solenoid Valve Timer SOLID STATE 24 - 240v AC or DC DIN43650A + DIN43650B



Type SVT22 + SVT11

		Models				
Cyclic Repeat Solenoid Valve Timers	Front View	Rear View	Power Off Cycle adjustment	Power On Cycle adjustment	Part Number	List Price
DIN 43650A  Upon application of power	ON TEST OFF		0.5 - 45 Min	0.5 - 10 Sec	SVT22	£57.84
the timer resets, enters the ON state for a period of T1, then switches OFF for a period T2. This	4 6 15 25 2- 16 6 -35 0.5 10 0.5 45 0N:SEC OFF:MIN	PAGEUCT CODE, TARTHON SUPPLY VIOLENCE, TALESTY SUPPLY VIOLENCE, TALESTY OF STREET, TARTHON 18 (ELECT C) 19 (ELECT C)	25 - 150 Min	0.5 - 10 Sec	SVT22N-02	
cycle repeats until power is removed.		SERIAL NO.	0.5 - 60 Min	20 - 300 mSec	SVT22N-03	£89.86
Supply _	( 😌 )		0.5 - 10 Sec	0.5 - 60 Min	SVT22N-04	200.00
Load T1 T2			0.5 - 60 Min	0.3 - 5 Min	SVT22N-05	
Upon application of power the timer resets, enters the ON state for a period of T1, then switches OFF for a period T2. This cycle repeats until power is removed.	ON TEST OFF	SERA-NO.	0.5 - 45 Min	0.5 – 10 Sec	SVT11	£57.84

#### ALMOST ANY OTHER TIME / VOLTAGE AVAILABLE PLEASE ASK

#### **OPTIONS**

Manual test switch - LED Power ON light - LED Power OFF light
Single shot timer: Application of power the timer resets, enters the ON state for a period T1, then switches OFF indefinitely

Delay Timer: Application of power the timer resets, enters the OFF state for a period T2, then switches ON indefinitely

Delayed repeat Cycle Timer: Application of power the timer resets and enters the OFF state for a period T2, then switches ON for a period T1. This sequence repeats until power is removed

Single Cycle Timer: Application of power the timer enters the OFF state for a period T2, then switches ON for a period T1. It then switches O & remains OFF indefinitely

12vDC - 440vAC - 10 Amp version - Limitless time scale availability - Horizontal - Various Colours and other custom options available **ELECTRICAL DATA** 

FF	£89.86	
	POA	
	4	

Included £89.86

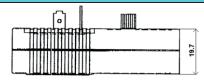
£89.86

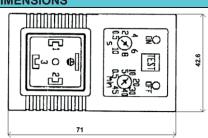
٧	oltage (24 - 240v AC or DC) Continuous duty 100%	Power Consumption	Power Connection	Enclosure	Electrical connections
~	24 to 240 50/60 Hz	4 mA Max	1 Amp Max	IP 65 with	3 spades DIN 43650
=	24 to 240 v DC	4 IIIA Wax	T ATTIP Max	connector	DIN 40050 VDE 0110

#### CONSTRUCTION

Housing material ABS plastic FR Grade

#### **OVERALL DIMENSIONS**





Fitment	Part	Coil Identification Chart Dimensions	Picture	Price
Class F IP65	22001	M3;5 depth  6 428.8  11  11  11  11  11  10  10	© nass 555 00.1-500/4922 2N - 505/2 6-00 49 505/2 6-00/4	£16.24
43650B		6.3		
Class H IP65	22003	42 (O) 39 10 14.8	© nass magnet 6002 50.1 -507/5750 2007 500% 17.69A 1008 50 18.50 67A	£32.46
43650A		14.6		
Class H IP65	22005	42 ( 0 ) 45 10 17.9	Qness magnet 172-003-01/122	£40.00
DIN 43650A		14.6	CE	
Class F IP65	11630	12 22.6 14.8 18 18 M3		£32.46
DIN 43650A		% 5 % F • J %	C. C.	
IP68 2 meter Flying lead	11630BP 12 or 24 volt only	Ø13.15 295	IP 68	£49.79
Class F IP65	31400	13,25 38.5 36		£32.46
DIN 43650A		47.8		
Class F IP65	M16	47.250 ( O 1		£32.46
DIN 43650A		20 - 37.5 -		
Class H IP65	M17	10 		£40.46
DIN 43650A	W17	17.3		270.70
Class N IP54	WPA3C	Voltage Colour Code Blue / White = 12vDC Red / White = 24vDC Red / Black = 24vAC Blue / Blue = 110vAC		£32.46
30cm flying lead		Red / Red = 240vAC	A STATE AND	

2/2 & 3/2 Coaxial Solenoid

> Electric Actuated Ball Valves

Air Solenoid Valves

Mechanical Air Valves

Accessories Fittings, Tubing

FRL's, Filters Regulators Lubricators

Air Actuated Valves

Arrestors /ent Suction Check Valves

inch roportional sub Base

Timers, Coils & Connectors

> lagnets Y Filters

Brass 2/2 N/Closed 0 Rated

Brass 2/2 N/Closed Pilot

2/2 N/Oper 0 Rated

Brass Stainless 3/2

2/2 N/Closed 0 Rated

2/2 N/Closed

Stainless 2/2 N/Open

Stear

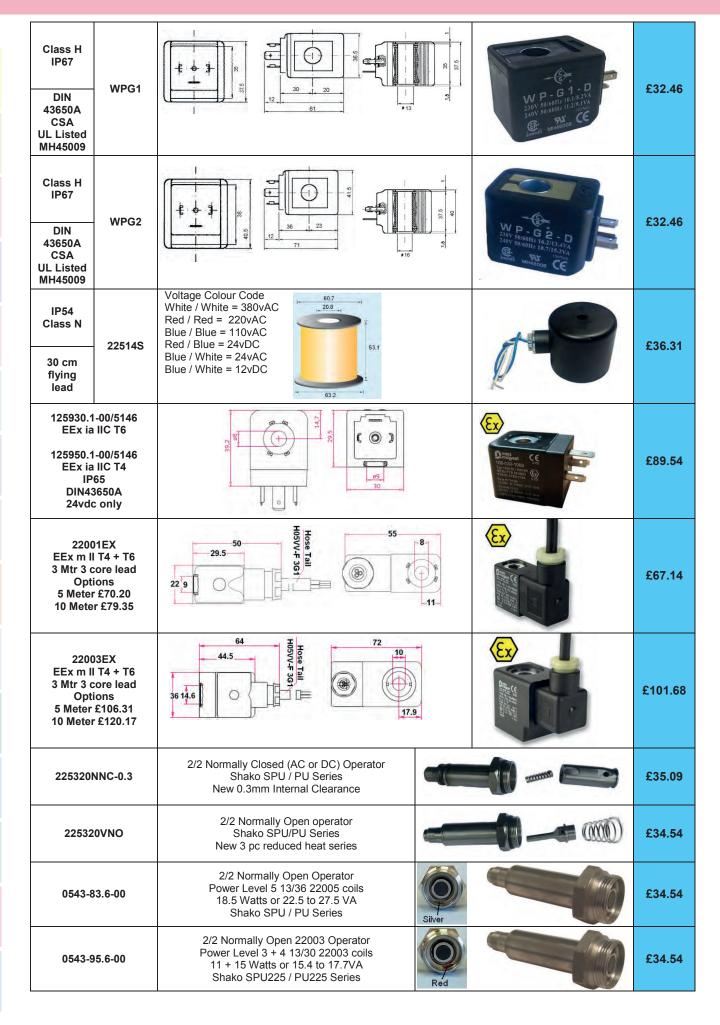
Plastic 2/2 N/Closed

> Plastic Acids/ Alkali

2/2 Latching Bi-Stable

> Gas Valves

Pressure Reducing Valves



	CONNECTORS	DIN43650A		
Part Number	Description	Overall Dimensions		List Price
DIN2	Basic 1 Piece Black No Circuit PG9 for 6 to 8 mm cable NBR Seal IP65, Max 16 Amp Resistance <4 mOhm Clamping contact Optional Conduit Entry 5 – 6mm cable, 1/2NPT 1.5mm² Cable section max			£1.08
DIN3	Basic 1 Piece Black No Circuit with moulded 3 meter PG9 9 mm cable NBR Seal IP67, Max 10 Amp Resistance <4 mOhm Screw contact, 0 to 250 volts 1.5mm² Cable section max	18	+ 0 +	£28.14
DIN2LEDR + voltage (24 – 110- 230)	1 Piece Clear With LED (Red) PG9 for 6 to 8 mm cable, NBR Seal IP65, Max 1.0 Amp Resistance <4 mOhm, Clamping Contact, Power Consumption Max 5mA, Drop off delay approx 3mSec Wrong polarity protection, Optional 24v or 110v or 250v Yellow + Green LED, 5 – 6mm or 1/2NPT. 1.0mm² Cable section max			£4.43
DIN2LEDVD R + voltage (24 – 110 – 230)	1 Piece Clear With LED (Red) + Varistor (VDR) PG9 for 6 to 8 mm cable, NBR Seal IP65, Max 1.0 Amp Resistance <4 mOhm, Clamping Contact, Power Consumption Max 5mA, Drop off delay approx 3mSec Wrong polarity protection, Optional 24v or 110v or 250v, Yellow + Green LED, 5 – 6mm or 1/2NPT. 1.0mm² Cable section max	51 52 52 52 52 52 52 52 52 52 52 52 52 52		£4.43
DIN2R-AII	2 Piece Clear With Rectifier + VDR PG9 for 6 to 8 mm cable, NBR Seal IP65, Max 1.0Amp Resistance <4 mOhm, Clamping Contact Power Consumption 0.5mA, Drop off delay approx 3mSec Wrong polarity protection, Voltage 0 to 230v, Yellow + Green + Red LED, 5 – 6mm or 1/2NPT Conduit. 1.0mm² Cable section max			£7.62
6-11173- 0102	2 Piece ATEX Black without circuit II 3G II 3D Ex nA IIC T95C PG9 6 to 8mm cable, NBR seal IP65, EN175301-803-A To be used with ATEX coil 125930.1-5146 or 125950.1-00/5146 ATEX coil.	28 50	Disperies (E	£11.28
DIN2-PWM- 24v	2 Piece Clear with Diode and Pulse width Modulation energy saving 11 to 89% with LED PG9 for 6 to 8mm cable, NBR seal IP65, Max1.0 Amp Delay 175 mSec, switching frequency 3.1Khz at 24vDC 8 holding power reduction variations by jumper to achieve power saving 11%, 22%, 33%, 44%, 56%, 67%,78% and 89%	power up with PWM connector  I (a)  from up with PWM connector  I (a)  (Imi)		£23.45
	CONNECTORS	Industrial Form		
DIN1	Basic 1 Piece Black No Circuit PG9 for 6 to 8 mm cable NBR Seal IP65, Max 10 Amp Resistance <4 mOhm Clamping contact Optional 5 – 6mm or 1/2NPT 1.0mm² Cable section max			£1.08
DIN1LEDR + voltage (24 – 110- 230)	1 Piece Clear With LED (Red) PG9 for 6 to 8 mm cable, NBR Seal IP65, Max 1.0 Amp Resistance <4 mOhm, Clamping Contact, Power Consumption Max 5mA, Wrong polarity protection, Optional 24v or 110v or 250v, Yellow + Green LED, 5 – 6mm or 1/2NPT. 1.0mm² Cable section max	28,5		£4.24
DIN1LEDVD R + voltage (24 – 110 – 230)	1 Piece Clear With LED (Red) + Varistor (VDR) PG9 for 6 to 8 mm cable, NBR Seal IP65, Max 1.0 Amp Resistance <4 mOhm, Clamping Contact, Power Consumption Max 5mA, Wrong polarity protection, Optional 24v or 110v or 250v, Yellow + Green LED, 5 – 6mm or 1/2NPT. 1.0mm² Cable section max	48.5 5'8		£4.43
DIN1R + voltage (24 – 110 – 230)	2 Piece Clear With Rectifier + VDR PG9 for 6 to 8 mm cable, NBR Seal IP65, Max 1.0Amp Resistance <4 mOhm, Clamping Contact, Power Consumption 0.5mA, Drop off delay approx 3mSec Wrong polarity protection, Voltage 24 – 110 - 230v, Yellow + Green + Red LED. 1.0mm² Cable section max	21		£4.94

2/2 & 3/2 Coaxial Solenoid

Electric Actuated Ball Valves

Air Solenoid Valves

Mechanical Air Valves

Accessories, Fittings, Tubing

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Air Actuated Valves

Arrestors Vent Suctior Check Valve

inch roportional ub Base

Timers, Coils & Connectors

Magnets & Y Filters

The solenoid magnet is designed to convert electrically operated solenoid Valve into a hand-operated valve to enable service engineers to operate valves manually. The magnet greatly assists during installation, recovery of refrigerants, commissioning and decommissioning of plant and machinery.

# Permanent Magnet

SOLENOID VALVE OPERATING MAGNETS SERVICE & COMMISSIONING TOOL FOR THE MANUAL OPERATION OF SOLENOID **VALVES** 



ID	Colour	Fitment Range	Part Number	List Price		
10mm	White	10 to 14mm Armature or Coil ID	MAGNET 10			
15mm	Orange	15 to 17mm Armature or Coil ID	MAGNET 15	£49.92		
18mm	Red	18 to 22mm Armature or Coil ID	MAGNET 18			
OPTIONS						

Other colours available upon request

#### CONSTRUCTION

Injection moulded ABS plastic housing

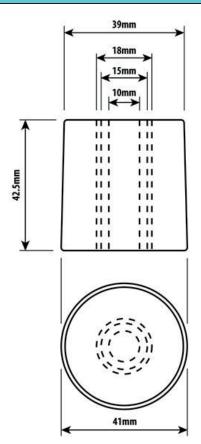
Magnetic strength 1500 Gauss flux density in total.

Unit consists of three separate magnets with 1200 Gauss each encapsulated in strong ABS corrosion resistant casing

Magnetic stability is high, low demagnetisation when exposed to external magnetic fields

Maximum working temperature +250°C

#### **OVERALL DIMENSIONS**



Suitable for Refrigeration, Water, Oil, Air-conditioning, gas, Air installations and other plant and machinery where solenoid valves require opening and closing manually. The Solenoid Valve Operating Magnet has been designed and manufactured to solve the problem of how to operate Solenoid Valves when a system is not under power. The Magnet is the same shape and size of a large cotton reel and, when placed on top of a Solenoid Valve with the coil removed, it causes the armature to open or close.

This means that the device can be used to operate valves in a plant or system that has yet to be wired up. It eliminates the need to wire up the system or worry about the correct voltages. It can also be used when recovering refrigerant from a plant that has already been decommissioned and power removed. In emergencies, such as the failure of a Solenoid Valve coil, it can also be used to keep a system operating while a replacement coil is found.

#### HOW TO USE THE SOLENOID VALVE OPERATING MAGNET

- 1. Simply remove the electrically operated coil, making sure that the power is switched off.
  - 2. Place the solenoid magnet (widest diameter at the bottom) fully over the valve stem.
  - 3. A click should be heard, this means the valve is in the open position.
  - 4. If no click is heard, simply turn the magnet the other way up and repeat as above.
  - 5. When the manual operation is complete, simply replace the electrically operated coil for normal operation.

#### WARNING

DO NOT ENERGISE THE ELECTRICALLY OPERATED COIL UNLESS IT IS SEATED ON THE VALVE STEM CORRECTLY.

Keep away from heart pacemakers and magnetically stored data

Media: fluid - air - steam - water - acid Pressure range: 0 to 55 Bar max Media temperature: -29°C to +232°C

Mounting: any position

# Stainless Y Filter 3/8 to 21/2" 316 Stainless 0.3 to 0.45mm filter mesh

0 - 55 Bar TYPE YSS



**PRESSURE** 

Ø	Ø Orifice (mm)	Pressure			
Port BSP		Min	Max	Part Number	List Price
3/8	10	0	55	YS38SS	£19.23
1/2	15	0	55	YS12SS	£19.23
3/4	20	0	55	YS34SS	£25.50
1	25	0	55	YS1SS	£39.75
1 1/4	32	0	55	YS114SS	£78.33
1 1/2	40	0	55	YS112SS	£92.64
2	50	0	55	YS2SS	£143.59
21/2	65	0	55	YS212SS	£232.53

**OPTIONS** 

NPT Thread + 10%

**CONSTRUCTION** 

Body: 316 stainless steel

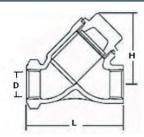
Tube and internal parts: 304 Stainless steel

Seals and gaskets : PTFE Pressure tested to 55 Bar

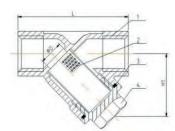
R	ΕF	ΡΑ	IR	K	ΙT

Filter mesh KIT + valve part number

#### **OVERALL DIMENSIONS**



Port D	L	Н	Kg
3/8	55	49	0.137
1/2	70 59		0.336
3/4	76	65	0.35
1	72	78	0.56
11/4	118	105	1.074
11/2	118	108	1.18
2	140	128	1.96
21/2	170	158	3.34



No	Description	Material
1	Body	CF8M Stainless
2	Filter Mesh	304 Stainless
3	Gasket	PTFE
4	Cover	CF8M Stainless
5	Bolt seal	PTFE

Magnets & Y Filters

#### **INSTALLATION AND MAINTENANCE INSTRUCTIONS**

#### A. Installation.

Before mounting the valve it is essential to check that the solenoid valve model, the voltage (Volt) and the frequency (Hz) correspond to the characteristics required.

#### **B. Mechanical Part**

Assembly of the solenoid valve must correspond with the flow direction indicated with an arrow on the valve body.

If the valves are provided with caps for protecting the connections, make sure they are removed before assembly.

Care should be taken to prevent **foreign bodies** from entering the valve during the assembly phase, e.g. material chips, dirt or particles of insulating material such as PTFE tape from the "external thread" connections.

Although the valve can be used **in any position**, the inverted position is not advised since possible impurities could become blocked inside the tube causing malfunctioning.

When installing the valve make sure that the position and surrounding **space are sufficient** to allow for possible future maintenance or replacement of the coil.

Never use part of the tube or the coil itself as a lever during the tightening phase: this could cause irreparable damage to the valve.

In those installations **where impurities, slag or deposits** of various types may infiltrate the fluid, it is advisable to mount a filter upstream of the valve.

In case of solenoid valves with **holes drilled for supports**, use must be made exclusively of these without modifying the holes or anything else on the valve body.

For solenoid valves with connections to be welded, please refer to paragraph D.

#### C. Electrical Connections

Before connecting the coil to the supply system, make sure that the characteristics conform to the supply voltage.

Where applicable the earth terminal must be connected.

The coil should not be energised before being installed on the valve since this could cause it to burn out.

Rotate the coil to the most suitable position, loosening and subsequently tightening the upper nut.

#### D. Working Temperature

It is normal for the coil temperature to increase during operation; irregular **overheating** will cause smoke and smell of burning. In this case the power supply must **be immediately isolated**.

Care should be taken **not to install** the valve **near a source of heat** or in environments where there could be a disruption to the dissipation of heat produced by the coil.

For special conditions, e.g. **high temperatures** or particular safety regulations please consult our catalogue or our Technical Office. Particular attention should be paid to the temperatures when installing valves with welded connections.

When carrying out welding between the valve connection and the pipe system, it is necessary to dismantle the coil and check that the temperature of the valve body does not exceed values of  $100^{\circ}$ C -  $150^{\circ}$ C ( $200^{\circ}$ F -  $300^{\circ}$ F). The flame should be regulated so that it does not come into contact with the valve. It is advisable to cool the valve body by wrapping it in a wet cloth. Should it be impossible to carry out these precautions, we suggested dismantling the parts inside the valve.

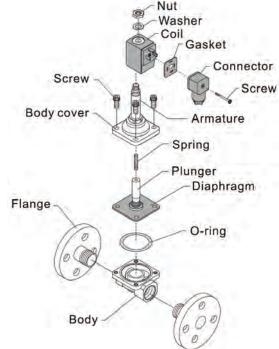
#### E. Maintenance

After disconnecting the supply voltage and discharging the pressure, carry out inspection of the valve.

Clean and inspect all the internal parts and replace them if necessary with type original spare parts available, as indicated in the catalogue. Remount all the parts, making up the solenoid valve with care, paying great attention to the correct position of each part and protecting the sealing surfaces.

Check for tightness and correct operation.

These general instructions give an approximate idea of the correct use of the solenoid valves but cannot in any way be considered as a substitute for the catalogue giving all the characteristics of every solenoid valve. Please consult this volume or our technical office for every new installation.



#### Solenoid Valve Fault Diagnosis - Check List

#### Valve unable to open

Failed Power Supply – Check if valve is normally closed (power to open) Or Normally Open (Power to close), Use magnetic detector, Lift coil slightly to check if magnetic field is present Do not remove coil if energised as IT WILL BURN OUT, Check contacts, Check wire connections and DIN connector, Check fuses.

**Wrong Voltage** – Check coil marked voltage is correct for supply, Check voltage tolerances normally +/- 10% some AC coils work on the principle of creating an inrush condition to open the valve, check your power supply is rated for the coil current requirements. Most valves will have cable plugs rated to IP65, ensure cable gland and cable diameter are matched, plug connecting screw correctly tightened and allow cable to drop under cable gland to help prevent ingress of water droplets. **Coil Burnt Out** – Check valve armature is not stuck, Check there has been no water ingress if need be prevent water droplets reaching coil do not encapsulate coil as will over heat, check correct voltage is supplied, replace coil.

**Pressure – Too High –** Check coil power rating, higher power version may be required. Reduce inlet pressure in line with valve specification as shown.

**Pressure – Too Low –** Check inlet/ outlet pressure difference (Differential) is in line with design conditions of the valve. If too low valve will need replacing with zero rated valve. Remember that the downstream side can rise to a higher tank or system, so should also be subtracted from the supply side pressure. Other system demands may also reduce the overall supply pressure And downstream elbows or equipment will further reduce differentials.

**Damaged Armature Tube –** Replace armature tube.

**Dirt Ingress Under Diaphragm** – Clean diaphragm or replace if damaged. Fit Y type strainer upstream to filter out suspended particles.

**Dirt Ingress In Armature Tube –** Clean valve armature or replace. Suspended particles of dirt can be filtered out with a strainer, always mount valve with coil upright to reduce wear and assist particles to gravitate away. If hard water scale builds up install water softener or dry armature valve, otherwise install Y type strainer to filter out suspended particles.

**Corrosion** – Replace damaged components and check media compatibility with valve if the armature is pitted due to cleaning or dosing fluids Some weak acids & Alklai's can attack the 430F stainless steel armature, which is corrosion resistant but not guaranteed to withstand all media.

Missing Components After Maintenance - Replace parts.

#### Valve opens slightly

Low Pressure – Check inlet/ outlet pressure difference (Differential) is in line with valve specification. If differential is too low the valve will need replacing with a zero rated version. Remember that the downstream pressure can rise due to vertical pipes, elbows or other down stream equipment, so should also be subtracted from the supply side pressure. Other system demands may also reduce the overall supply (inlet) pressure such as elbows or other equipment that will further reduce these pressure differentials.

Damaged Or Bent Armature Tube – Replace tube.

Dirt Ingress Under Diaphragm - Clean diaphragm or replace if damaged. Fit Y type strainer upstream.

Corrosion - Replace damaged components and check media compatibility with valve.

Do not use EPDM seals on Oils or Fats as the seals will swell and restrict flow. Call technical help line or soak seals or component parts overnight to see if seals swell up or react with the media.

Missing Components After Maintenance – Replace parts.

#### Valve fail to close or partly closes

**Residual Power To Coil –** Lift coil slightly to check if magnetic field is present, Do not completely remove coil if energised as IT WILL BURN OUT. Check wiring and diagrams, Check lead connections.

Dirt Ingress In Pilot Hole Under Coil Armature - Clean orifice with pin or compressed air.

Manual Over Ride – Check position of manual over ride and adjust if required.

Pressure Pulse Upstream, Pressure Difference in/out Too High, Outlet Pressure Occasionally Higher Than Inlet Pressure – Check valve technical data and replace if necessary, Check pressure and flow, Check other items in installation. Damaged or Bent Armature Tube – Replace tube.

Damaged Diaphragm Base Or Valve Seat - Replace valve. Check valve is being used within its specification.

**Diaphragm Inverted –** Refit diaphragm correctly or replace with new part.

**Dirt Ingress In Armature Tube –** Clean valve armature or replace. If hard water scale build up install water softener or dry armature valve.

Corrosion In Pilot Orifice - Replace damaged components, Check valve specification in suitable for application.

Valve Installed Wrong Way Around – Check flow direction is in line with flow direction arrow or in/out markings on ports.

Missing Components After Maintenance – Replace parts.

#### Valve noise appears incorrect

Wrong Voltage – Check coil marked voltage is correct with power supply, Change coil for correct one if required, Check wiring and wiring diagram, Check voltage tolerance, normally +/- 10%.

**Coil Short Circuit** – Check remaining installation for short circuit, Check lead connections at coil and DIN connector, Check for moisture in coil, Replace as required. Check IP rating.

**Coil Armature Slow-** Replace damaged armature, Check media compatibility with valve.

Bent Armature Tube - Replace accordingly.

Dirt In Armature Tube - clean and fit Y type strainer.

**Media Temperature Too High -** Check media temperature against valve technical data, Move valve to cooler area or increase ventilation around valve & coil, Check you have correct function normally closed or normally open.

Useful Engineering Data								
Liquid Flow Formulae				Air Flow Formulae				
			Where ∆	P less than P1/	2 Where ΔP equal to P1/2			
(	$Q=Kv \times \sqrt{(\Delta P/d)} \text{ or } \Delta P=d(Q/Kv)^2$				Q=1.69	9Κν√(ΔΡ <b>χ</b> Ρ²	Q = 0.84Kv x P1	
Q = Flow L/Min  ΔP = Pressure Drop (Bar)  d = density i.e. Water = 1  Cv = flow factor coefficient of valve (L/Min)  (N.B. ΔP 5 - 10% is preferred)			$Q = Flow (M^{3} Hr)$ $\Delta P = Pressure Drop (Bar)$ $Kv = flow factor coefficient of valve (M^{3} Hr)$ $P1 = inlet pressure + 1 bar$ $P^{2} = absolute downstream pressure = (inlet pressure + 1 bar - \Delta P)$					
Ur	aybolt niversal econds)	Engler (degrees)	Kinematic (centistokes)	Ur	Saybolt niversal econds)	Engler (degrees)	Kinematic (centistokes)	
(30	-	1.05*	1.5	(30	103	3.0	21.3	
	34	1.15*	2.5		109	3.2	22.8	PRESSURE
	37	1.25*	3.4		115	3.4	24.1	1 Bar = 14.5 PSI
	40	1.3*	4.2		125	3.7	26.7	1 Bar = 100 kPa (Kilopascal)
	42	1.4*	5.0		137	4.0	29.2	1 PSI = 6.9 kPa 1 Kg/cm² = 0.98 Bar
	45	1.45*	5.7		148	4.3	31.7	1 Atmosphere = 1.013 Bar
	50	1.6*	7.5		160	4.6	34.2	1 Inch Water gauge = 2.49 mbar
	57	1.8*	9.4	-	171	4.9	36.8	1 mm Mercury = 1.33 mbar 1 Ton / in <sup>2</sup> = 154 Bar
-	62	1.9	11.0		183	5.2	39	
	68	2.1	12.6		205	5.9 7	44	
	74	2.2	14.2		242		50	
	92	2.6 2.7	17.0		285 313	8.1 8.9	62 68	Volume
	98	2.7	20.0		342	9.8	74	1 Gallon (UK) = 4.54 Litres
			tion Provided E	Ry Flec				1 Gallon 9USA) = 3.79 Litres
1 <sup>st</sup>		1		2 <sup>nd</sup>	1	•		1 Pint (UK) = 0.57 Litres
No.	I Definition I		Test Type	No.	Def	inition	Test Type	1 Pint (USA) = 0.47 Litres 1 Fluid Once (UK) = 28.4 cm <sup>3</sup>
1			•	1	vertically	ted against falling water drops	0	1 Fluid Once (ÙSÁ) = 29.6 cm <sup>3</sup>
2	Protected against objects Ø 12.5mm Protected against access with finger		0	2	Protected against vertically falling water drops up to 15° inclination.		\15 Degrees	FLOW  1 CFM = 0.472 Litres a second 1 CFM = 0.000472 m³/Sec 1 CFM = 28.32 Litres a minute
3	Protected against objects Ø 2.5mm Protected against access with tool		•	3	Protected against vertically falling water drops up to 60° inclination.		60 Degrees	
4	Protected against objects Ø 1.0mm Protected against access with wire		0	4	Protected against splashing water in any direction			Temperature From °F to C° Add 40 then multiply by 5 then divide by 9 then -40
5	5 Dust protected			5	Protected against water jets from any direction		→ <u>†</u>	From C° to F° Multiply by 9 then –40 divide by 5 then +40
6	6 Dust tight			6	Protected against powerful water jets from any direction		→ <u></u>	Length
i.e. IP65 Ingress Protection (6) Dust Tight			7	temporary	ted against immersion in vater		1 Inch = 25.4mm 1/16" Inch = 1.5875mm 1 foot = 0.305 Meters 1 Mile = 1.609 Kilometre	
(5) F	(5) Protected against water jets from any direction		8		d against the submersion			

#### <u>Terms and Conditions Of Sale (The Seller)</u> to all Buyers (The Buyer)

Where the expression 'The Company' is used in this document it shall mean 'The Seller'.

#### General

The acceptance of this catalogue is the acceptance of the following terms and conditions. All quotations made and all orders are accepted subject to the following conditions. All conditions of the Buyer or other condition's whatsoever are excluded from the contract or any variation thereof, unless expressly accepted by the Company in writing. Quotations shall only be available for acceptance for a maximum period of 30 days from the month of quotation, unless stipulated in writing from the Company and may be withdrawn by the company within such a period at any time without notice.

#### 2. Prices

All prices are quoted net ex works and are subject to change without prior notice. Any increase in such costs during the period of production will be added to the quoted price. All prices exclude VAT, which will be added in accordance with current law. In the event of any alteration required by the Buyer in design specification or quantities, the Company shall be entitled to make an adjustment of the contract price corresponding to such alteration. The cost of carriage and packing will be charged extra on all orders to the Buyer unless specified otherwise by the Company.

#### Delivery

Time for delivery is given as accurately as possible but is not guaranteed. The Buyer shall have no right to damages or to cancel the order for failure for any cause to meet any delivery time stated. Date of delivery shall in every case be dependent upon receipt of final instructions or approvals being obtained from the Buyer. The Company will endeavour to comply with reasonable requests for postponement of delivery but shall be under no obligation to do so.

#### 4. Risk: Insurance Title

Risk shall pass to the Buyer when the goods or the relevant part thereof leave the premises of the Company for delivery to the Buyer notwithstanding that the Company may arrange for delivery.

Title in the goods shall pass to the Buyer when the Company has received payment in full.

#### 5. Cancellation

Orders cannot be cancelled except with our consent and on terms that will indemnify the Company against all loss.

#### 6. **Terms of payment**

Credit terms are subject to acceptance by the company's credit protection agents. All accounts shall be net monthly and payable by the Buyer not later than the 30th day of the month following the date of invoice. No disputes arising under the contract nor delays beyond the control of the Company shall interfere with the prompt payment by the Buyer. In the event of default, the Buyer will allow the Company or his agent to enter the premises where the goods are kept and remove the same. The Buyer will be responsible to the Company for all costs incurred in reclaiming the goods.

#### 7. Shortages and Defects Apparent on Inspection

Any claim for shortages or defects apparent on inspection will only be considered if: -

The Buyer inspects the goods within 3 days of delivery. Any complaint must be made to the Company in writing prior to the expiry of seven days from the delivery and The company is given the opportunity to inspect the goods. If a complaint is not made to the Company herein provided then the goods shall be deemed to be in all respects in accordance with the contract and the Buyer shall be bound to pay for the same accordingly. The Company is in no way responsible for the delivery of the goods and is in no way liable for claims for loss or damage in transit, which must be made by the Buyer against the Carrier in accordance with the Carriers conditions.

#### 8. Guarantee

Save as provided by Condition 7 hereof the Company agrees to replace or repair at it's option goods or parts of goods manufactured and or supplied by the Company and proved to the Companies satisfaction to be faulty. (Excepting fair wear and tear or damage due to misuse or faulty operation), provided that such fault be notified within twelve months from the date of despatch from the Companies works. Any such replacement shall include free delivery to Buyers works. The Company shall not be liable for consequential damage or loss or injury resulting from defective goods, performance fluctuations from specification or failure by employees or sub contractors.

#### 9 **Regulations**

Where the components supplied are "Safety Critical" the liability of the Company shall be limited to the standard of production required by the appropriate quality control procedure of the Company which will be produced to the Buyer on request at the relevant time. No responsibility is accepted by the company for failure to comply with any regulations or requirements of any government or other authority.

#### 10. **Data**

Illustrations, weights, measures specifications and performance schedules set out in the sales literature of the Company are statements of opinion and are provided for information only and form no part of the contract.

#### 11 Sub-Contractors

The Company shall be entitled to appoint one or more sub contractors to carry out all or any of its obligations hereunder.

#### 12 **Legal**

The Contract shall in all respects be construed and operated as an English contract and in conformity with English Law.

#### 13. Contract

The Company reserves the right to add 4% per month to the invoice price of any batch which is held on the Buyers instructions, or if payment is not made within the agreed period shown on the quotation or within 38 days following the month of invoice.

