

# Air - Vacuum - Fluid - Chemical - Steam



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Approvals



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### Bi Metal Temperature Gauges

The Badotherm® Series of Temperature Gauges are a Bimetal Thermometer suitable for corrosive media and environments in chemical process, petroleum and food industries. Available in 80mm, 100mm & 125mm Dial Faces, in varying temperature scales and stem length. Optional items include a thermowell.

Wide range of temperature scales, dial sizes, thread sizes and stems available upon request.



### Orifice Plates

PCI manufactures a large range of custom machined orifice plates to a wide range of industries. Each orifice plate is custom machined to suit the application. Commonly referred to as an Annular Chamber or Orifice Flange.

Materials, thicknesses and design can be customised to suit application, pressure and temperature requirements. Contact Sales for further details.



### Gauge Diaphragm Seals

Gauge Diaphragm Seals are used for media isolation between the pressure gauge and line media. This enables the pressure gauge to read pressures on corrosive and incompatible media as well as dampen any vibrations in the media for more stable pressure readings. The diaphragm seal also allows the gauge to operate on higher than normal temperature medias.

Available in a number of different styles including Triclover, uPVC, Bolted Bonnet, Flanged and Forged Monel. Gauge Diaphragms can be assembled with our Badotherm Pressure Gauges and filled with various media.



### Workshop Services

At Plant and Control Instruments we can offer a range of workshop services including but not limited to:

- Pressure Gauge and Diaphragm assembly and filling
- Liquid filling of Pressure Gauges (Various Medias)
- Workshop Certification for Gauge Calibration
- Workshop Certification for Temperature Gauge Calibration



Badotherm® are a leading Dutch manufacturer of high quality Pressure and Temperature Gauges, along with other ancillary pressure and temperature products. This range covers a wide range of specialty and general purpose applications. Plant and Control Instruments is the Australian and New Zealand Distributor for the Badotherm® range.



### 100mm Full Stainless Steel Pressure Gauge

Capsule Pressure Gauges are designed for extremely low pressure gaseous media. Featuring two diaphragms welded to form a pressure sensitive capsule. These capsule gauges are not recommended for liquid media but are typically used for low pressure aggressive gaseous media and environments, due to their full Stainless Steel construction. As standard in 100mm Dial Face with ½" NPT process connection and 1.6% accuracy.

#### Pressure Ranges

0 ~ 16 kPa                      0 ~ 25 kPa                      0 ~ 40 kPa

Other pressure ranges, scales, media filling, process connections, case, glass and dial sizes available upon request.



### Safety Pattern Pressure Gauge

Safety Pattern Gauges are designed to withstand the severest of operating conditions created by the ambient environment and media. Designed to EN837-1 /9.7.2 & ANSI B 40.1 in varying accuracy levels, featuring solid front baffle wall and full blow-out back. In the event of a ruptured Bourdon Tube, the back of the gauge will blow back.

#### Pressure Ranges

0 ~ 100 kPa	0 ~ 2.5 Bar	0 ~ 25 Bar	0 ~ 10 MPa
0 ~ 160 kPa	0 ~ 4 Bar	0 ~ 40 Bar	0 ~ 16 MPa
0 ~ 4000 kPa	0 ~ 6 Bar	0 ~ 60 Bar	0 ~ 40 MPa
0 ~ 6000 kPa	0 ~ 10 Bar	0 ~ 100 Bar	0 ~ 100 MPa
	0 ~ 16 Bar	0 ~ 160 Bar	

Other pressure ranges, scales, media filling, process connections, case, glass and dial sizes available upon request



### 100mm Full Stainless Steel Pressure Gauge

Capsule Pressure Gauges are designed for extremely low pressure gaseous media. Featuring two diaphragms welded to form a pressure sensitive capsule. These capsule gauges are not recommended for liquid media but are typically used for low pressure aggressive gaseous media and environments, due to their full Stainless Steel construction. As standard in 100mm Dial Face with ½" NPT process connection and 1.6% accuracy.

#### Pressure Ranges






0 ~ 16 kPa                      0 ~ 25 kPa                      0 ~ 40 kPa

Other pressure ranges, scales, media filling, process connections, case, glass and dial sizes available upon request.

## Other Badotherm Pressure Gauges Available

Other Pressure gauges in the Badotherm range include General Purpose, Specialty HF Acid Service, Diaphragm assembled for process and hygienic connections. Dial sizes, Pressure Ranges, Scales, Media Filling, Process Connections, Case Materials and Windows are all customisable options to suit application, Contact Sales for details.

**PCI are also Agents and Stockists for the following leading industry brands**

	<p><b>Badotherm</b></p> <p>PCI is the Australian &amp; New Zealand distributors for Badotherm pressure gauges, temperature gauges and diaphragm seals. These are fully stocked and used where quality and longevity are required.</p>
	<p><b>Pepperl &amp; Fuchs</b></p> <p>Pepperl &amp; Fuhs specialise in electrical explosion protection and sensor technology. PCI has full access to this range and can asiist with an of your sensing or hazardous area needs.</p>
	<p><b>TLV</b></p> <p>TLV are known as the steam specialists and PCI has full access to TLV's extensive range of steam equipment. This includes steam traps, pressure reducing valves and clean steam systems. These are in stock with quick turnaround.</p>
	<p><b>SMC</b></p> <p>SMC have a full range of pneumatic equipment &amp; valves for industrial applications. PCI stocks SMC equipment &amp; has full access to the SMC range. Contact us for any of your SMC requirements.</p>
	<p><b>IMI Herion &amp; Norgren</b></p> <p>Norgren IMI &amp; Herion are specialists in fluid and motion control technologies. This range encompasses a wide range of products with the most popular being hazardous areas solenoid valves (amongst others)</p>

**Other International Specialty Brands we supply:**



### 2 Way

#### AIR / FLUID / VACUUM



Model	Function/ Port Size BSP	Orifice CV		Pressure (Bar) Air & Fluid		Vacuum Hg"	Media Temperature	Material of Construction	Features	
		Ømm	CV	AC	DC					
<b>Normally Closed / Normally Open · Manual Override. SS304</b>										
<b>S25 - S26</b>										
S25 - 2 - 1.6 - * V	N.C.	1/4	1.6	0.1	0-13	0-13	↑ 27 ↓	-10°C   100°C	Body: 304 Stainless Steel. Seals: Viton Operator: Stainless Steel	Air, Fluid & Vacuum. Manual Override. Direct Acting. 11VA AC 15W DC IP65
S26 - 2 - 1.6 - * V	N.O.	1/4	1.6	0.1	0-13	0-13				

#### AIR / WATER



Model	Function/ Port Size BSP	Orifice CV		Pressure (Bar) Air & Fluid		Vacuum Hg"	Media Temperature	Material of Construction	Features	
		Ømm	CV	AC	DC					
<b>Normally Closed · BRASS</b>										
<b>B35</b>										
B35 - 2 - 10 - * N	N.C.	1/4	10	2.3	0.3-10	0.3-10	 N/A 	-5°C   80°C	Body: Brass Operator: Stainless Steel Seat: NBR	Air, Fluid 11VA AC 15W DC IP65
B35 - 3 - 10 - * N		3/8	10	2.3	0.3-10	0.3-10				
B35 - 4 - 10 - * N		1/2	10	3	0.3-10	0.3-10				
B35 - 4 - 14 - * N		1/2	14	5	0.3-10	0.3-10				
B35 - 5 - 14 - * N		3/4	14	5	0.3-10	0.3-10				
B35 - 5 - 20 - * N		3/4	20	10	0.3-16	0.3-16				
B35 - 6 - 20 - * N		1	20	11	0.3-16	0.3-16				
B35 - 7 - 40 - * N		1-1/4	40	28	0.7-16	0.7-16				
B35 - 8 - 40 - * N		1-1/2	40	34	0.7-16	0.7-16				
B35 - 9 - 50 - * N	N.C.	2	50	50	0.7-16	0.7-16				

#### AIR / WATER



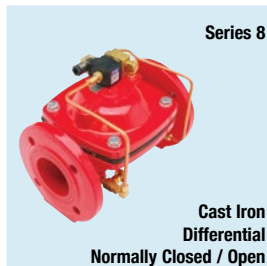
Model	Function/ Port Size BSP	Orifice CV		Pressure (Bar) Air & Fluid		Vacuum Hg"	Media Temperature	Material of Construction	Features	
		Ømm	CV	AC	DC					
<b>Normally Closed · Manual Override · BRASS</b>										
<b>B35M</b>										
B35M - 4 - 14 - * N	N.C.	1/2	14	5	0.3-10	0.3-10	 N/A 	-5°C   80°C	Body: Brass Seals: NBR Operator: Stainless Steel	Air, Fluid Manual Override 11VA AC 15W DC IP65
B35M - 5 - 20 - * N		3/4	20	10	0.3-16	0.3-16				
B35M - 6 - 20 - * N		1	20	11	0.3-16	0.3-16				
B35M - 7 - 40 - * N		1 1/4	40	28	0.7-16	0.7-16				
B35M - 8 - 40 - * N		1 1/2	40	34	0.7-16	0.7-16				
B35M - 9 - 50 - * N	N.C.	2	50	50	0.7-16	0.7-16				

#### AIR / WATER



Model	Function/ Port Size BSP	Orifice CV		Pressure (Bar) Air & Fluid		Vacuum Hg"	Media Temperature	Material of Construction	Features	
		Ømm	CV	AC	DC					
<b>Normally Open · BRASS</b>										
<b>B36</b>										
B36 - 2 - 14 - * N	N.O.	1/4	14	3	0.3-10	0.3-10	 N/A 	-5°C   80°C	Body: Brass Operator: Stainless Steel Seat: NBR	Air, Fluid 11VA AC 15W DC Part #s B36-7 to B36-9 20VA AC 17W DC 24V 21W DC 12V IP65
B36 - 3 - 14 - * N		3/8	14	4	0.3-10	0.3-10				
B36 - 4 - 14 - * N		1/2	14	5	0.3-10	0.3-10				
B36 - 5 - 20 - * N		3/4	20	10	0.3-16	0.3-16				
B36 - 6 - 20 - * N		1	20	11	0.3-16	0.3-16				
B36 - 7 - 40 - * N		1-1/4	40	28	0.7-16	0.7-16				
B36 - 8 - 40 - * N		1-1/2	40	34	0.7-16	0.7-16				
B36 - 9 - 50 - * N	N.O.	2	50	50	0.7-16	0.7-16				

#### AIR / WATER



Model	Function/ Port Size BSP	Orifice CV		Pressure (Bar) Air & Fluid		Vacuum Hg"	Media Temperature	Material of Construction	Features	
		Ømm	CV	AC	DC					
<b>Normally Closed / Normally Open · Cast Iron</b>										
<b>C85 - C86</b>										
C85 - 8 - 40 - *	N.C.	1-1/2	40		1.5-12	1.5-12	 N/A 	5°C   50°C	Body: C = Cast Iron Seals: Reinforced Natural Rubber. Operator: Brass & Stainless Steel Flanges - Table D	Air & Fluid Adjustable Closing Time Anti Water Hammer. 11VA AC 15W DC IP65
C85 - 9 - 50 - *		2	50		1.5-12	1.5-12				
C85 - 11 - 80 - *		3	80		1.5-12	1.5-12				
C85 - 11F - 80 - *		Flange	80		1.5-12	1.5-12				
C85 - 12F - 100 - *		Flange	100		1.5-12	1.5-12				
C85 - 14F - 150 - *	N.C.	Flange	150		1.5-12	1.5-12				
C86 - 8 - 40 - *	N.O.	1-1/2	40		1.5-12	1.5-12				
C86 - 9 - 50 - *		2	50		1.5-12	1.5-12				
C86 - 11 - 80 - *		3	80		1.5-12	1.5-12				
C86 - 11F - 80 - *		Flange	80		1.5-12	1.5-12				
C86 - 12F - 100 *		Flange	100		1.5-12	1.5-12				
C86 - 14F - 150 *	N.O.	Flange	150		1.5-12	1.5-12				

### 2 Way

Model	Function/ Port Size BSP	Orifice CV		Pressure (Bar) Air & Fluid		Vacuum Hg"	Media Temperature	Material of Construction	Features
		Ømm	CV	AC	DC				

#### AIR / WATER / VACUUM

#### Normally Closed · SS304 ES55



ES55 - 1 - 1 - * V	N.C.	1/8	1.0	0.04	0-25	0-25	27	-10°C   100°C	Body: 304 Stainless Steel. Seals: Viton Operator: Stainless Steel	Air, Fluid & Vacuum. Direct Acting. 11VA AC 15W DC IP65
ES55 - 2 - 2 - * V	N.C.	1/4	2.0	0.10	0-16	0-16				
ES55 - 2 - 3 - * V		1/4	3.0	0.20	0-10	0-10				
ES55 - 2 - 4 - * V	1/4	4.0	0.40	0-6	0-6					

#### AIR / WATER / VACUUM

#### Normally Closed · SS304 ES55



ES55 - 4 - 16 - * N	N.C.	1/2	16	4.8	0-5	0-5	27	-5°C   80°C	Body: 304 Stainless Steel. Seals: NBR Operator: Stainless Steel	Air, Fluid & Vacuum. 304 Body (Optional 316SS) Zero Differential 33VA AC 20W DC ES55-7 to 9 28VA AC 30W DC IP65
ES55 - 5 - 20 - * N	N.C.	3/4	20	7.6	0-5	0-5				
ES55 - 6 - 25 - * N		1	25	12	0-5	0-5				
ES55 - 7 - 35 - * N	1-1/4	35	24	0-5	0-5					
ES55 - 8 - 40 - * N	1-1/2	40	29	0-5	0-5					
ES55 - 9 - 50 - * N	2	50	48	0-5	0-5					

#### AIR / WATER / VACUUM

#### Normally Open · SS304 ES56



ES56 - 4 - 16 - * N	N.O.	1/2	16	4.8	0-5	0-5	27	-5°C   80°C	Body: 304 Stainless Steel. Seals: NBR Operator: Stainless Steel	Air, Fluid & Vacuum. 304 Body (Optional 316SS) Zero Differential 45VA AC 30W DC IP65
ES56 - 5 - 20 - * N	N.O.	3/4	20	7.6	0-5	0-5				
ES56 - 6 - 25 - * N		1	25	12	0-5	0-5				

#### POTABLE WATER

#### Normally Closed · SS316 (Watermark Approved) W35



W35 - 4 - 14 - * E	N.C.	1/2	14	5	0.25 - 16	0.25 - 16	N/A	-10°C   80°C	Body: 316 Stainless Steel. Seat: EPDM WMKA 26321 SPEC 30	Air, Fluid, Potable Water 27VA AC 18W DC IP65
W35 - 5 - 20 - * E	N.C.	3/4	20	10	0.25 - 16	0.25 - 16				
W35 - 6 - 25 - * E		1	25	11	0.25 - 16	0.25 - 16				
W35 - 7 - 40 - * E	1-1/4	40	28	0.7 - 16	0.7 - 16					
W35 - 8 - 40 - * E	1-1/2	40	34	0.7 - 16	0.7 - 16					
W35 - 9 - 50 - * E	2	50	50	0.7 - 16	0.7 - 16					

#### POTABLE WATER

#### Normally Open · SS316 (Watermark Approved) W36



W36 - 4 - 14 - * E	N.O.	1/2	14	5	0.25 - 16	0.25 - 16	N/A	-10°C   80°C	Body: 316 Stainless Steel. Seat: EPDM WMKA 26321 SPEC 30	Air, Fluid, Potable Water 27VA AC 18W DC IP65
W36 - 5 - 20 - * E	N.O.	3/4	20	10	0.25 - 16	0.25 - 16				
W36 - 6 - 25 - * E		1	25	11	0.25 - 16	0.25 - 16				
W36 - 7 - 40 - * E	1-1/4	40	28	0.7 - 16	0.7 - 16					
W36 - 8 - 40 - * E	1-1/2	40	34	0.7 - 16	0.7 - 16					
W36 - 9 - 50 - * E	2	50	50	0.7 - 16	0.7 - 16					

### 2 Way

#### STEAM / HIGH TEMP



Model	Function/ Port Size	Orifice CV		Pressure (Bar) Air & Fluid		Media Temperature		Material of Construction	Features	
		BSP	Ømm	CV	STEAM	OIL	STEAM			AIR/OIL
<b>Normally Closed · BRASS - Optional DIN IP65 Coil</b>										
B75 - 2 - 3 - * TF	N.C.	1/4	3	0.26	0-10	0-10	-10°C	-10°C	Body: Brass Seals: PTFE Operator: Stainless Steel Type H Coil IP55 Flying Lead HT Coil Standard Optional: DIN Plug	Steam (180°C) Air & Oil (200°C) High Temp. Piston Type. B75-2 9VA AC 8W DC B75-3 to B75-9 33VA AC 25W DC IP55
B75 - 2 - 5 - * TF		1/4	5	0.64	0-5	0-5				
B75 - 3 - 4 - * TF		3/8	4	0.58	0-7	0-7				
B75 - 4 - 15 - * TF		1/2	15	4.5	0.5-10	0.5-20				
B75 - 5 - 20 - * TF		3/4	20	9.3	0.5-10	0.5-20				
B75 - 6 - 25 - * TF		1	25	13.2	0.5-10	0.5-20				
B75 - 7 - 35 - * TF		1-1/4	35	26	0.5-10	0.5-20				
B75 - 8 - 35 - * TF	N.C.	1-1/2	35	26	0.5-10	0.5-20	180°C	200°C		
2" 20 Bar available in SS304 (S75 - 9 - 50 - * T)										

#### STEAM / HIGH TEMP



<b>Normally Closed · SS304 - Optional DIN IP65 Coil</b>											
S75 - 4 - 15 - * TF	N.C.	1/2	15	4.5	0.5-10	0.5-20	-10°C	-10°C	Body: 304SS Option: 316SS Seals: PTFE Operator: Stainless Steel Type H Coil IP55 Flying Lead HT Coil Standard Optional: DIN Plug	Steam (180°C) Air & Oil (200°C) High Temp. Piston Type. 33VA AC 25W DC Optional: High Temp. to 250°C IP55	
S75 - 5 - 20 - * TF		3/4	20	9.3	0.5-10	0.5-20					
S75 - 6 - 25 - * TF		1	25	13.2	0.5-10	0.5-20					
S75 - 7 - 35 - * TF		1-1/4	35	26	0.5-10	0.5-20					
S75 - 8 - 35 - * TF		1-1/2	35	26	0.5-10	0.5-20					
S75 - 9 - 50 - * TF	N.C.	2	50	48	0.5-10	0.5-20	180°C	200°C			
Flange option available on request											

#### 316 STAINLESS STEEL



<b>Normally Closed · SS316</b>											
SS75 - 4 - 15 - * TF	N.C.	1/2	15	4.5	0.5-10	0.5-20	-10°C	-10°C	Body: 316SS Seals: PTFE Operator: Stainless Steel Type H Coil IP55 Flying Lead HT Coil Standard Optional: DIN Plug	Steam (180°C) Air & Oil (200°C) High Temp. Piston Type. 33VA AC 25W DC IP55	
SS75 - 5 - 20 - * TF		3/4	20	9.3	0.5-10	0.5-20					
SS75 - 6 - 25 - * TF		1	25	13.2	0.5-10	0.5-20					
SS75 - 7 - 35 - * TF		1-1/4	35	26	0.5-10	0.5-20					
SS75 - 8 - 35 - * TF		1-1/2	35	26	0.5-10	0.5-20					
SS75 - 9 - 50 - * TF	N.C.	2	50	48	0.5-10	0.5-20	180°C	200°C			
Flange option available on request											

#### VERY HIGH TEMP



<b>Normally Closed · SS304</b>										
S75T - 4 - 15 - * TF	N.C.	1/2	15	4.5	0.5-25	0.5-25	-10°C	-10°C	Body: 304SS Seals: RTFE (PTFE + Metal) Operator: Stainless Steel Type H Coil IP55 Flying Lead HT Coil Standard Optional: DIN Plug	Steam (200°C) Air & Oil (250°C) High Temp. Piston Type. 33VA AC 25W DC IP55
S75T - 5 - 20 - * TF		3/4	20	9.3	0.5-25	0.5-25				
S75T - 6 - 25 - * TF		1	25	13.2	0.5-25	0.5-25				
S75T - 8 - 35 - * TF		1-1/2	35	26	0.5-25	0.5-25				
S75T - 9 - 50 - * TF	N.C.	2	50	48	0.5-25	0.5-25	225°C	225°C		

### High Pressure

#### AIR / FLUID

Series B55H

Brass  
Direct Acting  
Normally Closed

Model	Function/ Port Size BSP	Orifice Ømm	CV CV	Pressure (Bar) Air & Fluid		Vacuum Hg"	Media Temperature	Material of Construction	Features
				AC	DC				
<b>Normally Closed. BRASS</b>									
B55H - 2 - 1.2 * T	N.C.	1/4	1.2	0.07	0-150	0-105	27	-10°C  120°C	Body: Brass Seals: Teflon Viton 2-4/2-5  Air, Fluid & Vacuum Direct Acting Standard (E16H coil) -T 45VA AC 30W DC DIN Plug IP65  Optional (C3 coil) -TF 55VA AC 33W DC Flying Lead IP54
B55H - 2 - 1.6 * T			1.6	0.09	0-80	0-56			
B55H - 2 - 2 * T			2	0.11	0-60	0-42			
B55H - 2 - 3 * T			3	0.26	0-40	0-28			
B55H - 2 - 4 * V			4	0.58	0-20	0-14			
B55H - 2 - 5 * V	N.C.	1/4	5	0.64	0-15	0-10			

#### AIR / FLUID

Series S55H

316 ST/ST  
Direct Acting  
Normally Closed

Model	Function/ Port Size BSP	Orifice Ømm	CV CV	Pressure (Bar) Air & Fluid		Vacuum Hg"	Media Temperature	Material of Construction	Features
				AC	DC				
<b>Normally Closed. SS316</b>									
S55H - 2 - 1.2 * T	N.C.	1/4	1.2	0.07	0-150	0-105	27	-10°C  120°C	Body: 316 Stainless Steel. Seals: Teflon Viton 2-4/2-5  Air, Fluid & Vacuum Direct Acting Standard (E16H coil) -T 45VA AC 30W DC DIN Plug IP65  Optional (C3 coil) -TF 55VA AC 33W DC Flying Lead IP54
S55H - 2 - 1.6 * T			1.6	0.09	0-80	0-56			
S55H - 2 - 2 * T			2	0.11	0-60	0-42			
S55H - 2 - 3 * T			3	0.26	0-40	0-28			
S55H - 2 - 4 * V			4	0.58	0-20	0-14			
S55H - 2 - 5 * V	N.C.	1/4	5	0.64	0-15	0-10			

#### AIR / FLUID

Series B75H

Brass  
Differential  
Normally Closed

Model	Function/ Port Size BSP	Orifice Ømm	CV CV	Pressure (Bar) Air & Fluid		Vacuum Hg"	Media Temperature	Material of Construction	Features
				AC	DC				
<b>Normally Closed · BRASS</b>									
B75 - 4 - 15 * T	N.C.	1/2	15	4.5	0.5-20	0.5-20	N/A	-10°C  120°C	Body: Brass Seals: Teflon Operator: Stainless Steel  Air, Fluid High Press. Piston Type. DIN plug IP65
B75 - 5 - 20 * T		3/4	20	9.3	0.5-20	0.5-20			
B75 - 6 - 25 * T		1	25	13.2	0.5-20	0.5-20			
B75 - 7 - 35 * T		1 1/4	35	26	0.5-20	0.5-20			
B75 - 8 - 35 * T	N.C.	1 1/2	35	26	0.5-20	0.5-20			
<b>2" 20 Bar available in SS304 (S75 - 9 - 50 * T)</b>									
B75H - 4 - 15 * T	N.C.	1/2	15	4.5	0.5-40	0.5-40	N/A	-10°C  120°C	24.4VA AC 25W DC
B75H - 5 - 20 * T		3/4	20	9.3	0.5-40	0.5-40			
B75H - 6 - 25 * T		1	25	13.2	0.5-40	0.5-40			
B75H - 7 - 35 * T		1 1/4	35	26	0.5-40	0.5-40			
B75H - 8 - 35 * T		1 1/2	35	26	0.5-40	0.5-40			
B75H - 9 - 50 * T		2	50	48	0.5-40	0.5-40			
B75HH - 4 - 15 * T		1/2	15	4.5	0.5-80	0.5-80			
B75HH - 5 - 20 * T		3/4	20	9.3	0.5-80	0.5-80			
B75HH - 6 - 25 * T		1	25	13.2	0.5-80	0.5-80			
B75HH - 7 - 35 * T		1 1/4	35	26	0.5-80	0.5-80			
B75HH - 8 - 35 * T		1 1/2	35	26	0.5-80	0.5-80			
B75HH - 9 - 50 * T	N.C.	2	50	48	0.5-80	0.5-80			

#### AIR / FLUID

Series S75

304 St/St  
Differential  
Normally Closed

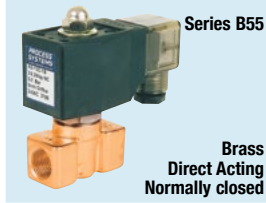
Model	Function/ Port Size BSP	Orifice Ømm	CV CV	Pressure (Bar) Air & Fluid		Vacuum Hg"	Media Temperature	Material of Construction	Features
				AC	DC				
<b>Normally Closed · SS304</b>									
S75 - 4 - 15 * T	N.C.	1/2	15	4.5	0.5-20	0.5-20	N/A	-10°C  180°C	Body: 304 SS Seals: Teflon Operator: Stainless Steel  Air, Fluid High Press. Piston Type. 24.4VA AC 25W DC IP65
S75 - 5 - 20 * T		3/4	20	9.3	0.5-20	0.5-20			
S75 - 6 - 25 * T		1	25	13.2	0.5-20	0.5-20			
S75 - 7 - 35 * T		1 1/4	35	26	0.5-20	0.5-20			
S75 - 8 - 40 * T		1 1/2	40	26	0.5-20	0.5-20			
S75 - 9 - 50 * T	N.C.	2	50	48	0.5-20	0.5-20			
Flange option available on request									

#### OTHER VALVES TO 150BAR AVAILABLE



### 2 Way

#### PETROCHEMICAL



Model	Function/ Port Size	Orifice CV		Pressure (Bar) Air & Fluid		Vacuum Hg"	Media Temperature	Material of Construction	Features	
		BSP	Ømm	CV	AC					DC
<b>Normally Closed · BRASS · Direct Acting</b>										
B55 - 2 - 3 - * V	N.C.	1/4	3	0.26	0-10	0-10	27	-10°C	<b>B55</b> Body: Brass Seals: Viton (std) PTFE EPDM Silicone	Air, Fluid & Vacuum Direct Acting. 15VA AC 12W DC Part #s B55-3 to B55-4 24.4VA AC 25W DC IP65
B55 - 2 - 4 - * V		1/4	4	0.58	0-7	0-7				
B55 - 2 - 5 - * V		1/4	5	0.64	0-5	0-5				
B55 - 3 - 4 - * V		3/8	4	0.58	0-10	0-10				
B55 - 3 - 6 - * V		3/8	6	0.79	0-5	0-5				
B55 - 3 - 8 - * V		3/8	8	0.97	0-2	0-2				
B55 - 4 - 6 - * V		1/2	6	0.79	0-5	0-5				
B55 - 4 - 8 - * V	N.C.	1/2	8	0.97	0-2	0-2				

#### PETROCHEMICAL



<b>Normally Closed · BRASS · Coupled Diaphragm</b>										
B55 - 4 - 15 - * V	N.C.	1/2	15	4.5	0-10	0-10	27	-10°C	<b>B55</b> Body: Brass Seals: Viton (std) Operator: Stainless Steel Optional: 0.6-16 BAR Optional: - Manual Override - Higher Pressure Range	Air, Fluid & Vacuum Optional: Explosion proof (See pages 7) 24.4VA AC 25W DC IP65
B55 - 5 - 20 - * V		3/4	20	9.3	0-10	0-10				
B55 - 6 - 25 - * V		1	25	13.2	0-10	0-10				
B55 - 7 - 35 - * V		1-1/4	35	26	0-10	0-10				
B55 - 8 - 35 - * V		1-1/2	35	26	0-10	0-10				
B55 - 9 - 50 - * V	N.C.	2	50	48	0-7	0-7				

#### PETROCHEMICAL



<b>Normally Open. BRASS</b>										
B56 - 2 - 3 - * V	N.O.	1/4	3	0.26	0-10	0-10	27	-10°C	<b>B56</b> Body: Brass Seals: Viton (std) Operator: Stainless Steel Optional: Part #s B56-3- -B56-9 15.4VA AC 12W DC IP65	Air & Fluid Normally Open. Direct and Differential Acting 24.4VA AC 25W DC 6A-8A
B56 - 2 - 4 - * V		1/4	4	0.58	0-6	0-6				
B56 - 2 - 5 - * V		1/4	5	0.64	0-4	0-4				
B56 - 3 - 4 - * V		3/8	4	0.58	0-6	0-6				
B56 - 3 - 6 - * V		3/8	6	0.79	0-2	0-2				
B56 - 4 - 6 - * V		1/2	6	0.79	0-2	0-2				
B56 - 4 - 15 - * V		1/2	15	4.5	0.5-10	0.5-10				
B56 - 5 - 20 - * V		3/4	20	9.3	0.5-10	0.5-10				
B56 - 6 - 25 - * V		1	25	13.2	0.5-10	0.5-10				
B56 - 7 - 35 - * V		1-1/4	35	26	0.5-10	0.5-10				
B56 - 8 - 35 - * V		1-1/2	35	26	0.5-10	0.5-10				
B56 - 9 - 50 - * V	N.O.	2	50	48	0.5-7	0.5-7				

#### PETROCHEMICAL / AGGRESSIVE FLUIDS · Normally Closed · SS316 - Direct Acting



<b>Normally Closed · SS316 - Direct Acting</b>										
S55 - 2 - 3 - * V	N.C.	1/4	3	0.26	0-10	0-10	27	-10°C	<b>S55</b> Body: 316 Stainless Steel Seals: Viton (std.) Silicone. PTFE EPDM Operator: Stainless Steel	Air, Fluid & Vacuum. Direct Acting 15VA AC 12W DC Part #s S55-3 to S55-4 24.4VA AC 25W DC IP65
S55 - 2 - 4 - * V		1/4	4	0.58	0-7	0-7				
S55 - 2 - 5 - * V		1/4	5	0.64	0-5	0-5				
S55 - 3 - 4 - * V		3/8	4	0.58	0-10	0-10				
S55 - 3 - 6 - * V		3/8	6	0.79	0-5	0-5				
S55 - 3 - 8 - * V		3/8	8	0.97	0-2	0-2				
S55 - 4 - 6 - * V		1/2	6	0.79	0-5	0-5				
S55 - 4 - 8 - * V	N.C.	1/2	8	0.97	0-2	0-2				

#### PETROCHEMICAL / AGGRESSIVE FLUIDS · Normally Closed · SS316 - Coupled Diaphragm



<b>Normally Closed · SS316 - Coupled Diaphragm</b>										
S55 - 4 - 15 - * V	N.C.	1/2	15	4.5	0-10	0-10	27	-10°C	<b>S55</b> Body: 316 Stainless Steel Seals: Viton (std.) Silicone. EPDM Operator: Stainless Steel Optional: - Manual Override - Higher Pressure Range	Air, Fluid & Vacuum. Zero Differential Optional: Explosion proof coils. (Page 7) 24.4VA AC 25W DC IP65
S55 - 5 - 20 - * V		3/4	20	9.3	0-10	0-10				
S55 - 6 - 25 - * V		1	25	13.2	0-10	0-10				
S55 - 7 - 35 - * V		1-1/4	35	26	0-10	0-10				
S55 - 8 - 35 - * V		1-1/2	35	26	0-10	0-10				
S55 - 9 - 50 - * V	N.C.	2	50	48	0-7	0-7				

#### PETROCHEMICAL / AGGRESSIVE FLUIDS · Normally Open · SS316



<b>Normally Open · SS316</b>										
S56 - 2 - 3 - * V	N.O.	1/4	3	0.26	0-10	0-10	27	-10°C	<b>S56</b> Body: 316 Stainless Steel Seals: Viton (std.) Silicone. PTFE Operator: Stainless Steel	Air, Fluid Normally Open. Direct & Differential Acting 24.4VA AC 25W DC Part #s S56-3 to S56-9 15.4VA AC 12W DC IP65
S56 - 2 - 4 - * V		1/4	4	0.58	0-6	0-6				
S56 - 2 - 5 - * V		1/4	5	0.64	0-4	0-4				
S56 - 3 - 4 - * V		3/8	4	0.58	0-6	0-6				
S56 - 3 - 6 - * V		3/8	6	0.79	0-2	0-2				
S56 - 4 - 6 - * V		1/2	6	0.79	0-2	0-2				
S56 - 4 - 15 - * V		1/2	15	4.5	0.5-10	0.5-10				
S56 - 5 - 20 - * V		3/4	20	9.3	0.5-10	0.5-10				
S56 - 6 - 25 - * V		1	25	13.2	0.5-10	0.5-10				
S56 - 7 - 35 - * V		1-1/4	35	26	0.5-10	0.5-10				
S56 - 8 - 35 - * V		1-1/2	35	26	0.5-10	0.5-10				
S56 - 9 - 50 - * V	N.O.	2	50	48	0.5-7	0.5-7				

### 2 Way



Model	Function/ Port Size	Orifice Ømm	CV CV	Pressure (Bar) Air & Fluid		Vacuum Hg"	Media Temperature	Material of Construction	Features		
				AC	DC						
<b>PETROCHEMICAL Normally Closed · BRASS · Direct Acting · Manual Override B55M</b>											
Series B55M	B55M - 4 - 15 - * V	N.C.	1/2	15	4.5	0-10	0-10	27	-10°C   100°C	Body: Brass Seals: Viton (std) Operator: Stainless Steel Maunual Override (T Bar Type)	Air, Fluid & Vacuum Optional: Explosion proof (See pages 7) 24.4VA AC 25W DC IP65
	B55M - 5 - 20 - * V		3/4	20	9.3	0-10	0-10				
	B55M - 6 - 25 - * V		1	25	13.2	0-10	0-10				
	B55M - 7 - 35 - * V		1-1/4	35	26	0-10	0-10				
	B55M - 8 - 35 - * V		1-1/2	35	26	0-10	0-10				
	B55M - 9 - 50 - * V	N.C.	2	50	48	0-7	0-7				
<b>Brass Zero Differential Normally Closed</b>											

Model	Function/ Port Size	Orifice Ømm	CV CV	Pressure (Bar) Air & Fluid		Vacuum Hg"	Media Temperature	Material of Construction	Features		
				AC	DC						
<b>PETROCHEMICAL / AGGRESSIVE FLUIDS · Normally Closed · SS316 - Coupled Diaphragm · Manual Override S55M</b>											
Series S55M	S55M - 4 - 15 - * V	N.C.	1/2	15	4.5	0-10	0-10	27	-10°C   100°C	Body: 316 Stainless Steel Seals: Viton (std.) Silicone. EPDM Operator: Stainless Steel Maunual Override (T Bar Type)	Air, Fluid & Vacuum. Zero Differential Optional: Explosion proof coils. (Page 7) 24.4VA AC 25W DC IP65
	S55M - 5 - 20 - * V		3/4	20	9.3	0-10	0-10				
	S55M - 6 - 25 - * V		1	25	13.2	0-10	0-10				
	S55M - 7 - 35 - * V		1-1/4	35	26	0-10	0-10				
	S55M - 8 - 35 - * V		1-1/2	35	26	0-10	0-10				
	S55M - 9 - 50 - * V	N.C.	2	50	48	0-7	0-7				
<b>316 St/St Zero Differential Normally Closed</b>											
Flanged available											

## Solenoid Valves - 2/2 Way

Explosive Atmospheres  
Explosive Dust Environments  
Ex e Mb IIC T4 Gb and Ex tb mb IIIC T130°C Db

### Ex

Model	Function/ Port Size	Orifice Ømm	CV CV	Pressure (Bar) Air & Fluid		Vacuum Hg"	Media Temperature	Material of Construction	Features		
				AC	DC						
<b>AIR / FLUID / PETROCHEMICAL Normally Closed · BRASS B55 Ex</b>											
Series B55EX 	B55EX - 3 - 4 - * V	N.C.	3/8	4	0.58	0-10	0-10	27	-10°C   40°C	Body: Brass Seals Viton (std) EPDM Silicone PTFE (Models 3-4 to 4-8) 220-240v 50/60Hz, 220v DC 110-120v 50/60Hz, 110v DC 24v 50Hz, 24v DC Manual Override Optional	Air, Fluid Vacuum Zero Differential. Vacuum. Low pressure & Tank Drain IP65 ICEX PTB 15.0015 X ATEX 2027X PTB 11 100% ED -40°C to +60°C
	B55EX - 3 - 6 - * V		3/8	6	0.79	0-5	0-5				
	B55EX - 3 - 8 - * V		3/8	8	0.97	0-2	0-2				
	B55EX - 4 - 6 - * V		1/2	6	0.79	0-5	0-5				
	B55EX - 4 - 8 - * V		1/2	8	0.97	0-2	0-2				
	B55EX - 4 - 15 - * V		1/2	15	4.5	0-10	0-10				
	B55EX - 5 - 20 - * V		3/4	20	9.3	0-10	0-10				
	B55EX - 6 - 25 - * V		1	25	13.2	0-10	0-10				
	B55EX - 7 - 35 - * V		1 1/4	35	26	0-10	0-10				
	B55EX - 8 - 35 - * V		1 1/2	35	26	0-10	0-10				
	B55EX - 9 - 50 - * V	N.C.	2	50	48	0-7	0-7				
	<b>AIR / FLUID / PETROCHEMICAL Normally Closed · SS316 S55 Ex</b>										
Series S55EX 	S55EX - 3 - 4 - * V	N.C.	3/8	4	0.58	0-10	0-10	27	-10°C   40°C	316SS Body Seals Viton (std) Silicone EPDM PTFE (Models 3-4 to 4-8) 220-240v 50/60Hz, 220v DC 110-120v 50/60Hz, 110v DC 24v 50Hz, 24v DC Manual Override Optional	Air, Fluid Vacuum Zero Differential. Vacuum. Low pressure & Tank Drain IP65 ICEX PTB 15.0015 X ATEX 2027X PTB 11 100% ED -40°C to +60°C
	S55EX - 3 - 6 - * V		3/8	6	0.79	0-5	0-5				
	S55EX - 3 - 8 - * V		3/8	8	0.97	0-2	0-2				
	S55EX - 4 - 6 - * V		1/2	6	0.79	0-5	0-5				
	S55EX - 4 - 8 - * V		1/2	8	0.97	0-2	0-2				
	S55EX - 4 - 15 - * V		1/2	15	4.5	0-10	0-10				
	S55EX - 5 - 20 - * V		3/4	20	9.3	0-10	0-10				
	S55EX - 6 - 25 - * V		1	25	13.2	0-10	0-10				
	S55EX - 7 - 35 - * V		1 1/4	35	26	0-10	0-10				
	S55EX - 8 - 35 - * V		1 1/2	35	26	0-10	0-10				
	S55EX - 9 - 50 - * V	N.C.	2	50	48	0-7	0-7				
	Flange option available on request										

Copy of certification can be downloaded from website... [www.valvesonline.com.au](http://www.valvesonline.com.au)

## Air / Fluid 2-3 Way

### AIR / FLUID



Model	Function/ Port Size BSP	Orifice CV		Pressure (Bar) Air & Fluid		Vacuum Hg"	Media Temperature	Material of Construction	Features
		Ømm	CV	AC	DC				
<b>Normally Closed · GR NYLON P55</b>									
P55 - 4 - 16 - *V	N.C.	1/2	16	0-6	0-6	27	5°C   65°C	Body: Glass Reinforced Nylon	Air & Fluid.  33VA AC 20W DC  IP65
P55 - 5 - 20 - *V	I	3/4	20	0-6	0-6				
P55 - 6 - 25 - *V	N.C.	1	25	0-6	0-6				

### AIR



<b>3/2 Way Normally Closed · Manual Override · ZINC Z17</b>										
Z17 - 1 - 1 - * NM	N.C.	1/8	1.0	0.04	0-10	0-10	27	5°C - 80°C	Body: Zinc Diecast Seals: NBR  Operator: Stainless Steel	Air Manifold up to 10 Valves Manual Override 6VA AC 5W DC IP65

### AIR / FLUID



<b>3/2 Way Normally Closed / Normally Open · SS304 ES57-58</b>										
ES57 - 2 - 1.5 - * V	N.C.	1/4	1.6	0.20	0-13	0-13	27	-10°C   100°C	Body: 304 Stainless Steel.  Seals: Viton  Operator: Stainless Steel	Air, Fluid Vacuum.  Direct Acting.  11VA AC 15W DC  IP65
ES58 - 2 - 1.5 - * V	N.O.	1/4	1.6	0.20	0-13	0-13	27			

### AIR / FLUID



<b>3/2 Way Normally Closed / Normally Open · SS304 · Manual Override S27-28</b>										
<b>MANUAL OVERRIDE</b>										
S27 - 2 - 1.6 - * VM	N.C.	1/4	1.6	0.20	0-13	0-13	27	-10°C   100°C	Body: 304 Stainless Steel.  Seals: Viton  Operator: Stainless Steel	Air, Fluid Vacuum.  Direct Acting. Manual Override  11VA AC 15W DC  IP65
S28 - 2 - 1.6 - * VM	N.O.	1/4	1.6	0.20	0-13	0-13	27			

### AIR / HIGH PRESSURE



<b>3/2 Way Normally Closed - Manual Override · ALUMINIUM · High Flow A67</b>										
A67 - 2 - 8 - * N	N.C.	1/4	8		1.5-24	0.5-24	—	-5°C	Body: Aluminium  Seals: NBR  Operator: Stainless Steel	Air High Flow Manual Override  High Pressure.  20VA AC 21W DC  IP65
A67 - 4 - 15 - * N	N.C.	1/2	12		1.5-24	0.5-24	—	80°C		

**Air**  
**5 Way**

Model	Function/ Port Size BSP	Orifice/CV		Pressure (Bar) Air & Fluid		Description	Media Temperature	Material of Construction	Features
		Ømm	CV	AC	DC				

**AIR**

**5/2 Solenoid / Spring • ALUMINIUM A69**



A69 - 1 - 5 - *N	5/2	1/8	5	0.67	1.5-8	1.5-8	5/2 Way Solenoid Operated - Spring Return	5°C   80°C	Aluminium Body & Spool. POM Ends.  Seals: NBR.  Operator: Brass & Stainless Steel	Air  Manual Override. Lockable High Flow  6VA AC 5W DC  IP65
A69 - 2 - 7 - *N	5/2	1/4	7	2	1.5-8	1.5-8				
A69 - 3 - 7 - *N	5/2	3/8	7	2	1.5-8	1.5-8				
A69 - 4 - 8 - *N	5/2	1/2	8	2.8	1.5-8	1.5-8				

**AIR**

**5/2 Solenoid / Solenoid • ALUMINIUM A610**



A610 - 1 - 5 - *N	5/2	1/8	5	0.67	1.5-8	1.5-8	5/2 Way Double Solenoid	5°C   80°C	Aluminium Body & Spool. POM Ends.  Seals: NBR.  Operator: Brass & Stainless Steel	Air  Manual Override. Lockable High Flow  6VA AC 5W DC  IP65
A610 - 2 - 7 - *N	5/2	1/4	7	2	1.5-8	1.5-8				
A610 - 3 - 7 - *N	5/2	3/8	7	2	1.5-8	1.5-8				
A610 - 4 - 8 - *N	5/2	1/2	8	2.8	1.5-8	1.5-8				

**AIR**

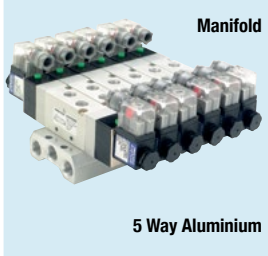
**5/3 Solenoid / Solenoid • Closed Centre • ALUMINIUM A611**



A611 - 2 - 7 - *N	5/3	1/4	7	2	1.5-8	1.5-8	5/3 Way Closed centre	5°C   80°C	Aluminium Body & Spool. POM Ends.  Seals: NBR.  Operator: Brass & Stainless Steel	Air  Manual Override. Lockable High Flow  6VA AC 5W DC  IP65
A611 - 3 - 7 - *N	5/3	3/8	7	2	1.5-8	1.5-8				
A611 - 4 - 8 - *N	5/3	1/2	8	2.8	1.5-8	1.5-8				
Optional Open Centre A612-2-7-*N	5/3	1/4	7	2	1.5-8	1.5-8				
A612-4-8-*N	5/3	1/2	8	2.8	1.5-8	1.5-8				

**AIR**

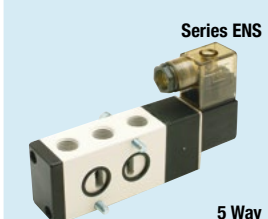
**Manifold. ALUMINIUM SM**



EXAMPLE SM02 - 01 SM03 - 02 SM03 - 03 SM03 - 04	2 station 1/8" BSP 3 station 1/4" BSP 3 station 3/8" BSP 4 station 1/2" BSP	STATIONS 2-12 Any type or valve style 5/2 way or 5/3 way can be manifolded.				Extruded Aluminium	
BP Valve port size 1/8" = 01 1/4" = 02 3/8" = 03 1/2" = 04	Blanking Plate	Also mixed solenoid/spring & double solenoid can be mounted on the one manifold.  Specials: - Up to 15 stations					

**AIR**

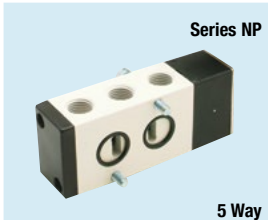
**5/2 NAMUR Solenoid / Spring • Manual Override. ALUMINIUM ENS**



ENS12*5 Solenoid/Spring	1/4	5	1.4	1.5-8	1.5-8	Solenoid/ Spring Return	5°C   80°C	Body & Spool: Aluminium POM Ends. Seals: NBR	Air  Manual Override. Lockable High Flow  6VA AC 5W DC  IP65
END12*5 Solenoid/Solenoid	1/4	5	1.4	1.5-8	1.5-8	Solenoid/ Solenoid			
Optional 3/2 Converter Plate									

**AIR**

**5/2 Air Pilot. NAMUR • ALUMINIUM ANP**



ANPS - 2 - 5 - N	1/4	5	1.4	1.5-8	1.5-8	Pilot/Spr.	5°C   80°C	Body & Spool: Aluminium POM Ends. Seals: NBR	Air  IP65
ANPP - 2 - 5 - N	1/4	5	1.4	1.5-8	1.5-8	Pilot/Pilot			
Optional 3/2 Converter Plate ENSAP 3-2									



Model	Function/ Port Size		Orifice CV		Pressure (Bar) Air & Fluid		Vacuum Hg"	Media Temperature	Material of Construction	Features
	BSP	Ømm	CV	AC	DC					

**AIR**
**3/2, 5/2 NAMUR Solenoid / Spring • Manual Override • Aluminium Body ALV**


ALV510F3 - C5 - * Ex	3/2 5/2	1/4	6	1.1	2-8	2-8	-	-10°C   +60°C	Body & Housing: Aluminium Seats: NBR 220-240v 50/60Hz 110-120v 50/60Hz 24v DC 4VA 2.5W	NAMUR Ex d IIC T6 IEC Ex CQM 12.022X IP66 M20 x 1.5 Gland
Converter Plate Included 3/2 + 5/2    Optional: Ex NEPSI Intrinsically Safe										

**AIR**
**3/2, 5/2 NAMUR Solenoid / Solenoid • Manual Override • Aluminium Body ALV**


ALV520F3 - C5 - * Ex	3/2 5/2	1/4	6	1.1	2-8	2-8	-	-10°C   +60°C	Body & Housing: Aluminium Seats: NBR 220-240v 50/60Hz 110-120v 50/60Hz 24v DC 4VA 2.5W	NAMUR Ex d IIC T6 IEC Ex CQM 12.022X IP66 M20 x 1.5 Gland
Converter Plate Included 3/2 + 5/2    Optional: Ex NEPSI Intrinsically Safe										

**AIR**
**3/2, 5/2 NAMUR Solenoid / Spring • Manual Override • SS316 Body ALV**


ALV610F3 - C4 - * Ex	3/2 5/2	1/4	6	1.1	2-8	2-8	-	-10°C   +60°C	Body & Housing: SS316 Seats: NBR 220-240v 50/60Hz 110-120v 50/60Hz 24v DC 4VA 2.5W	NAMUR Ex d IIC T6 IEC Ex CQM 12.022X IP66 M20 x 1.5 Gland
Converter Plate Included 3/2 + 5/2    Optional: Ex NEPSI Intrinsically Safe										

**AIR**
**3/2, 5/2 NAMUR Solenoid / Solenoid • Manual Override • SS316 Body ALV**


ALV620F3 - C4 - * Ex	3/2 5/2	1/4	6	1.1	2-8	2-8	-	-10°C   +60°C	Body & Housing: SS316 Seats: NBR 220-240v 50/60Hz 110-120v 50/60Hz 24v DC 4VA 2.5W	NAMUR Ex d IIC T6 IEC Ex CQM 12.022X IP66 M20 x 1.5 Gland
Converter Plate Included 3/2 + 5/2    Optional: Ex NEPSI Intrinsically Safe										

**AIR**
**5/2 IN-LINE Solenoid / Spring • Manual Override • Aluminium Body ALV**

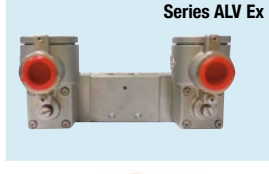

ALV510P2 - C5 - * Ex	5/2	1/4	6	1.1	2-8	2-8	-	-10°C   +60°C	Body & Housing: Aluminium Seats: NBR 220-240v 50/60Hz 110-120v 50/60Hz 24v DC 4VA 2.5W	Body Ported Ex d IIC T6 IEC Ex CQM 12.022X IP66 M20 x 1.5 Gland
Optional: Ex NEPSI Intrinsically Safe										

**AIR**
**5/2 IN-LINE Solenoid / Solenoid • Manual Override • Aluminium Body ALV**


ALV520P2 - C5 - * Ex	5/2	1/4	6	1.1	2-8	2-8	-	-10°C   +60°C	Body & Housing: Aluminium Seats: NBR 220-240v 50/60Hz 110-120v 50/60Hz 24v DC 4VA 2.5W	Body Ported Ex d IIC T6 IEC Ex CQM 12.022X IP66 M20 x 1.5 Gland
Optional: Ex NEPSI Intrinsically Safe										

**AIR**
**5/2 IN-LINE Solenoid / Spring • Manual Override • SS316 Body ALV**


ALV610P2 - C4 - * Ex	5/2	1/4	6	1.1	2-8	2-8	-	-10°C   +60°C	Body & Housing: SS316 Seats: NBR 220-240v 50/60Hz 110-120v 50/60Hz 24v DC 4VA 2.5W	Body Ported Ex d IIC T6 IEC Ex CQM 12.022X IP66 M20 x 1.5 Gland
Optional: Ex NEPSI Intrinsically Safe										

**AIR**
**5/2 IN-LINE Solenoid / Solenoid • Manual Override • SS316 Body ALV**


ALV620P2 - C4 - * Ex	5/2	1/4	6	1.1	2-8	2-8	-	-10°C   +60°C	Body & Housing: SS316 Seats: NBR 220-240v 50/60Hz 110-120v 50/60Hz 24v DC 4VA 2.5W	Body Ported Ex d IIC T6 IEC Ex CQM 12.022X IP66 M20 x 1.5 Gland
Optional: Ex NEPSI Intrinsically Safe										

PVC		Model	Orifice Ømm	Port Size BSP	Actuator	Media Pressure	Media Temperature	Actuator Air Pressure /Voltage	Material of Construction	Features	
<b>AIR / FLUID / AQUACULTURE Manual Handle · PVC</b>										<b>BLP</b>	
<p>Series BLP PVC Body</p>	BLP4B - L - E	15	1/2	Manual Handle	Vacuum	Ambient	MANUAL HANDLE	UPVC Body (std.) (Also PP & PVDF)	True Union with Safety Block.		
	BLP5B - L - E	20	3/4								
	BLP6B - L - E	25	1								
	BLP7B - L - E	32	1-1/4								
	BLP8B - L - E	40	1-1/2								
	BLP9B - L - E	50	2								
	BLP10B - L - E	65	2-1/2								
	BLP11B - L - E	80	3								
BLP12B - L - E	100	4	10 BAR	Ambient	PTFE Seats	Threaded OR Solvent Weld					
• B = BSP • S = Solvent Weld • F = Flanged											
<b>AIR / FLUID / AQUACULTURE Double Acting Pneumatic · PVC</b>										<b>BLPDA</b>	
<p>Series BLP Double Acting PVC Body</p>	BLP4B - DA - E	15	1/2	DA50	Vacuum	Ambient	6-8 BAR	UPVC Body (std.) (Also PP & PVDF)	True Union with Safety Block. Stainless Steel Adaptor and Yoke.		
	BLP5B - DA - E	20	3/4	DA50							
	BLP6B - DA - E	25	1	DA50							
	BLP7B - DA - E	32	1-1/4	DA63							
	BLP8B - DA - E	40	1-1/2	DA63							
	BLP9B - DA - E	50	2	DA63							
	BLP10B - DA - E	65	2-1/2	DA75							
	BLP11B - DA - E	80	3	DA75							
BLP12B - DA - E	100	4	DA75	10 BAR	Ambient	6-8 BAR Air Pressure	PTFE Seats	BSP or Solvent Weld Actuator			
Viton available, change 'E' to 'V' • B = BSP • S = Solvent Weld • F = Flanged											
<b>AIR / FLUID / AQUACULTURE Spring Return Pneumatic · PVC</b>										<b>BLPSR</b>	
<p>Series BLP Single Acting PVC Body</p>	BLP54B - SR - E	15	1/2	SR50	Vacuum	Ambient	6-8 BAR	UPVC Body (std.) (Also PP & PVDF)	True Union with Safety Block. Stainless Steel Adaptor and Yoke.		
	BLP55B - SR - E	20	3/4	SR50							
	BLP56B - SR - E	25	1	SR50							
	BLP57B - SR - E	32	1-1/4	SR63							
	BLP58B - SR - E	40	1-1/2	SR63							
	BLP59B - SR - E	50	2	SR75							
	BLP510B - SR - E	65	2-1/2	SR75							
	BLP511B - SR - E	80	3	SR88							
BLP512B - SR - E	100	4	SR88	10 BAR	Ambient	6-8 BAR Air Pressure	PTFE Seats	BSP or Solvent Weld Actuator			
For normally open function change 4th digit to 6 • B = BSP • S = Solvent Weld • F = Flanged											
<b>AIR / FLUID / AQUACULTURE Electric On/Off · PVC</b>										<b>BLPE</b>	
<p>Series BLP Electric Actuated PVC Body</p>	BLP4B - E* - E	15	1/2	OM-1	VACUUM	Ambient	E1=240VAC E2=110VAC E5=24VAC E7=12VDC E8=24VDC E11=415V	UPVC Body (std.) (Also PP & PVDF)	True Union with Safety Block. Stainless Steel Adaptor and Yoke.		
	BLP5B - E* - E	20	3/4	OM-1							
	BLP6B - E* - E	25	1	OM-1							
	BLP7B - E* - E	32	1-1/4	OM-1							
	BLP8B - E* - E	40	1-1/2	OM-1							
	BLP9B - E* - E	50	2	OM-1							
	BLP10B - E* - E	65	2-1/2	OM-A							
	BLP11B - E* - E	80	3	OM-A							
BLP12B - E* - E	100	4	OM-A	10 BAR	Ambient	IP67	PTFE Seats	Actuator - see Series 'OM' for details P27.			
• B = BSP • S = Solvent Weld • F = Flanged											
<b>AIR / FLUID / AQUACULTURE Manual / Pneumatic / Electric · Flange · PVC</b>										<b>BLPF</b>	
<p>Series BLPF Flange PVC Body</p>	BLP6F - L - E	25	ANSI 150 FLANGE	MANUAL LEVER PNEUMATIC DA / SR ELECTRIC	Vacuum	Ambient	10 BAR	UPVC Body (std.) (Also PP & PVDF)	True Union with Safety Block.		
	BLP7F - L - E	32									
	BLP8F - L - E	40									
	BLP9F - L - E	50									
	BLP10F - L - E	65									
	BLP11F - L - E	80									
	BLP12F - L - E	100								PTFE Seats	Flange - ANSI
	O-rings EPDM (Std) Viton Actuation Optional Pneumatic, Electric, Lever & Gear Box										


VITON FKM Optional for all Ball Valve O-Rings (Replace 'E' for 'V' in code)  
 BFP PVC Butterfly Valve See Page 21  
 BCP PVC Check Valve See Page 35  
 YSP PVC Y Strainer See Page 37

## PVC

Model	Orifice Ømm	Port Size BSP	Actuator	Media Pressure	Media Temperature	Actuator Air Pressure /Voltage	Material of Construction	Features
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### AIR / FLUID / AQUACULTURE 3 Way · Manual · PVC

### BLP3

 <p>Series BLP 3 Way  Manual 'L' or 'T' Port PVC Body</p>	BLP3L4B - L - E	15	1/2	MANUAL LEVER	Vacuum	Ambient	6-8 BAR	UPVC Body PTFE Seats O-rings EPDM (Std)	True Union St.St. Adaptor and Yoke. BSP or Solvent Weld.		
	BLP3L5B - L - E	20	3/4		10 BAR	Ambient	6-8 BAR			FKM Optional Threaded, Solvent Weld	Manual Lever  FKM Optional
	BLP3L6B - L - E	25	1								
	BLP3L7B - L - E	32	1-1/4								
	BLP3L8B - L - E	40	1-1/2								
	BLP3L9B - L - E	50	2								
3L = 'L' Port • 3T = 'T' Port • B = BSP • S = Solvent Weld • V = FKM											


### AIR / FLUID / AQUACULTURE 3 Way · Double Acting · PVC

### BLPDA

 <p>Series BLP 3 Way  Double Acting 'L' or 'T' Port PVC Body</p>	BLP3L4B - DA - E	15	1/2	DA50	Vacuum	Ambient	6-8 BAR	UPVC Body PTFE Seats O-rings EPDM	True Union St.St. Adaptor and Yoke. BSP or Solvent Weld. Double Acting Pneumatic Actuated		
	BLP3L5B - DA - E	20	3/4	DA50	10 BAR	Ambient	6-8 BAR			FKM Optional Threaded, Solvent Weld	FKM Optional
	BLP3L6B - DA - E	25	1	DA50							
	BLP3L7B - DA - E	32	1-1/4	DA50							
	BLP3L8B - DA - E	40	1-1/2	DA63							
	BLP3L9B - DA - E	50	2	DA63							
3L = 'L' Port • 3T = 'T' Port • B = BSP • S = Solvent Weld											


### AIR / FLUID / AQUACULTURE 3 Way · Spring Return · PVC

### BLPSR

 <p>Series BLP 3 Way  Single Acting 'L' or 'T' Port PVC Body</p>	BLP3L4B - SR - E	15	1/2	SR50	Vacuum	Ambient	6-8 BAR	UPVC Body PTFE Seats O-rings EPDM	True Union St.St. Adaptor and Yoke. BSP or Solvent Weld. Spring Return Pneumatic Actuated		
	BLP3L5B - SR - E	20	3/4	SR50	10 BAR	Ambient	6-8 BAR			FKM Optional Threaded, Solvent Weld	FKM Optional
	BLP3L6B - SR - E	25	1	SR50							
	BLP3L7B - SR - E	32	1-1/4	SR50							
	BLP3L8B - SR - E	40	1-1/2	SR75							
	BLP3L9B - SR - E	50	2	SR75							
3L = 'L' Port • 3T = 'T' Port • B = BSP • S = Solvent Weld											

### AIR / FLUID / AQUACULTURE 3 Way · Electric On/Off · PVC

### BLPE

 <p>Series BLP 3 Way  Electric Actuated 'L' or 'T' Port PVC Body</p>	BLP3L4B - E* - E	15	1/2	OM-1	VACUUM	Ambient	E1=240VAC	UPVC Body (std.) (Also PP & PVDF)	True Union with Safety Block. Stainless Steel Adaptor and Yoke. Actuator - see Series 'OM' for details. BSP or Solvent Weld		
	BLP3L5B - E* - E	20	3/4	OM-1	10 BAR	Ambient	E2=110VAC			PTFE Seats	IP67
	BLP3L6B - E* - E	25	1	OM-1			E5=24VAC				
	BLP3L7B - E* - E	32	1-1/4	OM-1			E7=12VDC				
	BLP3L8B - E* - E	40	1-1/2	OM-A			E8=24VDC	FKM Optional Threaded, Solvent Weld	FKM Optional		
	BLP3L9B - E* - E	50	2	OM-A			E11=415V				
• B = BSP • S = Solvent Weld • F = Flanged											
Available in Viton											

VITON FKM Optional for all Ball Valve O-Rings (Replace 'E' for 'V' in code)

BFP	PVC	Butterfly Valve	See Page 21
BCP	PVC	Check Valve	See Page 35
YSP	PVC	Y Strainer	See Page 37

### BRASS 2pc Nickle Plated

AIR / FLUID



Model	Orifice Ømm	Port Size BSP	Actuator	Media Pressure	Media Temperature	Material of Construction	Features
<b>Lever · NP Brass</b>							
BVB2B - L - T	8	1/4	Lever	16 BAR	-20°C	Body: 2 piece Brass. BSP Threaded. Seats: PTFE	Lever * Not lockable
BVB3B - L - T	10	3/8	   	   	   		
BVB4B - L - T	15	1/2					
BVB5B - L - T	20	3/4					
BVB6B - L - T	25	1					
BVB7B - L - T	32	1-1/4					
BVB8B - L - T	40	1-1/2					
BVB9B - L - T	50	2	Lever	16 BAR	120°C		
BVB10B - L - T							
BVB11B - L - T							
BVB12B - L - T							

AIR / FLUID



Model	Orifice Ømm	Port Size BSP	Actuator	Media Pressure	Media Temperature	Material of Construction	Features
<b>Handle · NP Brass</b>							
MBVM - 02	8	1/4		Vacuum	0°C	Body: 2 Piece Chrome Plated Brass	Handle
MBVM - 03	8	3/8	HANDLE	16 BAR	80°C		
MBVM - 04	10	1/2					

AIR / FLUID



Model	Orifice Ømm	Port Size NPT	Actuator	Media Pressure	Media Temperature	Material of Construction	Features
<b>Handle · NP Brass</b>							
MBVF - 02	8	1/4		Vacuum	0°C	Body: 2 Piece Chrome Plated Brass	Handle
MBVF - 03	8	3/8	HANDLE	16 BAR	80°C		
MBVF - 04	10	1/2					

### BLACK 2pc Forged Steel

AIR / STEAM



Model	Orifice Ømm	Port Size NPT	Actuator	Media Pressure	Media Temperature	Material of Construction	Features	
<b>Lever · Forged Steel · Class 800 · NPT</b>								
BVF8 - 04	15	1/2	Lever	13.62Mpa @ -29 to 35 deg C	180 deg C @ (1.0Mpa)	Body: Forged Steel Seat: PTFE Gland: RPTE Coating: Black Steel	A105 Forged Steel ASTM B16.34 design ASME B1.20.1 ends API 598 test Class 800 NPT Thread	
BVF8 - 05	20	3/4	   					
BVF8 - 06	25	1						
BVF8 - 07	32	1-1/4						
BVF8 - 08	40	1-1/2						
BVF8 - 09	50	2						Lever

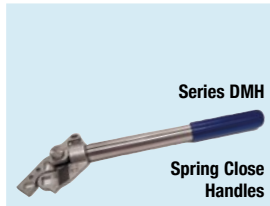
### SS316

AIR / FLUID



Model	Orifice Ømm	Port Size BSP	Actuator	Media Pressure	Media Temperature	Material of Construction	Features
<b>Lever. Lockable. 2 Piece · SS316</b>							
BVS2B - L - T	8	1/4	Lever	63 BAR	-20°C	Body: 2 piece 316 Stainless Steel. BSP Threaded. Seats: R PTFE	Lockable Lever API 598 Test W <sup>TM</sup> Watermark WMK26528
BVS3B - L - T	10	3/8	   				
BVS4B - L - T	15	1/2					
BVS5B - L - T	20	3/4					
BVS6B - L - T	25	1					
BVS7B - L - T	32	1-1/4					
BVS8B - L - T	40	1-1/2					
BVS9B - L - T	50	2	Lever				
BVS10B - L - T	65	2-1/2					
BVS11B - L - T	80	3					
BVS12B - L - T	100	4					

AIR / FLUID / STEAM / PETROCHEMICAL · Dead Man Handles



Kit Model	Valve Sizes	BLS	BLSF	Material of Construction	Features
DMH - 04	1/2"	✓	✓	SS316	Direct Mount Kit. Adjustable Spring Tension By Handle Nut.
DMH - 06	3/4" & 1"	✓	✓		
DMH - 08	1-1/4", 1-1/2" & 2"	✓	✓		
DMH - 11	2-1/2"-3"	✓	✓		
Handles c/w Mounting Kit and Internal Spring		See next page (Page 14)			



### SS316 3pc Threaded

Model	Orifice Ømm	Port Size BSP	Actuator	Media Pressure	Media Temperature	Actuator Air Pressure /Voltage	Material of Construction	Features
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#### AIR / FLUID / STEAM / PETROCHEMICAL

#### Lever · Lockable · SS316

#### BLS



BLS2B - L - RT	8	1/4	Lever	63 BAR W.O.G.	-20°C	□ Shaft 9mm	Body: 3 pce 316 Stainless Steel BSP Threaded. Seats: Filled PTFE = RT	Direct Mount. High Pad Self Adjusting Stem Packing API 598 Test Lockable Lever Also available with Gear Box. See page 29 W <sup>TM</sup> Watermark WMK26529
BLS3B - L - RT	10	3/8	Lever	Vacuum	180°C			
BLS4B - L - RT	15	1/2						
BLS5B - L - RT	20	3/4						
BLS6B - L - RT	25	1						
BLS7B - L - RT	32	1-1/4	Lever	10 BAR Steam	180°C	14mm	Also available with Gear Box. See page 29 W <sup>TM</sup> Watermark WMK26529	
BLS8B - L - RT	40	1-1/2						
BLS9B - L - RT	50	2	Lever	10 BAR Steam	180°C	17mm	Also available with Gear Box. See page 29 W <sup>TM</sup> Watermark WMK26529	
BLS10B - L - RT	63	2-1/2						
BLS11B - L - RT	80	3						
BLS12B - L - RT	100	4						

Optional: NPT Threaded · Butt Weld · Socket Weld Ends · Spring Close Lever · 50/50 Seats 200°C · Tri Clover Ends 'Dead Man' Handle Optional up to 3"

#### AIR / FLUID / STEAM / PETROCHEMICAL

#### Gear Box · SS316

#### BLS + GB



BLS4B - G - RT	15	1/2	GB1	63 BAR W.O.G.	-20°C	Gearbox	Body: 316 Stainless Steel	Compact Design API 598 Test Gear Box SS Trim Visual Indicator W <sup>TM</sup> Watermark WMK26529 Tri Clover Ends
BLS5B - G - RT	20	3/4	GB1	Vacuum	180°C			
BLS6B - G - RT	25	1	GB1					
BLS7B - G - RT	32	1-1/4	GB1					
BLS8B - G - RT	32	1-1/2	GB1					
BLS9B - G - RT	40	2	GB1					
BLS10B - G - RT	50	2-1/2	GB2					
BLS11B - G - RT	65	3	GB2					
BLS12B - G - RT	75	4	GB2					

See Page 29 for Gear Box Specifications

#### AIR / FLUID / STEAM / PETROCHEMICAL

#### Double Acting Pneumatic · SS316

#### BLSDA



BLS2B - DA - RT	8	1/4	DA50	63 BAR W.O.G.	-20°C	6-8 BAR	Body: 3 pce 316 Stainless Steel BSP Threaded. Seats: Filled PTFE = RT	Direct Mount. High Pad Self Adjusting Stem Packing API 598 Test Actuator-std. aluminium. Optional Stainless Steel W <sup>TM</sup> Watermark WMK26529
BLS3B - DA - RT	10	3/8	DA50	Vacuum	180°C			
BLS4B - DA - RT	15	1/2	DA50					
BLS5B - DA - RT	20	3/4	DA50					
BLS6B - DA - RT	25	1	DA50					
BLS7B - DA - RT	32	1-1/4	DA63					
BLS8B - DA - RT	40	1-1/2	DA63					
BLS9B - DA - RT	50	2	DA75					
BLS10B - DA - RT	63	2-1/2	DA88					
BLS11B - DA - RT	80	3	DA100					
BLS12B - DA - RT	100	4	DA115 *					

Optional: NPT Threaded · Butt Weld · Socket Weld Ends · 50/50 Seats 200°C · Tri Clover Ends

Optional De-Clutch Unit. See page 29

#### AIR / FLUID / STEAM / PETROCHEMICAL

#### Spring Return Pneumatic · SS316

#### BLSSR



BLS2B - SR - RT	8	1/4	SR50	63 BAR W.O.G.	-20°C	6-8 BAR	Body: 3 pce 316 Stainless Steel BSP Threaded. Seats: Filled PTFE = RT	Direct Mount. High Pad Self Adjusting Stem Packing API 598 Test Actuator-std. aluminium. Optional Stainless Steel W <sup>TM</sup> Watermark WMK26529
BLS3B - SR - RT	10	3/8	SR50	Vacuum	180°C			
BLS4B - SR - RT	15	1/2	SR50					
BLS5B - SR - RT	20	3/4	SR50					
BLS6B - SR - RT	25	1	SR63					
BLS7B - SR - RT	32	1-1/4	SR75					
BLS8B - SR - RT	40	1-1/2	SR75					
BLS9B - SR - RT	50	2	SR88					
BLS10B - SR - RT	63	2-1/2	SR100					
BLS11B - SR - RT	80	3	SR115					
BLS12B - SR - RT	100	4	SR125 *					

Optional: NPT Threaded · Butt Weld · Socket Weld Ends · 50/50 Seats 200°C · Tri Clover Ends For normally open function change 4th digit to 6

Optional De-Clutch Unit. See page 29

#### AIR / FLUID / STEAM / PETROCHEMICAL

#### Electric On/Off · SS316

#### BLSE



BLS2B - E* - RT	8	1/4	OM-1	63 BAR W.O.G.	-20°C	E1=240VAC E2=110VAC E5=24VAC E7=12VDC E8=24VDC E11=415VAC	Body: 3 pce 316 Stainless Steel BSP Threaded. Seats: Filled PTFE = RT	Direct Mount. High Pad Self Adjusting Stem Packing API 598 Test see Series 'OM' for Actuator details Page 27 Also available as Spring Close W <sup>TM</sup> Watermark WMK26529
BLS3B - E* - RT	10	3/8	OM-1	Vacuum	180°C			
BLS4B - E* - RT	15	1/2	OM-1					
BLS5B - E* - RT	20	3/4	OM-1					
BLS6B - E* - RT	25	1	OM-1					
BLS7B - E* - RT	32	1-1/4	OM-1					
BLS8B - E* - RT	40	1-1/2	OM-1					
BLS9B - E* - RT	50	2	OM-A					
BLS10B - E* - RT	63	2-1/2	OM-2					
BLS11B - E* - RT	80	3	OM-3					
BLS12B - E* - RT	100	4	OM-3 *					

Optional: NPT Threaded · Butt Weld · Socket Weld Ends · 50/50 Seats 200°C · Tri Clover Ends

REFER TO PAGE 9 & 10 FOR SUITABLE SOLENOID CONTROL VALVE · \* For grease and high viscosity applications upsize actuator is recommended. Consult factory for sizing. · 3 PIECE VALVE - Also available with; · NPT Threaded Ends · Butt Weld Ends · Socket Weld Ends · Combinations of Above

### SS316 3 way Threaded

Model	Orifice Ømm	Port Size BSP	Actuator	Media Pressure	Media Temperature	Actuator Air Pressure /Voltage	Material of Construction	Features
<b>AIR / FLUID / STEAM / PETROCHEMICAL L Port or T Port. Lever. Lockable. • SS316</b>								
<p>Series BLS W<sup>TM</sup> Lever PTFE Seat</p>	BLS3L2B - L - RT	9.5	1/4	Lever	63 BAR W.O.G.	-20°C	9mm	Body: 316 Stainless Steel  Seats Filled PTFE = RT  3 Way L Port or T Port  Compact Design API 598 Test Lockable Lever Spring Close Lever Optional for Smaller Sizes W <sup>TM</sup> Watermark WMK26529
	BLS3L3B - L - RT	9.5	3/8	Lever	Vacuum	180°C		
	BLS3L4B - L - RT	12	1/2				14mm	
	BLS3L5B - L - RT	15	3/4					
	BLS3L6B - L - RT	20	1				□ Shaft	
	BLS3L7B - L - RT	25	1-1/4					
	BLS3L8B - L - RT	32	1-1/2					
	BLS3L9B - L - RT	40	2					
	BLS3L10B - L - RT	50	2-1/2					
	BLS3L11B - L - RT	65	3					
BLS3L12B - L - RT	75	4						
3L = 'L' Port 3T = 'T' Port — For Flanged 3 Way Full Bore to 4" refer to page 16								

### AIR / FLUID / STEAM / PETROCHEMICAL L Port or T Port Gear Box • SS316

Model	Orifice Ømm	Port Size BSP	Actuator	Media Pressure	Media Temperature	Actuator Air Pressure /Voltage	Material of Construction	Features		
<b>AIR / FLUID / STEAM / PETROCHEMICAL L Port or T Port Gear Box • SS316</b>										
<p>Gear Box W<sup>TM</sup> PTFE Seat</p>	BLS3L4B - G - RT	15	1/2	GB1	63 BAR W.O.G.	-20°C	Gearbox	Body: 316 Stainless Steel  Seats Filled PTFE = RT  3 Way T Port or L Port  Compact Design API 598 Test Gear Box SS Trim Visual Indicator W <sup>TM</sup> Watermark WMK26529		
	BLS3L5B - G - RT	20	3/4	GB1	Vacuum	180°C			14mm	
	BLS3L6B - G - RT	25	1	GB1			17mm			
	BLS3L7B - G - RT	32	1-1/4	GB1					□ Shaft	
	BLS3L8B - G - RT	32	1-1/2	GB1						
	BLS3L9B - G - RT	40	2	GB2						
	BLS3L10B - G - RT	50	2-1/2	GB2						
	BLS3L11B - G - RT	65	3	GB2						
	BLS3L12B - G - RT	75	4	GB2						
	3L = 'L' Port 3T = 'T' Port — For Flanged 3 Way Full Bore to 4" refer to page 16 • See Page 29 for Gear Box Specifications									

### AIR / FLUID / STEAM / PETROCHEMICAL Double Acting Pneumatic • SS316

Model	Orifice Ømm	Port Size BSP	Actuator	Media Pressure	Media Temperature	Actuator Air Pressure /Voltage	Material of Construction	Features
<b>AIR / FLUID / STEAM / PETROCHEMICAL Double Acting Pneumatic • SS316</b>								
<p>Series BLS W<sup>TM</sup> Double Acting 'L' or 'T' Port 316 Stainless Steel Body</p>	BLS3L2B - DA - RT	8	1/4	DA50	63 BAR W.O.G.	-20°C	6-8 BAR	Body: 316 Stainless Steel  Seats Filled PTFE = RT  3 Way 3L = L Port 3T = T Port  Compact Design API 598 Test Standard with aluminium actuator. Optional Stainless Steel Actuator W <sup>TM</sup> Watermark WMK26529
	BLS3L3B - DA - RT	10	3/8	DA50	Vacuum	180°C		
	BLS3L4B - DA - RT	12	1/2	DA50			14mm	
	BLS3L5B - DA - RT	15	3/4	DA50				
	BLS3L6B - DA - RT	20	1	DA50			□ Shaft	
	BLS3L7B - DA - RT	25	1-1/4	DA63				
	BLS3L8B - DA - RT	32	1-1/2	DA75				
	BLS3L9B - DA - RT	43	2	DA75				
	BLS3L10B - DA - RT	55	2-1/2	DA88				
	BLS3L11B - DA - RT	66	3	DA100				
BLS3L12B - DA - RT	75	4	DA115 *					
3L = 'L' Port 3T = 'T' Port — For Flanged 3 Way Full Bore to 4" refer to page 16								

### AIR / FLUID / STEAM / PETROCHEMICAL Spring Return Pneumatic • SS316

Model	Orifice Ømm	Port Size BSP	Actuator	Media Pressure	Media Temperature	Actuator Air Pressure /Voltage	Material of Construction	Features
<b>AIR / FLUID / STEAM / PETROCHEMICAL Spring Return Pneumatic • SS316</b>								
<p>Series BLS W<sup>TM</sup> Spring Return 'L' or 'T' Port 316 Stainless Steel Body</p>	BLS3L2B - SR - RT	8	1/4	SR50	63 BAR W.O.G.	-20°C	6-8 BAR	Body: 316 Stainless Steel  Seats Filled PTFE = RT  3 Way 3L = L Port 3T = T Port  Compact Design API 598 Test Standard with aluminium actuator. Optional Stainless Steel Actuator W <sup>TM</sup> Watermark WMK26529
	BLS3L3B - SR - RT	10	3/8	SR50	Vacuum	180°C		
	BLS3L4B - SR - RT	12	1/2	SR50			14mm	
	BLS3L5B - SR - RT	15	3/4	SR63				
	BLS3L6B - SR - RT	20	1	SR63			□ Shaft	
	BLS3L7B - SR - RT	25	1-1/4	SR75				
	BLS3L8B - SR - RT	32	1-1/2	SR88				
	BLS3L9B - SR - RT	43	2	SR100				
	BLS3L10B - SR - RT	55	2-1/2	SR115				
	BLS3L11B - SR - RT	66	3	SR125				
BLS3L12B - SR - RT	75	4	SR145 *					
3L = 'L' Port 3T = 'T' Port — For Flanged 3 Way Full Bore to 4" refer to page 16								

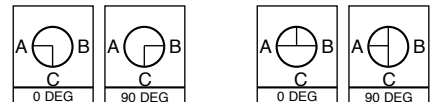
### AIR / FLUID / STEAM / PETROCHEMICAL Electric On/Off • SS316

Model	Orifice Ømm	Port Size BSP	Actuator	Media Pressure	Media Temperature	Actuator Air Pressure /Voltage	Material of Construction	Features
<b>AIR / FLUID / STEAM / PETROCHEMICAL Electric On/Off • SS316</b>								
<p>Series BLS W<sup>TM</sup> Electrically Actuated 'L' or 'T' Port 316 Stainless Steel Body</p>	BLS3L2B - E* - RT	8	1/4	OM-1	63 BAR W.O.G.	-20°C	E1=240VAC E2=110VAC E5=24VAC E7=12VDC E8=24VDC E11=415VAC	Body: 316 Stainless Steel  Seats Filled PTFE = RT  3 Way 3L = L Port 3T = T Port  API 598 Test Electric Actuator See Series 'OM' for actuator details Also available as Spring Close P27 W <sup>TM</sup> Watermark WMK26529
	BLS3L3B - E* - RT	10	3/8	OM-1	Vacuum	180°C		
	BLS3L4B - E* - RT	12	1/2	OM-1			14mm	
	BLS3L5B - E* - RT	15	3/4	OM-1				
	BLS3L6B - E* - RT	20	1	OM-1			□ Shaft	
	BLS3L7B - E* - RT	25	1-1/4	OM-1				
	BLS3L8B - E* - RT	32	1-1/2	OM-A				
	BLS3L9B - E* - RT	43	2	OM-2				
	BLS3L10B - E* - RT	55	2-1/2	OM-2				
	BLS3L11B - E* - RT	66	3	OM-3				
BLS3L12B - E* - RT	75	4	OM-4 *					
3L = 'L' Port 3T = 'T' Port — For Flanged 3 Way Full Bore to 4" refer to page 16								

Refer to page 9 & 10 for suitable solenoid control valve

\* For grease and high viscosity applications upsize actuator is recommended.  
Consult factory for sizing.

'L' PORT CONFIGURATION 'T' PORT CONFIGURATION



## SS316 3 way Flanged

Model	Orifice Ømm	Flanged ANSI 150	Actuator	Media Pressure AM6	Media Temperature	Actuator Air Pressure /Voltage	Material of Construction	Features
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### AIR / FLUID / STEAM / PETROCHEMICAL

#### Lever. Lockable · SS316

#### BLS3FA



BLS3L4FA - L - RT	15	ANSI 150 RF	LEVER	20 BAR W.O.G.	-20°C	9mm	Body: 316 Stainless Steel	ISO Pad Mounting							
BLS3L5FA - L - RT	20														
BLS3L6FA - L - RT	25														
BLS3L7FA - L - RT	32														
BLS3L8FA - L - RT	40														
BLS3L9FA - L - RT	50														
BLS3L10FA - L - RT	65														
BLS3L11FA - L - RT	80														
BLS3L12FA - L - RT	100														
													11mm	Seats: Filled PTFE = RT	API 598 Test
													14mm		
													17mm		
				10 BAR STEAM	180°C		3 Way 3L = L Port 3T = T Port	Lockable Optional 4 Way							
3L = L Port 3T = T Port • Spring Close, Handle 1/2" ~ 1 1/2"							<input type="checkbox"/> Shaft								

### AIR / FLUID / STEAM / PETROCHEMICAL

#### Gear Box · L/T Port · SS316

#### BLS3FA



BLS3L4FA - G - RT	15	ANSI 150 RF	GB1	20 BAR W.O.G.	-20°C	Gearbox	Body: 316 Stainless Steel	ISO Pad Mounting							
BLS3L5FA - G - RT	20														
BLS3L6FA - G - RT	25														
BLS3L7FA - G - RT	32														
BLS3L8FA - G - RT	40														
BLS3L9FA - G - RT	50														
BLS3L10FA - G - RT	65														
BLS3L11FA - G - RT	80														
BLS3L12FA - G - RT	100														
														Seats: Filled PTFE = RT	API 598 Test
			GB1	VACUUM			3 Way 3L = L Port 3T = T Port	Visual Indicator Optional 4 Way							
3L = L Port 3T = T Port • See Page 29 for Gear Box Specifications															

### AIR / FLUID / STEAM / PETROCHEMICAL

#### Double Acting Pneumatic · SS316

#### BLS3FADA



BLS3L4FA - DA - RT	15	ANSI 150 RF	DA50	20 BAR W.O.G.	-20°C	6-8 BAR	Body: 316 Stainless Steel	ISO Pad Mounting							
BLS3L5FA - DA - RT	20														
BLS3L6FA - DA - RT	25														
BLS3L7FA - DA - RT	32														
BLS3L8FA - DA - RT	40														
BLS3L9FA - DA - RT	50														
BLS3L10FA - DA - RT	65														
BLS3L11FA - DA - RT	80														
BLS3L12FA - DA - RT	100														
														Seats: Filled PTFE = RT	API 598 Test
			DA63	Vacuum		6-8 BAR Air Pressure	3 Way 3L = L Port 3T = T Port	Standard with aluminium actuator, Optional Stainless Steel Actuator							
3L = L Port 3T = T Port															

### AIR / FLUID / STEAM / PETROCHEMICAL

#### Spring Return Pneumatic · SS316

#### BLS3FASR



BLS3L4FA - SR - RT	15	ANSI 150 RF	SR63	20 BAR W.O.G.	-20°C	6-8 BAR	Body: 316 Stainless Steel	ISO Pad Mounting							
BLS3L5FA - SR - RT	20														
BLS3L6FA - SR - RT	25														
BLS3L7FA - SR - RT	32														
BLS3L8FA - SR - RT	40														
BLS3L9FA - SR - RT	50														
BLS3L10FA - SR - RT	65														
BLS3L11FA - SR - RT	80														
BLS3L12FA - SR - RT	100														
														Seats: Filled PTFE = RT	API 598 Test
			SR75	Vacuum		6-8 BAR Air Pressure	3 Way 3L = L Port 3T = T Port	Standard with aluminium actuator, Optional Stainless Steel Actuator							
3L = L Port 3T = T Port															

### AIR / FLUID / STEAM / PETROCHEMICAL

#### Electric On/Off · SS316

#### BLS3FAE

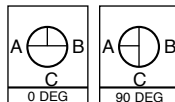
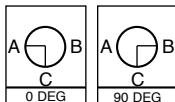


BLS3L4FA - E* - RT	15	ANSI 150 RF	OM-1	20 BAR W.O.G.	-20°C	E1=240VAC E2=110VAC E5=24VAC E7=12VDC E8=24VDC E11=415VAC	Body: 316 Stainless Steel	Electric Actuator							
BLS3L5FA - E* - RT	20														
BLS3L6FA - E* - RT	25														
BLS3L7FA - E* - RT	32														
BLS3L8FA - E* - RT	40														
BLS3L9FA - E* - RT	50														
BLS3L10FA - E* - RT	65														
BLS3L11FA - E* - RT	80														
BLS3L12FA - E* - RT	100														
														Seats: Filled PTFE = RT	API 598 Test
			OM-1	Vacuum		IP67	3 Way 3L = L Port 3T = T Port	See Series 'OM' for actuator details P26 Also Available as Spring Close P27 Optional 4 Way							
3L = L Port 3T = T Port															

REFER TO PAGE 9 & 10 FOR SUITABLE SOLENOID CONTROL VALVE

\* For grease and high viscosity applications upsize actuator is recommended. Consult factory for sizing.

'L' PORT CONFIGURATION    'T' PORT CONFIGURATION



– For further technical information contact Process Systems or your distributor.

– (std. = Standard Product).

\* VOLTAGE CODE: 1 = 240VAC, 2 = 110VAC, 5 = 24VAC, 7 = 12VDC, 8 = 24VDC, 11 = 415VAC

• ELASTOMER CODE: V = Viton (FKM), S = Silicone, T = PTFE, E = EPDM, N = NBR Nitrile, NC = Normally closed, NO = Normally open



ANSI-150 Optional ANSI-300	Orifice Ømm	Flanged ANSI 150	Actuator	Media Pressure	Media Temperature	Actuator Air Pressure /Voltage	Material of Construction	Features
<b>AIR / FLUID / STEAM / PETROCHEMICAL</b>								
Lever. Lockable · SS316			ANSI 150 · ANSI 300			BLSF		
<p>Series BLSF</p> <p>ANSI-150 Flange Lever Handle</p>	BLSF4FA - L - RT	15	ANSI 150 RF	LEVER	20 BAR W.O.G.	-20°C	Body: 2 piece 316 Stainless Steel ANSI 150 RF Seats: Filled PTFE	Direct Mount. High Pad Self Adjusting Stem Packing Lockable Lever API 607 6th Edition API 598 Test DMH (Spring Close Lever) optional to 80mm
	BLSF5FA - L - RT	20						
	BLSF6FA - L - RT	25						
	BLSF7FA - L - RT	32						
	BLSF8FA - L - RT	40						
	BLSF9FA - L - RT	50						
	BLSF10FA - L - RT	65						
BLSF11FA - L - RT	80	Vacuum	LEVER	10 BAR Steam	180°C	9mm		
BLSF12FA - L - RT	100	11mm						
BLSF13FA - L - RT	125	14mm						
BLSF14FA - L - RT	150	17mm						
BLSF15FA - L - RT	200	22mm						
BLSF16FA - L - RT	250	27mm						
BLSF17FA - L - RT	300							
Optional ANSI 300BLSF3 Code contact factory • Spring Close Lever Optional on Smaller Sizes • Spring Close Handle 1/2" ~ 1 1/2"						<input type="checkbox"/> Shaft		

AIR / FLUID / STEAM / PETROCHEMICAL	Gear Box · SS316	ANSI 150 · ANSI 300	BLSF					
<b>AIR / FLUID / STEAM / PETROCHEMICAL</b>								
<p>Series BLSF</p> <p>ANSI-150 Flange Gear Box</p>	BLSF4FA - G - RT	15	ANSI 150 RF	GB1	20 BAR W.O.G.	-20°C	Body: 2 piece 316 Stainless Steel ANSI 150 RF Seats: Filled PTFE	Direct Mount. High Pad Self Adjusting Stem Packing API 607 6th Edition API 598 Test
	BLSF5FA - G - RT	20		GB1				
	BLSF6FA - G - RT	25		GB1				
	BLSF7FA - G - RT	32		GB1				
	BLSF8FA - G - RT	40		GB1				
	BLSF9FA - G - RT	50		GB1				
	BLSF10FA - G - RT	65		GB2				
	BLSF11FA - G - RT	80		GB2				
	BLSF12FA - G - RT	100		GB2				
	BLSF13FA - G - RT	125		GB3				
	BLSF14FA - G - RT	150		GB3				
	BLSF15FA - G - RT	200		GB4				
	BLSF16FA - G - RT	250		GB5				
	BLSF17FA - G - RT	300		GB6				
Optional ANSI 300BLSF3 Code contact factory • See Page 29 for Gear Box Specifications								

AIR / FLUID / STEAM / PETROCHEMICAL	Double Acting Pneumatic · SS316	ANSI 150 · ANSI 300	BLSFDA					
<b>AIR / FLUID / STEAM / PETROCHEMICAL</b>								
<p>Series BLSF</p> <p>Double Acting 316 Stainless Steel Body</p>	BLSF4FA - DA - RT	15	ANSI 150 RF	DA50	20 BAR W.O.G.	-20°C	Body: 2 piece 316 Stainless Steel ANSI 150 RF Seats: Filled PTFE Optional: Limit Switch. De-Clutch Gear Box	Direct Mount. High Pad Self Adjusting Stem Packing API 607 6th Edition API 598 Test Actuator- std. aluminium Optional Stainless Steel
	BLSF5FA - DA - RT	20		DA50				
	BLSF6FA - DA - RT	25		DA50				
	BLSF7FA - DA - RT	32		DA63				
	BLSF8FA - DA - RT	40		DA63				
	BLSF9FA - DA - RT	50		DA75				
	BLSF10FA - DA - RT	63		DA88				
	BLSF11FA - DA - RT	80		DA100				
	BLSF12FA - DA - RT	100		DA115				
	BLSF13FA - DA - RT	125		DA125				
	BLSF14FA - DA - RT	150		DA145				
	BLSF15FA - DA - RT	200		DA160				
	BLSF16FA - DA - RT	250		DA200				
	BLSF17FA - DA - RT	300		DA240				
Optional ANSI 300BLSF3 Code contact factory						6-8 BAR Air Pressure		

AIR / FLUID / STEAM / PETROCHEMICAL	Spring Return Pneumatic · SS316	ANSI 150 · ANSI 300	BLSFSR					
<b>AIR / FLUID / STEAM / PETROCHEMICAL</b>								
<p>Series BLSF</p> <p>Spring Return 316 Stainless Steel Body</p>	BLSF54FA - SR - RT	15	ANSI 150 RF	SR50	20 BAR W.O.G.	-20°C	Body: 2 piece 316 Stainless Steel ANSI 150 RF Seats: Filled PTFE Optional: Limit Switch. De-Clutch Gear Box	Direct Mount. High Pad Self Adjusting Stem Packing API 607 6th Edition API 598 Test Actuator- std. aluminium Optional Stainless Steel
	BLSF55FA - SR - RT	20		SR63				
	BLSF56FA - SR - RT	25		SR63				
	BLSF57FA - SR - RT	32		SR75				
	BLSF58FA - SR - RT	40		SR75				
	BLSF59FA - SR - RT	50		SR88				
	BLSF510FA - SR - RT	63		SR100				
	BLSF511FA - SR - RT	80		SR115				
	BLSF512FA - SR - RT	100		SR145				
	BLSF513FA - SR - RT	125		SR160				
	BLSF514FA - SR - RT	150		SR180				
	BLSF515FA - SR - RT	200		SR200				
	BLSF516FA - SR - RT	250		SR240				
	BLSF517FA - SR - RT	300		SR270				
For normally open function change 5th digit to 6 - Optional ANSI 300BLSF3 Code contact factory						6-8 BAR Air Pressure		

AIR / FLUID / STEAM / PETROCHEMICAL	Electric On/Off · SS316	ANSI 150 · ANSI 300	BLSFE					
<b>AIR / FLUID / STEAM / PETROCHEMICAL</b>								
<p>Series BLSF</p> <p>Electric Actuated 316 Stainless Steel Body</p>	BLSF4FA - E* - RT	15	ANSI 150 RF	OM-1	20 BAR W.O.G.	-20°C	Body: 2 piece 316 Stainless Steel ANSI 150 RF Seats: Filled PTFE	Direct Mount. High Pad Self Adjusting Stem Packing API 607 6th Edition API 598 Test see Series 'OM' for Actuator details P27 Also available as Spring Close with Exd IECE P27
	BLSF5FA - E* - RT	20		OM-1				
	BLSF6FA - E* - RT	25		OM-1				
	BLSF7FA - E* - RT	32		OM-1				
	BLSF8FA - E* - RT	40		OM-1				
	BLSF9FA - E* - RT	50		OM-A				
	BLSF10FA - E* - RT	63		OM-2				
	BLSF11FA - E* - RT	80		OM-3				
	BLSF12FA - E* - RT	100		OM-4				
	BLSF13FA - E* - RT	125		OM-4				
	BLSF14FA - E* - RT	150		OM-5				
	BLSF15FA - E* - RT	200		OM-6				
	BLSF16FA - E* - RT	250		OM-8				
	BLSF17FA - E* - RT	300		OM-10				
Optional ANSI 300BLSF3 Code contact factory						VACUUM	IP67	

Fire Safe ANSI 300BLSF3 Available. Also 600, 900.

\* For grease and high viscosity applications upsize actuator is recommended. Consult factory for sizing.

- For further technical information contact Process Systems or your distributor.

- (std. = Standard Product).

\* VOLTAGE CODE: 1 = 240VAC, 2 = 110VAC, 5 = 24VAC, 7 = 12VDC, 8 = 24VDC, 11 = 415AC

• ELASTOMER CODE: V = Viton (FKM), S = Silicone, T = PTFE, E = EPDM, N = NBR Nitrile, NC = Normally closed, NO = Normally open



ANSI-150 Optional ANSI-300	Orifice Ømm	ANSI 150 RF	Actuator	Media Pressure	Media Temperature	Actuator Air Pressure /Voltage	Material of Construction	Features
<b>AIR / FLUID / STEAM / PETROCHEMICAL</b>								
Lever. Lockable • Carbon Steel			ANSI 150			BLCF		
<p>Series BLCF</p> <p>ANSI-150 Flange Lever Handle Carbon Steel Body</p>	BLCF4FA - L - RT	15	ANSI 150 RF	LEVER	20 BAR W.O.G.	9mm 11mm 14mm 17mm 22mm 27mm	Body: 2 piece Carbon Steel ANSI 150 RF Seats: Filled PTFE	Direct Mount. High Pad Self Adjusting Stem Packing API 607 6th Edition API 598 Test Lockable Lever
	BLCF5FA - L - RT	20						
	BLCF6FA - L - RT	25						
	BLCF7FA - L - RT	32						
	BLCF8FA - L - RT	40						
	BLCF9FA - L - RT	50						
	BLCF10FA - L - RT	65						
	BLCF11FA - L - RT	80						
	BLCF12FA - L - RT	100						
	BLCF13FA - L - RT	125						
BLCF14FA - L - RT	150			Vacuum				
BLCF15FA - L - RT	200							
BLCF16FA - L - RT	250			10 BAR Steam	180°C			
BLCF17FA - L - RT	300		LEVER					
Optional ANSI 300 Code contact factory • Spring Close Lever Optional on Smaller Sizes • Spring Handle 1" ~ 2"						<input type="checkbox"/> Shaft		

AIR / FLUID / STEAM / PETROCHEMICAL	Gear Box • Carbon Steel	ANSI 150	BLCF						
<b>AIR / FLUID / STEAM / PETROCHEMICAL</b>									
Gear Box • Carbon Steel		ANSI 150							
<p>Series BLCF</p> <p>ANSI-150 Flange Gear Box Carbon Steel Body</p>	BLCF4FA - G - RT	15	ANSI 150 RF	GB1	20 BAR W.O.G.	Gearbox	Body: 2 piece Carbon Steel ANSI 150 RF Seats: Filled PTFE	Direct Mount. High Pad Self Adjusting Stem Packing API 607 6th Edition API 598 Test	
	BLCF5FA - G - RT	20							
	BLCF6FA - G - RT	25							
	BLCF7FA - G - RT	32							
	BLCF8FA - G - RT	40							
	BLCF9FA - G - RT	50							
	BLCF10FA - G - RT	65							
	BLCF11FA - G - RT	80							
	BLCF12FA - G - RT	100							
	BLCF13FA - G - RT	125							
BLCF14FA - G - RT	150			Vacuum					
BLCF15FA - G - RT	200								
BLCF16FA - G - RT	250			10 BAR Steam	180°C				
BLCF17FA - G - RT	300		GB6						
Optional ANSI 300 Code contact factory • See Page 29 for Gear Box Specifications									

AIR / FLUID / STEAM / PETROCHEMICAL	Double Acting Pneumatic • Carbon Steel	ANSI 150	BLCFDA						
<b>AIR / FLUID / STEAM / PETROCHEMICAL</b>									
Double Acting Pneumatic • Carbon Steel		ANSI 150							
<p>Series BLCF</p> <p>Double Acting Carbon Steel Body</p>	BLCF4FA - DA - RT	15	ANSI 150 RF	DA50	20 BAR W.O.G.	6-8 BAR 6-8 BAR Air Pressure	Body: 2 piece Carbon Steel ANSI 150 RF Seats: Filled PTFE Optional: Limit Switch. De-Clutch Gear Box	Direct Mount. High Pad Self Adjusting Stem Packing API 607 6th Edition API 598 Test Actuator- std. aluminium Optional Stainless Steel	
	BLCF5FA - DA - RT	20							
	BLCF6FA - DA - RT	25							
	BLCF7FA - DA - RT	32							
	BLCF8FA - DA - RT	40							
	BLCF9FA - DA - RT	50							
	BLCF10FA - DA - RT	63							
	BLCF11FA - DA - RT	80							
	BLCF12FA - DA - RT	100							
	BLCF13FA - DA - RT	125							
BLCF14FA - DA - RT	150			Vacuum					
BLCF15FA - DA - RT	200								
BLCF16FA - DA - RT	250			10 BAR Steam	180°C				
BLCF17FA - DA - RT	300		DA240						
Optional ANSI 300 Code contact factory									






AIR / FLUID / STEAM / PETROCHEMICAL	Spring Return Pneumatic • Carbon Steel	ANSI 150	BLCFSR						
<b>AIR / FLUID / STEAM / PETROCHEMICAL</b>									
Spring Return Pneumatic • Carbon Steel		ANSI 150							
<p>Series BLCF</p> <p>Spring Return Carbon Steel Body</p>	BLCF54FA - SR - RT	15	ANSI 150 RF	SR50	20 BAR W.O.G.	6-8 BAR 6-8 BAR Air Pressure	Body: 2 piece Carbon Steel ANSI 150 RF Seats: Filled PTFE Optional: Limit Switch. De-Clutch Gear Box	Direct Mount. High Pad Self Adjusting Stem Packing API 607 6th Edition API 598 Test Actuator- std. aluminium Optional Stainless Steel	
	BLCF55FA - SR - RT	20							
	BLCF56FA - SR - RT	25							
	BLCF57FA - SR - RT	32							
	BLCF58FA - SR - RT	40							
	BLCF59FA - SR - RT	50							
	BLCF10FA - SR - RT	63							
	BLCF11FA - SR - RT	80							
	BLCF12FA - SR - RT	100							
	BLCF13FA - SR - RT	125							
BLCF14FA - SR - RT	150			Vacuum					
BLCF15FA - SR - RT	200								
BLCF16FA - SR - RT	250			10 BAR Steam	180°C				
BLCF17FA - SR - RT	300		SR270						
For normally open function change 5th digit to 6 - Optional ANSI 300 Code contact factory									

AIR / FLUID / STEAM / PETROCHEMICAL	Electric On/Off • Carbon Steel	ANSI 150	BLCFE						
<b>AIR / FLUID / STEAM / PETROCHEMICAL</b>									
Electric On/Off • Carbon Steel		ANSI 150							
<p>Series BLCF</p> <p>Electric Actuated Carbon Steel Body</p>	BLCF4FA - E* - RT	15	ANSI 150 RF	OM-1	20 BAR W.O.G.	E1=240VAC E2=110VAC E5=24VAC E7=12VDC E8=24VDC E11=415VAC IP67	Body: 2 piece Carbon Steel ANSI 150 RF Seats: Filled PTFE	Direct Mount. High Pad Self Adjusting Stem Packing API 607 6th Edition API 598 Test see Series 'OM' for Actuator details P27 Also available as Spring Close P27	
	BLCF5FA - E* - RT	20							
	BLCF6FA - E* - RT	25							
	BLCF7FA - E* - RT	32							
	BLCF8FA - E* - RT	40							
	BLCF9FA - E* - RT	50							
	BLCF10FA - E* - RT	63							
	BLCF11FA - E* - RT	80							
	BLCF12FA - E* - RT	100							
	BLCF13FA - E* - RT	125							
BLCF14FA - E* - RT	150			VACUUM					
BLCF15FA - E* - RT	200								
BLCF16FA - E* - RT	250			10 BAR STEAM	180°C				
BLCF17FA - E* - RT	300		OM-10						
Optional ANSI 300 Code contact factory									

Fire Safe ANSI 300BLSF3 Available. Also 600, 900.  
• \* For grease and high viscosity applications upsized actuator is recommended. Consult factory for sizing.

- For further technical information contact Process Systems or your distributor.  
- (std. = Standard Product).

\* VOLTAGE CODE: 1 = 240VAC, 2 = 110VAC, 5 = 24VAC, 7 = 12VDC, 8 = 24VDC, 11 = 415AC  
• ELASTOMER CODE: V = Viton (FKM), S = Silicone, T = PTFE, E = EPDM, N = NBR Nitrile, NC = Normally closed, NO = Normally open

Metal Seat		Model	Orifice Ømm	Connection	Actuator	Media Pressure	Media Temperature	Material of Construction	Features							
<b>HIGH TEMPERATURE / HIGH PRESSURE</b>		<b>Lever • Lockable • SS316 • 2000 PSI • Uni-Directional</b>						<b>BLM</b>								
 <p>Series BLM</p>	BLM4B - L - M	15	1/2	Lever	125 BAR	13.62Mpa @ -29 to 35 °C Max. Temp. 454°C (See Data Sheet)	Body: 3 pce 316 Stainless Steel BSP Threaded. Seats: Metal	Direct Mount. Metal Seat. Design: ANSI B16.34 Test: ANSI / FCI 70-2 Class V								
	BLM5B - L - M	20	3/4	Actuation Optional												
	BLM6B - L - M	25	1	Lever												
	BLM7B - L - M	32	1-1/4	Actuation Optional												
	BLM8B - L - M	40	1-1/2	Lever												
	BLM9B - L - M	50	2	Lever												
<b>HIGH TEMPERATURE / HIGH PRESSURE</b>		<b>Lever • Lockable • SS316 • ANSI 300 • Uni-Directional</b>						<b>BLMFA</b>								
 <p>Series BLMFA</p>	BLM4FA - L - M	15	ANSI 300 RF	Lever	40 BAR	4Mpa @ -29 to 35 °C Max. Temp. 454°C (See Data Sheet)	Body: 2 piece Stainless Steel ANSI 300 RF Seats: Metal	Direct Mount. Metal Seat. Design: ANSI B16.10 Flange: ANSI 300 Test: API 598 ANSI / FCI 70-2 Class V								
	BLM5FA - L - M	20		Actuation Optional												
	BLM6FA - L - M	25		Lever												
	BLM7FA - L - M	32		Actuation Optional												
	BLM8FA - L - M	40		Lever												
	BLM9FA - L - M	50		Actuation Optional												
	BLM10FA - L - M	65		Lever												
	BLM11FA - L - M	80		Actuation Optional												
	BLM12FA - L - M	100		Lever												
	<b>HIGH PRESSURE / HIGH TEMPERATURE / FIRE SAFE</b>			<b>LEVER • LOCKABLE • 2000 PSI</b>						<b>BLF (BSP)</b>						
 <p>Series BLF</p>	BLF4B - L - T	15	BSP	Lever	Vacuum	-20°C	Body: 3 piece 316 Stainless Steel.	Direct Mount. Optional Actuator ISO 5211								
	BLF5B - L - T	20		Actuation Optional												
	BLF6B - L - T	25		Lever												
	BLF7B - L - T	32		Actuation Optional												
	BLF8B - L - T	40		Lever												
	BLF9B - L - T	50		Actuation Optional												
	BLF10B - L - T	65		Lever												
	BLF11B - L - T	80		Actuation Optional												
	BLF12B - L - T	100		Lever												
	<b>HIGH PRESSURE / HIGH TEMPERATURE / FIRE SAFE</b>			<b>LEVER • LOCKABLE • 2000 PSI</b>						<b>BLF (NPT)</b>						
	 <p>Series BLFN</p>	BLF4N - L - T		15					NPT	Lever	Vacuum	-20°C	Body: 3 piece 316 Stainless Steel.	Direct Mount. Optional Actuator ISO 5211		
		BLF5N - L - T		20						Actuation Optional						
BLF6N - L - T		25	Lever													
BLF7N - L - T		32	Actuation Optional													
BLF8N - L - T		40	Lever													
BLF9N - L - T		50	Actuation Optional													
BLF10N - L - T		65	Lever													
BLF11N - L - T		80	Actuation Optional													
BLF12N - L - T		100	Lever													
<b>HIGH PRESSURE / HIGH TEMPERATURE / FIRE SAFE</b>		<b>LEVER • LOCKABLE • 2000 PSI</b>						<b>BLFS (Socket)</b>								
 <p>Series BLFS</p>		BLF4S - L - T	15	SOCKET	Lever	Vacuum	-20°C	Body: 3 piece 316 Stainless Steel.		Direct Mount. Optional Actuator ISO 5211						
		BLF5S - L - T	20		Actuation Optional											
	BLF6S - L - T	25	Lever													
	BLF7S - L - T	32	Actuation Optional													
	BLF8S - L - T	40	Lever													
	BLF9S - L - T	50	Actuation Optional													
	BLF10S - L - T	65	Lever													
	BLF11S - L - T	80	Actuation Optional													
	BLF12S - L - T	100	Lever													

– For further technical information contact Process Systems or your distributor.

– (std. = Standard Product).

\* VOLTAGE CODE: 1 = 240VAC, 2 = 110VAC, 5 = 24VAC, 7 = 12VDC, 8 = 24VDC, 11 = 415AC

• ELASTOMER CODE: V = Viton (FKM), S = Silicone, T = PTFE, E = EPDM, N = NBR Nitrile, NC = Normally closed, NO = Normally open

### High Pressure

#### AIR / WATER



Model	Orifice Ømm	Port Size BSP	Actuator	Media Pressure @30°C	Media Temperature	Actuator Air Pressure /Voltage	Material of Construction	Features
<b>Lever. Lockable</b>								
BLSHP2B - L - D	8	1/4	LEVER	3,000 PSI 200 BAR	40°C @ 200 BAR	Lever Lockable	Body: 316 Stainless Steel Ball: Stainless Steel Seat: Delrin Optional: PEEK for grease and solvents	Highflow High pressure Lockable Lever
BLSHP3B - L - D	10	3/8	LEVER					
BLSHP4B - L - D	15	1/2						
BLSHP5B - L - D	20	3/4						
BLSHP6B - L - D	25	1						
BLSHP8B - L - D	40	1-1/2						
BLSHP9B - L - D	50	2	LEVER					

ALSO AVAILABLE - 3 WAY FULL BORE L/T • MANUAL OR ACTUATED • Optional Fire Safe Approval

#### AIR / WATER



Model	Orifice Ømm	Port Size BSP	Actuator	Media Pressure @30°C	Media Temperature	Actuator Air Pressure /Voltage	Material of Construction	Features
<b>Double Acting Pneumatic</b>								
BLSHP2B - DA - D	8	1/4	DA50	3,000 PSI 200 BAR	40°C @ 200 BAR	6-8 BAR	Body: 316 Stainless Steel Ball: Stainless Steel Seat: Delrin Optional: PEEK for grease and solvents	Highflow High pressure Actuator std. aluminium
BLSHP3B - DA - D	10	3/8	DA50					
BLSHP4B - DA - D	12	1/2	DA50					
BLSHP5B - DA - D	17	3/4	DA63					
BLSHP6B - DA - D	22	1	DA63					
BLSHP8B - DA - D	35	1-1/2	DA88					
BLSHP9B - DA - D	35	2	DA88					

ALSO AVAILABLE - 1/2" UP TO 1" NPT 10,000 PSI 2-WAY 3-WAY • Optional Fire Safe Approval

#### AIR / WATER



Model	Orifice Ømm	Port Size BSP	Actuator	Media Pressure @30°C	Media Temperature	Actuator Air Pressure /Voltage	Material of Construction	Features
<b>Spring Return Pneumatic</b>								
BLSHP2B - SR - D	8	1/4	SR63	3,000 PSI 200 BAR	40°C @ 200 BAR	6-8 BAR	Body: 316 Stainless Steel Ball: Stainless Steel Seat: Delrin Optional: PEEK for grease and solvents	Highflow High pressure Actuator std. aluminium
BLSHP3B - SR - D	10	3/8	SR63					
BLSHP4B - SR - D	12	1/2	SR75					
BLSHP5B - SR - D	17	3/4	SR75					
BLSHP6B - SR - D	22	1	SR88					
BLSHP8B - SR - D	35	1-1/2	SR100					
BLSHP9B - SR - D	35	2	SR100					

ALSO AVAILABLE - 1/2" UP TO 1" NPT 10,000 PSI 2-WAY 3-WAY • Optional Fire Safe Approval

#### AIR / WATER



Model	Orifice Ømm	Port Size BSP	Actuator	Media Pressure @30°C	Media Temperature	Actuator Air Pressure /Voltage	Material of Construction	Features
<b>Electric On/Off</b>								
BLSHP2B - E*- D	8	1/4	OM-1	3,000 PSI 200 BAR	40°C @ 200 BAR	E1=240VAC E2=110VAC E5=24VAC E7=12VDC E8=24VDC	Body: 316 Stainless Steel Ball: Stainless Steel Seat: Delrin Optional: PEEK for grease and solvents	Highflow High pressure see Series 'OM' for Actuator details Page 27
BLSHP3B - E*- D	10	3/8	OM-1					
BLSHP4B - E*- D	12	1/2	OM-1					
BLSHP5B - E*- D	17	3/4	OM-1					
BLSHP6B - E*- D	22	1	OM-1					
BLSHP8B - E*- D	35	1-1/2	OM-A					
BLSHP9B - E*- D	35	2	OM-A					

ALSO AVAILABLE - 1/2" UP TO 1" NPT 10,000 PSI 2-WAY 3-WAY • Optional Fire Safe Approval

### SS316 3pc V Port

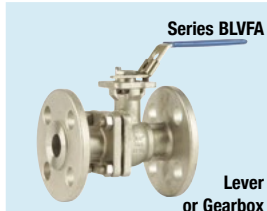
#### AIR / FLUID / STEAM / PETROCHEMICAL



Model	Port Size BSP	Actuator		Modulating Controller 4-20mA 1-10VDC	Media Pressure	Media Temperature	Actuator Air Pressure /Voltage	Material of Construction	Features
		Lever	Gear Box						
<b>BLV</b>									
BLV5B - L - T60	3/4	L		10 BAR Steam using R.T Seat	63 BAR W.O.G.   Vacuum   180°C	-20°C   180°C	See below for options	Body: 3 piece 316 Stainless Steel. BSP Threaded. Filled Seats: filled PTFE Optional: Socket weld NPT	Direct Mount. High Pad Self Adjusting Stem Packing Lockable Lever Optional: Gearbox/Actuator
BLV6B - L - T60	1	L							
BLV8B - L - T60	1-1/2	L	GB1						
BLV9B - L - T60	2	L	GB1						
BLV11B - L - T60	3	L	GB2						
BLV12B - L - T60	4	L	GB2						

Change 'L' to 'G' for Gear box • Optional 50/50 SS Seats HT 3/4" ~ 4" 200°C

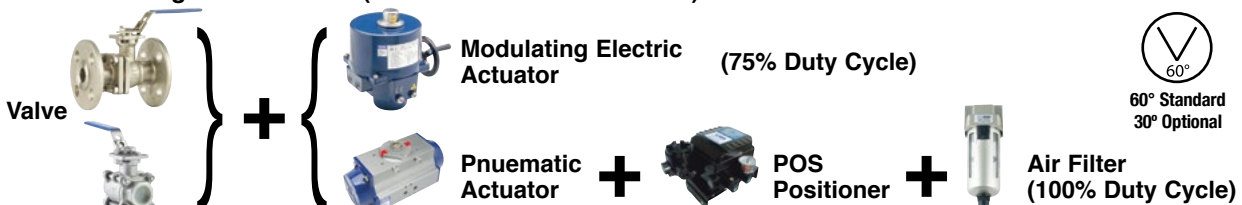
#### FLUID / STEAM / PETROCHEMICAL



Model	Port Size BSP	Actuator	Modulating Controller 4-20mA 1-10VDC	Media Pressure	Media Temperature	Actuator Air Pressure /Voltage	Material of Construction	Features	
									<b>BLVFA</b>
BLV4FA - L - T60	15	L	ANSI 150 RF	10 BAR Steam using R.T. Seat	63 BAR W.O.G.   Vacuum   180°C	-20°C   180°C	See below for options	Body: 2 piece 316 Stainless Steel. Seats: filled PTFE Flanged ANSI 150 RF	Direct Mount. High Pad Self Adjusting Stem Packing Lockable Lever /Gearbox/Actuator
BLV5FA - L - T60	20	L							
BLV6FA - L - T60	25	L							
BLV7FA - L - T60	32	L							
BLV8FA - L - T60	40	L							
BLV9FA - L - T60	50	L							
BLV10FA - L - T60	65	L	GB1						
BLV11FA - L - T60	80	L	GB1						
BLV12FA - L - T60	100	L	GB2						

Change 'L' to 'G' for Gear box • Optional 50/50 SS Seats HT 3/4" ~ 4" 200°C

• Optional modulating V Port Control (Elements to fit above valves) • See website or contact sales for actuated codes.



**BAS**  
Auto Return IP67

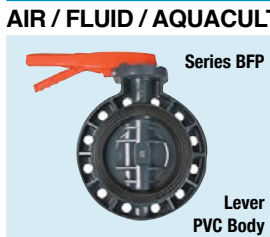


Model	Orifice Ømm	Port Size BSP	Actuator	Media Pressure @30°C	Media Temperature	Open/Close Time	Material of Construction	Features
<b>2 Way Auto Return Ball Valve · 12~24v AC/DC</b>								
BASM54B - EL - T	15	1/2	N.C.	10 BAR	2°C	5 Sec	Ball: SS316 Body: SS304 Seals: FKM Seats: PTFE Actuator: PPO	Works like a Solenoid Valve - take the power off and it returns Very low power consumption 5 Sec operation Min 30 Sec power on to charge capacitor. 30% Duty Cycle
BASM55B - EL - T	20	3/4	N.C.	10 BAR	90°C			
BASM56B - EL - T	20	1	N.C.					
BASM64B - EL - T	15	1/2	N.O.	10 BAR	90°C	5 Sec	Ball: CPVC Body: CPVC Seals: FKM Seats: PTFE	
BASM65B - EL - T	20	3/4	N.O.					
BASM66B - EL - T	20	1	N.O.					
BAPM54B - EL - T	15	1/2	N.C.	10 BAR	90°C	5 Sec		
C/W Manual Override								

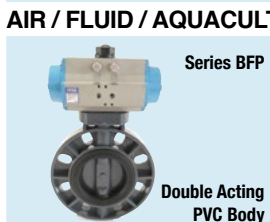


Model	Orifice Ømm	Port Size BSP	Actuator	Media Pressure	Media Temperature	Open/Close Time	Material of Construction	Features
<b>BASM3</b>								
BASM3L4B - EL - T	12	1/2	3 Way L Port	10 BAR	90°C	5 Sec	Ball: SS316 Body: SS304 Seals: FKM Seats: PTFE Actuator: PPO	Works like a Solenoid Valve - take the power off and it returns Very low power consumption
BASM3L5B - EL - T	15	3/4		10 BAR	90°C	5 Sec		
C/W Manual Override								

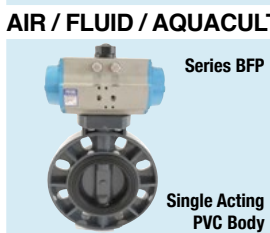
**PVC**



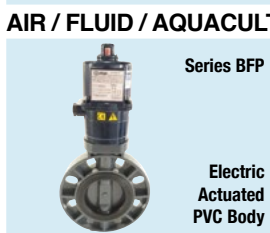
Model	Nominal Bore Ømm	Semi Lug Universal Flange	Actuator	Media Pressure	Media Temperature	Actuator Air Pressure /Voltage	Material of Construction	Features
<b>AIR / FLUID / AQUACULTURE Manual Handle · PVC</b>								
BFP50 - L - E	50	Slotted Flange	Manual Lever	0	Ambient	10 BAR	UPVC Body EPDM Seat Optional Viton (FKM)	UPVC Body Universal Flange Semi Lugged Manual Lever. Optional Gearbox.
BFP65 - L - E	65							
BFP80 - L - E	80							
BFP100 - L - E	100							
BFP125 - L - E	125							
BFP150 - L - E	150							
BFP200 - L - E	200							
Optional to 600mm Diameter								



Model	Nominal Bore Ømm	Semi Lug Universal Flange	Actuator	Media Pressure	Media Temperature	Actuator Air Pressure /Voltage	Material of Construction	Features
<b>AIR / FLUID / AQUACULTURE Double Acting Pneumatic · PVC</b>								
BFP50 - DA - E	50	Slotted Flange	DA50 DA50 DA63 DA63 DA75 DA88 DA100	0	Ambient	6-8 BAR	UPVC Body EPDM Seat Optional Viton (FKM)	UPVC Body Universal Flange Semi Lugged Double Acting Pneumatic Actuator
BFP65 - DA - E	65							
BFP80 - DA - E	80							
BFP100 - DA - E	100							
BFP125 - DA - E	125							
BFP150 - DA - E	150							
BFP200 - DA - E	200							
Air Pressure								



Model	Nominal Bore Ømm	Semi Lug Universal Flange	Actuator	Media Pressure	Media Temperature	Actuator Air Pressure /Voltage	Material of Construction	Features
<b>AIR / FLUID / AQUACULTURE Spring Return Pneumatic · PVC</b>								
BFP550 - SR - E	50	Slotted Flange	SR63 SR63 SR75 SR75 SR88 SR100 SR115	0	Ambient	6-8 BAR	UPVC Body EPDM Seat Optional Viton (FKM)	UPVC Body Universal Flange Semi Lugged Spring Return Pneumatic Actuator
BFP565 - SR - E	65							
BFP580 - SR - E	80							
BFP5100 - SR - E	100							
BFP5125 - SR - E	125							
BFP5150 - SR - E	150							
BFP5200 - SR - E	200							
For normally open function change 4th digit to 6								



Model	Nominal Bore Ømm	Semi Lug Universal Flange	Actuator	Media Pressure	Media Temperature	Actuator Air Pressure /Voltage	Material of Construction	Features
<b>AIR / FLUID / AQUACULTURE Electric On/Off · PVC</b>								
BFP50 - E* - E	50	Slotted Flange	OM-1 OM-1 OM-1 OM-A OM-A OM-2 OM-2	0	Ambient	E1=240VAC E2=110VAC E5=24VAC E7=12VDC E8=24VDC E11=415V	UPVC Body EPDM Seat Optional Viton (FKM)	UPVC Body Universal Flange Semi Lugged Electric On/Off Actuator
BFP65 - E* - E	65							
BFP80 - E* - E	80							
BFP100 - E* - E	100							
BFP125 - E* - E	125							
BFP150 - E* - E	150							
BFP200 - E* - E	200							
IP67								

- BLP 2 Way PVC Ball Valves See Page 11
- BLP3 3 Way PVC Ball Valves See Page 12
- BCP PVC Ball Check Valves See Page 35
- YSP PVC Y Strainer See Page 37



## Series BFD Wafer

AIR / WATER / VACUUM

Series BFD  
Manual Lever  
Cast Iron Butterfly Valve  
Gear Box

Model	Nominal Bore Ømm	Actuator	Media Pressure	Media Temperature	Actuator Voltage/Air Pressure	Material of Construction	Features					
<b>Lever and Gear Operated · Ductile Iron · Wafer Connection</b>							<b>BFD</b>					
BFD50 - L - E	50	LEVER	16 BAR	-20°C	UNIVERSAL WAFER SUITABLE MOST FLANGE TABLES	- Ductile Iron - 316 S/S disc - EPDM liner (E)  Optional: Viton (V) NBR (N)	Direct Pad Mount.  Operator: • Lever • Gear Box IP67  SMK26314 WMK26314 WSSA					
BFD65 - L - E	65											
BFD80 - L - E	80											
BFD100 - L - E	100											
BFD125 - L - E	125											
BFD150 - L - E	150											
BFD200 - L - E	200											
BFD250 - L - E	250											
BFD300 - L - E	300											
BFD350 - G - E	350											
BFD400 - G - E	400	GEARBOX	10 BAR	40°C								
BFD450 - G - E	450											
BFD500 - G - E	500											
BFD600 - G - E	600											
Substitute 'G' for Gear Box option												
For Non Potable - EPDM 100°C												

## Series BFD Wafer

AIR / WATER / VACUUM

Wafer Series BFD  
Double Acting Pneumatic

Model	Nominal Bore Ømm	Actuator	Media Pressure	Media Temperature	Actuator Voltage/Air Pressure	Material of Construction	Features				
<b>Double Acting Pneumatic · Ductile Iron · Wafer Connection</b>							<b>BFDDA</b>				
BFD50 - DA - E	50	DA50	16 BAR	-20°C	6-8 BAR	- Ductile Iron - 316 S/S disc - EPDM liner (E) - Optional Viton (V) NBR (N)  Replacable liner	Double acting Pneumatic actuator. Direct pad mount.  Optional: S/S Actuator  SMK26314 WMK26314 WSSA				
BFD65 - DA - E	65	DA50									
BFD80 - DA - E	80	DA63									
BFD100 - DA - E	100	DA75									
BFD125 - DA - E	125	DA88									
BFD150 - DA - E	150	DA100									
BFD200 - DA - E	200	DA115									
BFD250 - DA - E	250	DA125									
BFD300 - DA - E	300	DA145									
BFD350 - DA - E	350	DA180									
BFD400 - DA - E	400	DA200	10 BAR	40°C	6-8 BAR						
BFD450 - DA - E	450	DA200									
BFD500 - DA - E	500	DA240									
BFD600 - DA - E	600	DA270									
For Non Potable - EPDM 100°C											

## Series BFD Wafer

AIR / WATER / VACUUM

Wafer Series BFD  
Spring Return Pneumatic

Model	Nominal Bore Ømm	Actuator	Media Pressure	Media Temperature	Actuator Voltage/Air Pressure	Material of Construction	Features				
<b>Spring Return Pneumatic · Ductile Iron · Wafer Connection</b>							<b>BFDSR</b>				
BFD550 - SR - E	50	SR63	16 BAR	-20°C	6-8 BAR	- Ductile Iron - 316 S/S disc - EPDM liner (E) - Optional Viton (V) NBR (N)  Replacable liner	Spring Return Pneumatic actuator. Direct pad mount.  SMK26314 WMK26314 WSSA				
BFD565 - SR - E	65	SR63									
BFD580 - SR - E	80	SR75									
BFD5100 - SR - E	100	SR88									
BFD5125 - SR - E	125	SR100									
BFD5150 - SR - E	150	SR115									
BFD5200 - SR - E	200	SR125									
BFD5250 - SR - E	250	SR145									
BFD5300 - SR - E	300	SR180									
BFD5350 - SR - E	350	SR200									
BFD5400 - SR - E	400	SR240	10 BAR	40°C	6-8 BAR						
BFD5450 - SR - E	450	SR270									
BFD5500 - SR - E	500	SR270									
BFD5600 - SR - E	600	SR380									
For normally open function change 4th digit to 6											
For Non Potable - EPDM 100°C											

## Series BFD Wafer

AIR / WATER / VACUUM

Wafer Series BFD  
On/Off Electric

Model	Nominal Bore Ømm	Actuator	Media Pressure	Media Temperature	Actuator Voltage/Air Pressure	Material of Construction	Features				
<b>Electric On/Off · Ductile Iron · Wafer Connection</b>							<b>BFDE</b>				
BFD50 - E* - E	50	OM-1	16 BAR	-20°C	E1=240VAC E2=110VAC E5=24VAC E7=12VDC E8=24VDC E11=415VAC  IP67	- Ductile Iron - 316 S/S disc - EPDM liner (E) - Optional Viton (V) NBR (N)  Replacable liner	on/off electric actuator.  SMK26314 WMK26314 WSSA				
BFD65 - E* - E	65	OM-1									
BFD80 - E* - E	80	OM-1									
BFD100 - E* - E	100	OM-A									
BFD125 - E* - E	125	OM-A									
BFD150 - E* - E	150	OM-2									
BFD200 - E* - E	200	OM-3									
BFD250 - E* - E	250	OM-4									
BFD300 - E* - E	300	OM-5									
BFD350 - E* - E	350	OM-6									
BFD400 - E* - E	400	OM-7	10 BAR	40°C							
BFD450 - E* - E	450	OM-8									
BFD500 - E* - E	500	OM-9									
BFD600 - E* - E	600	OM-11									
Power Open / Power Closed. Available in Spring Return Electric Actuation.											
For Non Potable - EPDM 100°C											

\* Please Note: For dry powder applications, upsized actuator is recommended. Contact factory for sizing.

## Series BFDD Double Flange

AIR / WATER / VACUUM



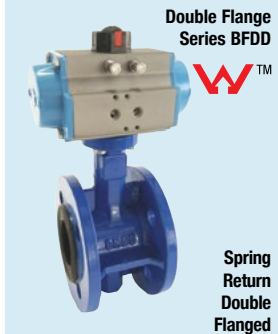
Model	Nominal Bore Ømm	Actuator	Media Pressure	Media Temperature	Flange Options	Material of Construction	Features						
<b>Double Flange</b>													
BFDD50 - L - E	50	LEVER	16 BAR	-20°C	Standard: AS 4087 PN16	• Ductile Iron • 316 S/S disc • EPDM liner (E)	Direct Pad Mount. Operator: • Lever • Gear Box IP67 Double Flange. Flange to AS4087 PN16 Std. AS2129 Table E Optional						
BFDD65 - L - E	65												
BFDD80 - L - E	80												
BFDD100 - L - E	100												
BFDD125 - L - E	125												
BFDD150 - L - E	150												
BFDD200 - L - E	200												
BFDD250 - L - E	250												
BFDD300 - L - E	300												
BFDD350 - G - E	350												
BFDD400 - G - E	400												
BFDD450 - G - E	450												
BFDD500 - G - E	500	GEARBOX	10 BAR	40°C	For Non Potable - EPDM 100°C		SMK40876 WMK40876 WSSA						
BFDD600 - G - E	600												
BFDD700 - G - E													
BFDD800 - G - E													
BFDD900 - G - E													
BFDD1000 - G - E													
BFDD1200 - G - E													
<b>BFDD</b>													
Not Watermark Approved													
Not Watermark Approved													

AIR / WATER / VACUUM



Model	Nominal Bore Ømm	Actuator	Media Pressure	Media Temperature	Flange Options	Material of Construction	Features					
<b>Double Flange · Double Acting</b>												
BFDD50 - DA - E	50	DA50	16 BAR	-20°C	Standard: AS 4087 PN16	• Ductile Iron • 316 S/S disc • EPDM liner (E)	Direct Pad Mount. Double Flange. Flange to AS4087 PN16 Std. AS2129 Table E Optional					
BFDD65 - DA - E	65	DA50										
BFDD80 - DA - E	80	DA63										
BFDD100 - DA - E	100	DA75										
BFDD125 - DA - E	125	DA88										
BFDD150 - DA - E	150	DA100										
BFDD200 - DA - E	200	DA115										
BFDD250 - DA - E	250	DA125										
BFDD300 - DA - E	300	DA145										
BFDD350 - DA - E	350	DA180										
BFDD400 - DA - E	400	DA200										
BFDD450 - DA - E	450	DA200										
BFDD500 - DA - E	500	DA240	10 BAR	40°C	For Non Potable - EPDM 100°C		SMK40876 WMK40876 WSSA					
BFDD600 - DA - E	600	DA270										
		*										
<b>BFDDDA</b>												

AIR / WATER / VACUUM



Model	Nominal Bore Ømm	Actuator	Media Pressure	Media Temperature	Flange Options	Material of Construction	Features					
<b>Double Flange · Spring Return</b>												
BFDD550 - SR - E	50	SR63	16 BAR	-20°C	Standard: AS 4087 PN16	• Ductile Iron • 316 S/S disc • EPDM liner (E)	Spring Return Pneumatic actuator. Direct pad mount. Double Flange. Flange to AS4087 PN16 Std. AS2129 Table E Optional					
BFDD565 - SR - E	65	SR63										
BFDD580 - SR - E	80	SR75										
BFDD100 - SR - E	100	SR88										
BFDD125 - SR - E	125	SR100										
BFDD150 - SR - E	150	SR115										
BFDD200 - SR - E	200	SR125										
BFDD250 - SR - E	250	SR145										
BFDD300 - SR - E	300	SR180										
BFDD350 - SR - E	350	SR200										
BFDD400 - SR - E	400	SR240										
BFDD450 - SR - E	450	SR270										
BFDD500 - SR - E	500	SR270	10 BAR	40°C	For Non Potable - EPDM 100°C		SMK40876 WMK40876 WSSA					
BFDD5600 - SR - E	600	SR570										
		*										
<b>BFDDSR</b>												

AIR / WATER / VACUUM



Model	Nominal Bore Ømm	Actuator	Media Pressure	Media Temperature	Flange Options	Material of Construction	Features					
<b>Double Flange · Electric</b>												
BFDD50 - E* - E	50	OM-1	16 BAR	-20°C	Standard: AS 4087 PN16	• Ductile Iron • 316 S/S disc • EPDM liner (E)	on/off electric actuator. Double Flange. Flange to AS4087 PN16 Std. AS2129 Table E Optional					
BFDD65 - E* - E	65	OM-1										
BFDD80 - E* - E	80	OM-1										
BFDD100 - E* - E	100	OM-A										
BFDD125 - E* - E	125	OM-A										
BFDD150 - E* - E	150	OM-2										
BFDD200 - E* - E	200	OM-3										
BFDD250 - E* - E	250	OM-4										
BFDD300 - E* - E	300	OM-5										
BFDD350 - E* - E	350	OM-6										
BFDD400 - E* - E	400	OM-7										
BFDD450 - E* - E	450	OM-8										
BFDD500 - E* - E	500	OM-9	10 BAR	40°C	For Non Potable - EPDM 100°C		SMK40876 WMK40876 WSSA					
BFDD600 - E* - E	600	OM-11										
		*										
<b>BFDEE</b>												

\* Please Note: For dry powder applications, upsized actuator is recommended. Contact factory for sizing.

## Series BFL Lugged

AIR / WATER / VACUUM



Model	Nominal Bore Ømm	Actuator	Media Pressure	Media Temperature	Actuator Voltage/Air Pressure	Material of Construction	Features					
<b>Lever and Gear Operated · Ductile Iron</b>							<b>BFL</b>					
BFL50 - L - E	50	LEVER	16 BAR	-20°C	AS2129 Table E OR AS4087 Table D	- Ductile Iron - 316 S/S disc - EPDM liner (E) - Optional Viton (V) NBR (N)	Direct Pad Mount.  Operator: • Lever • Gear Box IP67  AS2129 Table E or Table D   SMK26314 WMK26314 WSSA					
BFL65 - L - E	65											
BFL80 - L - E	80											
BFL100 - L - E	100											
BFL125 - L - E	125											
BFL150 - L - E	150											
BFL200 - L - E	200											
BFL250 - L - E	250											
BFL300 - L - E	300											
BFL350 - G - E	350											
BFL400 - G - E	400	GEARBOX	10 BAR	40°C			ANSI 150 BFLA					
BFL450 - G - E	450											
BFL500 - G - E	500											
BFL600 - G - E	600											
Substitute 'G' for Gear Box option												
For Non Potable - EPDM 100°C												

AIR / WATER / VACUUM



Model	Nominal Bore Ømm	Actuator	Media Pressure	Media Temperature	Actuator Voltage/Air Pressure	Material of Construction	Features				
<b>Double Acting Pneumatic · Ductile Iron</b>							<b>BFLDA</b>				
BFL50 - DA - E	50	DA50	16 BAR	-20°C	6-8 BAR	- Ductile Iron - 316 S/S disc - EPDM liner (E) - Optional Viton (V) NBR (N)  Replacable liner	Double acting Pneumatic actuator. Direct pad mount.  AS2129 Table E or Table D   SMK26314 WMK26314 WSSA				
BFL65 - DA - E	65										
BFL80 - DA - E	80										
BFL100 - DA - E	100										
BFL125 - DA - E	125										
BFL150 - DA - E	150										
BFL200 - DA - E	200										
BFL250 - DA - E	250										
BFL300 - DA - E	300										
BFL350 - DA - E	350										
BFL400 - DA - E	400	DA200	10 BAR	40°C	6-8 BAR		ANSI 150 BFLA				
BFL450 - DA - E	450										
BFL500 - DA - E	500										
BFL600 - DA - E	600										
For Non Potable - EPDM 100°C											

AIR / WATER / VACUUM



Model	Nominal Bore Ømm	Actuator	Media Pressure	Media Temperature	Actuator Voltage/Air Pressure	Material of Construction	Features				
<b>Spring Return Pneumatic · Ductile Iron</b>							<b>BFLSR</b>				
BFL550 - SR - E	50	SR63	16 BAR	-20°C	6-8 BAR	- Ductile Iron - 316 S/S disc - EPDM liner (E) - Optional Viton (V) NBR (N)  Replacable liner	Spring Return Pneumatic actuator. Direct pad mount.  AS2129 Table E or Table D   SMK26314 WMK26314 WSSA				
BFL565 - SR - E	65										
BFL580 - SR - E	80										
BFL5100 - SR - E	100										
BFL5125 - SR - E	125										
BFL5150 - SR - E	150										
BFL5200 - SR - E	200										
BFL5250 - SR - E	250										
BFL5300 - SR - E	300										
BFL5350 - SR - E	350										
BFL5400 - SR - E	400	SR240	10 BAR	40°C	6-8 BAR		ANSI 150 BFLA				
BFL5450 - SR - E	450										
BFL5500 - SR - E	500										
BFL5600 - SR - E	600										
For normally open function change 4th digit to 6											
For Non Potable - EPDM 100°C											

AIR / WATER / VACUUM



Model	Nominal Bore Ømm	Actuator	Media Pressure	Media Temperature	Actuator Voltage/Air Pressure	Material of Construction	Features				
<b>Electric On/Off · Ductile Iron</b>							<b>BFLE</b>				
BFL50 - E* - E	50	OM-1	16 BAR	-20°C	E1=240VAC E2=110VAC E5=24VAC E7=12VDC E8=24VDC E11=415VAC  IP67	- Ductile Iron - 316 S/S disc - EPDM liner (E) - Optional Viton (V) NBR (N)  Replacable liner	on/off electric actuator.  AS2129 Table E or Table D   SMK26314 WMK26314 WSSA				
BFL65 - E* - E	65										
BFL80 - E* - E	80										
BFL100 - E* - E	100										
BFL125 - E* - E	125										
BFL150 - E* - E	150										
BFL200 - E* - E	200										
BFL250 - E* - E	250										
BFL300 - E* - E	300										
BFL350 - E* - E	350										
BFL400 - E* - E	400	OM-7	10 BAR	40°C			ANSI 150 BFLA				
BFL450 - E* - E	450										
BFL500 - E* - E	500										
BFL600 - E* - E	600										
Power Open / Power Closed. Available in Spring Return Electric Actuation.											
For Non Potable - EPDM 100°C											

\* Please Note: For dry powder applications, upsized actuator is recommended. Contact factory for sizing.

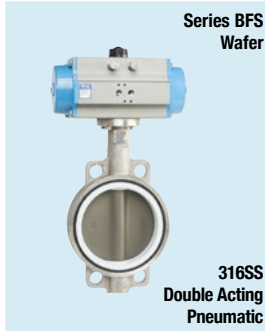
## Series BFS Wafer

AIR / WATER



Model	Nominal Bore Ømm	Actuator	Media Pressure	Media Temperature	Actuator Voltage/Air Pressure	Material of Construction	Features						
<b>Lever and Gear Operated · 316SS Body - PTFE Seat</b>													
<b>BFS</b>													
BFS50 - L - T	50	LEVER	10 BAR	-20°C		LEVER 304 SS	BODY MATERIAL 316 SS						
BFS65 - L - T	65												
BFS80 - L - T	80												
BFS100 - L - T	100												
BFS125 - L - T	125												
BFS150 - L - T	150												
BFS200 - L - T	200												
BFS250 - L - T	250												
BFS300 - L - T	300												
BFS350 - ISO - T	350												
BFS400 - ISO - T	400	GEARBOX	10 BAR	120°C		SEAT MATERIAL PTFE Coated NBR	WAFFER STYLE Suit Flanges Table E, D ANSI 150 & BS4504 PN10 AS4087 PN16, AS2129 Table E						
BFS450 - ISO - T	450												
BFS500 - ISO - T	500												
BFS600 - ISO - T	600												
Substitute 'G' for Gear Box option • Optional Lugged Valves Available													

AIR / WATER



Model	Nominal Bore Ømm	Actuator	Media Pressure	Media Temperature	Actuator Voltage/Air Pressure	Material of Construction	Features
<b>Double Acting Pneumatic · 316SS Body - PTFE Seat</b>							
<b>BFSDA</b>							
BFS50 - DA - T	50	DA63	10 BAR	-20°C	6-8 BAR	Body: 316 SS	Double acting Pneumatic actuator. Direct pad mount.
BFS65 - DA - T	65	DA75					
BFS80 - DA - T	80	DA75					
BFS100 - DA - T	100	DA88					
BFS125 - DA - T	125	DA100					
BFS150 - DA - T	150	DA115					
BFS200 - DA - T	200	DA125	10 BAR	120°C	6-8 BAR	Seat: PTFE Coated NBR	Optional: S/S Actuators
BFS250 - DA - T	250	DA160					
BFS300 - DA - T	300	DA180					

AIR / WATER



Model	Nominal Bore Ømm	Actuator	Media Pressure	Media Temperature	Actuator Voltage/Air Pressure	Material of Construction	Features
<b>Spring Return Pneumatic · 316SS Body - PTFE Seat</b>							
<b>BFSSR</b>							
BFS550 - SR - T	50	SR75	10 BAR	-20°C	6-8 BAR	Body: 316 SS	Spring Return Pneumatic actuator. Direct pad mount.
BFS565 - SR - T	65	SR88					
BFS580 - SR - T	80	SR88					
BFS100 - SR - T	100	SR100					
BFS125 - SR - T	125	SR115					
BFS150 - SR - T	150	SR125					
BFS200 - SR - T	200	SR145	10 BAR	120°C	6-8 BAR	Seat: PTFE Coated NBR	Optional: S/S Actuators
BFS250 - SR - T	250	SR180					
BFS300 - SR - T	300	SR200					

For normally open function change 4th digit to 6

AIR / WATER



Model	Nominal Bore Ømm	Actuator	Media Pressure	Media Temperature	Actuator Voltage/Air Pressure	Material of Construction	Features
<b>Electric On/Off · 316SS Body - PTFE Seat</b>							
<b>BFSE</b>							
BFS50 - E* - T	50	OM-1	10 BAR	-20°C	E1=240VAC E2=110VAC E5=24VDC E7=12VDC E8=24VDC 11=415VAC	Body: 316 SS	on/off electric actuator.
BFS65 - E* - T	65	OM-1					
BFS80 - E* - T	80	OM-A					
BFS100 - E* - T	100	OM-2					
BFS125 - E* - T	125	OM-3					
BFS150 - E* - T	150	OM-4					
BFS200 - E* - T	200	OM-4	10 BAR	120°C		Seat: PTFE Coated NBR	Optional: S/S Actuators
BFS250 - E* - T	250	OM-6					
BFS300 - E* - T	300	OM-7					

Available in Spring Return Electric Actuation and all St/St Electric Actuator

\* Please Note: For dry powder applications, upsized actuator is recommended. Contact factory for sizing.

### Series JMC

Model	Nominal Bore Ømm	Actuator	Media Pressure	Media Temperature	Flange Options	Material of Construction	Features
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#### MULTI PURPOSE

#### Ductile Iron · 20 Bar

#### JMC



<b>Series JMC</b>  <b>Wafer</b>	JMC31300 - 050	50	Bare Shaft (ISO) Lever, Gearbox, Pneumatic, Electric	20 BAR	-20°C           130°C Continuous	Standard: Wafer  Optional: Lug/Double Flange	<ul style="list-style-type: none"> <li>• Ductile Iron Body</li> <li>• 316 S/S disc</li> <li>• EPDM liner (E)</li> <li>• NBR liner (N) (Optional)</li> </ul>	<ul style="list-style-type: none"> <li>• Lever: Standard or Heavy Duty</li> <li>• Gearbox</li> <li>• Pneumatic: DA or SR</li> <li>• Electric</li> <li>• Simple Liner Replacement gives short down time.</li> <li>• Up to 2400mm Ø available</li> </ul>
	JMC31300 - 065	65						
	JMC31300 - 080	80						
	JMC31300 - 100	100						
	JMC31300 - 125	125						
	JMC31300 - 150	150						
	JMC31300 - 200	200						
	JMC31300 - 250	250						
	JMC31300 - 300	300						
	JMC31300 - 350	350						
	JMC31300 - 400	400						
	JMC31300 - 450	450						
JMC31300 - 500	500							
JMC31300 - 600	600							

<b>General Applications:</b> Water treatment, Food and drinks industries, Sugar and paper mills, Chemical, Oil, Offshore, Sea water, General industries.	<b>Technical Data:</b> Diameter (DM): 50 to 2400 Pressure (bar): 20 max Temperature (°C): -30 to 130	<b>Flange Types:</b> Diameter (DM): 50 to 2400 PN 6-25 / ANSI 150-300 / AWWA /JIS (Other: on request)	<b>Certifications and Approvals:</b> <b>Marine</b> (ABS, Bureau Veritas, DNV), <b>Oil</b> (Total), <b>Fire protection</b> (VDS, APSAD, UL, FM), <b>Potable water</b> (ACS, WRAS, PSB), <b>Food</b> (FDA), <b>Electrical continuity</b>
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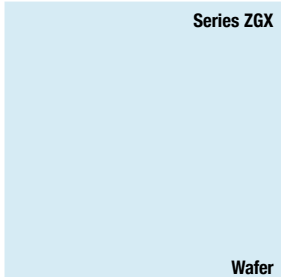
### Series ZGX Triple Eccentric

Model	Nominal Bore Ømm	Actuator	Media Pressure	Media Temperature	Flange Options	Material of Construction	Features
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#### SEVERE DUTY

#### Cast Steel · Triple Eccentric · 20 Bar

#### ZGX



<b>Series ZGX</b>  <b>Wafer</b>	ZGXH - 050	50	Bare Shaft (ISO) Lever, Gearbox, Pneumatic, Electric	20 BAR	-20°C           270°C	Standard: Wafer  Optional: Lug + Flange	<ul style="list-style-type: none"> <li>• Cast Steel Body</li> <li>• Cast Steel disc</li> <li>• Stellite/Graphite Seat 2205SS</li> </ul>	<ul style="list-style-type: none"> <li>• 270°C max temperature</li> <li>• Triple Eccentric</li> <li>• Long Life</li> <li>• Low Torque</li> <li>• The Seat wears in. The tighter it is closed the better the seal</li> <li>• Larger sizes available</li> <li>• Optional Lever, Pneumatic, Electric Actuators available</li> </ul>
	ZGXH - 065	65						
	ZGXH - 080	80						
	ZGXH - 100	100						
	ZGXH - 125	125						
	ZGXH - 150	150						
	ZGXH - 200	200						
	ZGXH - 250	250						
ZGXH - 300	300							

Sizes up to 2000mm Diameter available upon request.

<b>General Applications:</b> High temperature steam and liquids. Critical applications.	<b>Technical Data:</b> Diameter (DM): 50 to 2000 Pressure (bar): 20 Wafer: Connection	<b>Flange Types:</b> Wafer available for all flange types ANSI: - 150 - 200 - 600 - 900	<b>Certification &amp; Approvals:</b> ISO, CE, TS, API Optional to 20 Bar working pressure
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#### Valve Handle

#### Heavy Duty with Locking Beville

#### NPVLEV



Model	Mounting Interfaces	Drive Sizes Square	Body Material	Feature
NPVLEV - F0711 NPVLEV - F1014 NPVLEV - F1019	F07 F10 F10	11mm 14mm 19mm	CF8M	Heavy Duty for harsh environments. Locking handle for partial closure. Locking pin for security.

#### Valve Lockout

#### Safety Lockout for Valve / Actuator

#### VSL



Model	Mounting Interfaces	Drive Sizes Square	Body Material	Feature
VSL - * (13 models - See website for details)	F05 - F25	7mm - 55mm	2205 Duplex Stainless Steel	Locks directly onto valve spindle. Retrofit easily between valve and actuator. Wafer style externally compatible. Takes safety lockout tags.

## Electric

### Double Acting.



Model	Torque (NM) (NETT)	Speed Sec/90°		MTG Flange ISO5211	Drive MM (F to F)	Override	Visual Indicator 4 Way	IP67	Micro Switch for Feed Back Open/Close 0-250V 5amp	4-20mA Feed Back	IEC Ex Flame proof IP68
		AC	DC								
OM-1 - *	35	13	15	F03/F05	14	✓	✓	✓	✓		OM
OM-A - *	50	24	20	F05/F07	17	✓	✓	✓	✓		
OM-2 - *	90	17	15	F07/F10	22	✓	✓	✓	✓		
OM-3 - *	150	26	22	F07/F10	22	✓	✓	✓	✓		
OM-4 - *	400	18	16	F10/F12	36	✓	✓	✓	✓		
OM-5 - *	500	25	22	F10/F12	36	✓	✓	✓	✓		
OM-6 - *	650	31	28	F10/F12	36	✓	✓	✓	✓	OPTIONAL	
OM-7 - *	1000	55	46	F14#	36	✓	✓	✓	✓	OPTIONAL	OPTIONAL
OM-8 - *	1500	55	46	F14#	36	✓	✓	✓	✓	OPTIONAL	OPTIONAL
OM-9 - *	2000	70	58	F16#	75 Ø	✓	✓	✓	✓		Exdb11BT 4Gb, Exdb11CT130CDBIP68
OM-10 - *	2500	70	58	F16#	75 Ø	✓	✓	✓	✓		
OM-11 - *	3000	70	58	F16#	75 Ø	✓	✓	✓	✓		
OM-12 - *	3500	70	58	F16#	75 Ø	✓	✓	✓	✓		
OM-13 - *	4500	95	—	F25#	75 Ø	✓	✓	✓	✓		

### Power On, Power Off • Die Cast Housing • FBE Coating

### OM

### Modulating



### Input 4-20ma, 1-5V DC, 2-10V DC • Die Cast Housing • FBE Coating

### OMM

Model	Torque (NM)	Speed AC	Speed DC	MTG Flange	Drive	Override	Visual Indicator	IP67	Micro Switch	4-20mA	IEC Ex
OM-1M - *	35	13	15	F03/F05	14	✓	✓	✓	✓		OMM
OM-AM - *	50	24	20	F05/F07	17	✓	✓	✓	✓		
OM-2M - *	90	17	15	F07/F10	22	✓	✓	✓	✓		
OM-3M - *	150	26	22	F07/F10	22	✓	✓	✓	✓		
OM-4M - *	400	18	16	F10/F12	36	✓	✓	✓	✓		
OM-5M - *	500	25	22	F10/F12	36	✓	✓	✓	✓		
OM-6M - *	650	31	28	F10/F12	36	✓	✓	✓	✓	OPTIONAL	
OM-7M - *	1000	55	46	F14#	36	✓	✓	✓	✓	OPTIONAL	OPTIONAL
OM-8M - *	1500	55	46	F14#	36	✓	✓	✓	✓	OPTIONAL	OPTIONAL
OM-9M - *	2000	70	58	F16#	75 Ø	✓	✓	✓	✓		Exdb11BT 4Gb, Exdb11CT130CDBIP68
OM-10M - *	2500	70	58	F16#	75 Ø	✓	✓	✓	✓		
OM-11M - *	3000	70	58	F16#	75 Ø	✓	✓	✓	✓		
OM-12M - *	3500	70	58	F16#	75 Ø	✓	✓	✓	✓		
OM-13M - *	4500	95	—	F25#	75 Ø	✓	✓	✓	✓		

12 VDC Modulating Not Available

# Optional Mounting Available

### Stainless Steel



### Power on, Power Off. SS316 Housing

### OMS

Model	Torque (NM)	Speed AC	Speed DC	MTG Flange	Drive	Override	Visual Indicator	IP67	Micro Switch	4-20mA	IEC Ex
OMS-1 - *	35	13	15	F03/F05	14	✓	✓	✓	✓		OMS
OMS-2 - *	90	17	15	F07/F10	22	✓	✓	✓	✓		
OMS-3 - *	150	26	22	F07/F10	22	✓	✓	✓	✓		
OMS-4 - *	400	18	16	F10/F12	36	✓	✓	✓	✓		
OMS-5 - *	500	25	22	F10/F12	36	✓	✓	✓	✓		
OMS-6 - *	650	31	28	F10/F12	36	✓	✓	✓	✓	OPTIONAL	

Available with 4-20mA Modulating Control

### Spring Return



### Fail Safe • Die Cast Housing • FBE Coating • With and without manual override

### S

Model	Torque (NM)	Speed AC	Speed DC	MTG Flange	Drive	Override	Visual Indicator	IP67	Micro Switch	4-20mA	IEC Ex
S500 - *	50	9	3	7	3	F07	17	—	✓	✓	
S1300 - *	130	9	8	8	8	F10	22	—	✓	✓	
S2000 - *	200	13	12	11	12	F12	27	—	✓	✓	
S2600 - *	250	17	12	12	12	F12	27	—	✓	✓	
S3600 - *	360	19	19	24	24	F12	36	—	✓	✓	
S500 H - *	50	9	3	7	3	F07	17	—	✓	✓	
S1300 H - *	130	9	8	8	8	F10	22	—	✓	✓	
S2000 H - *	200	13	12	11	12	F12	27	—	✓	✓	
S2600 H - *	250	17	12	12	12	F12	27	—	✓	✓	
S3600 H - *	360	19	19	24	24	F12	36	—	✓	✓	

### Optional Items

### Multi-Turn Actuator • M41 • M55 • M80 • M100

Item	Description
On/Off	Limit Switches 2xZero Voltage L/S Standard with all actuators other than modulating. (0.250v. 5 amp)
OME	Modulating Control. 4-20MA, 1-5VDC, 2-10VDC
OMEM	Explosion Proof IECEx, ATEX, SIB
SE	Special Voltages — Including 415V 3 Phase
Local Control Unit	Local Control Unit
	Potentiometer (1K or 5K OHM)
	Torque Limiter
	Current Position Transmitter output 4-20MA
	Heater
	High Speed Open & Close, 3 Seconds, 8 Seconds
	Floating Controller
	Standard Voltages: 240vAC, 110vAC, 24vAC, 12vDC, 24vDC, 415vAC
	Other Voltages Available
	Slow Speed Open/Close Options to 150 Seconds

All above optional items are special order and subject to lead times.

## Pneumatic Double Acting

### Double Acting

Series DA

Aluminium Double Acting

Model	Double Acting Torque (Nm) @ 6 Bar Air Supply	MTG Flange ISO5211	Drive MM (F to F)	Features & Options
<b>Aluminium Body • Double Acting (Nett Torque) DA</b>				
DA32	8	F03	9	Standard: Visual indicator Adjustable stroke Anodised aluminium body (Std) NBR seals (80°C) 8 BAR (max)  Options: Viton seals  See page 29 for Drive Adapters
DA50	19.9	F03/F05	11	
DA63	35.2	F05/F07	14	
DA75	70	F05/F07	17	
DA88	110	F05/F07	17	
DA100	160	F07/F10	17	
DA115	258	F07/F10	22	
DA125	332	F07/F10	22	
DA145	522	F10/F12	27	
DA160	681	F10/F12	27	
DA180	919	F10/F14	36	
DA200	1276	F10/F14	36	
DA240	2785	F16	46	
DA270	3720	F16	46	
DA380	4636	F16	46	
DA570	6941	F16/F25	46	
DA800	9890	F16/F25	55	

### Double Acting

Series SDA

Stainless Steel Double Acting

Model	Double Acting Torque (Nm) @ 6 Bar Air Supply	MTG Flange ISO5211	Drive MM (F to F)	Features & Options	
<b>Stainless Steel Body • Double Acting (Nett Torque) SDA</b>					
SDA52	24	F04/F05	11	Standard: Visual indicator Adjustable stroke 304 Stainless Steel body (std) NBR seals (80°C) 8 BAR (max)  Options: Viton seals (120°C) SS316 Body	
SDA63	43	F05/F07	14		
SDA83	85	F05/F07	17		
SDA105	195	F07/F10	22		
SDA125	346	F07/F10	22		
SDA140	521	F10/F12	27		
SDA160	794	F10/F12	27		
SDA210	1596	F14	36		
Larger sizes available in Stainless Steel					

Scotch Yoke Actuator available in DA & SR for larger torques

## Pneumatic Spring Return

### Spring Return

Series SR

Aluminium Spring Return

Model	Spring Return (Full Spring Set)				MTG Flange ISO5211	Drive MM (F to F)	Features & Options
	Spring Torque (Close) (Nm)		Air Torque (Open)(Nm) @ 6 Bar Air Supply				
	0°	90°	0°	90°			
<b>Aluminium Body • Spring Return (Nett Torque) SR</b>							
SR50	8.1	11.7	11.9	8.2	F03/F05	11	Standard: Visual indicator Adjustable stroke Anodised aluminium body (Std) NBR seals (80°C) 8 BAR (max)  Options: Viton seals  See page 29 for Drive Adapters
SR63	13.3	20.2	21.9	14.9	F05/F07	14	
SR75	26.5	41.5	43.3	28.3	F05/F07	17	
SR88	44	69.3	65.8	40.5	F05/F07	17	
SR100	60.8	96.5	98.7	65	F07/F10	17	
SR115	98.4	157	159	100	F07/F10	22	
SR125	126	198	206	135	F07/F10	22	
SR145	198	309	324	213	F10/F12	27	
SR160	269	399	411	282	F10/F12	27	
SR180	379	568	540	351	F10/F14	36	
SR200	510	756	766	520	F10/F14	36	
SR240	1124	1685	1661	1100	F16	46	
SR270	1580	2369	2336	1548	F16	46	
SR380	1888	2744	2748	1892	F16	46	
SR570	2972	4313	3969	2629	F16/F25	46	
SR800	3311	4924	6580	4966	F16/F25	55	

### Spring Return

Series SSR

Stainless Steel Spring Return

Model	Spring Return (Full Spring Set)				MTG Flange ISO5211	Drive MM (F to F)	Features & Options	
	Spring Torque (Close) (Nm)		Air Torque (Open)(Nm) @ 6 Bar Air Supply					
	0°	90°	0°	90°				
<b>Stainless Steel Body • Spring Return (Full Spring Set) (Nett Torque) SSR</b>								
SSR52	10	14	13.5	8.5	F04/F05	11	Standard: Visual indicator Adjustable stroke 304 Stainless Steel body (std) NBR seals (80°C) 8 BAR (max)  Options: Viton seals SS316 Body	
SSR63	16	25	25	16	F05/F07	14		
SSR83	38	55	52	34	F05/F07	17		
SSR105	76	118	117	73	F07/F10	22		
SSR125	125	188	175	110	F07/F10	22		
SSR140	205	309	309	200	F10/F12	27		
SSR160	335	500	450	275	F10/F12	27		
SSR210	625	863	864	620	F14	36		
Larger sizes available in Stainless Steel								

Big range of Scotch Yoke Actuators available.

### Gear Box Cast Steel

Model	Speed Ratio	Torque (Nm)	Connection ISO 5211		Hand Wheel Dia (mm)	Drive <input type="checkbox"/> mm		Suggested Actuator Size	
		Output Max.	Valve	Actuator		Actuator	Valve	DA	SR

#### DE-CLUTCH



• Suitable for Ball Valve & Actuator Interface

DC1 - 11						11	11	52		52	
DC1 - 14	40:1	300	F05/F07	F05/F07	200	14	14	63		63	
DC1 - 17						17	17	75		75	
DC2 - 14						14	11	63		63	
DC2 - 17	28:1	350	F07	F07/F10	300	17	17	75	100	75	100
DC2 - 22						22	22	-		-	
DC3 - 22	32:1	640	F07/F10	F10/F12	300	22	22	115	125	115	125
DC4 - 27	50:1	1200	F10/F12	F10/F12	350	27	27	140	160	140	160
DC5 - 36	62:1	2100	F14	F14/F16	400	36	36	180	200	180	200
DC6 - 46	70:1	2800	F16	F14/F16	500	46	46	240	270	240	

- Features:
- Ductile Iron Body. FBE Coating.
  - IP67 Environment Protection.
  - SS316 Drive Shaft and Fastenings
  - Air Safety Interlock (Exhausts Actuator when Engaged)

Function: Can manually override a pneumatic actuated valve

\* Add Value Torque when sizing for Spring Return Actuator

Also available with SS316 Body

#### DIRECT



• Suitable for Ball Valve & Butterfly Valve

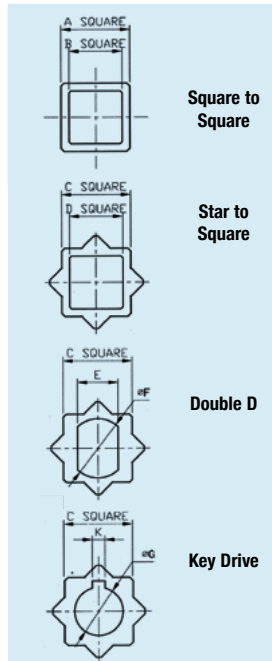
Model	Speed Ratio	Torque (Nm)	Connection ISO 5211	Hand Wheel Dia (mm)	Drive <input type="checkbox"/> mm	<input type="checkbox"/>	<input type="checkbox"/>
GB1	40:1	255	F05/F07	200	14	Ø 14 x 10 Ø 16 x 11	
GB2	36:1	570	F07/F10	300	22	Ø 19 x 13 Ø 22 x 16	
GB3	36:1	930	F10/F12	350	27 (or 36)	Ø 28 x 19	
GB4	50:1	1400	F14	400	36		Ø25 ~ Ø45
GB5	70:1	2600	F16	500	36 (or 46)		Ø45 ~ Ø75
GB6	140:1	5200	F16	500	46 (or 55)		Ø45 ~ Ø75
GB7	207:1	8000	F25	500	46 (or 55)		Ø60 ~ Ø80

- Features:
- Ductile Iron Body. FBE Coating
  - IP67 Environment Protection. IP68 Optional
  - SS316 Drive Shaft and Fastenings
  - Suitable for Ball and Butterfly Valves
  - Visual Position Indicator
  - Optional Chain Drive GBC

Full SS316 Available on request

- = Square Drive (standard)
- = Double D (optional)
- = Custom Hole & Keyway (optional)

#### DRIVE ADAPTORS



#### Mounting Brackets



- Adapters - Customised as requested.
- Shaft Extensions - Customised for Butterfly and Gate Valves
- Special - Valve Assemblies Made to Order

BKT 1	F03 - F04 - F05
BKT 2	F04 - F05 - F07
BKT 3	F07 - F10 - F12
BKT 4	F10 - F12 - F14
BKT 5	F10 - F12 - F14 - F16

#### Square to Square mm    Star to Square mm    Double D mm to Star    Key Drive mm to Star

Model	A	B	Model	C	D	Model	C	E	ØF	Model	C	K	ØG	Length
ZT 11 - 9	11	9	ST 11 - 9	11	9					KD 17 - 12.8	17	3	12.8	19
ZT 14 - 9	14	9	ST 14 - 9	14	9					KD 19 - 12.8	19	3	12.8	19
ZT 14 - 11	14	11	ST 14 - 11	14	11									
ZT 17 - 9	17	9	ST 17 - 9	17	9					KD 22 - 15.9	22	5	15.9	24
ZT 17 - 11	17	11	ST 17 - 11	17	11	DT 17 - 9.6	17	9.6	14.5	KD 22 - 19.05	22	5	19.05	24
ZT 17 - 14	17	14	ST 17 - 14	17	14	DT 17 - 11.2	17	11.2	16.1					
ZT 22 - 14	22	14	ST 19 - 11	19	11	DT 22 - 16.1	22	11.2	16.1	KD 27 - 19.05	27	5	19.05	29
ZT 22 - 17	22	17	ST 19 - 14	19	14	DT 22 - 19.25	22	12.8	19.25	KD 27 - 22.2	27	5	22.2	29
ZT 22 - 19	22	19	ST 19 - 17	19	17									
ZT 27 - 17	27	17	ST 22 - 14	22	14	DT 27 - 19.25	27	12.8	19.25	KD 36 - 28.7	36	8	28.7	38
ZT 27 - 22	27	22	ST 22 - 17	22	17	DT 27 - 22.4	27	16	22.4	KD 36 - 31.8	36	8	31.8	38
ZT 35 - 27	35	27	ST 27 - 19	27	19									
ZT 36 - 22	36	22	ST 27 - 17	27	17	DT 36 - 22.4	36	16	22.4	KD 46 - 31.8	46	8	31.8	48
ZT 36 - 27	36	27	ST 27 - 22	27	22					KD 46 - 33.3	46	10	33.3	48
			ST 35 - 19	35	19					KD 46 - 38.1	46	10	38.1	48
			ST 36 - 22	36	22					KD 46 - 41.4	46	12	41.4	48
			ST 36 - 27	36	27									
			ST 46 - 36	46	36									

Custom Drive Extensions (S/S316) Consult Factory • GBC Chain Drive and Gear Box assembly available.

– For further technical information contact Process Systems or your distributor.

– (std. = Standard Product).

\* VOLTAGE CODE: 1 = 240VAC, 2 = 110VAC, 5 = 24VAC, 7 = 12VDC, 8 = 24VDC, 11 = 415AC

• ELASTOMER CODE: V = Viton (FKM), S = Silicone, T = PTFE, E = EPDM, N = NBR Nitrile, NC = Normally closed, NO = Normally open



- Limit Switch Box • Positioner
- Heavy Duty Valve Handle
- Safety Lockout

## Feed Back

### Limit Switch Box



Model	Rating	Sensor	Temp.	Other	Enclosure
<b>Aluminium Enclosure • Rewired • Hi Visual Indicator • IP67</b>					
SK - 100	IP67	2 x SPDT Mechanical Switch 10 Amp AC 250V Max 2 Amp DC	-20°C – 80°C	2 Cable Entry M20 x 1.5	<b>SK</b> Die Cast Aluminium. Powder Coated.  SK-1 Bracket Standard  (Equivalent to APL2ION)

### Limit Switch Box



<b>Aluminium Enclosure • Explosive Atmosphere • IP66</b>					
ALS 500 M2 Ex	IP66	15A SPDT x 2 (Std) 15A SPDT x 3 } Optional 15A SPDT x 4 }	-25°C – 85°C	2 Cable Entry M20 x 1.5	<b>ALSEX</b> Die Cast Aluminium. Powder Coated.  Coated Bracket Supplied to suit DA/SR 50-270 Exd II BT6 IEC Ex CQM 12.0047 IP66
Explosive Atmosphere		Various Inductive Sensors (Optional)			

### Limit Switch Box



<b>316 Stainless Steel Enclosure • Explosive Atmosphere • IP66</b>					
ALS 600 M2 Ex	IP66	15A SPDT x 2 (Std) 15A SPDT x 3 } Optional 15A SPDT x 4 }	-25°C – 85°C	2 Cable Entry M20 x 1.5	<b>ALSEX</b> 316SS Body  SS Bracket Supplied to suit DA/SR 50-270 Exd II BT6 IEC Ex CQM 12.0047 IP66
Explosive Atmosphere		Various Inductive Sensors (Optional)			

### Rotary Electro-Pneumatic Positioner • IP66 • DA (Std) SR optional



Model	Function	Rating	Features and Options
POS - A	Analogue DA & SR	Weatherproof IP66 Sensitivity 0.4%	1.5% Hysteresis 3LPM@1.5 BAR AIR  Powder Coated Aluminium Body Conduit Entry M20 X 1.5 Input 4-20mA Output 4-20mA Supply Pressure 1.4 ~ 7 BAR 90° Rotation  Powder Coated Steel (Black) Bracket supplied to suit DA/ SR 50-270 Standard. Other Brackets - Please specify when ordering.
POS - D	Digital DA	Weatherproof IP66 Sensitivity 0.4%	
POS - DS	Digital SR	Smart Positioner	
DA = Double Acting (Standard) SR = Single Acting (Optional) PLEASE SPECIFY WHEN ORDERING			

### Linear Electro-Pneumatic Positioner • IP66 • DA (Std) SR optional



Model	Function	Rating	Features and Options
POS - LIN - D	Linear DA	Weatherproof IP66 Sensitivity 0.4%	1.5% Hysteresis 3LPM@1.5 BAR AIR  Powder Coated Aluminium Body Conduit Entry M20 X 1.5 Input 4-20mA Output 4-20mA Supply Pressure 1.4 ~ 7 BAR  Powder Coated Steel (Black) Bracket supplied to suit DA/ SR 50-270  For Actuators greater than 180cm3 Volume. Standard with 10-40mm Feedback Lever. Larger Lever on request
POS - LIN - SR	Linear SR		
DA = Double Acting (Standard) SR = Single Acting (Optional) PLEASE SPECIFY WHEN ORDERING			

### Mounting Brackets Optional Material & Function



Mounting Brackets		To suit Actuators	Base Holes	Height mm	Material:
SK-1 BKT SK-2 BKT	Std. BKT Optional	DA/SR 50 - 100 Old Style High Mounting	80 x 30 80 x 30	30 40	SS304 50mm PCG Mounting (F05)
Sk-3 BKT SK-4 BKT	Optional Optional	DA/SR 115 - 240 Old Style High Mounting	130 x 30 130 x 30	40 60	
SK-M1	Multi Function	Suits most size Actuators DA/SR 50-270	80 x 30 130 x 30	30/40 30/40	Powder Coated Steel – Black. 50mm (F05) Limit Switch Mounting
SK-M	Multi Function	Suits most size Actuators DA/SR 50-270	80 x 30 130 x 30	40/52.5 40/52.5	Powder Coated Steel – Black. 50mm (F05) Limit Switch Mounting

## Knife Gate

Model	Orifice Ømm	Diameter Nominal (D/N)	Actuator	Media Pressure	Media Temperature	Actuator Air Pressure	Material of Construction	Features
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### Manual Hand Wheel • Cast Iron • Unidirectional

### KGDPHW



KGDPHW - 50	50	50	HAND WHEEL RISING STEM	10 BAR	0°C		Blade: SS316 Body: Cast Iron Stem: SS304 Shroud: FBE Coated Steel Seats: NBR Packing: PTFE	Low Torque Hand Wheel Fusion Bonded Epoxy Coating Rising Stem
KGDPHW - 65	65	65						
KGDPHW - 80	80	80						
KGDPHW - 100	100	100						
KGDPHW - 125	125	125						
KGDPHW - 150	150	150						
KGDPHW - 200	200	200						
KGDPHW - 250	250	250						
KGDPHW - 300	300	300						
					10 BAR			

Sizes up to 1000mm available • AS2129 Table E • AS4087 • Sizes above 300mm EN1092 Flange

### Manual Hand Wheel ST/ST • Unidirectional

### KGSHR



KGSHR/M - 50	45	50	HAND WHEEL RISING STEM	10 BAR	0°C		Blade: SS316 Body: SS316 Stem: SS304 Shroud: SS304 Seats: NBR or Metal Optional: VITON, EPDM	Metal or Elastomer Seat Fully Lugged Uni-Directional Rising Stem Optional: ANSI 150
KGSHR/M - 65	60	65						
KGSHR/M - 80	74	80						
KGSHR/M - 100	93	100						
KGSHR/M - 125	116	125						
KGSHR/M - 150	138	150						
KGSHR/M - 200	188	200						
KGSHR/M - 250	233	250						
KGSHR/M - 300	281	300						
KGSHR/M - 350	330	350						
KGSHR/M - 400	368	400		10 BAR	80°C NBR 100°C METAL			
KGSHR/M - 450	415	450			Optional VITON / EPDM			
KGSHR/M - 500	460	500						
KGSHR/M - 600	560	600						

Sizes up to 1000mm available • N = NBR Seat • M = Metal Seat • AS2129 Table E (STD) • AS4087 • Optional ANSI 150

### Double Acting Pneumatic ST/ST • Unidirectional

### KGSDA



KGSDAN/M - 50	45	50	DOUBLE ACTING PNEUMATIC	10 BAR	0°C	6-8 BAR	Blade: SS316 Body: SS316 Stem: SS304 Shroud: SS304 Seats: NBR or Metal Optional: VITON, EPDM	Double Acting Pneumatic Fully Lugged Uni-Directional Magnetic Piston for Reed Switch Feedback Optional: ANSI 150
KGSDAN/M - 65	60	65						
KGSDAN/M - 80	74	80						
KGSDAN/M - 100	93	100						
KGSDAN/M - 125	116	125						
KGSDAN/M - 150	138	150						
KGSDAN/M - 200	188	200						
KGSDAN/M - 250	233	250						
KGSDAN/M - 300	281	300						
KGSDAN/M - 350	330	350						
KGSDAN/M - 400	368	400		10 BAR	80°C NBR 100°C METAL			
KGSDAN/M - 450	415	450			Optional VITON / EPDM			
KGSDAN/M - 500	460	500						
KGSDAN/M - 600	560	600						

Sizes up to 1000mm available • N = NBR Seat • M = Metal Seat • AS2129 Table E (STD) • AS4087 • Optional ANSI 150

- Options: Micro Sensors (Electric & Pneumatic), Deflector Cones, Solenoid & Remote Control, Extensions, Electric Control, Chain Drive, ANSI 150 Flange, Higher Pressure.
- Optional Limit Switches. KGM = Mechanical Lever SPDT IP65 (10amp 250v AC/DC) KGR = Magnetic Reed Switch SPST IP65 (10mA max 5-120v AC/DC)

### Gate Valves

#### AIR / WATER



Model	Nominal Bore Ømm	Actuator	Connection	Media Pressure	Media Temperature	Material of Construction	Features
<b>Manual Hand Wheel · Brass Body · BSP</b>							<b>GVB</b>
GVB - 04	15	HAND WHEEL RISING STEM	1/2	16 BAR	-20°C	Body: Brass Seat: Brass Gland: PTFE	Economical Isolation Valve Media: Air/Water
GVB - 05	20		3/4				
GVB - 06	25		1				
GVB - 07	32		1-1/4				
GVB - 08	40		1-1/2				
GVB - 09	50		2				
GVB - 11	80		3	16 BAR	120°C		
GVB - 12	100		4				

#### AIR / STEAM



Model	Nominal Bore Ømm	Actuator	Connection	Media Pressure	Media Temperature	Material of Construction	Features
<b>Manual Hand Wheel · Forged Steel · Class 800 · NPT</b>							<b>GVF8</b>
GVF8 - 04	15	HAND WHEEL RISING STEM	1/2	13.62 Mpa @ -29 to 35 deg C	454 deg C @ 5.5 Mpa	Body: Forged Steel Seat: Cr13 Gland: Flexible Graphite Coating: Black Steel	ASTM A105 API 602 design ASME B1.20.1 ends API 598 test Class 800 Media: Fluid/Steam
GVF8 - 05	20		3/4				
GVF8 - 06	25		1				
GVF8 - 07	32		1-1/4				
GVF8 - 08	40		1-1/2				
GVF8 - 09	50		2				

#### WATER / FLUIDS



Model	Nominal Bore Ømm	Actuator	Connection	Media Pressure	Media Temperature	Material of Construction	Features
<b>Manual Hand Wheel · Carbon Steel · ANSI 150 · Rising Stem · ANSI 300</b>							<b>GVWR + GVWR3</b>
GVWR - 50	50	MANUAL HAND WHEEL RISING STEM	RF FLANGED ANSI 150	1964 Kpa @ -29 to 35 deg C	260 deg C @ 1171 Kpa	Body: Cast Steel Wedge: Cast Steel Packing: Graphite/304 Coating: Silver Primer	ASTM A216-WCB API 600 Design ASME B16.10 ASME B16.5 ends API 598 test Media: Fluid/Steam
GVWR - 65	65						
GVWR - 80	80						
GVWR - 100	100						
GVWR - 125	125						
GVWR - 150	150						
GVWR - 200	200						
GVWR - 250	250						
GVWR - 300	300						

Optional: Class 300, 600, 900, 1500, 2500 - ANSI 300 GVWR3

#### WATER / FLUIDS



Model	Nominal Bore Ømm	Actuator	Connection	Media Pressure	Media Temperature	Material of Construction	Features
<b>Manual Hand Wheel · SS316 · BSP</b>							<b>GVS</b>
GVS - 04	15	HAND WHEEL RISING STEM	1/2	13 BAR AIR / WATER	-20°C	Body: SS316 Seat: SS316 Gland: PTFE	ANSI 816.34 Design BS21/2779 ends API 598 test Media: Fluid
GVS - 05	20		3/4				
GVS - 06	25		1				
GVS - 07	32		1-1/4	16 BAR FLUID 10 BAR STEAM	180°C		
GVS - 08	40		1-1/2				
GVS - 09	50		2				

#### WATER / FLUIDS



Model	Nominal Bore Ømm	Actuator	Connection	Media Pressure	Media Temperature	Material of Construction	Features
<b>Manual Hand Wheel · Rising Stem · SS316 · ANSI 150</b>							<b>GVSF</b>
GVSF - 50	50	MANUAL HAND WHEEL RISING STEM	RF FLANGED ANSI 150	1964 Kpa @ -29 to 35 deg C	260 deg C @ 1171 Kpa	Body: CF8M Wedge: CF8M Stem: F316 Packing: Graphite/316	CF8M API 600 Design ASME B16.10 ASME B16.5 ends API 598 test Media: Fluid/Steam
GVSF - 65	65						
GVSF - 80	80						
GVSF - 100	100						
GVSF - 125	125						
GVSF - 150	150						
GVSF - 200	200						
GVSF - 250	250						
GVSF - 300	300						

Optional: Class 300, 600

## Gate Valves

### WATER / FLUIDS



Model	Nominal Bore Ømm	Actuator	Connection	Media Pressure	Media Temperature	Material of Construction	Features
<b>Manual Hand Wheel • Ductile Iron • AS4087 PN16</b>							
GVC - 050	050	MANUAL HAND WHEEL NON RISING STEM	RF FLANGED AS 4087 PN16	16 BAR	0°C	Body: Ductile Iron Powder Coated Wedge: EPDM Coated Ductile Iron Stem: Stainless Steel Bonnet: Ductile Iron Bush: Bronze Coating: R4-ES FBE Counter Clockwise to Open	Design AS 2638.2-2006 End Flange Standard: AS4087 PN16 Optional: AS2129 Table E SMK26312 WMK26312 WSSA
GVC - 065	065						
GVC - 080	080						
GVC - 100	100						
GVC - 125	125						
GVC - 150	150						
GVC - 200	200						
GVC - 250	250						
GVC - 300	300						
GVC - 350	350						
GVC - 400	400						
GVC - 450	450						
GVC - 500	500						
GVC - 600	600						
Optional • Metal Seat • Key Cap							

### FLOW CONTROL



Model	Nominal Bore Ømm	Actuator	Connection	Media Pressure	Media Temperature	Material of Construction	Features
<b>Needle Valve - SS316 • BSP</b>							
NVS - 01	5	MANUAL TEE LEVER	1/8	408 BAR	180°C	Body: SS316 Packing: PTFE	Fine Adjustment of Flow
NVS - 02	5		1/4				
NVS - 03	5		3/8				
NVS - 04	5		1/2				
NVS - 05	7		3/4				
NVS - 06	9		1				

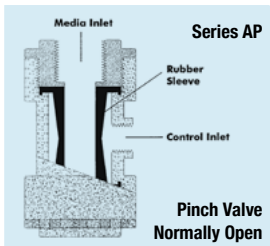
### AIR / FLUID / STEAM



Model	Nominal Bore Ømm	Actuator	Connection	Media Pressure	Media Temperature	Material of Construction	Features
<b>Angle Seat Valve - SS316 • BSP</b>							
AS5 - 04 - SR	13	PNEUMATIC ACTUATING SPRING CLOSED	1/2	Over Seat 16 BAR	-10°C	Body & Actuator: SS316 Packing: PTFE FKM	Compact Design Single Acting (Spring return) Normally Closed
AS5 - 05 - SR	18		3/4				
AS5 - 06 - SR	24		1				
AS5 - 07 - SR	31		1-1/4				
AS5 - 08 - SR	35		1-1/2				
AS5 - 09 - SR	45		2				
Optional Proximity Switch • DA Actuator • Tri-Clover Clamps							

## Pinch Valve Rubber

### FLUID / SLURRY



Model	Nominal Bore mm	N.O. - BSP	Media Pressure	Pilot Pressure	Specification	Material of Construction	Features
<b>Pinch Valve - Plastic • Air Pilot Control • Normally Open</b>							
STANDARD	Bore MM	N.O.	BSP	Media	Pilot	Housing: G.R Nylon Sleeve: NBR	Air, Fluid & Dry Flowables. Viscous Fluid Slurry Sludge Service No Blockage. Full Flow. Air pilot operated
AP - 6331	6		1/4	3.4	5.5		
AP - 6291	8		3/8	4	6		
AP - 6222	16		3/4	4	6		
AP - 6206	32		1 1/4	4	6		
AP - 6603	50	N.O.	2	3.4	4.7		

## Globe Valve

Model	Nominal Bore Ømm	Actuator	Connection	Media Pressure	Media Temperature	Material of Construction	Features
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### AIR / FLUID

#### Manual Hand Wheel • SS316 • BSP

#### GLS



GLS - 04 GLS - 05 GLS - 06 GLS - 07 GLS - 08 GLS - 09	15 20 25 32 40 50	MANUAL HAND WHEEL RISING STEM	1/2 3/4 1 1-1/4 1-1/2 2	BSP 13 BAR AIR/WATER/ OIL	-20°C 180°C	Body: SS316 Seat: SS316 Packing: PTFE	ANSI B16.34 Design BS21/2779 ends API598 Test Media: Air/Water/Oil
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### AIR / FLUID / STEAM

#### Manual Hand Wheel • Forged Steel • Class 800 • NPT

#### GLF8



GLF8 - 04 GLF8 - 05 GLF8 - 06 GLF8 - 07 GLF8 - 08 GLF8 - 09	15 20 25 32 40 50	MANUAL HAND WHEEL RISING STEM	1/2 3/4 1 1-1/4 1-1/2 2	NPT 13.62 Mpa @ -29 to 35 deg.C	454 deg.C @ 5.5 Mpa	Body: Forged Steel Seat: 13Cr Packing: Flexible Graphite Coating: Black Steel	ASTM A105 API 602 design ASME B1.20.1 ends API598 Test Class 800 Media: Fluid/Steam
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### AIR / FLUID / STEAM

#### Manual Hand Wheel • Carbon Steel • ANSI 150

#### GLOW



GLOW - 50 GLOW - 65 GLOW - 80 GLOW - 100 GLOW - 125 GLOW - 150 GLOW - 200 GLOW - 250 GLOW - 300	50 65 80 100 125 150 200 250 300	MANUAL HAND WHEEL RISING STEM	ANSI 150 FLANGE	1984 Kpa @ -29 to 35 deg.C	260 deg.C @ 1171 Kpa	Body: Cast Steel Seat: Stellite Packing: Flexible Graphite Coating: Silver primer Optional: Bellows Seal	ASTM A216-WCB ASME B16.34 design ASME B16.10 ASME B16.5 ends API 598 test Media: Fluid/Steam
Optional: Class 600							

### AIR / FLUID / STEAM

#### Manual Hand Wheel • Carbon Steel • ANSI 300

#### GLOW3



GLOW3 - 50 GLOW3 - 65 GLOW3 - 80 GLOW3 - 100 GLOW3 - 125 GLOW3 - 150 GLOW3 - 200	50 65 80 100 125 150 200	MANUAL HAND WHEEL RISING STEM	ANSI 300 FLANGE	5170 Kpa @ -29 to 35 deg.C	260 deg.C @ 1171 Kpa	Body: Cast Steel Seat: Stellite Packing: Flexible Graphite Coating: Silver primer Optional: Bellows Seal	ASTM A216-WCB ASME B16.34 design ASME B16.10 ASME B16.5 ends API 598 test Media: Fluid/Steam
Optional: Class 600							



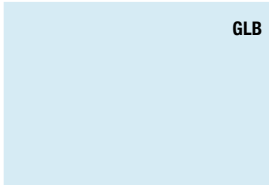
#### Bellow Sealed Globe Valve • Hot & Cold Water • Steam

#### BSV-2EN



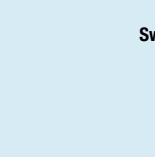




BSV-2EN-015 BSV-2EN-020 BSV-2EN-025 BSV-2EN-032 BSV-2EN-040 BSV-2EN-050 BSV-2EN-065 BSV-2EN-080 BSV-2EN-100 BSV-2EN-125 BSV-2EN-150	15mm 20mm 25mm 32mm 40mm 50mm 65mm 80mm 100mm 125mm 150mm	MANUAL HAND WHEEL NON RISING	PN16 FLANGE	16 BAR	300°C	Body: Ductile Iron Internals: Stainless Steel PN25 Undrilled 25-150mm	Zero Leakage by Two-Stage Sealing Extremely Low Torque and Maintenance Free
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#### Bronze Globe Valves • Threaded & Flanged • Hot & Cold Water • Steam

#### GLB



GLB Threaded	1/2" - 2" BSP	MANUAL HAND WHEEL	BSP	16 BAR	225°C	Body & Bonnet: Bronze Body Seat Ring, Disc & Stem: Stainless Steel
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Check Valve		Model	Nominal Bore Ømm	Connection	Nominal Cracking Pressure	Media Pressure	Media Temperature	Material of Construction	Features
<b>AIR / FLUID / AQUACULTURE</b>		<b>Ball Check • PVC</b>						<b>BCP</b>	
 <p>Series BCP Ball Check PVC Body</p>	BCPE - 04	15	1/2	BSP	0.1 BAR Depending on Valve Size	10 BAR	Ambient	UPVC Body Seat: EPDM Optional Diaphragm: Viton FKM	Optional: BSP Threaded Standard: Solvent Welded
	BCPE - 05	20	3/4						
	BCPE - 06	25	1						
	BCPE - 08	40	1-1/2						
	BCPE - 09	50	2						
		FKM Optional							
<b>AIR / WATER</b>		<b>Piston Check • Brass • BSP</b>						<b>PCBN</b>	
 <p>Series PCBN Piston Check Brass</p>	PCBN - 04	15	1/2	BSP	0.1 BAR	16 BAR	-0°C	Body: Brass Seat: NBR	Economical Can be mounted in any attitude Media: Air/Water
	PCBN - 05	20	3/4						
	PCBN - 06	25	1						
	PCBN - 07	32	1-1/4			16 BAR	80°C		
	PCBN - 08	40	1-1/2						
	PCBN - 09	50	2						
PCBN - 11	80	3							
<b>AIR / WATER</b>		<b>Swing Check • SS316 • BSP</b>						<b>SCS + SCB</b>	
 <p>Series SCS Swing Check Stainless Steel</p>	SCS - 04	15	1/2	BSP	0.1 BAR	13 BAR	-20°C	Body: Stainless Steel 316 Seat: NBR	Economical Horizontal Mounting Media: Air/Water/ Steam
	SCS - 05	20	3/4						
	SCS - 06	25	1						
	SCS - 07	32	1-1/4			13 BAR	180°C		
	SCS - 08	40	1-1/2						
SCS - 09	50	2							
		SCB Brass Check Valve available 1/2"-2" BSP							
<b>AIR / WATER / STEAM</b>		<b>Piston Check • Forged Steel • Class 800 • NPT</b>						<b>PCF8</b>	
 <p>Series PCF8 Piston Check Class 800 Forged Steel</p>	PCF8 - 04	15	1/2	NPT	0.1 BAR Depending on Valve Size	13.62 Mpa @ -29 to 35 deg C	454 deg C @ 5.5 Mpa	Body: Forged Steel Seat: Cr13 Gasket: Flexible Graphite/304 Coating: Black Steel	ASTM A105 API 602 design ASME B1.20.1 ends API 598 Test Class 800 Media: Air/Fluid/Steam
	PCF8 - 05	20	3/4						
	PCF8 - 06	25	1						
	PCF8 - 07	32	1-1/4						
	PCF8 - 08	40	1-1/2						
	PCF8 - 09	50	2						
		Larger Sizes Available							
<b>STEAM / FLUID / PETROCHEMICAL</b>		<b>Swing Check • Carbon Steel • ANSI 150 • Full Bore • ANSI 300</b>						<b>SCFW</b>	
 <p>Series SCFW Swing Check Carbon Steel</p>	SCFW - 50	50	ANSI 150	0.1 BAR Depending on Valve Size	1964 Kpa @ -29 to 35 deg C	260 deg C @ 1171 Kpa	Body: Cast Steel Disc: Cast Steel Coating: Silver Primer Gasket: Graphite/304	ASTM A216-WCB ASME B16.34 design ASME B16.10 ASME B16.5 ends API 598 test Full Bore Media: Air/Fluid/Steam	
	SCFW - 80	80							
	SCFW - 100	100							
	SCFW - 125	125							
	SCFW - 150	150							
	SCFW - 200	200							
	SCFW - 250	250							
	SCFW - 300	300							
		* AVAILABLE ANSI 300							
<b>AIR / FLUID / STEAM</b>		<b>In-Line Check Valve • SS316 • 2 Piece</b>						<b>ICS</b>	
 <p>Series ICS Stainless Steel Threaded 2 Piece</p>	ICS - 04	15	1/2	BSP	0.1 BAR Depending on Valve Size	54 BAR	-20°C	Body: CF8M/SS316 Seat: SS316 Gasket: PTFE	Design to ANSI B16.34 Test API 1598 Media: Fluids
	ICS - 05	20	3/4						
	ICS - 06	25	1						
	ICS - 07	32	1-1/4			54 BAR	180°C		
	ICS - 08	40	1-1/2						
	ICS - 09	50	2						
<b>AIR / FLUID / STEAM</b>		<b>In-Line Check Valve • SS316 • 3 Piece</b>						<b>ICS3</b>	
 <p>Series ICS3 Stainless Steel Threaded 3 Piece</p>	ICS3 - 04	15	1/2	BSP	0.1 BAR Depending on Valve Size	54 BAR	-20°C	Body: CF8M/SS316 Seat: SS316 Gasket: PTFE	Design to ANSI B16.34 Test API 1598 Media: Fluids/Steam
	ICS3 - 05	20	3/4						
	ICS3 - 06	25	1						
	ICS3 - 07	32	1-1/4			54 BAR	180°C		
	ICS3 - 08	40	1-1/2						
	ICS3 - 09	50	2						

### Check Valve

#### AIR / WATER / STEAM



Series PCS  
Piston Check  
SS316

Model	Bore Ømm		Connection	Nominal Cracking Pressure	Media Pressure	Media Temperature	Material of Construction	Features
	Nominal	Orifice						
<b>Piston Check · SS316</b>								
PCS - 04	1/2		15	0.3 BAR	800 PSI 54 BAR	-10°C  180°C	316 Ss/St  PTFE Seat	One Way Flow
PCS - 05	3/4		20					
PCS - 06	1	BSP	25					
PCS - 07	1-1/4		32					
PCS - 08	1-1/2		40					
PCS - 09	2		50					

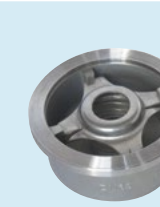
#### FLUID / PETROCHEMICAL Swing Check · SS316 Body - Wafer



Series SCVS  
  
Check Valve  
SS316 Wafer  
Viton Seat

Model	Bore Ømm		Connection	Nominal Cracking Pressure	Media Pressure	Media Temperature	Material of Construction	Features
	Nominal	Orifice						
<b>Swing Check · SS316 Body - Wafer</b>								
SCVS - 50	50	32	WAFER	0.1 BAR Depending on Valve Size	16 BAR	-20°C	Body: CF8M Disc: CF8M Pins: SS316 Seat: Viton (FKM)	Wafer Design
SCVS - 65	65	40						
SCVS - 80	80	54						
SCVS - 100	100	70						
SCVS - 125	125	92						
SCVS - 150	150	114						
SCVS - 200	200	154			16 BAR	120°C		Fits in horizontal pipe.
SCVS - 250	250	200						
SCVS - 300	300	230						

#### FLUID / STEAM



Series SDC  
  
Single Disc  
Metal Seat 316SS

Model	Bore Ømm		Connection	Nominal Cracking Pressure	Media Pressure	Media Temperature	Material of Construction	Features
	Nominal	Orifice						
<b>Disc Check · SS316 Body · Wafer · Metal Seat</b>								
SDC - 15	15		WAFER	0.1 BAR Depending on Valve Size	40 BAR	-20°C	Body: CF8M Disc: CF8M Spring: SS316 Metal to Metal Seat	Wafer Design
SDC - 20	20							
SDC - 25	25							
SDC - 32	32							
SDC - 40	40							
SDC - 50	50							40 BAR
SDC - 65	65							
SDC - 80	80							
SDC - 100	100							
SDC - 125	125							
SDC - 150	150							
SDC - 200	200							
								Metal to Metal Seat
								Reduced Flow
								Media: Fluid/Steam
								DIN 3202-K4 Face to Face

#### FLUID / PETROCHEMICAL Duo Check · SS316 Body · Wafer



Series DCVS  
  
Duo Check  
FKM Seat/316SS

Model	Bore Ømm		Connection	Nominal Cracking Pressure	Media Pressure	Media Temperature	Material of Construction	Features
	Nominal	Orifice						
<b>Duo Check · SS316 Body · Wafer</b>								
DCVS - 50	50		WAFER	0.1 BAR Depending on Valve Size	40 BAR	-20°C	Body: CF8M Disc: CF8M Pins: SS316 Seat: FKM (Viton)	CF8M
DCVS - 65	65							
DCVS - 80	80							
DCVS - 100	100							
DCVS - 125	125							
DCVS - 150	150							40 BAR
DCVS - 200	200							
DCVS - 250	250							
DCVS - 300	300							

#### STEAM / FLUID / PETROCHEMICAL Swing Check · SS316 Body · ANSI 150



Series SCFS  
  
Swing  
Check  
316SS

Model	Bore Ømm		Connection	Nominal Cracking Pressure	Media Pressure	Media Temperature	Material of Construction	Features
	Nominal	Orifice						
<b>Swing Check · SS316 Body · ANSI 150</b>								
SCFS - 050	50		ANSI 150	0.1 BAR Depending on Valve Size	20 BAR	0°C	Body: CF8M Disc: CF8M Pins: SS316 Gasket: Flexible Graphite/316	CF8M
SCFS - 080	80							
SCFS - 100	100							
SCFS - 125	125							
SCFS - 150	150							
SCFS - 200	200							20 BAR
SCFS - 250	250							
SCFS - 300	300							

#### AIR / WATER



Series DCVC  
  
Check Valve  
Cast Iron Wafer  
DUO Check SS Disc

Model	Bore Ømm		Connection	Nominal Cracking Pressure	Media Pressure	Media Temperature	Material of Construction	Features
	Nominal	Orifice						
<b>Duo Check · Cast Iron Body &amp; Wafer</b>								
DCVC - 50	50	43	WAFER	0.1 BAR Depending on Valve Size	16 BAR	-10°C	Body: Cast Iron Disc: CF8M Seat: EPDM Coating: FBE	Wafer Design
DCVC - 65	65	60						
DCVC - 80	80	66						
DCVC - 100	100	90						
DCVC - 125	125	116						
DCVC - 150	150	144						16 BAR
DCVC - 200	200	198						
DCVC - 250	250	233						
DCVC - 300	300	283						
DCVC - 400	400	381						
DCVC - 450	450	419						
DCVC - 500	500	467						
DCVC - 600	600	572					ASTM A126 Body ASTM A370 Disc API 598 Test AS 2128 TE } Wafer ANSI 150	

#### AIR / WATER / STEAM



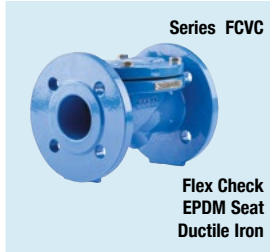
Series BCV  
  
Ball Check Valve  
Ductile Iron

Model	Bore Ømm		Connection	Nominal Cracking Pressure	Media Pressure	Media Temperature	Material of Construction	Features
	Nominal	Orifice						
<b>Ball Check · Ductile Iron Body · Table E</b>								
BCV - 50	50		TABLE E	0.3 - 16 BAR	16 BAR	10°C	Body: Ductile Iron Ball: Steel & NBR Outer	Self Cleaning
BCV - 65	65							
BCV - 80	80							
BCV - 100	100							
BCV - 125	125							
BCV - 150	150							16 BAR
BCV - 200	200							
BCV - 250	250							
BCV - 300	300							
BCV - 400	400							
BCV - 500	500							

### Check Valve

Model	Nominal Bore ømm	Connection	Nominal Cracking Pressure - Water	Maximum Back Pressure - Water	Media Temperature	Material of Construction	Features
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#### AIR / WATER



Flex Check • Ductile Iron Body • Table E				FCVC		FCVC	
FCVC - 050	50	TABLE E	0.1 BAR Depending on Valve Size	16 BAR	-20°C	Body: Ductile Iron	Table E
FCVC - 065	65					ASTM A536 Body EPDM Seat API 598 Test	
FCVC - 080	80						
FCVC - 100	100						
FCVC - 125	125						
FCVC - 150	150						
FCVC - 200	200						
FCVC - 250	250						
FCVC - 300	300						
FCVC - 350	350						
FCVC - 400	400	16 BAR	80°C	Gasket: EPDM	Hinge: EPDM		Coating: FBE

#### WATER / EFFLUENT



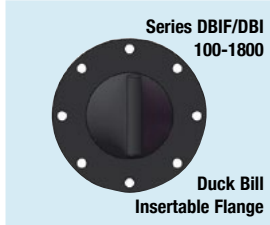
Duck Bill Valve • Reinforced Rubber • External Flanged						DBFS	
DBFS - 100	100	Flange type (table) must be specified at time of ordering	From 50mm Head depending on size	Up to 2m depending on size	0°C	Outer: Fabric Braided Neoprene	Low Head Loss
DBFS - 2000	2000					Backing Ring: SS316	Reliable Backflow Prevention
						Sizes Customised to Customer Requirements	Corrosion Resistant
					60°C		UV Stable

#### WATER / EFFLUENT



Duck Bill Valve • Reinforced Rubber • Slip-On						DBSS	
DBSS - 100	100	Pipe outside Diameter (O.D.) must be specified at time of ordering	From 50mm Head depending on size	Up to 2m depending on size	0°C	Outer: Fabric Braided Neoprene	Low Head Loss
DBSS - 2000	2000					Clamping Rings: SS316	Reliable Backflow Prevention
						Sizes Customised to Customer Requirements	Corrosion Resistant
					60°C		UV Stable
							Optional flat side valve for low pipes

#### WATER / EFFLUENT



Duck Bill Valve • Reinforced Rubber • Insertable Flanged + Insertable Clamp						DBIF + DBI	
DBIF - 100	100	Flange type (table) must be specified at time of ordering	From 50mm Head depending on size	Up to 2m depending on size	0°C	Outer: Fabric Braided Neoprene	Low Head Loss
DBIF - 1800	1800					Sizes Customised to Customer Requirements	Reliable Backflow Prevention
						Optional: DBI Insertable Clamp	Corrosion Resistant

Used for flood mitigation and backflow prevention of contaminated fluids

### Strainer

Model	Nominal Bore mm	Connection	Mesh	Media Pressure	Media Temperature	Material of Construction	Features
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#### AIR / FLUID / AQUACULTURE Y Strainer • PVC



Y Strainer • PVC				YSP			
YSP - 04	15	SOLVENT WELD SCHEDULE 80	20	10 BAR	Ambient	UPVC Body	Solvent Weld
YSP - 05	20					Schedule 80	
YSP - 06	25						
YSP - 07	32						
YSP - 08	40						
YSP - 09	50						
YSP - 10	65		Ambient				
YSP - 11	80						
YSP - 12	100						

#### AIR / FLUID



Y Strainer - Brass • BSP				YSB			
YSB - 04	15	1/2	18	16 BAR	-20°C	Body: Brass	Economical Strainer
YSB - 05	20	3/4	18	16 BAR	150°C	Screen: SS304	
YSB - 06	25	1					
YSB - 07	32	1-1/4					
YSB - 08	40	1-1/2					
YSB - 09	50	2					
YSB - 11	75	3					



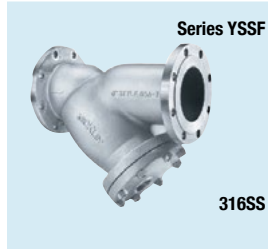
### Strainer

#### AIR / FLUID / STEAM



Model	Nominal Bore ømm	Connection	Mesh	Media Pressure	Media Temperature	Material of Construction	Features
<b>Y Strainer - SS316 · BSP</b>							
YSS - 04	15	1/2	18	800 PSI	-20°C	Body: CF8M	Removes Coarse Particles
YSS - 05	20	3/4	18				
YSS - 06	25	1	18	54 BAR	200°C	Mesh: SS316	CF8M Body SS316 Mesh
YSS - 07	32	1-1/4	18				
YSS - 08	40	1-1/2	18				
YSS - 09	50	2	18				
YSS - 11	80	3	18				
YSS - 12	100	4	18				

#### AIR / FLUID / STEAM



Model	Nominal Bore ømm	Connection	Mesh	Media Pressure	Media Temperature	Material of Construction	Features
<b>Y Strainer · 316SS · ANSI 150</b>							
YSSF - 25	25	ANSI150	14	1964Kpa @ -29 to 35 deg C	260 deg C @ 1171 Kpa	Body: CF8M / SS316	ASTM A351-CF8M ASTM B16.34 design ASME B16.5 ends API 598 test
YSSF - 32	32		14				
YSSF - 40	45		14				
YSSF - 50	50		14				
YSSF - 65	65		14				
YSSF - 80	80		14				
YSSF - 100	100		10				
YSSF - 125	125		10				
YSSF - 150	150		10				
YSSF - 200	200		10				

Also available up to 600mm

#### AIR / FLUID



Model	Nominal Bore ømm	Connection	Mesh	Media Pressure	Media Temperature	Material of Construction	Features
<b>Y Strainer · Ductile Iron · Table E</b>							
YSCF - 50	50	Table E	10	16 BAR	-20°C	Body: Cast Iron	High Flow Economical
YSCF - 65	63		10				
YSCF - 80	80		7				
YSCF - 100	100		7				
YSCF - 125	125		7				
YSCF - 150	150		4				
YSCF - 200	200		4				
YSCF - 250	250		4				
YSCF - 300	300		4				
YSCF - 350	350		4				
YSCF - 400	400		4				
YSCF - 500	500		4				
YSCF - 600	600		4				

Screen: SS304  
FBE Coating

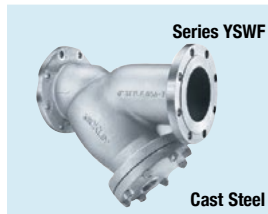
#### AIR / FLUID



Model	Nominal Bore ømm	Connection	Mesh	Media Pressure	Media Temperature	Material of Construction	Features
<b>Basket Strainer · Ductile Iron · Table E</b>							
BSC - 50	50	Table E	10	16 BAR	-20°C	Body: Cast Iron	High Flow Economical
BSC - 65	65		10				
BSC - 80	80		10				
BSC - 100	100		10				
BSC - 125	125		7				
BSC - 150	150		7				
BSC - 200	200		4				
BSC - 250	250		4				
BSC - 300	300		4				
BSC - 400	400		4				
BSC - 500	500		4				
BSC - 600	600		4				

Screen: SS304  
FBE Coating

#### AIR / FLUID / STEAM



Model	Nominal Bore ømm	Connection	Mesh	Media Pressure	Media Temperature	Material of Construction	Features
<b>Y Strainer · Carbon Steel · ANSI 150 · ANSI 300</b>							
YSWF - 50	50	ANSI150	40	1964Kpa @ -29 to 35 deg C	260 deg C @ 1171 Kpa	Body: Cast Steel	ASTM A234-WPB ASTM A105 ASTM B16.34 design ASME B16.10 ASME B16.5 ends API 598 test
YSWF - 65	65		40				
YSWF - 80	80		40				
YSWF - 100	100		40				
YSWF - 125	125		40				
YSWF - 150	150		40				
YSWF - 200	200		40				
YSWF - 250	250		40				
YSWF - 300	300		40				

Screen: SS304 #40  
Gasket: Flexible Graphite/SS304  
Coating: Silver Primer

Also available up to 600mm • Optional YSWF3 ANSI 300 50-3000 50-100 Ex Stock, Balance Indent.

#### AIR / FLUID / STEAM



Model	Nominal Bore ømm	Connection	Mesh	Media Pressure	Media Temperature	Material of Construction	Features
<b>Basket Strainer · Carbon Steel · ANSI 150</b>							
BSW - 50	50	ANSI 150 RF	40	1964Kpa @ -29 to 35 deg C	260 deg C @ 1171 Kpa	Body: Carbon Steel	ASTM A234-WPB ASTM A105 ASTM B16.34 design ASME B16.10 ASME B16.5 ends API 598 test
BSW - 65	65		40				
BSW - 80	80		40				
BSW - 100	100		40				
BSW - 125	125		40				
BSW - 150	150		40				
BSW - 200	200		40				
BSW - 250	250		40				
BSW - 300	300		40				

Screen: SS304 #40  
Gasket: Flexible Graphite/SS304  
Coating: Silver Primer

Also available up to 600mm

### Pressure Relief

Model	Inlet Connection BSP	Outlet Connection BSP	Description	Pressure	Temp	Features
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#### Bronze Pressure Relief • Closed Cap • SS316 Trim • \*

#### BPRC

Series BPRC

BPRC- 04	1/2"	1/2"	Bronze Body / SS316 Internals RTFE Seat	1.0 Bar	-40°C	Closed Cap. Adjustable.
BPRC- 05	3/4"	3/4"				
BPRC- 06	1"	1"	* See below for pressure range options All valves preset at 10 Bar	20 Bar	180°C	Oil, Air, Water • NOT for Steam
BPRC- 07	1-1/4"	1-1/4"				
BPRC- 08	1-1/2"	1-1/2"				
BPRC- 09	2"	2"				
Normally Closed			Not for safety relief.			

#### Bronze Pressure Relief • Lever • SS316 Trim • \*

#### BPRL

Series BPRL

BPRL- 04	1/2"	1/2"	Bronze Body / SS316 Internals RTFE Seat	1.0 Bar	-40°C	Open Cap. Lever Override. Adjustable.
BPRL- 05	3/4"	3/4"				
BPRL- 06	1"	1"	* See below for pressure range options All valves preset at 10 Bar	20 Bar	180°C	Oil, Air, Water • NOT for Steam
BPRL- 07	1-1/4"	1-1/4"				
BPRL- 08	1-1/2"	1-1/2"				
BPRL- 09	2"	2"				
Normally Closed			Not for safety relief.			

\* Setting Ranges (Spring Sets):  
for above Series BPRC & BPRL

1/2" BSP	1-3 Bar, 3-5 Bar, 5-15 Bar (std), 7-23 Bar
3/4" BSP	2-5 Bar, 5-16 Bar (std), 7-22 Bar
1" BSP	2-5 Bar, 4-15 Bar (std), 14-24 Bar
1 1/4" BSP	1-3 Bar, 3-13 Bar (std), 12-20 Bar
1 1/2" BSP	1-4 Bar, 3-11 Bar (std), 9-22 Bar
2" BSP	1-8 Bar, 4-12 Bar (std), 12-23 Bar

#### Stainless Steel Pressure Relief • Closed Cap • SS316 Trim • \*

#### FGX

Series FGX



FGX- 04	1/2"	1"	SS316 Body / SS316 Trim RTFE Seat	1.0 Bar	-40°C	Closed Cap. Adjustable.
FGX- 05	3/4"	1"				
FGX- 06	1"	1"	Setting range: 1-5 Bar, 4-12 Bar (std), 12-20 Bar	20 Bar	180°C	Oil, Air, Water, Steam • NOT for Steam
FGX- 07	1-1/4"	2"				
FGX- 08	1-1/2"	2"				
FGX- 09	2"	2"				
Normally Closed			All valves preset at 10 Bar Not for safety relief.			

#### Stainless Steel Pressure Relief • Lever • SS316 Trim • \*

#### FGXL

Series FGXL

FGXL- 04	1/2"	1"	SS316 Body / SS316 Trim RTFE Seat	1.0 Bar	-40°C	Open Cap. Lever Override. Adjustable.
FGXL- 05	3/4"	1"				
FGXL- 06	1"	1"	Setting range: 1-5 Bar, 4-12 Bar (std), 12-20 Bar	20 Bar	180°C	Oil, Air, Water • NOT for Steam
FGXL- 07	1-1/4"	2"				
FGXL- 08	1-1/2"	2"				
FGXL- 09	2"	2"				
Normally Closed			All valves preset at 10 Bar Not for safety relief.			

### Vacuum Breaker Breather

Model	Port Size BSP	Description	Pressure	Temp	Features
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#### Stainless Steel Vacuum Breaker • SS316 • \*

#### VBS

Series VBS



VBS - 04	1/2"	SS316 Body. FKM Seat / Seal Install vertically with connection down.	0.1-16 Bar	-20°C to 180°C	Permits air to enter the system with the pressure drop avoiding a vacuum internally. • NOT for Steam
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#### Stainless Steel Air Vent • SS316 • \*

#### AVS


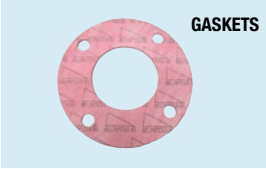
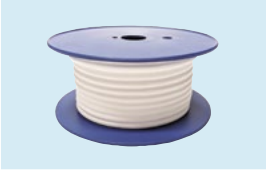

Series AVS



AVS - 04	1/2"	SS316 Body. FKM Seat / Seal	0.1   16 Bar	-20°C   180°C	Float valve allows trapped air to vent. • NOT for Steam
AVS - 05	3/4"				
AVS - 06	1"				

\* Relief Valves not certified for installation on Steam Boilers or Pressure Vessels.

**Steam Boiler**

Model	Sizes	Description	Features
<b>Water Flange Level Gauges for Boilers</b>			<b>BMG</b>
<b>BMG</b>	BMG - Level Gauge Flanged  20mm Flanged. Table H or Undrilled  Other Flange Tables as requested	Glass Special Lengths Ex Stock.	AS1271-1997 Section 5. Left or Right Hand in one assembly. Self Closing Safety Ball and Isolating Valves Standard. Gauge Guards available AB11 Gauge Cones
<b>Water Level Gauges • High Pressure</b>			<b>LEVCO, REFLEV</b>
 <b>LEVCO REFLEV</b>	Level Gauges	25mm ANSI 150, ANSI 300 Table H & Undrilled 16mm End Tube	Gauge Mounts Reflex and Transparent Level Gauges. Glass Sight Gauges. Mica Protection  Left Hand or Right Hand
<b>Jointing &amp; Gasket Materials</b>			
 <b>GASKETS</b>	Gasket Sheeting Cut Gaskets	Various Grades & Flange Sizes.	Expanded PTFE. Tanged Graphite. Boiler Door Gaskets.  Large Range Available. Gaskets cut to size
<b>Graphite Gland Packing • PTFE &amp; Graphite</b>			
 <b>PTFE Graphite Packing</b>	PTFE Packing Graphite Packing	Pure PTFE Filament with PTFE Dispersion. PTFE Yarns with Encapsulated Graphite. Packing Removal Tools. PTFE Joint Sealant	8m Rolls 1m Handy Packs 3-25mm Square
<b>Lagging Tapes &amp; Rope</b>			<b>TAPE</b>
 <b>TAPE</b>	Fibreglass Woven Tape. Fibreglass Ladder Tape Fibreglass Lagging Rope	Various Sizes 25mm – 100mm Width Various Sizes 25mm – 75mm Width Various Sizes 12mm – 50mm	30m Lengths 30m Lengths Various Lengths

- Gauge Mount Spares - Glass Tube, Cones, Spindles.
- Gauge Guards

### Switch

Model	Description	Connection	Function
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#### PRESSURE SWITCH



IP65					
PSM2R14P PSM10R14APS PSM50R14S PSM100R14S	Brass Brass Brass Brass	0.2-2 Bar 1-10 Bar 10-50 Bar 10-100 Bar	Max 300 Bar Over Pressure	1/4" BSP (Parallel) with O'Ring Seal	S.P.D.T. (NC or NO) 6Amp (res) 2 Amp (Inductive) 240V AC Max IP65 30% Full Scale Hysteresis
PSP150R14S PSP300R14S	SS316 SS316	30-150 Bar 50-300 Bar			
VSM1R14 VSM2R14	Brass Brass	100-500 mBar (VAC) 500-900 mBar (VAC)	Max 20 Bar Over Pressure		Membrane - NBR - Standard Viton Silicone EPDM Stainless Steel
PSMPSP	DIN Plug	4 PIN Connector Plug		ISO Square Plug	

### Plug

Model	Description	Gromet (ID mm)	Cable Gland	Voltage Range	Pin Details
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#### CONNECTOR PLUG



Square 28x28mm DIN 43650A • IP65					
DPSL - 6 - H - PG11 DPSL - 6 - L - PG11	LED Illuminated LED Illuminated	6 6	PG11 PG11	70 ~ 250v AC/DC 10AMP 10 ~ 50v AC/DC 10AMP	2 Pin + Earth  18mm Pin Spacing
DPSM - 6 - H - PG11 DPSM - 6 - L - PG11	Surge Supresion Surge Supresion	6 6	PG11 PG11	61 ~ 240v AC/DC 10AMP 0 ~ 60v AC/DC 10AMP	
DPSR - 6 - H - PG11 DPSR - 6 - L - PG11	Rectifier Plug Rectifier Plug	6 6	PG11 PG11	110/240v AC ~ 110/240v DC 1.5AMP 12/24v AC ~ 12/24v DC 1.5AMP	
DPSB - 6 - 2E - PG11 DPSB - 6 - 3E - PG11	Plain Black Plain Black	6 6	PG11 PG11	0 ~ 415v AC/DC 10AMP 0 ~ 415v AC/DC 10AMP	2 Pin + Earth 3 Pin + Earth

#### POWER SAVER



Square 28x28mm DIN 43650A • IP65					
Power Saving up to 70% – Lower Coil Temperature					
DPPS - 6 - 1 - PG11 DPPS - 6 - 8 - PG11	Power Saving - Lower Temp Power Saving - Lower Temp	6 6	PG11 PG11	240v AC 0.4 AMP 24v DC 1.5AMP	2 Pin + Earth 2 Pin + Earth
Great for applications where a coil is energised for long periods of time and temperature / enclosure becomes an issue.					

#### CONNECTOR PLUG



Rectangle 20x28mm DIN 43650B • IP65					
DPRL - 6 - H - PG9 DPRL - 6 - L - PG9	LED Illuminated LED Illuminated	6 6	PG9 PG9	70 ~ 250v AC/DC 10AMP 10 ~ 50v AC/DC 10AMP	2 Pin + Earth 2 Pin + Earth  9.4mm Pin Spacing
DPRB - 6 - PG9	Plain Black	6	PG9	10 ~ 250v AC/DC 10AMP	2 Pin + Earth 11mm Pin Spacing

#### CONNECTOR PLUG



Mini Plug 15x15mm DIN 43650C • IP65					
DPML - 4 - H - PG7 DPML - 4 - L - PG7	LED Illuminated LED Illuminated	4 4	PG7 PG7	70 ~ 250v AC/DC 6AMP 10 ~ 50v AC/DC 6AMP	2 Pin + Earth  9.4mm Pin Spacing

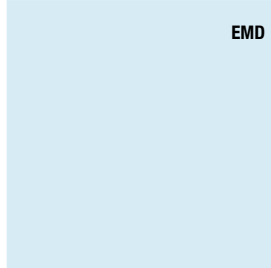
#### CONNECTOR PLUG



A-B Adapter DIN 43650A to DIN 43650B • IP65		
A-B ADAPT	Converts Rectangular DIN 43650B to Square DIN 43650A Used in Conjunction with Solenoid Valve Timers (refers to Series EM/TEC Data Sheet & page 45) 10AMP	2 Pin + Earth

# Timer

## TIMERS



Model	Description	Connection	Function	
<b>Digital. Programmable 0.1 Sec - 99 Hours • IP65</b>				
<b>EMD</b>				
EMD - 12A	DIGITAL TIME 110-220vAC	Square Plug IP65	CYCLE TIMER	
			ON	OFF
			0.1 Sec - 99 Hrs	0.1 Sec - 99 Hrs
EMD - 12B	DIGITAL TIME 10-48V AC/DC	Square Plug IP65	Single Shot ON 0.1 Sec - 99 Hrs  Single Shot OFF 0.1 Sec - 99 Hrs  Max Current 1 Amp	

## TIMERS



<b>Analog. External Knob Adjustment • IP65</b>				<b>TEC</b>	
Blow Down Cycle Timer TEC - 22A	Cycle Timer	24 - 240V AC/DC	Square Plug IP65	ON	OFF
				0.5 - 10 Sec	0.5 - 45 min
				Max Current 1 Amp	

# Timer Drain

## TIMER / DRAIN VALVE



Model	Pressure Range	Description	Connection	Function
<b>CRD - c/w Integral Y Strainer and Ball Valve • IP65</b>				
<b>CRD</b>				
CRD - 4 - 3.5 - *VY	16 BAR	Value & Timer combination for condensate removal from air systems. Integral Isolating Ball Valve and Y Strainer	1/2" BSP  Voltages:- 240vAC (Standard) 24vAC 110vAC 24vDC  IP65	Body: Brass Seats: Viton  Operator: Brass & Stainless Steel  Air (Compressed Air Condensate) Manual Test Cycle. LED Indicator. Direct Acting  For 12vDC use EMD-12A
Optional Flex & 3 pin plug 240VDC. 1.5m				
Contact Factory for 12VDC Supply Option				

## TIMER / DRAIN VALVE



Model	Pressure Range	Description	Connection	Function
<b>CRD - c/w Separate Y Strainer and Ball Valve • IP65</b>				
<b>CRD</b>				
CRD - 4 - 4.5 - *VY CRD - 4 - 2.8 - *VY CRD - 4 - 1.9 - *V	16 BAR 40 BAR 80 BAR	Value & Timer combination for condensate removal from air systems.  Separate Isolation Ball Valve and Strainer	1/2" BSP 1/2" BSP 1/2" BSP  Voltages:- 240vAC (Standard) 24vAC 110vAC 24vDC  IP65	Body: Brass Seats: Viton  Operator: Brass & Stainless Steel  Air (Compressed Air Condensate) Manual Test Cycle. LED Indicator. Direct Acting  For 12vDC use EMD-12A
Optional Flex & 3 pin plug 240VDC. 1.5m				
Contact Factory for 12VDC Supply Option				

**Gauges**

**DIAL GAUGE**

Series GAU

63mm

Bottom Entry	Rear Entry	Features
<b>63mm SS304 Case 1/4" BSPT • Brass Internals • Liquid Filled</b>		
<b>GAU63</b>		
<b>Bottom Entry (Kpa)</b> GAU63B ~ 100V (-100 Kpa / 30"Hg) GAU63B ~ 100 (100 Kpa / 15 psi) GAU63B ~ 100C16 (-100 Kpa to 1600 Kpa) GAU63B ~ 200 (200 Kpa / 30 psi) GAU63B ~ 400 (400 Kpa / 60 psi) GAU63B ~ 600 (600 Kpa / 90 psi) GAU63B ~ 800 (800 Kpa / 110 psi) GAU63B ~ 1000 (1000 Kpa / 140 psi) GAU63B ~ 1600 (1600 Kpa / 230 psi) GAU63B ~ 2500 (2500 Kpa / 360 psi) GAU63B ~ 4000 (4000 Kpa / 580 psi)	<b>Rear Entry (Kpa) c/w Panel Mounting Clamp</b> GAU63R ~ 100V (-100 Kpa / 30"Hg) GAU63R ~ 100 (100 Kpa / 15 psi) GAU63R ~ 100C16 (-100 Kpa to 1600 Kpa) GAU63R ~ 200 (200 Kpa / 30 psi) GAU63R ~ 400 (400 Kpa / 60 psi) GAU63R ~ 600 (600 Kpa / 90 psi) GAU63R ~ 800 (800 Kpa / 110 psi) GAU63R ~ 1000 (1000 Kpa / 140 psi) GAU63R ~ 1600 (1600 Kpa / 230 psi) GAU63R ~ 2500 (2500 Kpa / 360 psi) GAU63R ~ 4000 (4000 Kpa / 580 psi)	SS304 Case Brass Internals liquid Filled Dual Scale Kpa/PSI Brass Connection 3/8 BSP C/W Panel Mount Bracket (Rear Entry)
GAU63B ~ 250B (250 BAR / 3600 psi) Hydraulic Connection 1/4" BSPP c/w Snubber GAU63B ~ 400B (400 BAR / 5800 psi) Hydraulic Connection 1/4" BSPP c/w Snubber	GAU63R ~ 250B (250 BAR / 3600 psi) Hydraulic Connection 1/4" BSPP c/w Snubber GAU63R ~ 400B (400 BAR / 5800 psi) Hydraulic Connection 1/4" BSPP c/w Snubber	
Options: Gauge Guard • Heat Shield • Gauge Cock • Higher Pressure Gauges Available	Accuracy +- 1.6% full scale Working Range:- Steady 3/4 full scale    Temperature Ambient/Media Fluctuating 2/3 full scale    -20deg.C + 60deg.C Short time full Scale	

**DIAL GAUGE**

Series GAU

100mm

Bottom Entry (Kpa)		Features
<b>100mm SS304 Case 3/8" BSPT • Brass Internals • Liquid Filled</b>		
<b>GAU100</b>		
GAU100B - 100V (-100 Kpa/30"Hg) GAU100B - 100C (-100 Kpa to 1600 Kpa) GAU100B ~ 200 (200 Kpa / 30 psi) GAU100B ~ 400 (400 Kpa / 60 psi) GAU100B ~ 600 (600 Kpa / 90 psi) GAU100B ~ 800 (800 Kpa / 110 psi) GAU100B ~ 1000 (1000 Kpa / 140 psi) GAU100B ~ 1600 (1600 Kpa / 230 psi) GAU100B ~ 2500 (2500 Kpa / 360 psi) GAU100B ~ 4000 (4000 Kpa / 580 psi)		SS304 Case Brass Internals liquid Filled Dual Scale Kpa/PSI Brass Connection 3/8 BSP C/W Panel Mount Bracket (Rear Entry)
Options: Gauge Guard • Heat Shield • Gauge Cock • Higher Pressure Gauges Available	Accuracy +- 1.6% full scale Working Range:- Steady 3/4 full scale    Temperature Ambient/Media Fluctuating 2/3 full scale    -20deg.C + 60deg.C Short time full Scale	

**DIAL GAUGE**

Series GAU

100mm

Bottom Entry (Kpa)	Rear Entry (Kpa) c/w Panel Mounting Clamp	Features
<b>100mm SS316 Case 3/8" BSPT • Stainless Steel Internals • Liquid Filled</b>		
<b>GAU100</b>		
GAU100BS ~ 1000 (1000 Kpa / 140 psi) GAU100BS ~ 1600 (1600 Kpa / 230 psi) GAU100BS ~ 2500 (2500 Kpa / 360 psi)	GAU100RS ~ 1000 (1000 Kpa / 140 psi) GAU100RS ~ 1600 (1600 Kpa / 230 psi)	SS316 Case Stainless Steel Internals SS316 Connection 3/8 BSP Dual Scale Kpa/PSI Liquid Filled Optional: Mounting Flange Face
Other pressure ranges available Options: Gauge Guard • Heat Shield • Gauge Cock	Accuracy +- 1.0% full scale Working Range:- Steady 3/4 full scale    Temperature Ambient/Media Fluctuating 2/3 full scale    -20deg.C + 60deg.C Short time full Scale	

**DIAL GAUGE**

Series GAU


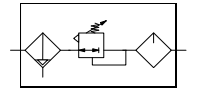

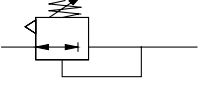

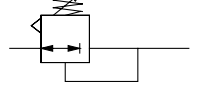

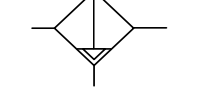

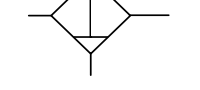

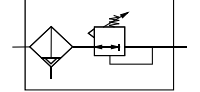

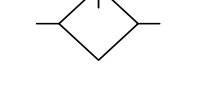

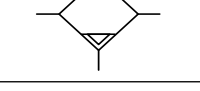

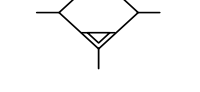
150mm

Bottom Entry (Kpa)		Features
<b>150mm SS316 Case 1/2" NPT • Stainless Steel Internals • Liquid Filled</b>		
<b>GAU150</b>		
GAU150BS ~ 1000 (1000 Kpa / 140 psi) Bottom Entry c/w Back Mounting Flange GAU150BS ~ 2500 (2500 Kpa / 360 psi)		SS316 Case Stainless Steel Internals SS316 Connection 1/2 NPT Dual Scale Kpa/PSI Liquid Filled • C/W Mounting Flange • Bottom Entry
Other pressure ranges available Options: Gauge Guard • Heat Shield • Gauge Cock	Accuracy +- 1.0% full scale Working Range:- Steady 3/4 full scale    Temperature Ambient/Media Fluctuating 2/3 full scale    -20deg.C + 60deg.C Short time full Scale	

**DIAL GAUGE**

Bottom Entry (Kpa)		Features
<b>40mm SS316 Case 1/8" BSP • Brass Internals</b>		
<b>GAU40R</b>		
GAU40R ~ 1000 (1000 Kpa / 140 psi)		


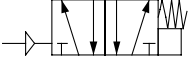

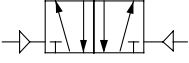

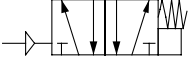

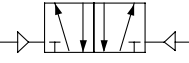

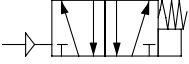

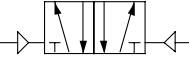

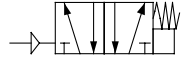

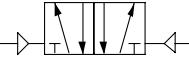
Other Instrumentation Products (Indent Only) Include: • Digital Pressure Gauges • Digital Temperature Gauges • Digital Pressure Transmitter / Transducer • Flow Meters • Gauge Diaphragm Seals • Gauge Scrubbers • PGT Pigtail Siphon.

Air Service		Symbol	Model	Port Size BSP	Pressure Range	Function	Model Website
<b>FILTER REGULATOR LUBRICATORS (FRL) (5 Micron Filter)</b>							
		FRL-02 FRL-03 FRL-04 FRL-05 FRL-06	1/4 3/8 1/2 3/4 1	0.5 ~ 8 Bar 0.5 ~ 8 Bar 0.5 ~ 8 Bar 0.5 ~ 8 Bar 0.5 ~ 8 Bar	FRL with auto drain, gauge & mtg bracket FRL with auto drain, gauge & mtg bracket FRL with auto drain, gauge & mtg bracket FRL with auto drain, gauge & mtg bracket FRL with auto drain, gauge & mtg bracket	FRL	
<b>REGULATORS</b>							
		REG-02 REG-03 REG-04 REG-05 REG-06 REG-08 REG-09	1/4 3/8 1/2 3/4 1 1 1/2 2	0.5 ~ 8 BAR 0.5 ~ 8 BAR 0.5 ~ 8 BAR 0.5 ~ 8 BAR 0.5 ~ 8 BAR 0.5 ~ 16 BAR 0.5 ~ 16 BAR	Regulator with mounting bracket & gauge Regulator with mounting bracket & gauge Regulator with mounting bracket & gauge Regulator with mounting bracket & gauge Regulator with mounting bracket & gauge Regulator with gauge Regulator with gauge	REG	
		HPR-02 HPR-03 HPR-04 HPR-05 HPR-06	1/4 3/8 1/2 3/4 1	5 ~ 35 BAR 5 ~ 35 BAR 5 ~ 35 BAR 5 ~ 35 BAR 5 ~ 35 BAR	High Pressure Regulator High Pressure Regulator High Pressure Regulator High Pressure Regulator High Pressure Regulator	HPR	
<b>FILTERS</b>							
		FIL-02 FIL-03 FIL-04 FIL-05 FIL-06 FIL-08 FIL-09	1/4 3/8 1/2 3/4 1 1 1/2 2	0 ~ 8 BAR 0 ~ 8 BAR 0 ~ 8 BAR 0 ~ 8 BAR 0 ~ 8 BAR 0 ~ 8 BAR 0 ~ 8 BAR	Filter (5 micron) with auto drain & mtg bracket Filter (5 micron) with auto drain & mtg bracket Filter (5 micron) with auto drain & mtg bracket Filter (5 micron) with auto drain & mtg bracket Filter (5 micron) with auto drain & mtg bracket Filter (50 micron) Filter (50 micron)	FIL	
		HPF-02 HPF-04 HPF-05 HPF-06	1/4 1/2 3/4 1	0 ~ 36 BAR 0 ~ 36 BAR 0 ~ 35 BAR 0 ~ 35 BAR	High Pressure Filter High Pressure Filter High Pressure Filter High Pressure Filter	HPF	
<b>FILTER REGULATORS (5 Micron filter)</b>							
		FRE-02 FRE-03 FRE-04 FRE-05 FRE-06	1/4 3/8 1/2 3/4 1	0.5 ~ 8 BAR 0.5 ~ 8 BAR 0.5 ~ 8 BAR 0.5 ~ 8 BAR 0.5 ~ 8 BAR	Filter Reg with auto drain, mtg bracket & gauge Filter Reg with auto drain, mtg bracket & gauge Filter Reg with auto drain, mtg bracket & gauge Filter Reg with auto drain, mtg bracket & gauge Filter Reg with auto drain, mtg bracket & gauge	FRE	
<b>LUBRICATOR</b>							
		LUB-02 LUB-03 LUB-04 LUB-05 LUB-06 LUB-08 LUB-09	1/4 3/8 1/2 3/4 1 1 1/2 2	0.5 ~ 8 BAR 0.5 ~ 8 BAR 0.5 ~ 8 BAR 0.5 ~ 8 BAR 0.5 ~ 8 BAR 0 ~ 8 BAR 0 ~ 8 BAR	Lubricator Lubricator Lubricator Lubricator Lubricator Lubricator Lubricator	LUB	
<b>AUTO DRAIN</b>							
		AUD-04	1/2	1.5 ~ 8 BAR	Auto Drain - Float Type	AUD	
		ADV-04	1/2	1.5 ~ 16 BAR	Auto Drain - Ball Type - Heavy Duty	ADV	


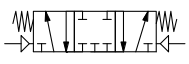

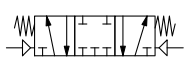

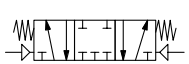

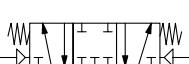
FOR FULL RANGE VISIT OUR WEBSITE [WWW.VALVESONLINE.COM.AU](http://WWW.VALVESONLINE.COM.AU)

Air Pilot	Symbol	Model	Port Size BSP	Pressure Range	Function	Model Website
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### 5/2 - 5 PORTS 2 POSITIONS

		APS52-01	1/8	1.5 ~ 8 BAR	5/2 Pilot Spring	APS52
		APP52-01	1/8	1.5 ~ 8 BAR	5/2 Pilot Pilot	APP52
		APS52-02	1/4	1.5 ~ 8 BAR	5/2 Pilot Spring	APS52
		APP52-02	1/4	1.5 ~ 8 BAR	5/2 Pilot Pilot	APP52
		APS52-03	3/8	1.5 ~ 8 BAR	5/2 Pilot Spring	APS52
		APP52-03	3/8	1.5 ~ 8 BAR	5/2 Pilot Pilot	APP52
		APS52-04	1/2	1.5 ~ 8 BAR	5/2 Pilot Spring	APS52
		APP52-04	1/2	1.5 ~ 8 BAR	5/2 Pilot Pilot	APP52

### 5/3 - 5 PORTS 3 POSITIONS (closed centre)


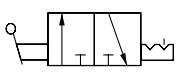

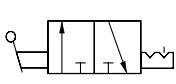

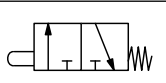

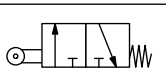

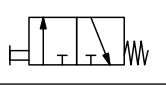

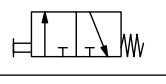

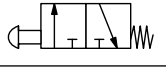

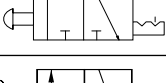

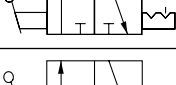

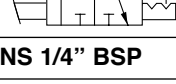
		APP53-01	1/8	3 ~ 8 BAR	5/3 Pilot Pilot Closed Centre	APP53
		APP53-02	1/4	3 ~ 8 BAR	5/3 Pilot Pilot Closed Centre	APP53
		APP53-03	3/8	3 ~ 8 BAR	5/3 Pilot Pilot Closed Centre	APP53
		APP53-04	1/2	3 ~ 8 BAR	5/3 Pilot Pilot Closed Centre	APP53

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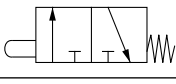

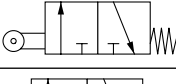

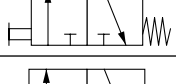

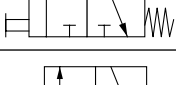

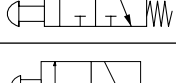
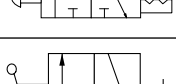
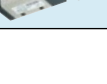
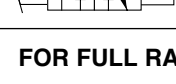


Air Manual	Symbol	Model	Port Size BSP	Model Website	Function	Model Website
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### 3/2 - 3 PORTS 2 POSTIONS 1/8" BSP

		TOG32-M5	M5	0 ~ 8 Bar	3/2 way Brass Toggle	TOG32
		TOG32-01	1/8	0 ~ 8 Bar	3/2 way Toggle	TOG32
		PLU32-01	1/8	0 ~ 8 Bar	3/2 way Plunger Spring Return	PLU32
		RLS32-01	1/8	0 ~ 8 Bar	3/2 way Roller Lever Spring Return	RLS32
		FBS32-01-*	1/8	0 ~ 8 Bar	3/2 way Flush Button Spring Return	FBS32
		RBS32-01-*	1/8	0 ~ 8 Bar	3/2 way Raised Button Spring Return	RBS32
		PBS32-01-*	1/8	0 ~ 8 Bar	3/2 way Palm Button Spring Return	PBS32
		PBL32-01	1/8	0 ~ 8 Bar	3/2 way Palm Button Latching Emergency Stop Valve	PBL32
		ROS32-01-*	1/8	0 ~ 8 Bar	3/2 way Rotary Switch	ROS32
		ROL32-01	1/8	0 ~ 8 Bar	3/2 way Rotary Lever	ROL32

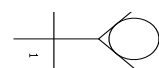




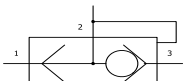

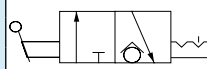

### 3/2 - 3 PORTS 2 POSTIONS 1/4" BSP

		PLU32-02	1/4	0 ~ 8 Bar	3/2 way Plunger Spring Return	PLU32
		RLS32-02	1/4	0 ~ 8 Bar	3/2 way Roller Lever Spring Return	RLS32
		FBS32-02-*	1/4	0 ~ 8 Bar	3/2 way Flush Button Spring Return	FBS32
		RBS32-02-*	1/4	0 ~ 8 Bar	3/2 way Raised Button Spring Return	RBS32
		PBS32-02-*	1/4	0 ~ 8 Bar	3/2 way Palm Button Spring Return	PBS32
		PBL32-02	1/4	0 ~ 8 Bar	3/2 way Palm Button Latching Emergency Stop Valve	PBL32
		ROS32-02-*	1/4	0 ~ 8 Bar	3/2 way Rotary Switch	ROS32
		ROL32-02	1/4	0 ~ 8 Bar	3/2 way Rotary Lever	ROL32

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Air Manual	Symbol	Model	Port Size BSP	Pressure Range	Function	Model Website
<b>5/2 - 5 PORTS 2 POSITIONS 1/4", 3/8", 1/2" BSP</b>						
		TOG52-M5	M5	0 ~ 8 Bar	5/2 Toggle	TOG52
		TOG52-01	1/8	0 ~ 8 Bar	5/2 Toggle	TOG52
		PUP52-01	1/8	0 ~ 8 Bar	5/2 Push Pull	PUP52
		PLU52-02	1/4	0 ~ 8 Bar	5/2 way Plunger Spring Return	PLU52
		RLS52-02	1/4	0 ~ 8 Bar	5/2 way Roller Lever Spring Return	RLS52
		FBS52-02-*	1/4	0 ~ 8 Bar	5/2 way Flush Button Spring Return	FBS52
		RBS52-02-*	1/4	0 ~ 8 Bar	5/2 way Raised Button Spring Return	RBS52
		PBS52-02-*	1/4	0 ~ 8 Bar	5/2 way Palm Button Spring Return	PBS52
		PBL52-02	1/4	0 ~ 8 Bar	5/2 way Palm Button Latching Emergency Stop Valve	PLB52
		ROS52-02-*	1/4	0 ~ 8 Bar	5/2 way Rotary Switch	ROS52
		ROL52-02	1/4	0 ~ 8 Bar	5/2 way Rotary Lever	ROL52
		LEL52-02 LEL52-03 LEL52-04	1/4 3/8 1/2	0 ~ 8 Bar 0 ~ 8 Bar 0 ~ 8 Bar	5/2 way Lever Lever	LEL52
		LEL53-02 LEL53-03 LEL53-04	1/4 3/8 1/2	0 ~ 8 Bar 0 ~ 8 Bar 0 ~ 8 Bar	5/3 way Lever Lever - Closed Centre	LEL53
		LES52-02	1/4	0 ~ 8 Bar	5/2 way Lever Spring	LES52
		PUP52-02	1/4	0 ~ 8 Bar	5/2 Push Pull	PUP52
		FSG52-02	1/4	0 ~ 8 Bar	5/2 way Foot Spring with Guard	FSG52
<b>4 WAY 3 POSITION 1/4, 3/8, 1/2" BSP</b>						
		ROT43-02 ROT43-03 ROT43-04	1/4 3/8 1/2	0 ~ 8 Bar 0 ~ 8 Bar 0 ~ 8 Bar	4 way 3 position ceramic seat Rotary Lever	ROT43

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Ancillary	Symbol	Model	Port Size BSP	Pressure Range	Function	Model Website
<b>CHECK VALVE 1/8 – 1" BSP</b>						
		ACV-01 ACV-02 ACV-03 ACV-04 ACV-05 ACV-06	1/8" 1/4" 3/8" 1/2" 3/4" 1"	0.5 ~ 12 Bar 0.5 ~ 12 Bar 0.5 ~ 12 Bar 0.5 ~ 12 Bar 0.5 ~ 12 Bar 0.5 ~ 12 Bar	In-Line Air Check Valve	ACV
<b>PILOT CHECK VALVE 1/8" BSP</b>						
		APC-01	1/8"	0.5 ~ 8 Bar	In-Line Air Check Valve – Pilot Operated	APC
<b>SHUTTLE VALVE 1/8 – 1" BSP</b>						
		ASV-01 ASV-02 ASV-03 ASV-04 ASV-05 ASV-06	1/8" 1/4" 3/8" 1/2" 3/4" 1"	0.5 ~ 8 Bar 0.5 ~ 8 Bar 0.5 ~ 8 Bar 0.5 ~ 8 Bar 0.5 ~ 8 Bar 0.5 ~ 8 Bar	Shuttle Valve Either one signal or the other to a common outlet	ASV
<b>QUICK EXHAUST VALVE 1/8 – 1" BSP</b>						
		AQE-01 AQE-02 AQE-03 AQE-04 AQE-05 AQE-06	1/8" 1/4" 3/8" 1/2" 3/4" 1"	0.5 ~ 8 Bar 0.5 ~ 8 Bar 0.5 ~ 8 Bar 0.5 ~ 8 Bar 0.5 ~ 8 Bar 0.5 ~ 8 Bar	Quick Exhaust of air signal when flow is reversed	AQE
<b>HAND SLIDE VALVE 1/8 – 1/2" BSP (Brass/Aluminium)</b>						
		AHS-01 AHS-02 AHS-03 AHS-04	1/8" 1/4" 3/8" 1/2"	0 ~ 10 Bar 0 ~ 10 Bar 0 ~ 10 Bar 0 ~ 10 Bar	3/2 Way Valve to close off supply and pump downstream to atmosphere	AHS
<b>PRECISION SPEED CONTROLLERS 1/8 – 1/2" BSP</b>						
		APS-01 APS-02 APS-03 APS-04	1/8" 1/4" 3/8" 1/2"	0 ~ 10 Bar 0 ~ 10 Bar 0 ~ 10 Bar 0 ~ 10 Bar	In-Line Precision Speed Controller for air actuators	APS
<b>PNEUMATIC VIBRATOR</b>						
	Rotary Steel Ball	APV-02	1/4"	1 ~ 8 Bar	Air Vibrator for small parts	APV
<b>VACUUM GENERATOR</b>						
	Venturi	VAC-01 VAC-02 VAC-03	1/8" 1/4" 3/8"	0.1 ~ 16 Bar	Vacuum Generator using compressed air supply	VAC

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Silencer	Model	Description
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### Exhaust Silencer/Regulator - Brass

BES

	BES-01	G1/8" Brass Exhaust Reg/Silencer
	BES-02	G1/4" Brass Exhaust Reg/Silencer
	BES-03	G3/8" Brass Exhaust Reg/Silencer
	BES-04	G1/2" Brass Exhaust Reg/Silencer
	BES-05	G3/4" Brass Exhaust Reg/Silencer
	BES-06	G1" Brass Exhaust Reg/Silencer

### Silencer - Brass

BSL

	BSL-M5	M5 Brass Silencer
	BSL-01	G1/8" Brass Silencer
	BSL-02	G1/4" Brass Silencer
	BSL-03	G3/8" Brass Silencer
	BSL-04	G1/2" Brass Silencer
	BSL-05	G3/4" Brass Silencer
	BSL-06	G1" Brass Silencer
	BSL-07	G1-1/4" Brass Silencer
	BSL-08	G1-1/2" Brass Silencer
BSL-09	G2" Brass Silencer	

### Silencer Mini - Brass

BSM

	BSM-01	G1/8" Brass Mini Silencer
	BSM-02	G1/4" Brass Mini Silencer
	BSM-03	G3/8" Brass Mini Silencer
	BSM-04	G1/2" Brass Mini Silencer
	BSM-05	G3/4" Brass Mini Silencer
	BSM-06	G1" Brass Mini Silencer

Silencer	Model	Description
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### Exhaust Silencer/Regulator - Stainless Steel

SES

	SES-01	G1/8" S.S Exhaust Reg/Silencer
	SES-02	G1/4" S.S Exhaust Reg/Silencer
	SES-03	G3/8" S.S Exhaust Reg/Silencer
	SES-04	G1/2" S.S Exhaust Reg/Silencer
	SES-05	G3/4" S.S Exhaust Reg/Silencer
	SES-06	G1" S.S Exhaust Reg/Silencer

### Silencer - Stainless Steel

SSL

	SSL-M5	M5 S.S Silencer
	SSL-01	G1/8" S.S Silencer
	SSL-02	G1/4" S.S Silencer
	SSL-03	G3/8" S.S Silencer
	SSL-04	G1/2" S.S Silencer
	SSL-05	G3/4" S.S Silencer
SSL-06	G1" S.S Silencer	

### Silencer Mini - Stainless Steel

SSM

	SSM-M5	M5 S.S Mini Silencer
	SSM-01	G1/8" S.S Mini Silencer
	SSM-02	G1/4" S.S Mini Silencer
	SSM-03	G3/8" S.S Mini Silencer
	SSM-04	G1/2" S.S Mini Silencer
	SSM-05	G3/4" S.S Mini Silencer
SSM-06	G1" S.S Mini Silencer	

## Nylon Tubing to suit Push-Fit fittings

Nylon Tube	Item	Description	Full Coil Options				
			5m Coil	10m Coil	20m Coil	100m Coil	200m Coil
	NYL04-*	4mm O.D Nylon Tube (200m roll)	✓	✓	✓	✓	✓
	NYL06-*	6mm O.D Nylon Tube (200m roll)	✓	✓	✓	✓	✓
	NYL08-*	8mm O.D Nylon Tube (100m roll)	✓	✓	✓	✓	—
	NYL10-*	10mm O.D Nylon Tube (100m roll)	✓	✓	✓	✓	—
	NYL12-*	12mm O.D Nylon Tube (100m roll)	✓	✓	✓	✓	—
	NYLI16-*	16mm O.D Nylon Tube (100m roll)			50m Coil ✓	✓	—
	NYLI14-*	1/4" O.D Nylon Tube (200m roll)	✓	✓	✓	—	✓
	NYLI516-*	5/16" O.D Nylon Tube (100m roll)	✓	✓	✓	✓	—
	NYLI38-*	3/8" O.D Nylon Tube (100m roll)	✓	✓	✓	✓	—
	NYLI12-*	1/2" O.D Nylon Tube (100m roll)	✓	✓	✓	✓	—

### Metric Tubing


Item	NYL04	NYL06	NYL08	NYL10	NYL12	NYL16	<ul style="list-style-type: none"> <li>Working Pressure 20 BAR @ 20°C.</li> <li>UV Stabilised Black Tubing</li> <li>PA6 Nylon</li> </ul>
O.D. (mm)	ø 4.0	ø 6.0	ø 8.0	ø 10.0	ø 12.0	ø 16.0	
I.D. (mm)	ø 2.5	ø 4.0	ø 6.0	ø 7.5	ø 9.0	ø 12.0	

### Imperial Tubing


Item	—	NYLI14	NYLI516	NYLI38	NYLI12	<ul style="list-style-type: none"> <li>Working Pressure 20 BAR @ 20°C.</li> <li>UV Stabilised Black Tubing</li> <li>PA6 Nylon</li> </ul>
O.D. (mm)	—	ø 1/4" 6.35mm	ø 5/16" 7.94mm	ø 3/8" 9.52mm	ø 1/2" 12.7mm	
I.D. (mm)	—	ø 4.2	ø 6.0	ø 6.35	ø 9.6	

- Swivel Joints
- Nickel Plated Brass Body with PTFE Coated Male Thread
- UV Resistant Plastic Body, Stainless Steel Gripper and NBR O-ring

- Suitable for Air to 10 Bar. Metric and Imperial Tube Fittings
- Straight Fittings with Internal Allen Key Drive for Installation in Narrow Positions


Push Fit	Model	Description
<b>Male Straight Connector (O.D. Tube to Male BSP Thread) YPC</b>		
	YPC04-M5	4mm x M5 BSPT Male Straight Connector
	YPC04-01	4mm x 1/8" BSPT Male Straight Connector
	YPC04-02	4mm x 1/4" BSPT Male Straight Connector
	YPC06-M5	6mm X M5 Male Straight Connector
	YPC06-01	6mm x 1/8" BSPT Male Straight Connector
	YPC06-02	6mm x 1/4" BSPT Male Straight Connector
	YPC06-03	6mm x 3/8" BSPT Male Straight Connector
	YPC06-04	6mm x 1/2" BSPT Male Straight Connector
	YPC08-01	8mm x 1/8" BSPT Male Straight Connector
	YPC08-02	8mm x 1/4" BSPT Male Straight Connector
	YPC08-03	8mm x 3/8" BSPT Male Straight Connector
	YPC08-04	8mm x 1/2" BSPT Male Straight Connector
	YPC10-01	10mm x 1/8" BSPT Male Straight Connector
	YPC10-02	10mm x 1/4" BSPT Male Straight Connector
	YPC10-03	10mm x 3/8" BSPT Male Straight Connector
	YPC10-04	10mm x 1/2" BSPT Male Straight Connector
YPC12-02	12mm x 1/4" BSPT Male Straight Connector	
YPC12-03	12mm x 3/8" BSPT Male Straight Connector	
YPC12-04	12mm x 1/2" BSPT Male Straight Connector	
YPC16-04	16mm x 1/2" BSPT Male Straight Connector	

**Female Straight Connector (O.D. Tube to Female BSP Thread) YPCF**


	YPCF04-M5	4mm x M5 BSPP Fem St. Connector
	YPCF04-01	4mm x 1/8" BSPP Fem St. Connector
	YPCF04-02	4mm x 1/4" BSPP Fem St. Connector
	YPCF06-M5	6mm x M5 BSPP Fem St. Connector
	YPCF06-01	6mm x 1/8" BSPP Fem St. Connector
	YPCF06-02	6mm x 1/4" BSPP Fem St. Connector
	YPCF06-03	6mm x 3/8" BSPP Fem St. Connector
	YPCF06-04	6mm x 1/2" BSPP Fem St. Connector
	YPCF08-01	8mm x 1/8" BSPP Fem St. Connector
	YPCF08-02	8mm x 1/4" BSPP Fem St. Connector
	YPCF08-03	8mm x 3/8" BSPP Fem St. Connector
	YPCF08-04	8mm x 1/2" BSPP Fem St. Connector
	YPCF10-01	10mm x 1/8" BSPP Fem St. Connector
	YPCF10-02	10mm x 1/4" BSPP Fem St. Connector
	YPCF10-03	10mm x 3/8" BSPP Fem St. Connector
	YPCF10-04	10mm x 1/2" BSPP Fem St. Connector
YPCF12-02	12mm x 1/4" BSPP Fem St. Connector	
YPCF12-03	12mm x 3/8" BSPP Fem St. Connector	
YPCF12-04	12mm x 1/2" BSPP Fem St. Connector	

**Female Swivel Elbow (O.D. Tube to Female BSP Thread) YPLF**

	YPLF04-M5	4mm x M5 BSPP Fem. Swivel Elbow
	YPLF04-01	4mm x 1/8" BSPP Fem. Swivel Elbow
	YPLF04-02	4mm x 1/4" BSPP Fem. Swivel Elbow
	YPLF06-M5	6mm x M5 BSPP Fem. Swivel Elbow
	YPLF06-01	6mm x 1/8" BSPP Fem. Swivel Elbow
	YPLF06-02	6mm x 1/4" BSPP Fem. Swivel Elbow
	YPLF06-03	6mm x 3/8" BSPP Fem. Swivel Elbow
	YPLF06-04	6mm x 1/2" BSPP Fem. Swivel Elbow
	YPLF08-01	8mm x 1/8" BSPP Fem. Swivel Elbow
	YPLF08-02	8mm x 1/4" BSPP Fem. Swivel Elbow
	YPLF08-03	8mm x 3/8" BSPP Fem. Swivel Elbow
	YPLF08-04	8mm x 1/2" BSPP Fem. Swivel Elbow
	YPLF10-01	10mm x 1/8" BSPP Fem. Swivel Elbow
	YPLF10-02	10mm x 1/4" BSPP Fem. Swivel Elbow
	YPLF10-03	10mm x 3/8" BSPP Fem. Swivel Elbow
	YPLF10-04	10mm x 1/2" BSPP Fem. Swivel Elbow
YPLF12-02	12mm x 1/4" BSPP Fem. Swivel Elbow	
YPLF12-03	12mm x 3/8" BSPP Fem. Swivel Elbow	
YPLF12-04	12mm x 1/2" BSPP Fem. Swivel Elbow	

Push Fit	Model	Description
<b>Male Swivel Elbow (O.D. Tube to Male BSP Thread) YPL</b>		
	YPL04-M5	4mm x M5 BSPT Swivel Elbow
	YPL04-01	4mm x 1/8" BSPT Swivel Elbow
	YPL04-02	4mm x 1/4" BSPT Swivel Elbow
	YPL04-03	4mm x 3/8" BSPT Swivel Elbow
	YPL06-M5	6mm x M5 BSPT Swivel Elbow
	YPL06-01	6mm x 1/8" BSPT Swivel Elbow
	YPL06-02	6mm x 1/4" BSPT Swivel Elbow
	YPL06-03	6mm x 3/8" BSPT Swivel Elbow
	YPL06-04	6mm x 1/2" BSPT Swivel Elbow
	YPL08-01	8mm x 1/8" BSPT Swivel Elbow
	YPL08-02	8mm x 1/4" BSPT Swivel Elbow
	YPL08-03	8mm x 3/8" BSPT Swivel Elbow
	YPL08-04	8mm x 1/2" BSPT Swivel Elbow
	YPL10-01	10mm x 1/8" BSPT Swivel Elbow
	YPL10-02	10mm x 1/4" BSPT Swivel Elbow
	YPL10-03	10mm x 3/8" BSPT Swivel Elbow
YPL10-04	10mm x 1/2" BSPT Swivel Elbow	
YPL12-02	12mm x 1/4" BSPT Swivel Elbow	
YPL12-03	12mm x 3/8" BSPT Swivel Elbow	
YPL12-04	12mm x 1/2" BSPT Swivel Elbow	
YPL16-04	16mm x 1/2" BSPT Swivel Elbow	


**Extension Swivel Elbow (O.D. Tube to Male BSP Thread) YPLL**

	YPLL04-M5	4mm x M5 BSPT Ext. Swivel Elbow
	YPLL04-01	4mm x 1/8" BSPT Ext. Swivel Elbow
	YPLL04-02	4mm x 1/4" BSPT Ext. Swivel Elbow
	YPLL06-M5	6mm x M5 BSPT Ext. Swivel Elbow
	YPLL06-01	6mm x 1/8" BSPT Ext. Swivel Elbow
	YPLL06-02	6mm x 1/4" BSPT Ext. Swivel Elbow
	YPLL06-03	6mm x 3/8" BSPT Ext. Swivel Elbow
	YPLL06-04	6mm x 1/2" BSPT Ext. Swivel Elbow
	YPLL08-01	8mm x 1/8" BSPT Ext. Swivel Elbow
	YPLL08-02	8mm x 1/4" BSPT Ext. Swivel Elbow
	YPLL08-03	8mm x 3/8" BSPT Ext. Swivel Elbow
	YPLL08-04	8mm x 1/2" BSPT Ext. Swivel Elbow
	YPLL10-01	10mm x 1/8" BSPT Ext. Swivel Elbow
	YPLL10-02	10mm x 1/4" BSPT Ext. Swivel Elbow
	YPLL10-03	10mm x 3/8" BSPT Ext. Swivel Elbow
	YPLL10-04	10mm x 1/2" BSPT Ext. Swivel Elbow
YPLL12-02	12mm x 1/4" BSPT Ext. Swivel Elbow	
YPLL12-03	12mm x 3/8" BSPT Ext. Swivel Elbow	
YPLL12-04	12mm x 1/2" BSPT Ext. Swivel Elbow	

**Elbow Joiner (O.D. Tube to O.D. Tube) YPV**

	YPV04	4mm Elbow Joiner
	YPV06	6mm Elbow Joiner
	YPV08	8mm Elbow Joiner
	YPV10	10mm Elbow Joiner
	YPV12	12mm Elbow Joiner
	YPV16	16mm Elbow Joiner

**Straight Joiner (O.D. Tube to O.D. Tube) YPU**

	YPU04	4mm Straight Joiner
	YPU06	6mm Straight Joiner
	YPU08	8mm Straight Joiner
	YPU10	10mm Straight Joiner
	YPU12	12mm Straight Joiner
	YPU16	16mm Straight Joiner

**Tee Joiner (O.D. Tube to O.D. Tube) YPE**


	YPE04	4mm Tee Joiner
	YPE06	6mm Tee Joiner
	YPE08	8mm Tee Joiner
	YPE10	10mm Tee Joiner
	YPE12	12mm Tee Joiner
	YPE16	16mm Tee Joiner

Push Fit	Model	Description
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- Swivel Joints
- Nickel Plated Brass Body with PTFE Coated Male Thread
- UV Resistant Plastic Body, Stainless Steel Gripper and NBR O-ring

### Male Run Tee (O.D. Tube to Male BSP Thread)

YPB


	YPB04-M5	4mm x M5" BSPT Male Run Tee
	YPB04-01	4mm x 1/8" BSPT Male Run Tee
	YPB04-02	4mm x 1/4" BSPT Male Run Tee
	YPB06-M5	6mm x M5" BSPT Male Run Tee
	YPB06-01	6mm x 1/8" BSPT Male Run Tee
	YPB06-02	6mm x 1/4" BSPT Male Run Tee
	YPB06-03	6mm x 3/8" BSPT Male Run Tee
	YPB06-04	6mm x 1/2" BSPT Male Run Tee
	YPB08-01	8mm x 1/8" BSPT Male Run Tee
	YPB08-02	8mm x 1/4" BSPT Male Run Tee
	YPB08-03	8mm x 3/8" BSPT Male Run Tee
	YPB08-04	8mm x 1/2" BSPT Male Run Tee
	YPB10-01	10mm x 1/8" BSPT Male Run Tee
	YPB10-02	10mm x 1/4" BSPT Male Run Tee
	YPB10-03	10mm x 3/8" BSPT Male Run Tee
YPB10-04	10mm x 1/2" BSPT Male Run Tee	
YPB12-02	12mm x 1/4" BSPT Male Run Tee	
YPB12-03	12mm x 3/8" BSPT Male Run Tee	
YPB12-04	12mm x 1/2" BSPT Male Run Tee	

Push Fit	Model	Description
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- Suitable for Air to 10 Bar. Metric and Imperial Tube Fittings
- Straight Fittings with Internal Allen Key Drive for Installation in Narrow Positions


### Male Branch Tee (O.D. Tube to Male BSP Thread)

YPD

	YPD04-M5	4mm x M5 BSPT Male Branch Tee
	YPD04-01	4mm x 1/8" BSPT Male Branch Tee
	YPD04-02	4mm x 1/4" BSPT Male Branch Tee
	YPD06-M5	6mm x M5 BSPT Male Branch Tee
	YPD06-01	6mm x 1/8" BSPT Male Branch Tee
	YPD06-02	6mm x 1/4" BSPT Male Branch Tee
	YPD06-03	6mm x 3/8" BSPT Male Branch Tee
	YPD06-04	6mm x 1/2" BSPT Male Branch Tee
	YPD08-01	8mm x 1/8" BSPT Male Branch Tee
	YPD08-02	8mm x 1/4" BSPT Male Branch Tee
	YPD08-03	8mm x 3/8" BSPT Male Branch Tee
	YPD08-04	8mm x 1/2" BSPT Male Branch Tee
	YPD10-01	10mm x 1/8" BSPT Male Branch Tee
	YPD10-02	10mm x 1/4" BSPT Male Branch Tee
	YPD10-03	10mm x 3/8" BSPT Male Branch Tee
YPD10-04	10mm x 1/2" BSPT Male Branch Tee	
YPD12-02	12mm x 1/4" BSPT Male Branch Tee	
YPD12-03	12mm x 3/8" BSPT Male Branch Tee	
YPD12-04	12mm x 1/2" BSPT Male Branch Tee	


### Male Branch Y (O.D. Tube to Male BSP Thread)

YPX

	YPX04-M5	4mm x M5 BSPT Male Branch Y
	YPX04-01	4mm x 1/8" BSPT Male Branch Y
	YPX04-02	4mm x 1/4" BSPT Male Branch Y
	YPX06-M5	6mm x M5 BSPT Male Branch Y
	YPX06-01	6mm x 1/8" BSPT Male Branch Y
	YPX06-02	6mm x 1/4" BSPT Male Branch Y
	YPX06-03	6mm x 3/8" BSPT Male Branch Y
	YPX06-04	6mm x 1/2" BSPT Male Branch Y
	YPX08-01	8mm x 1/8" BSPT Male Branch Y
	YPX08-02	8mm x 1/4" BSPT Male Branch Y
	YPX08-03	8mm x 3/8" BSPT Male Branch Y
	YPX08-04	8mm x 1/2" BSPT Male Branch Y
	YPX10-01	10mm x 1/8" BSPT Male Branch Y
	YPX10-02	10mm x 1/4" BSPT Male Branch Y
	YPX10-03	10mm x 3/8" BSPT Male Branch Y
YPX10-04	10mm x 1/2" BSPT Male Branch Y	
YPX12-02	12mm x 1/4" BSPT Male Branch Y	
YPX12-03	12mm x 3/8" BSPT Male Branch Y	
YPX12-04	12mm x 1/2" BSPT Male Branch Y	


### Universal Female Elbow (O.D. Tube to Male BSP Thread)

YPHF

	YPHF04-M5	4mm x M5 BSPP Univ. Female Elbow
	YPHF04-01	4mm x 1/8" BSPP Univ. Female Elbow
	YPHF04-02	4mm x 1/4" BSPP Univ. Female Elbow
	YPHF06-M5	6mm x M5 BSPP Univ. Female Elbow
	YPHF06-01	6mm x 1/8" BSPP Univ. Female Elbow
	YPHF06-02	6mm x 1/4" BSPP Univ. Female Elbow
	YPHF06-03	6mm x 3/8" BSPP Univ. Female Elbow
	YPHF06-04	6mm x 1/2" BSPP Univ. Female Elbow
	YPHF08-01	8mm x 1/8" BSPP Univ. Female Elbow
	YPHF08-02	8mm x 1/4" BSPP Univ. Female Elbow
	YPHF08-03	8mm x 3/8" BSPP Univ. Female Elbow
	YPHF08-04	8mm x 1/2" BSPP Univ. Female Elbow
	YPHF10-01	10mm x 1/8" BSPP Univ. Female Elbow
	YPHF10-02	10mm x 1/4" BSPP Univ. Female Elbow
	YPHF10-03	10mm x 3/8" BSPP Univ. Female Elbow
YPHF10-04	10mm x 1/2" BSPP Univ. Female Elbow	
YPHF12-02	12mm x 1/4" BSPP Univ. Female Elbow	
YPHF12-03	12mm x 3/8" BSPP Univ. Female Elbow	
YPHF12-04	12mm x 1/2" BSPP Univ. Female Elbow	


### Elbow Speed Control (O.D. Tube to Male BSP Thread)

YSC

	YSC04-M5	4mm x M5 BSPT Tube Speed Control
	YSC04-01	4mm x 1/8" BSPT Tube Speed Control
	YSC04-02	4mm x 1/4" BSPT Tube Speed Control
	YSC06-M5	6mm x M5 BSPT Tube Speed Control
	YSC06-01	6mm x 1/8" BSPT Tube Speed Control
	YSC06-02	6mm x 1/4" BSPT Tube Speed Control
	YSC06-03	6mm x 3/8" BSPT Tube Speed Control
	YSC06-04	6mm x 1/2" BSPT Tube Speed Control
	YSC08-01	8mm x 1/8" BSPT Tube Speed Control
	YSC08-02	8mm x 1/4" BSPT Tube Speed Control
	YSC08-03	8mm x 3/8" BSPT Tube Speed Control
	YSC08-04	8mm x 1/2" BSPT Tube Speed Control
	YSC10-01	10mm x 1/8" BSPT Tube Speed Control
	YSC10-02	10mm x 1/4" BSPT Tube Speed Control
	YSC10-03	10mm x 3/8" BSPT Tube Speed Control
YSC10-04	10mm x 1/2" BSPT Tube Speed Control	
YSC12-02	12mm x 1/4" BSPT Tube Speed Control	
YSC12-03	12mm x 3/8" BSPT Tube Speed Control	
YSC12-04	12mm x 1/2" BSPT Tube Speed Control	

### Hex Head Male Elbow (O.D. Tube to Male BSP Thread)

YPH

	YPH04-M5	4mm x M5 BSPT Hex Head Male Elbow
	YPH04-01	4mm x 1/8" BSPT Hex Head Male Elbow
	YPH04-02	4mm x 1/4" BSPT Hex Head Male Elbow
	YPH06-M5	6mm x M5 BSPT Hex Head Male Elbow
	YPH06-01	6mm x 1/8" BSPT Hex Head Male Elbow
	YPH06-02	6mm x 1/4" BSPT Hex Head Male Elbow
	YPH06-03	6mm x 3/8" BSPT Hex Head Male Elbow
	YPH06-04	6mm x 1/2" BSPT Hex Head Male Elbow
	YPH08-01	8mm x 1/8" BSPT Hex Head Male Elbow
	YPH08-02	8mm x 1/4" BSPT Hex Head Male Elbow
	YPH08-03	8mm x 3/8" BSPT Hex Head Male Elbow
	YPH08-04	8mm x 1/2" BSPT Hex Head Male Elbow
	YPH10-01	10mm x 1/8" BSPT Hex Head Male Elbow
	YPH10-02	10mm x 1/4" BSPT Hex Head Male Elbow
	YPH10-03	10mm x 3/8" BSPT Hex Head Male Elbow
YPH10-04	10mm x 1/2" BSPT Hex Head Male Elbow	
YPH12-02	12mm x 1/4" BSPT Hex Head Male Elbow	
YPH12-03	12mm x 3/8" BSPT Hex Head Male Elbow	
YPH12-04	12mm x 1/2" BSPT Hex Head Male Elbow	

Push Fit	Model	Description
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Push Fit	Model	Description
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## Metric Push Fits - Plastic

### Bulkhead Union (O.D. Tube to O.D. Tube) YPM

	YPM04	4mm Bulkhead Union
	YPM06	6mm Bulkhead Union
	YPM08	8mm Bulkhead Union
	YPM10	10mm Bulkhead Union
	YPM12	12mm Bulkhead Union

### Y Joiner (O.D. Tube to O.D. Tube) YPY

	YPY04	4mm Y Joiner
	YPY06	6mm Y Joiner
	YPY08	8mm Y Joiner
	YPY10	10mm Y Joiner
	YPY12	12mm Y Joiner
	YPY16	16mm Y Joiner

### Cross Joiner (O.D. Tube to O.D. Tube) YPZ

	YPZA04	4mm Cross Joiner
	YPZA06	6mm Cross Joiner
	YPZA08	8mm Cross Joiner
	YPZA10	10mm Cross Joiner
	YPZA12	12mm Cross Joiner


### Triple Joiner (O.D. Tube to O.D. Tube) YPK

	YPK04	4mm Triple Joiner
	YPK06	6mm Triple Joiner
	YPK08	8mm Triple Joiner
	YPK10	10mm Triple Joiner
	YPK12	12mm Triple Joiner


### Triple Male Elbow (O.D. Tube to Male BSP Thread) YPKB

	YPKB04-01	4mm x 1/8" BSPT Triple Male Elbow
	YPKB04-02	4mm x 1/4" BSPT Triple Male Elbow
	YPKB06-01	6mm x 1/8" BSPT Triple Male Elbow
	YPKB06-02	6mm x 1/4" BSPT Triple Male Elbow
	YPKB06-03	6mm x 3/8" BSPT Triple Male Elbow
	YPKB08-01	8mm x 1/8" BSPT Triple Male Elbow
	YPKB08-02	8mm x 1/4" BSPT Triple Male Elbow
	YPKB08-03	8mm x 3/8" BSPT Triple Male Elbow


### Plug In Elbow (O.D. Tube to Male Tube) YPLGJ

	YPLGJ06-04	6mm to 4mm Plug in Elbow
	YPLGJ08-04	8mm to 4mm Plug in Elbow
	YPLGJ08-06	8mm to 6mm Plug in Elbow
	YPLGJ10-6	10mm to 6mm Plug in Elbow
	YPLGJ10-8	10mm to 8mm Plug in Elbow
	YPLGJ12-10	12mm to 10mm Plug in Elbow
	YPLGJ12-8	12mm to 8mm Plug in Elbow


### Plug In Tee (O.D. Tube to Male Tube) YPEGJ

	YPEGJ06-04	6mm to 4mm Plug in Tee
	YPEGJ08-04	8mm to 4mm Plug in Tee
	YPEGJ08-06	8mm to 6mm Plug in Tee
	YPEGJ10-6	10mm to 6mm Plug in Tee
	YPEGJ10-8	10mm to 8mm Plug in Tee
	YPEGJ12-10	12mm to 10mm Plug in Tee
	YPEGJ12-8	12mm to 8mm Plug in Tee

### Plug In Reducer (O.D. Tube to Male Tube) YPGJ


	YPGJ06-04	6mm to 4mm Plug in Reducer
	YPGJ08-04	8mm to 4mm Plug in Reducer
	YPGJ08-06	8mm to 6mm Plug in Reducer
	YPGJ10-06	10mm to 6mm Plug in Reducer
	YPGJ10-08	10mm to 8mm Plug in Reducer
	YPGJ12-06	12mm to 6mm Plug in Reducer
	YPGJ12-08	12mm to 8mm Plug in Reducer
	YPGJ12-10	12mm to 10mm Plug in Reducer

### Plug (Male Tube) YPP


	YPP04	4mm Plug
	YPP06	6mm Plug
	YPP08	8mm Plug
	YPP10	10mm Plug
	YPP12	12mm Plug

## Imperial Push Fits - Plastic


### Male Straight Connector (O.D. Tube to Male BSP Thread) IPC

	IPC14-01	1/4" Tube x 1/8" BSPT Male Straight Connector
	IPC14-02	1/4" Tube x 1/4" BSPT Male Straight Connector
	IPC14-03	1/4" Tube x 3/8" BSPT Male Straight Connector
	IPC14-04	1/4" Tube x 1/2" BSPT Male Straight Connector
	IPC516-01	5/16" Tube x 1/8" BSPT Male Straight Connector
	IPC516-02	5/16" Tube x 1/4" BSPT Male Straight Connector
	IPC516-03	5/16" Tube x 3/8" BSPT Male Straight Connector
	IPC516-04	5/16" Tube x 1/2" BSPT Male Straight Connector
	IPC38-01	3/8" Tube x 1/8" BSPT Male Straight Connector
	IPC38-02	3/8" Tube x 1/4" BSPT Male Straight Connector
	IPC38-03	3/8" Tube x 3/8" BSPT Male Straight Connector
	IPC38-04	3/8" Tube x 1/2" BSPT Male Straight Connector
	IPC12-02	1/2" Tube x 1/4" BSPT Male Straight Connector
	IPC12-03	1/2" Tube x 3/8" BSPT Male Straight Connector
	IPC12-04	1/2" Tube x 1/2" BSPT Male Straight Connector


### Swivel Elbow (O.D. Tube to Male BSP Thread) IPL

	IPL14-01	1/4" Tube x 1/8" BSPT Swivel Elbow
	IPL14-02	1/4" Tube x 1/4" BSPT Swivel Elbow
	IPL14-03	1/4" Tube x 3/8" BSPT Swivel Elbow
	IPL14-04	1/4" Tube x 1/2" BSPT Swivel Elbow
	IPL516-01	5/16" Tube x 1/8" BSPT Swivel Elbow
	IPL516-02	5/16" Tube x 1/4" BSPT Swivel Elbow
	IPL516-03	5/16" Tube x 3/8" BSPT Swivel Elbow
	IPL516-04	5/16" Tube x 1/2" BSPT Swivel Elbow
	IPL38-01	3/8" Tube x 1/8" BSPT Swivel Elbow
	IPL38-02	3/8" Tube x 1/4" BSPT Swivel Elbow
	IPL38-03	3/8" Tube x 3/8" BSPT Swivel Elbow
	IPL38-04	3/8" Tube x 1/2" BSPT Swivel Elbow
	IPL12-02	1/2" Tube x 1/4" BSPT Swivel Elbow
	IPL12-03	1/2" Tube x 3/8" BSPT Swivel Elbow
	IPL12-04	1/2" Tube x 1/2" BSPT Swivel Elbow

### Tee Joiner (O.D. Tube to O.D. Tube) IPE

	IPE14	1/4" Tee Joiner
	IPE16	5/16" Tee Joiner
	IPE38	3/8" Tee Joiner
	IPE12	1/2" Tee Joiner

### Straight Joiner (O.D. Tube to O.D. Tube) IPU

	IPU14	1/4" Tube St. Joiner
	IPU16	5/16" Tube St. Joiner
	IPU38	3/8" Tube St. Joiner
	IPU12	1/2" Tube St. Joiner

## Imperial Push Fits - Plastic

Push Fit	Model	Description
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### Y Joiner (O.D. Tube to O.D. Tube) IPY

	IPY14	1/4" Y Joiner
	IPY516	5/16" Y Joiner
	IPY38	3/8" Y Joiner
	IPY12	1/2" Y Joiner

### Elbow Joiner (O.D. Tube to O.D. Tube) IPV

	IPV14	1/4" Elbow Joiner	YBV-04
	IPV516	5/16" Elbow Joiner	
	IPV38	3/8" Elbow Joiner	
	IPV12	1/2" Elbow Joiner	

### Female Swivel Elbow (O.D. Tube to Female BSP Thread) IPLF

	IPLF14-01	1/4" x 1/8" BSPT Female Swivel Elbow
	IPLF14-02	1/4" x 1/4" BSPT Female Swivel Elbow
	IPLF14-03	1/4" x 3/8" BSPT Female Swivel Elbow
	IPLF14-04	1/4" x 1/2" BSPT Female Swivel Elbow
	IPLF15-01	5/16" x 1/8" BSPT Female Swivel Elbow
	IPLF15-02	5/16" x 1/2" BSPT Female Swivel Elbow
	IPLF15-03	5/16" x 3/8" BSPT Female Swivel Elbow
	IPLF15-04	5/16" x 1/2" BSPT Female Swivel Elbow
	IPLF38-01	3/8" x 1/8" BSPT Female Swivel Elbow
	IPLF38-02	3/8" x 1/4" BSPT Female Swivel Elbow
	IPLF38-03	3/8" x 3/8" BSPT Female Swivel Elbow
	IPLF38-04	3/8" x 1/2" BSPT Female Swivel Elbow
	IPLF12-02	1/2" x 1/4" BSPT Female Swivel Elbow
	IPLF12-03	1/2" x 3/8" BSPT Female Swivel Elbow
	IPLF12-04	1/2" x 1/2" BSPT Female Swivel Elbow

### On/Off Valve c/w Push Fit Ends YBV

	YBV04	4mm On/Off Valve
	YBV06	6mm On/Off Valve
	YBV08	8mm On/Off Valve
	YBV10	10mm On/Off Valve
	YBV12	12mm On/Off Valve

Push Fit	Model	Description
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### Male Run Tee (O.D. Tube to Male BSP Thread) IPB

	IPB6-18	1/8" x 1/8" BSPT Male Run Tee
	IPB6-14	1/4" x 1/4" BSPT Male Run Tee
	IPB8-18	1/8" x 1/8" BSPT Male Run Tee
	IPB8-14	1/4" x 1/4" BSPT Male Run Tee
	IPB10-14	1/4" x 1/4" BSPT Male Run Tee
	IPB10-38	3/8" x 3/8" BSPT Male Run Tee
	IPB12-14	1/4" x 1/4" BSPT Male Run Tee
	IPB12-38	3/8" x 3/8" BSPT Male Run Tee
	IPB12-12	1/2" x 1/2" BSPT Male Run Tee

### Female Swivel Elbow (O.D. Tube to Female BSP Thread) IPCF

	IPCF14-01	1/4" x 1/8" BSPT Female Straight Connector
	IPCF14-01	1/4" x 1/4" BSPT Female Straight Connector
	IPCF14-01	1/4" x 3/8" BSPT Female Straight Connector
	IPCF14-01	1/4" x 1/2" BSPT Female Straight Connector
	IPCF14-01	5/16" x 1/8" BSPT Female Straight Connector
	IPCF14-01	5/16" x 1/2" BSPT Female Straight Connector
	IPCF14-01	5/16" x 3/8" BSPT Female Straight Connector
	IPCF14-01	5/16" x 1/2" BSPT Female Straight Connector
	IPCF14-01	3/8" x 1/8" BSPT Female Straight Connector
	IPCF14-01	3/8" x 1/4" BSPT Female Straight Connector
	IPCF14-01	3/8" x 3/8" BSPT Female Straight Connector
	IPCF14-01	3/8" x 1/2" BSPT Female Straight Connector
	IPCF14-01	1/2" x 1/4" BSPT Female Straight Connector
	IPCF14-01	1/2" x 3/8" BSPT Female Straight Connector
	IPCF14-01	1/2" x 1/2" BSPT Female Straight Connector

### Bulkhead Union (O.D. Tube to O.D. Tube) IPM

	IPM14	1/4" Bulkhead Union
	IPM516	5/16" Bulkhead Union
	IPM38	3/8" Bulkhead Union
	IPM12	1/2" Bulkhead Union

## Metric Push Fits - Stainless Steel SS316

Push Fit	Model	Description
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### Tee Joiner (O.D. Tube to O.D. Tube) SPE

	SPE04	4mm Tee Joiner
	SPE06	6mm Tee Joiner
	SPE08	8mm Tee Joiner
	SPE10	10mm Tee Joiner
	SPE12	12mm Tee Joiner
	SPE14	14mm Tee Joiner *
	SPE16	16mm Tee Joiner

### Elbow Joiner (O.D. Tube to O.D. Tube) SPV

	SPV04	4mm Elbow Joiner
	SPV06	6mm Elbow Joiner
	SPV08	8mm Elbow Joiner
	SPV10	10mm Elbow Joiner
	SPV12	12mm Elbow Joiner
	SPV14	14mm Elbow Joiner *
	SPV16	16mm Elbow Joiner

### Bulkhead Union (O.D. Tube to O.D. Tube) SPM

	SPM04	4mm Bulkhead Union
	SPM06	6mm Bulkhead Union
	SPM08	8mm Bulkhead Union
	SPM10	10mm Bulkhead Union
	SPM12	12mm Bulkhead Union
	SPM14	14mm Bulkhead Union *
	SPM16	16mm Bulkhead Union

Push Fit	Model	Description
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### Straight Joiner (O.D. Tube to O.D. Tube) SPS

	SPS04	4mm Straight Joiner
	SPS06	6mm Straight Joiner
	SPS08	8mm Straight Joiner
	SPS10	10mm Straight Joiner
	SPS12	12mm Straight Joiner
	SPS14	14mm Straight Joiner *
	SPS16	16mm Straight Joiner

### Elbow Speed Control (O.D. Tube to Male BSP Thread) SSC

	SSC04-01	4mm x 1/8" BSPT Tube Speed Control
	SSC04-02	4mm x 1/4" BSPT Tube Speed Control
	SSC06-01	6mm x 1/8" BSPT Tube Speed Control
	SSC06-02	6mm x 1/4" BSPT Tube Speed Control
	SSC08-01	8mm x 1/8" BSPT Tube Speed Control
	SSC08-02	8mm x 1/4" BSPT Tube Speed Control
	SSC10-02	10mm x 1/4" BSPT Tube Speed Control
	SSC10-03	10mm x 3/8" BSPT Tube Speed Control
	SSC12-03	12mm x 3/8" BSPT Tube Speed Control
	SSC12-04	12mm x 1/2" BSPT Tube Speed Control

\* Indent only to order - Minimum quantity required.  
See page 57 for specifications.




**Metric Push Fits - Stainless Steel SS316**


- Swivel Joints
- Stainless Steel Body SS316
- Stainless Steel Internals SS316
- Viton (FKM) O-Ring
- Suitable for Air to 20 Bar. Metric Tube Fittings
- Ideal for food, pharmaceutical, marine environment, chemical
- 20 BAR Working Pressure Ambient
- Optional Imperial and other sizes including 14mm OD Tube (Indent Only)

Push Fit	Model	Description
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**Male Straight Connector (O.D. Tube to Male BSP Thread) SPC**

 <p>SS316</p>	SPC04-M5	4mm x M5 BSPT Male Straight Connector
	SPC04-01	4mm x 1/8" BSPT Male Straight Connector
	SPC04-02	4mm x 1/4" BSPT Male Straight Connector
	SPC06-M5	6mm X M5 Male Straight Connector
	SPC06-01	6mm x 1/8" BSPT Male Straight Connector
	SPC06-02	6mm x 1/4" BSPT Male Straight Connector
	SPC06-03	6mm x 3/8" BSPT Male Straight Connector
	SPC08-01	8mm x 1/8" BSPT Male Straight Connector
	SPC08-02	8mm x 1/4" BSPT Male Straight Connector
	SPC08-03	8mm x 3/8" BSPT Male Straight Connector
	SPC10-02	10mm x 1/4" BSPT Male Straight Connector
	SPC10-03	10mm x 3/8" BSPT Male Straight Connector
	SPC10-04	10mm x 1/2" BSPT Male Straight Connector
	SPC12-02	12mm x 1/4" BSPT Male Straight Connector
	SPC12-03	12mm x 3/8" BSPT Male Straight Connector
SPC12-04	12mm x 1/2" BSPT Male Straight Connector	
SPC14-04	14mm x 1/2" BSPT Male Straight Connector *	
SPC16-04	16mm x 1/2" BSPT Male Straight Connector	
SPC16-05	16mm x 3/4" BSPT Male Straight Connector	

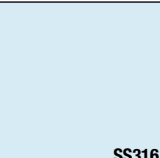
**Female Straight Connector (O.D. Tube to Female BSP Thread) SPCF**

 <p>SS316</p>	SPCF04-01	4mm x 1/8" BSPT Female Straight Connector
	SPCF04-02	4mm x 1/4" BSPT Female Straight Connector
	SPCF06-01	6mm x 1/8" BSPT Female Straight Connector
	SPCF06-02	6mm x 1/4" BSPT Female Straight Connector
	SPCF08-01	8mm x 1/8" BSPT Female Straight Connector
	SPCF08-02	8mm x 1/4" BSPT Female Straight Connector
	SPCF08-03	8mm x 3/8" BSPT Female Straight Connector
	SPCF10-02	10mm x 1/4" BSPT Female Straight Connector
	SPCF10-03	10mm x 3/8" BSPT Female Straight Connector
	SPCF10-04	10mm x 1/2" BSPT Female Straight Connector
	SPCF12-02	12mm x 1/4" BSPT Female Straight Connector
	SPCF12-03	12mm x 3/8" BSPT Female Straight Connector
	SPCF12-04	12mm x 1/2" BSPT Female Straight Connector

**Male Run Tee (O.D. Tube to Male BSP Thread) SPB**


 <p>SS316</p>	SPB04-01	4mm x 1/8" BSPT Male Run Tee
	SPB04-02	4mm x 1/4" BSPT Male Run Tee
	SPB06-01	6mm x 1/8" BSPT Male Run Tee
	SPB06-02	6mm x 1/4" BSPT Male Run Tee
	SPB08-01	8mm x 1/8" BSPT Male Run Tee
	SPB08-02	8mm x 1/4" BSPT Male Run Tee
	SPB08-03	8mm x 3/8" BSPT Male Run Tee
	SPB10-02	10mm x 1/4" BSPT Male Run Tee
	SPB10-03	10mm x 3/8" BSPT Male Run Tee
	SPB12-03	12mm x 3/8" BSPT Male Run Tee
	SPB12-04	12mm x 1/2" BSPT Male Run Tee
	SPB14-04	14mm x 1/2" BSPT Male Run Tee *
	SPB16-04	16mm x 1/2" BSPT Male Run Tee
	SPB16-05	16mm x 3/4" BSPT Male Run Tee

**Plug (Male Tube) SPP**


 <p>SS316</p>	SPP04	4mm Plug
	SPP06	6mm Plug
	SPP08	8mm Plug
	SPP10	10mm Plug
	SPP12	12mm Plug

Push Fit	Model	Description
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**Male Swivel Elbow (O.D. Tube to Male BSP Thread) SPL**

 <p>SS316</p>	SPL04-M5	4mm x M5 BSPT Male Swivel Elbow
	SPL04-01	4mm x 1/8" BSPT Male Swivel Elbow
	SPL04-02	4mm x 1/4" BSPT Male Swivel Elbow
	SPL06-M5	6mm x M5 BSPT Male Swivel Elbow
	SPL06-01	6mm x 1/8" BSPT Male Swivel Elbow
	SPL06-02	6mm x 1/4" BSPT Male Swivel Elbow
	SPL06-03	6mm x 3/8" BSPT Male Swivel Elbow
	SPL08-01	8mm x 1/8" BSPT Male Swivel Elbow
	SPL08-02	8mm x 1/4" BSPT Male Swivel Elbow
	SPL08-03	8mm x 3/8" BSPT Male Swivel Elbow
	SPL10-02	10mm x 1/4" BSPT Male Swivel Elbow
	SPL10-03	10mm x 3/8" BSPT Male Swivel Elbow
	SPL10-04	10mm x 1/2" BSPT Male Swivel Elbow
	SPL12-02	12mm x 1/4" BSPT Male Swivel Elbow
	SPL12-03	12mm x 3/8" BSPT Male Swivel Elbow
SPL12-04	12mm x 1/2" BSPT Male Swivel Elbow	
SPL14-04	14mm x 1/2" BSPT Male Swivel Elbow *	
SPL16-04	16mm x 1/2" BSPT Male Swivel Elbow	
SPL16-05	16mm x 3/4" BSPT Male Swivel Elbow	

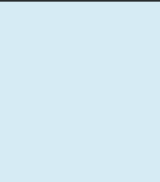
**Female Swivel Elbow (O.D. Tube to Female BSP Thread) SPLF**

 <p>SS316</p>	SPLF04-01	4mm x 1/8" BSPT Female Swivel Elbow
	SPLF04-02	4mm x 1/4" BSPT Female Swivel Elbow
	SPLF06-01	6mm x 1/8" BSPT Female Swivel Elbow
	SPLF06-02	6mm x 1/4" BSPT Female Swivel Elbow
	SPLF08-01	8mm x 1/8" BSPT Female Swivel Elbow
	SPLF08-02	8mm x 1/4" BSPT Female Swivel Elbow
	SPLF08-03	8mm x 3/8" BSPT Female Swivel Elbow
	SPLF10-02	10mm x 1/4" BSPT Female Swivel Elbow
	SPLF10-03	10mm x 3/8" BSPT Female Swivel Elbow
	SPLF10-04	10mm x 1/2" BSPT Female Swivel Elbow
	SPLF12-02	12mm x 1/4" BSPT Female Swivel Elbow
	SPLF12-03	12mm x 3/8" BSPT Female Swivel Elbow
	SPLF12-04	12mm x 1/2" BSPT Female Swivel Elbow

**Male Branch Tee (O.D. Tube to Male BSP Thread) SPD**

 <p>SS316</p>	SPD04-01	4mm x 1/8" BSPT Male Branch Tee
	SPD04-02	4mm x 1/4" BSPT Male Branch Tee
	SPD06-01	6mm x 1/8" BSPT Male Branch Tee
	SPD06-02	6mm x 1/4" BSPT Male Branch Tee
	SPD08-01	8mm x 1/8" BSPT Male Branch Tee
	SPD08-02	8mm x 1/4" BSPT Male Branch Tee
	SPD10-02	10mm x 1/4" BSPT Male Branch Tee
	SPD10-03	10mm x 3/8" BSPT Male Branch Tee
	SPD12-03	12mm x 3/8" BSPT Male Branch Tee
	SPD12-04	12mm x 1/2" BSPT Male Branch Tee
	SPD14-04	14mm x 1/2" BSPT Male Branch Tee *
	SPD16-04	16mm x 1/2" BSPT Male Branch Tee
	SPD16-05	16mm x 3/4" BSPT Male Branch Tee

**Plug In Reducer (O.D. Tube to Male Tube) SPGJ**

 <p>SS316</p>	SPGJ06-04	6mm to 4mm Plug in Reducer
	SPGJ08-04	8mm to 4mm Plug in Reducer
	SPGJ08-06	8mm to 6mm Plug in Reducer
	SPGJ10-06	10mm to 6mm Plug in Reducer
	SPGJ10-08	10mm to 8mm Plug in Reducer
	SPGJ12-06	12mm to 6mm Plug in Reducer
	SPGJ12-08	12mm to 8mm Plug in Reducer
	SPGJ12-10	12mm to 10mm Plug in Reducer


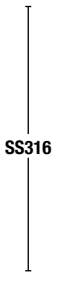
\* Indent only to order - Minimum quantity required.

### Screwed Fittings - Stainless Steel SS316


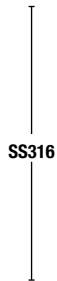
- 316 Stainless Steel
- Acid cleaned for swarf and contaminants

- 150lb pressure rating (200 psi @ 20°C working pressure)
- All threads are qualified


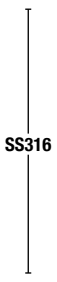
Fittings	Model	Description
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Nipple Hex • SS316 Body • BSP Threaded		SF27	
 <p>SS316</p>	SF2701	1/8" BSP Nipple Hex	 <p>SS316</p>
	SF2702	1/4" BSP Nipple Hex	
	SF2703	3/8" BSP Nipple Hex	
	SF2704	1/2" BSP Nipple Hex	
	SF2705	3/4" BSP Nipple Hex	
	SF2706	1" BSP Nipple Hex	
	SF2707	1 1/4" BSP Nipple Hex	
	SF2708	1 1/2" BSP Nipple Hex	
	SF2709	2" BSP Nipple Hex	
	SF2710	2 1/2" BSP Nipple Hex	
	SF2711	3" BSP Nipple Hex	
	SF2712	4" BSP Nipple Hex	


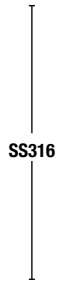
Fittings	Model	Description
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Elbow Male to Female • SS316 Body • BSP Threaded		SF25	
 <p>SS316</p>	SF2501	1/8" BSP Elbow Male & Female	 <p>SS316</p>
	SF2502	1/4" BSP Elbow Male & Female	
	SF2503	3/8" BSP Elbow Male & Female	
	SF2504	1/2" BSP Elbow Male & Female	
	SF2505	3/4" BSP Elbow Male & Female	
	SF2506	1" BSP Elbow Male & Female	
	SF2507	1 1/4" BSP Elbow Male & Female	
	SF2508	1 1/2" BSP Elbow Male & Female	
	SF2509	2" BSP Elbow Male & Female	
	SF2510	2 1/2" BSP Elbow Male & Female	
	SF2511	3" BSP Elbow Male & Female	
	SF2512	4" BSP Elbow Male & Female	


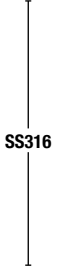
Socket • SS316 Body • BSP Threaded		SF26
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 <p>SS316</p>	SF2601	1/8" BSP Socket Female	 <p>SS316</p>
	SF2602	1/4" BSP Socket Female	
	SF2603	3/8" BSP Socket Female	
	SF2604	1/2" BSP Socket Female	
	SF2605	3/4" BSP Socket Female	
	SF2606	1" BSP Socket Female	
	SF2607	1 1/4" BSP Socket Female	
	SF2608	1 1/2" BSP Socket Female	
	SF2609	2" BSP Socket Female	
	SF2610	2 1/2" BSP Socket Female	
	SF2611	3" BSP Socket Female	
	SF2612	4" BSP Socket Female	


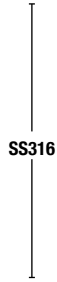
Tee • SS316 Body • BSP Threaded		SF35
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 <p>SS316</p>	SF3501	1/8" BSP Tee Female	 <p>SS316</p>
	SF3502	1/4" BSP Tee Female	
	SF3503	3/8" BSP Tee Female	
	SF3504	1/2" BSP Tee Female	
	SF3505	3/4" BSP Tee Female	
	SF3506	1" BSP Tee Female	
	SF3507	1 1/4" BSP Tee Female	
	SF3508	1 1/2" BSP Tee Female	
	SF3509	2" BSP Tee Female	
	SF3510	2 1/2" BSP Tee Female	
	SF3511	3" BSP Tee Female	
	SF3512	4" BSP Tee Female	



Elbow Female to Female • SS316 Body • BSP Threaded		SF34
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 <p>SS316</p>	SF3401	1/8" BSP Elbow Female & Female	 <p>SS316</p>
	SF3402	1/4" BSP Elbow Female & Female	
	SF3403	3/8" BSP Elbow Female & Female	
	SF3404	1/2" BSP Elbow Female & Female	
	SF3405	3/4" BSP Elbow Female & Female	
	SF3406	1" BSP Elbow Female & Female	
	SF3407	1 1/4" BSP Elbow Female & Female	
	SF3408	1 1/2" BSP Elbow Female & Female	
	SF3409	2" BSP Elbow Female & Female	
	SF3410	2 1/2" BSP Elbow Female & Female	
	SF3411	3" BSP Elbow Female & Female	
	SF3412	4" BSP Elbow Female & Female	


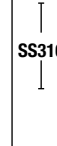
Plug Hex • SS316 Body • BSP Threaded		SF64
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 <p>SS316</p>	SF6401	1/8" BSP Plug Hex	 <p>SS316</p>
	SF6402	1/4" BSP Plug Hex	
	SF6403	3/8" BSP Plug Hex	
	SF6404	1/2" BSP Plug Hex	
	SF6405	3/4" BSP Plug Hex	
	SF6406	1" BSP Plug Hex	
	SF6407	1 1/4" BSP Plug Hex	
	SF6408	1 1/2" BSP Plug Hex	
	SF6409	2" BSP Plug Hex	
	SF6410	2 1/2" BSP Plug Hex	
	SF6411	3" BSP Plug Hex	
	SF6412	4" BSP Plug Hex	


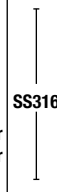
Male Barrel Unions • SS316 Body • BSP Threaded		SF80
• Conical Metal to Metal Seat		

 <p>SS316</p>	SF8004	1/2" BSP Union Coupler	 <p>SS316</p>
	SF8005	3/4" BSP Union Coupler	
	SF8006	1" BSP Union Coupler	
	SF8007	1 1/4" BSP Union Coupler	
	SF8008	1 1/2" BSP Union Coupler	
	SF8009	2" BSP Union Coupler	
	SF8010	2 1/2" BSP Union Coupler	
	SF8011	3" BSP Union Coupler	
	SF8012	4" BSP Union Coupler	


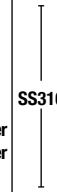
Adapter Male & Female • SS316 Body • BSP Threaded		SF72
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 <p>SS316</p>	SF720201	1/4" BSP Female X 1/8" BSP Male Adapter	 <p>SS316</p>
	SF720302	3/8" BSP Female X 1/4" BSP Male Adapter	

Adapters • SS316 Body • NPT Female to BSP Male NPBP		GAUA
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 <p>SS316</p>	NPBP-02-02N	1/4" BSP Female x 1/4" NPT Male Adapter	 <p>SS316</p>
	NPBP-03-03N	3/8" BSP Female x 3/8" NPT Male Adapter	
	NPBP-04-04N	1/2" BSP Female x 1/2" NPT Male Adapter	
	NPBP-05-05N	3/4" BSP Female x 3/4" NPT Male Adapter	
	NPBP-06-06N	1" BSP Female x 1" NPT Male Adapter	
	NPBP-07-07N	1 1/4" BSP Female x 1 1/4" NPT Male Adapter	
	NPBP-08-08N	1 1/2" BSP Female x 1 1/2" NPT Male Adapter	
	NPBP-09-09N	2" BSP Female x 2" NPT Male Adapter	

Adapters • SS316 Body • BSP Female to NPT Male		GAUA
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 <p>SS316</p>	GAUA-02-02N	1/4" BSP Female x 1/4" NPT Male Adapter	 <p>SS316</p>
	GAUA-03-03N	3/8" BSP Female x 3/8" NPT Male Adapter	
	GAUA-04-04N	1/2" BSP Female x 1/2" NPT Male Adapter	
	GAUA-05-05N	3/4" BSP Female x 3/4" NPT Male Adapter	
	GAUA-06-06N	1" BSP Female x 1" NPT Male Adapter	
	GAUA-07-07N	1 1/4" BSP Female x 1 1/4" NPT Male Adapter	
	GAUA-08-08N	1 1/2" BSP Female x 1 1/2" NPT Male Adapter	
	GAUA-09-09N	2" BSP Female x 2" NPT Male Adapter	

### Screwed Fittings - Stainless Steel SS316


- 316 Stainless Steel
- Acid cleaned for swarf and contaminants

- 150lb pressure rating (200 psi @ 20°C working pressure)
- All threads are qualified

Fittings	Model	Description
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#### Reducing Bush • SS316 Body • BSP Threaded


SF24

	SF240201	1/4" x 1/8" BSP Reducing Bush	SS316
	SF240301	3/8" x 1/8" BSP Reducing Bush	
	SF240302	3/8" x 1/4" BSP Reducing Bush	
	SF240402	1/2" x 1/4" BSP Reducing Bush	
	SF240403	1/2" x 3/8" BSP Reducing Bush	
	SF240502	3/4" x 1/4" BSP Reducing Bush	
	SF240503	3/4" x 3/8" BSP Reducing Bush	
	SF240504	3/4" x 1/2" BSP Reducing Bush	
	SF240604	1" x 1/2" BSP Reducing Bush	
	SF240605	1" x 3/4" BSP Reducing Bush	
	SF240706	1 1/4" x 1" BSP Reducing Bush	
	SF240806	1 1/2" x 1" BSP Reducing Bush	
	SF240807	1 1/2" x 1 1/4" BSP Reducing Bush	
	SF240906	2" x 1" BSP Reducing Bush	
	SF240907	2" x 1 1/4" BSP Reducing Bush	
	SF240908	2" x 1 1/2" BSP Reducing Bush	
SF241008	2 1/2" x 2" BSP Reducing Bush		
SF241109	3" x 2" BSP Reducing Bush		
SF241110	3" x 2 1/2" BSP Reducing Bush		
SF241211	4" x 3" BSP Reducing Bush		

Fittings	Model	Description
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#### Hose Tail • SS316 Body • BSP Threaded

SF30

	SF300102	1/8" BSP x 1/4" Tail	SS316
	SF300202	1/4" BSP x 1/4" Tail	
	SF300302	3/8" BSP x 1/4" Tail	
	SF300102.5	1/8" BSP x 5/16" Tail	
	SF300202.5	1/4" BSP x 5/16" Tail	
	SF300302.5	3/8" BSP x 5/16" Tail	
	SF300203	1/4" BSP x 3/8" Tail	
	SF300303	3/8" BSP x 3/8" Tail	
	SF300403	1/2" BSP x 3/8" Tail	
	SF300204	1/4" BSP x 1/2" Tail	
	SF300304	3/8" BSP x 1/2" Tail	
	SF300404	1/2" BSP x 1/2" Tail	
	SF300504	3/4" BSP x 1/2" Tail	
	SF300405	1/2" BSP x 3/4" Tail	
	SF300505	3/4" BSP x 3/4" Tail	
	SF300606	1" BSP x 1" Tail	
SF300707	1 1/4" BSP x 1 1/4" Tail		
SF300808	1 1/2" BSP x 1 1/2" Tail		
SF300909	2" BSP x 2" Tail		

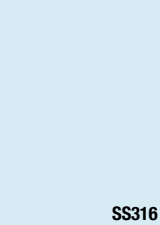
#### Reducing Nipple • SS316 Body • BSP Threaded

SF73

	SF730201	1/4" x 1/8" BSP Nipple Reducing	SS316
	SF730301	3/8" x 1/8" BSP Nipple Reducing	
	SF730302	3/8" x 1/4" BSP Nipple Reducing	
	SF730402	1/2" x 1/4" BSP Nipple Reducing	
	SF730403	1/2" x 3/8" BSP Nipple Reducing	
	SF730504	3/4" x 1/2" BSP Nipple Reducing	
	SF730604	1" x 1/2" BSP Nipple Reducing	
	SF730605	1" x 3/4" BSP Nipple Reducing	
	SF730706	1 1/4" x 1" BSP Nipple Reducing	
	SF730806	1 1/2" x 1" BSP Nipple Reducing	
	SF730807	1 1/2" x 1 1/4" BSP Nipple Reducing	
	SF730906	2" x 1" BSP Nipple Reducing	
	SF730907	2" x 1 1/4" BSP Nipple Reducing	
	SF730908	2" x 1 1/2" BSP Nipple Reducing	
	SF731009	2 1/2" x 2" BSP Nipple Reducing	
	SF731109	3" x 2" BSP Nipple Reducing	
SF731110	3" x 2 1/2" BSP Nipple Reducing		
SF731209	4" x 2" BSP Nipple Reducing		
SF731210	4" x 2 1/2" BSP Nipple Reducing		
SF731211	4" x 3" BSP Nipple Reducing		

#### Barrel Nipple • SS316 Body • BSP Threaded

SF28

	SF2801	1/8" BSP Barrel Nipple	SS316
	SF2802	1/4" BSP Barrel Nipple	
	SF2803	3/8" BSP Barrel Nipple	
	SF2804	1/2" BSP Barrel Nipple	
	SF2805	3/4" BSP Barrel Nipple	
	SF2806	1" BSP Barrel Nipple	
	SF2807	1"-1/4" BSP Barrel Nipple	
	SF2808	1"-1/2" BSP Barrel Nipple	
	SF2809	2" BSP Barrel Nipple	

### Nitto Type Couplers - Stainless Steel SS304 - 15Bar Working Pressure

PM Male Adaptor (SS304)		
1/4 BSPM	S	20PM
3/8 BSPM	S	30PM
1/2 BSPM	S	40PM

PF Female Adaptor (SS304)		
1/4 BSPF	S	20PF
3/8 BSPF	S	30PF
1/2 BSPF	S	40PF

PH Hose Barb (SS304)		
8mm I.D. Hose	S	20PH
10mm I.D. Hose	S	30PH
12mm I.D. Hose	S	40PH

SM Male Coupler (SS304)		
1/4 BSPM	S	20SM
3/8 BSPM	S	30SM
1/2 BSPM	S	40SM

SF Female Coupler (SS304)		
1/4 BSPF	S	20SF
3/8 BSPF	S	30SF
1/2 BSPF	S	40SF

SH Hose Barb Coupler (SS304)		
8mm I.D. Hose	S	20SH
10mm I.D. Hose	S	30SH
12mm I.D. Hose	S	40SH



**Same Day Despatch**

Huge stock holdings with great service



Biggest range of Solenoid Valves



Ball Valves for every application



Butterfly Valves In Stock



**Solenoid Valves**

Large range of solenoid valves including direct acting, differential, high pressure, high temperature, explosion proof along with the various body material options available. Applications include solenoid valves for water, steam, chemicals, high pressure and vacuum.



**Ball Valves**

Ball valve range includes 316 stainless steel, nickel plated brass, UPVC, 2 way, 3 way, threaded, flanged and fire safe. All ball valves are available with pneumatic, electric and manual operation.



**Butterfly Valves**

Comprehensive range of Butterfly Valves for general industrial, mining and agricultural applications. Sizes from 50mm to 2400mm In wafer, lugged and flanged. All are available with manual, electric or pneumatic actuation (double acting or spring return).



**Knife Gate Valves**

Knife gate valves in manual and double acting pneumatic actuation. Body materials Ductile Iron and 316 Stainless Steel with resilient (soft) and metal seat options. Applications include mining, mineral processing, power industries, slurries, sewerage and water treatment.



**Check Valves**

Check Valves in both Cast Iron and 316 Stainless Steel. Models include swing, piston, ball, pilot and duck bill. Applications include mining, mineral processing, power industries, sewerage, tidal and water treatment.



**Other Valves**

Also stock angle seat valves, needle valves, pinch needle valves, gate valves and globe valves for all industry applications.

**Instrumentation: Pressure/Temperature/Flow**



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**WARNING**

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**WARRANTY INFORMATION**

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