

**Global Presence for
Peace of Mind**

Bifold®

Pilot, Mechanical & Reset BXS Valves & High Flow SPR & PPV Valves

(Up to and including 174 psi / 12 bar operating pressure)

(Draft Copy)



Superior Performance Throughout the Full Operational Range

- BXS, SPR & PPV Valves
 - Certified as SIL 3 Capable
- Compact Design
- Up to 174 psi / 12 bar Operating Pressure
- Arctic Service Options to -60°C
- Valve Body 316L Stainless Steel
Aluminium Options Available
- NACE-MR-01-75 Option
- High Flow - up to 103.0 Cv
- Extensive Valve Operator Options
- NAMUR Interface with
Multi-Function Plates (BXS Only)

**Innovative and Reliable
Valve Solutions**



bifold.co.uk

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Features & Benefits



Standard Valve Equipment Design & Build

- Manufactured from 316L grade stainless steel as standard with aluminium options also available. The valves are suited for offshore and other corrosive atmospheres. Materials can be supplied compliant to NACE MR-01-75 rendering the valves suitable for sour gas media. Low temperature elastomer seals are available for low temperature arctic service applications.
- Bifold's BXS valve range offers a compact and flexible solution for low pressure applications. With over 35 common footprint modular operators, this versatile range covers a wide spectrum of actuation requirements.
- NAMUR Interface - available on 5 port configurations; supplied with multi-functional adapter plates to rotate through 90° or convert to 3/2 operation (BXS valves only).
- Bifold's SPR series spool type valves are positively sealed for low pressure applications up to 145 psi / 10 bar. Primarily designed for handling the high flow demands of large swept volume and/or fast acting valve actuators controlling pipeline ESD, process plant or similar applications, these afford a compact, light weight product with exceptional installation versatility.
- For systems where the actuator opening times are not critical and a small diameter tubing is used for the pressure supply, a smaller port block can be used for the pressure line connection. This eliminates the need for costly reducer fittings. The direction of the supply and vent tubing is also optional by the selection and orientation of direct entry or side entry port blocks.
- SPR Valves can be configured as 3/2 and 5/2. Normally Closed, Normally Open or Normally Universal. Users should note that the pilot operating pressures are higher for Normally Open configured valves.
- Bifold's PPV series poppet valves are positively sealed for low pressure applications up to 145 psi / 10 bar. This range of SIL 3 capable 1½" and 2" valves offer the highest flow available in the market and satisfy the demands of large swept volume and/or fast acting valve actuators controlling pipeline ESD, process plant or similar applications. PPV Valves are available as 1, 2 or 3 port exhaust units offering exceptional versatility and flow.

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Features & Benefits



Please refer to the Bifold website to see full range of SIL 3 capability certificates for the BXS, SPR & PPV.

State of the Art Testing



Safety and Environmental Benefits

- **SIL 3 capability:** The product has met manufacturer design process requirements of Safety Integrity Level (SIL) 3.

- **Balanced valve with high safety factors to de-energise at all pressures in Normally Open and Normally Closed configurations.**

- **Bifold has state of the art product qualification and production equipment including flow (Cv), environment (-70°C to +180°C), function and leakage testing, and data logging.**

- **Tolerant to moist air in control lines.**

- **Products are manufactured, inspected, assembled and tested in our state of the art production facilities.**

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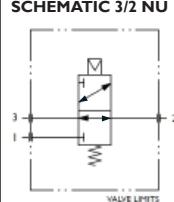
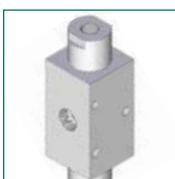
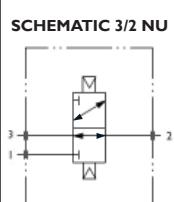
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Preferred Range



BX5 PILOT VALVES - PREFERRED RANGE

Product	Schematic Representation	Page Number	Product Code	Product Description
 BXS Pilot Valve	 SCHEMATIC 3/2 NU	15	BXS-04-04-PI-32-NU-00-V	<p>1/4" NPT Ports, 3 Way 2 Position, Pilot Operated, Normally Universal, Spring Return.</p> <p>Cv 0.73, 174 psi / 12 bar.</p>
 BXS Pilot Valve	 SCHEMATIC 3/2 NU	15	BXS-04-04-PI-32-NU-PI-V	<p>1/4" NPT Ports, 3 Way 2 Position, Pilot Operated, Normally Universal, Pilot Return (Bi-stable).</p> <p>Cv 0.73, 174 psi / 12 bar.</p>

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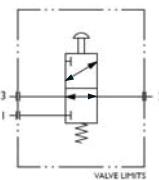
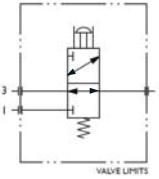
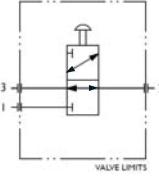
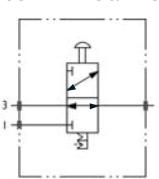
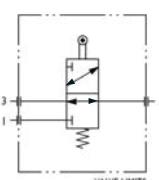
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BXS MECHANICAL VALVES - PREFERRED RANGE

Product	Schematic Representation	Page Number	Product Code	Product Description
 BXS Mechanical Valve	SCHEMATIC 3/2 NU 	15	BXS-04-04-MI-32-NU-00-V	1/4" NPT Ports, 3 Way 2 Position, Push Button, Normally Universal, Spring Return. Cv 0.73, 174 psi / 12 bar.
 BXS Mechanical Valve	SCHEMATIC 3/2 NU 	15	BXS-04-04-M2-32-NU-00-V	1/4" NPT Ports, 3 Way 2 Position, Shrouded Button, Normally Universal, Spring Return. Cv 0.73, 174 psi / 12 bar.
 BXS Mechanical Valve	SCHEMATIC 3/2 NU 	15	BXS-04-04-M3-32-NU-04-V	1/4" NPT Ports, 3 Way 2 Position, Push / Pull Operated, Normally Universal (Bi-stable). Cv 0.73, 174 psi / 12 bar.
 BXS Mechanical Valve	SCHEMATIC 3/2 NU 	15	BXS-04-04-M3-32-NU-05-V	1/4" NPT Ports, 3 Way 2 Position, Push / Pull Button, Normally Universal, Detented. Cv 0.73, 174 psi / 12 bar.
 BXS Mechanical Valve	SCHEMATIC 3/2 NU 	15	BXS-04-04-M13-32-NU-00-V	1/4" NPT Ports, 3 Way 2 Position, Cam Operated, Normally Universal, Spring Return. Cv 0.73, 174 psi / 12 bar.

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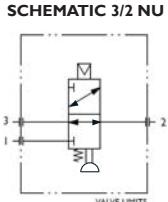
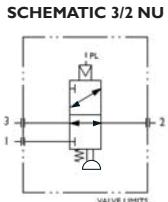
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Preferred Range



BXS RESET VALVES - PREFERRED RANGE

Product	Schematic Representation	Page Number	Product Code	Product Description
 BXS Reset Valve	 SCHEMATIC 3/2 NU	15	BXS-04-04-P1-32-NU-M15-V	<p>$1/4"$ NPT Ports, 3 Way 2 Position, Pull Button or Pilot Pressure to Operate, Normally Universal, Spring Return.</p> <p>Cv 0.73, 174 psi / 12 bar.</p>
 BXS Reset Valve	 SCHEMATIC 3/2 NU	15	BXS-04-04-P9-32-NC-M15-V	<p>$1/4"$ NPT Ports, 3 Way 2 Position, Pull Button to Operate, Air Latch Pilot, Normally Closed, Spring Return.</p> <p>Cv 0.73, 174 psi / 12 bar.</p>

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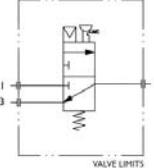
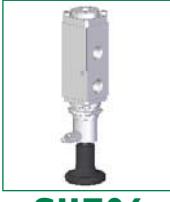
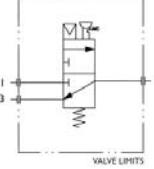
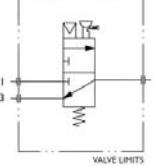
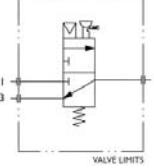
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SJJE06 & HSJJE06 RESET VALVES - PREFERRED RANGE

Product	Schematic Representation	Page Number	Product Code	Product Description
 SJJE06 Gaseous Service Reset Valve	SCHEMATIC 3/2 NC 	18	SJJE06-P1-32-NC-M16-K54	1/4" NPT Ports, 3 Way 2 Position, Pull Button or Pilot Pressure to Operate, Preliminary Latch Pin, Normally Closed, Spring Return. Cv 0.73, 145 psi / 10 bar.
 SJJE06 Gaseous Service Reset Valve	SCHEMATIC 3/2 NC 	18	SJJE06-P9-32-NC-M16-K54	1/4" NPT Ports, 3 Way 2 Position, Pull Button to Operate, Preliminary Latch Pin, Air Latch Pilot, Normally Closed, Spring Return. Cv 0.73, 145 psi / 10 bar.
 HSJJE06 Hydraulic Service Reset Valve	SCHEMATIC 3/2 NC 	18	HSJJE06-P1-32-NC-M16-K54	1/4" NPT Ports, 3 Way 2 Position, Pull Button or Pilot Pressure to Operate, Preliminary Latch Pin, Normally Closed, Spring Return. Cv 0.73, 116 psi / 8 bar.
 HSJJE06 Hydraulic Service Reset Valve	SCHEMATIC 3/2 NC 	18	HSJJE06-P92-32-NC-M16-K54	1/4" NPT Ports, 3 Way 2 Position, Pull Button to Operate, Preliminary Latch Pin, Air Latch Pilot, Normally Closed, Spring Return. Cv 0.73, 116 psi / 8 bar.

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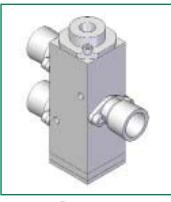
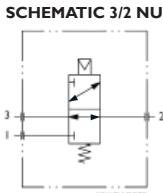
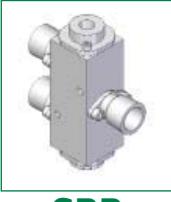
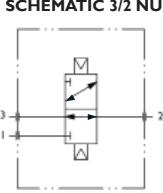
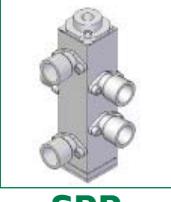
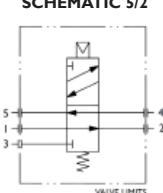
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SPR HIGH FLOW PILOT VALVES - PREFERRED RANGE

Product	Schematic Representation	Page Number	Product Code	Product Description
 SPR High Flow Pilot Valve	 SCHEMATIC 3/2 NU	19	SPR-08-08-PI-32-NU-00-V	<p>$\frac{1}{2}$" NPT Ports, 3 Way 2 Position, Pilot Operated, Normally Universal, Spring Return.</p> <p>Cv 3.9, 145 psi / 10 bar.</p>
 SPR High Flow Pilot Valve	 SCHEMATIC 3/2 NU	19	SPR-08-08-PI-32-NU-PI-V	<p>$\frac{1}{2}$" NPT Ports, 3 Way 2 Position, Pilot Operated, Normally Universal, Pilot Return (Bi-stable).</p> <p>Cv 3.9, 145 psi / 10 bar.</p>
 SPR High Flow Pilot Valve	 SCHEMATIC 5/2	20	SPR-08-08-PI-52-XX-00-V	<p>$\frac{1}{2}$" NPT Ports, 5 Way 2 Position, Pilot Operated, Spring Return.</p> <p>Cv 3.9, 145 psi / 10 bar.</p>

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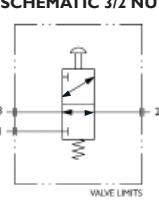
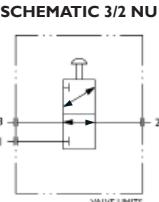
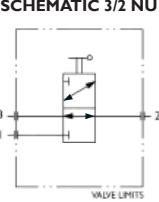
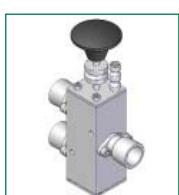
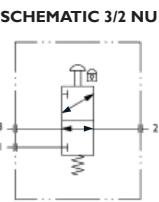
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Preferred Range



SPR HIGH FLOW MECHANICAL VALVES - PREFERRED RANGE

Product	Schematic Representation	Page Number	Product Code	Product Description
 SPR High Flow Mechanical Valve	SCHEMATIC 3/2 NU 	19	SPR-08-08-M1-32-NU-00-V	1/2" NPT Ports, 3 Way 2 Position, Push Button, Normally Universal, Spring Return. Cv 3.9, 145 psi / 10 bar.
 SPR High Flow Mechanical Valve	SCHEMATIC 3/2 NU 	19	SPR-08-08-M3-32-NU-04-V	1/2" NPT Ports, 3 Way 2 Position, Push/Pull Operated, Normally Universal (Bi-stable). Cv 3.9, 145 psi / 10 bar.
 SPR High Flow Mechanical Valve	SCHEMATIC 3/2 NU 	19	SPR-08-08-M6-32-NU-04-V	1/2" NPT Ports, 3 Way 2 Position, Lever Operated, Normally Universal (Bi-stable). Cv 3.9, 145 psi / 10 bar.
 SPR High Flow Mechanical Valve	SCHEMATIC 3/2 NU 	19	SPR-08-08-M9/1-32-NU-00-V	1/2" NPT Ports, 3 Way 2 Position, Padlockable Push Button, Normally Universal, Spring Return. Cv 3.9, 145 psi / 10 bar.

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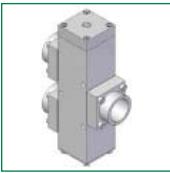
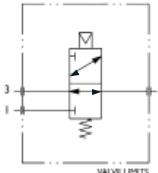
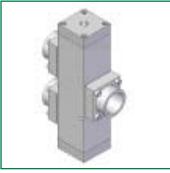
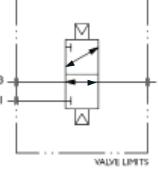
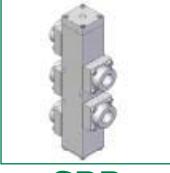
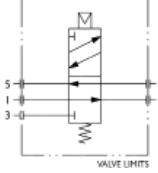
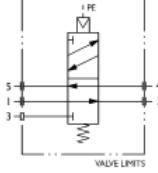
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Preferred Range



SPR HIGH FLOW PILOT VALVES - PREFERRED RANGE

Product	Schematic Representation	Page Number	Product Code	Product Description
 SPR High Flow Pilot Valve	SCHEMATIC 3/2 NU  <p>VALVE LIMITS</p>	21	SPR-16-16-PI-32-NU-00-V	1" NPT Ports, 3 Way 2 Position, Pilot Operated, Normally Universal, Spring Return. Cv 11.1, 145 psi / 10 bar.
 SPR High Flow Pilot Valve	SCHEMATIC 3/2 NU  <p>VALVE LIMITS</p>	21	SPR-16-16-PI-32-NU-PI-V	1" NPT Ports, 3 Way 2 Position, Pilot Operated, Normally Universal, Pilot Return (Bi-stable). Cv 11.1, 145 psi / 10 bar.
 SPR High Flow Pilot Valve	SCHEMATIC 5/2  <p>VALVE LIMITS</p>	22	SPR-16-16-PI-52-XX-00-V	1" NPT Ports, 5 Way 2 Position, Pilot Operated, Spring Return. Cv 11.1, 145 psi / 10 bar.
 SPR High Flow Pilot Valve	SCHEMATIC 5/2  <p>VALVE LIMITS</p>	22	SPR-16-16-PI-52-XX-00-V	1" NPT Ports, 5 Way 2 Position, Pilot Operated (Equaliser), Spring Return. Cv 11.1, 145 psi / 10 bar.

Accuracy of information

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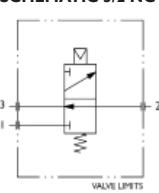
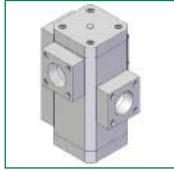
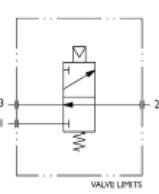
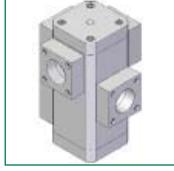
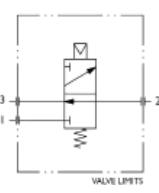
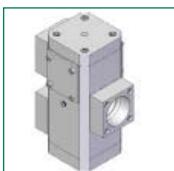
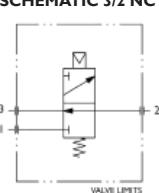
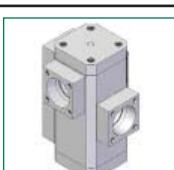
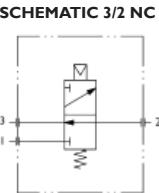
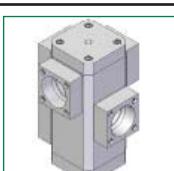
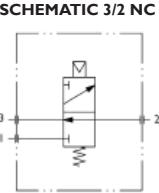
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Preferred Range



PPV HIGH FLOW PILOT VALVES - PREFERRED RANGE

Product	Schematic Representation	Page Number	Product Code	Product Description
 PPV High Flow Pilot Valve	SCHEMATIC 3/2 NC 	23	PPV-32-24-PI-32-NC-00-V-E-K54	1½" NPT Ports, 3 Way 2 Position, Pilot Operated, Normally Closed, Spring Return, Single Exhaust. Cv 37.0, 145 psi / 10 bar. Cv 37.0, 145 psi / 10 bar (Exhaust).
 PPV High Flow Pilot Valve	SCHEMATIC 3/2 NC 	23	PPV-32-24-PI-32-NC-00-V-EE-K54	1½" NPT Ports, 3 Way 2 Position, Pilot Operated, Normally Closed, Spring Return, Double Exhaust. Cv 37.0, 145 psi / 10 bar. Cv 50.0, 145 psi / 10 bar (Exhaust).
 PPV High Flow Pilot Valve	SCHEMATIC 3/2 NC 	23	PPV-32-24-PI-32-NC-00-V-EEE-K54	1½" NPT Ports, 3 Way 2 Position, Pilot Operated, Normally Closed, Spring Return, Triple Exhaust. Cv 37.0, 145 psi / 10 bar. Cv 58.0, 145 psi / 10 bar (Exhaust).
 PPV High Flow Pilot Valve	SCHEMATIC 3/2 NC 	23	PPV-32-32-PI-32-NC-00-V-E-K54	2" NPT Ports, 3 Way 2 Position, Pilot Operated, Normally Closed, Spring Return, Single Exhaust. Cv 61.6, 145 psi / 10 bar. Cv 61.6, 145 psi / 10 bar (Exhaust).
 PPV High Flow Pilot Valve	SCHEMATIC 3/2 NC 	23	PPV-32-32-PI-32-NC-00-V-EE-K54	2" NPT Ports, 3 Way 2 Position, Pilot Operated, Normally Closed, Spring Return, Double Exhaust. Cv 61.6, 145 psi / 10 bar. Cv 94.6, 145 psi / 10 bar (Exhaust).
 PPV High Flow Pilot Valve	SCHEMATIC 3/2 NC 	23	PPV-32-32-PI-32-NC-00-V-EEE-K54	2" NPT Ports, 3 Way 2 Position, Pilot Operated, Normally Closed, Spring Return, Triple Exhaust. Cv 61.6, 145 psi / 10 bar. Cv 103.0, 145 psi / 10 bar (Exhaust).

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BXS Overview



Materials of Construction

Valve:	316L stainless steel as standard with aluminium options also available.
Seat Materials:	Viton as standard. Alternative elastomers available for extreme conditions.
Springs:	UNS R30003 and 316L stainless steel.
Ports:	1/4" thread milled NPT (BSPP options available).

Certification & Approvals



SIL 3 capability: The product has met manufacturer design process requirements of Safety Integrity Level (SIL) 3 in accordance with IEC 61508.

Flow Performance

0.73 Cv.

Operating Media

- Filtered air.
- Inert gas.
- Sweet or sour gas.
- Water and water glycol.
- Mineral Oil.

Temperature Rating

-15°C to +130°C (Standard).
-25°C to +130°C (Low Temperature).
-55°C to +130°C (Arctic service option).

Operating Pressure

0 - 174 psi / 12 bar mainstage working pressure.
00 - Spring Return Pneumatic.
32.6 psi / 2.5 bar minimum pilot pressure - 14.5 psi / 1 bar dropout.
00/1 - Spring Return hydraulic.
72.5 psi / 5 bar minimum pilot pressure - 36.2 psi / 2.5 bar dropout.
P4 - Hydraulic Pilot (High Pressure).
5000 psi / 345 bar maximum pilot pressure - 70 psi / 1015 bar minimum pilot pressure.
P6 - Air Pilot (Low Pressure).
18 psi / 1.25 bar minimum pilot pressure - 7 psi / 0.5 bar dropout.

Bifold BXS valves must be installed, operated and maintained in accordance with the relevant Bifold installation, operating and maintenance instructions, relevant installation rules, regulations and codes of practice.

SPR Overview

Materials of Construction

Valve:	316L stainless steel as standard with aluminium options also available.
Fasteners:	Metric A4 18/10 316L stainless steel.
Seat Materials:	Viton as standard. Alternative elastomers available for extreme conditions.
Springs:	UNS R30003 and 316L stainless steel.
Ports:	1/4", 3/8", 1/2", 3/4" & 1" thread milled NPT (BSPP options available).

Certification & Approvals



SIL 3 capability: The product has met manufacturer design process requirements of Safety Integrity Level (SIL) 3 in accordance with IEC 61508.

Flow Performance

1/2" 3.9 Cv.
1" 11.1 Cv.

Operating Media

- Filtered air.
- Inert gas.
- Sweet or sour gas.

Temperature Rating

-20°C to +120°C (Standard).
-60°C to +100°C (Arctic service option).

Operating Pressure

0 - 145 psi / 10 bar mainstage working pressure.
P1 - Air Pilot (Standard).
43.5 psi / 3 bar - Minimum Pilot Pressure - Normally Closed.
72.5 psi / 5 bar - Minimum Pilot Pressure - Normally Open.
P6 - Air Pilot (Low Pressure)
14.5 psi / 1 bar - Normally Closed & Normally Open.
P16 - Air Pilot (Equalizer).
43.5 psi / 3 bar - Normally Closed & Normally Open.

For more information, please contact Bifold Sales Department.

bifold.co.uk

PPV Overview



Materials of Construction

Valve:	316L stainless steel as standard with aluminium options also available.
Fasteners:	Metric A4 18/10 316L stainless steel.
Seat Materials:	Viton as standard. Alternative elastomers available for extreme conditions.
Springs:	UNS R30003 and 316L stainless steel.
Ports:	1½" & 2" thread milled NPT (BSPP options available).

Certification & Approvals



SIL 3 capability: The product has met manufacturer design process requirements of Safety Integrity Level (SIL) 3 in accordance with IEC 61508.

Temperature Rating

-25°C to +170°C (Standard).
-60°C to +160°C (Arctic service option).

Operating Pressure

0 - 145 psi / 10 bar mainstage working pressure.
29.0 psi / 2 bar minimum pilot pressure.

Flow Performance

1½"	37 Cv	E	Single Exhaust - 37.0 Cv.
		EE	Double Exhaust - 50.0 Cv.
		EEE	Triple Exhaust - 58.0 Cv.
2"	61.6 Cv	E	Single Exhaust - 61.6 Cv.
		EE	Double Exhaust - 94.6 Cv.
		EEE	Triple Exhaust - 103.0 Cv.

For more information, please contact Bifold Sales Department.

Port Connections

Port Connections for 3/2 (BXS, (H)SJJ06 & SPR)

PORT CONNECTIONS TABLE			
Configuration	Pressure	Service	Vent
Normally Closed	1	2	3
Normally Open	3	2	1

For port connections please refer to selection chart ordering example pages 15, 18, 19 & 21.

Port Connections for 5/2 & 5/3 (BXS), & 5/2 (SPR)

PORT CONNECTIONS TABLE			
Configuration	Pressure	Service	Vent
XX	1	2 & 4	3 & 5
YY	1	2 & 4	3 & 5
ZZ	1	2 & 4	3 & 5

For port connections, please refer to selection chart ordering example on pages 16, 17, 20 & 22.

Port Connections for 3/2 (PPV)

PORT CONNECTIONS TABLE			
Configuration	Pressure	Service	Vent
Normally Closed	1	2	3

For port connections please refer to selection chart ordering example page 23.

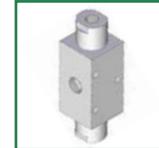
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BXS-04 3/2

For the dimensional drawings of the BXS valves, please see pages 24, 25 & 26.

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BXS-04 Selection Chart - Ordering Example

BXS-04 1/4"		Model Code	
04	1/4" Body Ported (Stainless Steel)	Connections	
A04	1/4" Body Ported (Aluminium)		
P1	Air Pilot (Standard)		
P2	Air Pilot (Side)		
P3	Air Pilot (Side + Manual Override)		
P4	Hydraulic Pilot (High Pressure)		
P5	Pressure Sensing Pilot		
P6	Air Pilot (Low Pressure)		
P9	Air Latch Pilot Operator		
M1	Push Button	Primary Operator	
M2	Shrouded Push Button		
M3	Push / Pull Button		
M5	Key Operator (Direct Acting)		
M5C	Key Operator (Direct Acting + Coded)		
M5/I	Key Operator (Indirect Acting)		
M5C/I	Key Operator (Indirect Acting + Coded)		
M7	Plunger		
M9	Push / Pull Button (M3) with Padlock		
M9/I	Push Button (M1) with padlock		
M13	Roller Cam (Ball)		
22	2 Way 2 Position (Only available in a NO & NC configuration)	Configuration	
32	3 Way 2 Position		
NC	Normally Closed (P9 option only)	Configuration	
NU	Normally Universal	(For the port connections table, please refer to page 14)	
00	Spring Return Pneumatic		
00/I	Spring Return Hydraulic		
02	Spring Return + Plunger		
03/I	Spring Return + Latch - Energised		
03/2	Spring Return + Latch - De-Energised		
04	Blank (Bi-Stable)		
05	Positive Detent		
P1	Air Pilot (Standard)	Secondary Operator	
P2	Air Pilot (Side)		
P3	Air Pilot (Side + Manual Override)		
P4	Hydraulic Pilot (High Pressure)		
P5	Pressure Sensing Pilot		
P6	Air Pilot (Low Pressure)		
M1	Push Button		
M2	Shrouded Push Button		
M3	Push / Pull Button		
M7	Plunger		
M9	Push / Pull Button (M3) with Padlock		
M9/I	Push Button (M1) with Padlock		
M15	Pull Button (Spring Return) (Only available in a NC configuration)		
M17	Pull Button (Spring Return) + Padlock (Only available in a NC configuration)		
V	Viton	(-15°C to +130°C)	O-ring Material
SA	Nitrile (Low Temperature)	(-25°C to +130°C)	
AL	Fluorosilicone	(-55°C to +130°C)	
NO LETTER NPT Ports		Option	
K6	BSPP Ports		
K22 Extra Panel Mount Ring		Option	
K28 Red Plastic Button		Option	
K54 Block After Bleed (BAB)		Option	
BXS-04-04 - PI - 32 - NU - 00 - V - K6 - K22 - K28 - K54		Ordering Example	

Bespoke configured datasheets are available for specific model numbers, please contact Bifold for more information.

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BXS-04 5/2



BXS-04 Selection Chart - Ordering Example

BXS-04 1/4"		Model Code	
04	1/4" Body Ported (Stainless Steel)	Connections	
A04	1/4" Body Ported (Aluminium)		
P1	Air Pilot (Standard)		
P2	Air Pilot (Side)		
P3	Air Pilot (Side + Manual Override)		
P4	Hydraulic Pilot (High Pressure)		
P5	Pressure Sensing Pilot		
P6	Air Pilot (Low Pressure)		
P9	Air Latch Pilot Operator		
M1	Push Button	Primary Operator	
M2	Shrouded Push Button		
M3	Push / Pull Button		
M5	Key Operator (Direct Acting)		
M5C	Key Operator (Direct Acting + Coded)		
M5/I	Key Operator (Indirect Acting)		
M5C/I	Key Operator (Indirect Acting + Coded)		
M7	Plunger		
M9	Push / Pull Button (M3) with Padlock		
M9/I	Push Button (M1) with padlock		
M13	Roller Cam (Ball)		
52	5 Way 2 Position	Configuration	
53	5 Way 3 Position		
XX	5/2 Only		
YY	5/3 All Ports Blocked		
ZZ	5/3 Valve Cylinder Ports Vented	(For the port connections table, please refer to page 14)	
00	Spring Return Pneumatic		
00/I	Spring Return Hydraulic		
02	Spring Return + Plunger		
03/I	Spring Return + Latch - Energised		
03/2	Spring Return + Latch - De-Energised		
04	Blank (Bi-Stable)		
05	Positive Detent		
P1	Air Pilot (Standard)	Secondary Operator	
P2	Air Pilot (Side)		
P3	Air Pilot (Side + Manual Override)		
P4	Hydraulic Pilot (High Pressure)		
P5	Pressure Sensing Pilot		
P6	Air Pilot (Low Pressure)		
M1	Push Button		
M2	Shrouded Push Button		
M3	Push / Pull Button		
M7	Plunger		
M9	Push / Pull Button (M3) with Padlock		
M9/I	Push Button (M1) with Padlock		
M15	Pull Button (Spring Return)		
M17	Pull Button (Spring Return) + Padlock		
V	Viton	(-15°C to +130°C)	O-ring Material
SA	Nitrile (Low Temperature)	(-25°C to +130°C)	
AL	Fluorosilicone	(-55°C to +130°C)	
NO LETTER	NPT Ports		Option
K6	BSPP Ports		
K22	Extra Panel Mount Ring		Option
K28	Red Plastic Button		Option
BXS-04-04 - PI - 52 - XX - 00 - V - K6 - K22 - K28		Ordering Example	

Bespoke configured datasheets are available for specific model numbers, please contact Bifold for more information.

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BXS-04 5/2 NAMUR



BXS-04 Selection Chart - Ordering Example

BXS-04 1/4"		Model Code
N4	1/4" Body Ported NAMUR (Stainless Steel)	Connections
AN4	1/4" Body Ported NAMUR (Aluminium)	
P1	Air Pilot (Standard)	
P2	Air Pilot (Side)	
P3	Air Pilot (Side + Manual Override)	
P4	Hydraulic Pilot (High Pressure)	
P5	Pressure Sensing Pilot	
P6	Air Pilot (Low Pressure)	
P9	Air Latch Pilot Operator	
M1	Push Button	Primary Operator
M2	Shrouded Push Button	
M3	Push / Pull Button	
M5	Key Operator (Direct Acting)	
M5C	Key Operator (Direct Acting + Coded)	
M5/I	Key Operator (Indirect Acting)	
M5C/I	Key Operator (Indirect Acting + Coded)	
M7	Plunger	
M9	Push / Pull Button (M3) with Padlock	
M9/I	Push Button (M1) with padlock	
M13	Roller Cam (Ball)	
52	5 Way 2 Position	Configuration
53	5 Way 3 Position	
XX	5/2 Only	
YY	5/3 All Ports Blocked	(For the port connections table, please refer to page 14)
ZZ	5/3 Valve Cylinder Ports Vented	
00	Spring Return Pneumatic	
00/I	Spring Return Hydraulic	
02	Spring Return + Plunger	
03/I	Spring Return + Latch - Energised	
03/2	Spring Return + Latch - De-Energised	
04	Blank (Bi-Stable)	
05	Positive Detent	
P1	Air Pilot (Standard)	Secondary Operator
P2	Air Pilot (Side)	
P3	Air Pilot (Side + Manual Override)	
P4	Hydraulic Pilot (High Pressure)	
P5	Pressure Sensing Pilot	
P6	Air Pilot (Low Pressure)	
M1	Push Button	
M2	Shrouded Push Button	
M3	Push / Pull Button	
M7	Plunger	
M9	Push / Pull Button (M3) with Padlock	
M9/I	Push Button (M1) with Padlock	
M15	Pull Button (Spring Return)	
M17	Pull Button (Spring Return) + Padlock	
V	Viton	(-15°C to +130°C)
SA	Nitrile (Low Temperature)	(-25°C to +130°C)
AL	Fluorosilicone	(-55°C to +130°C)
NO LETTER	NPT Ports	
K6	BSPP Ports	
K22	Extra Panel Mount Ring	Option
K28	Red Plastic Button	Option
BXS-04-N04 - P1 - 52-XX - 00 - V - K6 - K22 - K28		Ordering Example

Bespoke configured datasheets are available for specific model numbers, please contact Bifold for more information.

Note:

All valves are supplied with a full set of mounting option, 3/2 & 5/2 configuration option interface blocks as standard, please see pages 34 & 35.

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(H)SJJE06 3/2

For the dimensional drawing of the SJJE06 valve, please see page 27.

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(H)SJJE06 Selection Chart - Ordering Example

SJJE06	Gaseous Service	Model Code
HSJJE06	Hydraulic Service	
P1	Air Pilot (Standard)	Primary Operator
P9	Air Latch Pilot Operator (Only available with the SJJE06 option)	
P92	Air Latch Pilot Operator (Only available with the HSJJE06 option)	
32	3 Way 2 Position	Configuration
NC	Normally Closed (For the port connections table, please refer to page 14)	Configuration
M16	Pull Button Spring Return with Preliminary Latch & Panel Mount	Secondary Operator
NO LETTER	NPT Ports	Option
K6	BSPP Ports	
K22	Extra Panel Mount Ring	Option
K28	Red Plastic Button	Option
K54	Block After Bleed (BAB)	Configuration
SJJE06 - P1 - 32 - NC - M16 - K6 - K22-K28 - K54		Ordering Example

Bespoke configured datasheets are available for specific model numbers, please contact Bifold for more information.

Wellhead market - Pull + Pin (Latching Valve)

SJJE06-P9-32-NC-M16-K54 (Gaseous Service)
 HSJJE06-P92-32-NC-M16-K54 (Hydraulic Service) }

Operating Pressure

0 - 145 psi / 10 bar Pneumatic Working Pressure.
 0 - 116 psi / 8 bar Hydraulic Working Pressure.

Temperature Rating

-20°C to +180°C (Standard Service).

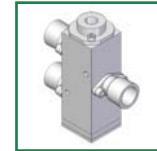
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SPR-08 3/2

For the dimensional drawings of the SPR valves, please see pages 28, 29 & 30.

**Bifold**®

SPR-08 Selection Chart - Ordering Example

SPR-08 1/2" Spool Valve			Model Code
06 3/8" Port Blocks (Stainless Steel) A06 3/8" Body Ported (Aluminium) 08 1/2" Port Blocks (Stainless Steel) A08 1/2" Body Ported (Aluminium)			Ports
P1 Air Pilot (Standard) P5 Pressure Sensing Pilot P6 Air Pilot (Low Pressure) P9 Air Latch Pilot Operator P16 Air Pilot (Equalizer)			(For operating pressures, please refer to page 14)
M1 Push Button M3 Push / Pull Button M6 Lever M9 Push / Pull Button (M3) with Padlock M9/I Push Button (M1) with padlock			Primary Operator
22 2 Way 2 Position (Only available in a NO & NC configuration) 32 3 Way 2 Position			Configuration
NC Normally Closed (P9 option only) NU Normally Universal			(For the port connections table, please refer to page 14)
00 Spring Return 04 Blank (Bi-Stable) 04/2 Blank + Plunger (Bi-Stable) 05 Positive Detent			
P1 Air Pilot (Standard) P5 Pressure Sensing Pilot P6 Air Pilot (Low Pressure) P16 Air Pilot (Equalizer)			(For operating pressures, please refer to page 13)
M1 Push Button M3 Push / Pull Button M6 Lever M9 Push / Pull Button (M3) with Padlock M9/I Push Button (M1) with padlock M15 Pull Button (Spring Return) (Only available in a NC configuration) M17 Pull Button (Spring Return) + Padlock (Only available in a NC configuration)			Secondary Operator
V Viton (Standard) (-20°C to +120°C) AL Fluorosilicone (-60°C to +100°C)			O-ring Material
NO LETTER NPT Ports K6 BSPP Ports			Option
K28 Red Plastic Button			Option
SPR-08-08 - P1 - 32 - NU - 00 - V - K6 - K28			Ordering Example

Bespoke configured datasheets are available for specific model numbers, please contact Bifold for more information.

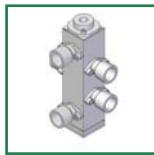
Accuracy of information
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Quality Assurance
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SPR-08 5/2

For the dimensional drawings of the SPR valves, please see page 28.



SPR-08 Selection Chart - Ordering Example

SPR-08 1/2" Spool Valve		Model Code
06 A06 08 A08	3/8" Port Blocks (Stainless Steel) 3/8" Body Ported (Aluminium) 1/2" Port Blocks (Stainless Steel) 1/2" Body Ported (Aluminium)	Ports
P1 P5 P6 P9 P16	Air Pilot (Standard) Pressure Sensing Pilot Air Pilot (Low Pressure) Air Latch Pilot Operator Air Pilot (Equalizer)	(For operating pressures, please refer to page 13)
M1 M3 M6 M9 M9/I	Push Button Push / Pull Button Lever Push / Pull Button (M3) with Padlock Push Button (M1) with padlock	Primary Operator
52	5 Way 2 Position	Configuration
XX	5/2 Only (For the port connections table, please refer to page 13)	Configuration
00 04 04/2 05	Spring Return Blank (Bi-Stable) Blank + Plunger (Bi-Stable) Positive Detent	(For operating pressures, please refer to page 13)
P1 P5 P6 P16	Air Pilot (Standard) Pressure Sensing Pilot Air Pilot (Low Pressure) Air Pilot (Equalizer)	
M1 M3 M6 M9 M9/I M15 M17	Push Button Push / Pull Button Lever Push / Pull Button (M3) with Padlock Push Button (M1) with padlock Pull Button (Spring Return) (Only available in a NC configuration) Pull Button (Spring Return) + Padlock (Only available in a NC configuration)	
V AL	Viton (Standard) (-20°C to +120°C) Fluorosilicone (-60°C to +100°C)	
NO LETTER	NPT Ports	O-ring Material
K6	BSPP Ports	Option
K28	Red Plastic Button	Option
SPR-08-08 - PI - 52 - XX - 00 - V - K6 - K28		Ordering Example

Bespoke configured datasheets are available for specific model numbers, please contact Bifold for more information.

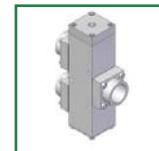
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SPR-16 3/2

For the dimensional drawings of the SPR valves, please see page 30.



SPR-16 Selection Chart - Ordering Example

SPR-16 1" Spool Valve		Model Code
I2	3/4" Port Blocks (Stainless Steel)	Ports
A12	3/4" Body Ported (Aluminium)	
I6	1" Port Blocks (Stainless Steel)	
A16	1" Body Ported (Aluminium)	
PI	Air Pilot (Standard)	
P6	Air Pilot (Low Pressure)	
PI6	Air Pilot (Equalizer)	
32	3 Way 2 Position	Configuration
NU	Normally Universal	Configuration
00	Spring Return	
PI	Air Pilot (Standard)	
P6	Air Pilot (Low Pressure)	
PI6	Air Pilot (Equalizer)	
V	Viton (Standard)	O-ring Material
AL	Fluorosilicone	
NO LETTER	NPT Ports	Option
K6	BSPP Ports	

SPR-16-I2 - PI - 32 - NU - 00 - V - K6

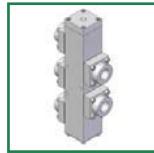
Ordering Example

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SPR-16 Selection Chart - Ordering Example

SPR-16	1" Spool Valve	Model Code
I2 A12 I6 A16	3/4" Port Blocks (Stainless Steel) 3/4" Body Ported (Aluminium) 1" Port Blocks (Stainless Steel) 1" Body Ported (Aluminium)	Ports
P1 P6 P16	Air Pilot (Standard) Air Pilot (Low Pressure) Air Pilot (Equalizer)	(For operating pressures, please refer to page 14) Primary Operator
52	5 Way 2 Position	Configuration
XX	5/2 Only	(For the port connections table, please refer to page 14) Configuration
00	Spring Return	
P1 P6 P16	Air Pilot (Standard) Air Pilot (Low Pressure) Air Pilot (Equalizer)	Secondary Operator
V AL	Viton (Standard) (-20°C to +120°C) Fluorosilicone (-60°C to +100°C)	O-ring Material
NO LETTER K6	NPT Ports BSPP Ports	Option

SPR-16-I2 - P1 - 52 - XX - 00 - V - K6

Ordering Example

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PPV-32 3/2

For the dimensional drawings of the PPV valves, please see page 32 & 33.

**Bifold**®

PPV-32 Selection Chart - Ordering Example

PPV-32 2" Pneumatic Pilot Valve		Model Code
24	1 1/2" NPT (Stainless Steel)	Ports
A24	1 1/2" NPT (Aluminium)	
32	2" NPT (Stainless Steel)	
A32	2" NPT (Aluminium)	
PI	Air Pilot (Standard)	Primary Operator
22	2 Way 2 Position	Configuration
32	3 Way 2 Position	
NC	Normally Closed (For the port connections table, please refer to page 14)	Configuration
00	Spring Return	Secondary Operator
V AL	Viton (Standard) (-25°C to +170°C) Fluorosilicone (-60°C to +160°C)	O-ring Material
E EE EEE	Single Exhaust Double Exhaust Triple Exhaust (Exhaust is only applicable with a 3/2 valve configuration)	Exhaust Options
K54	Block After Bleed (BAB)	Configuration

PPV-32-24 - PI - 32 - NC - 00 - V - E - K54

Ordering Example

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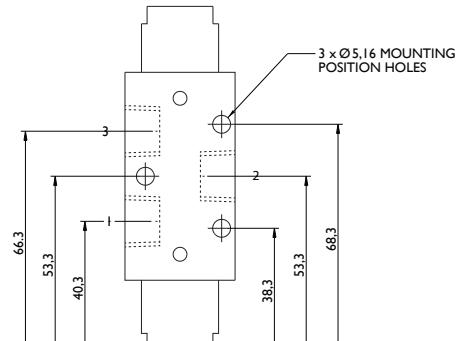
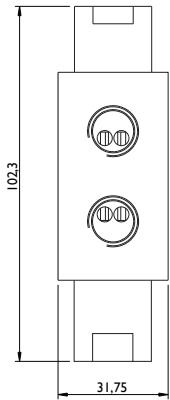
23

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Dimensional Drawings



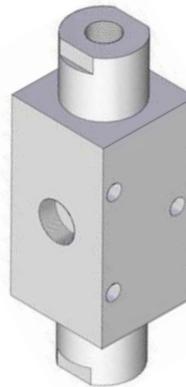
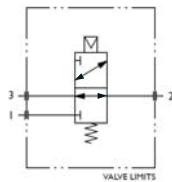
Example Code - BXS-04-04-PI-32-NU-00-V



APPROXIMATE WEIGHT:
STAINLESS STEEL - 0.5kg
ALUMINIUM - 0.2kg

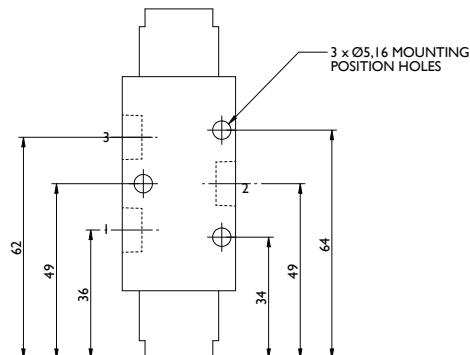
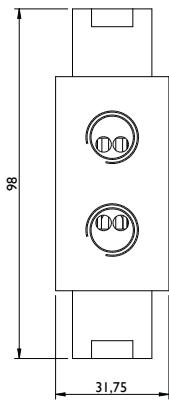
All dimensions in mm

SCHEMATIC 3/2 NU



BXS
Pilot Valve

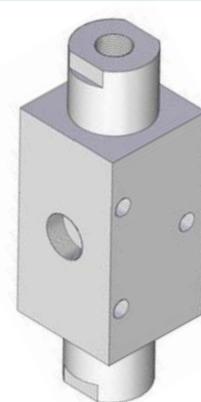
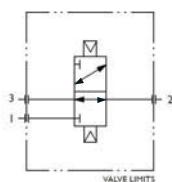
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APPROXIMATE WEIGHT:
STAINLESS STEEL - 0.5kg
ALUMINIUM - 0.2kg

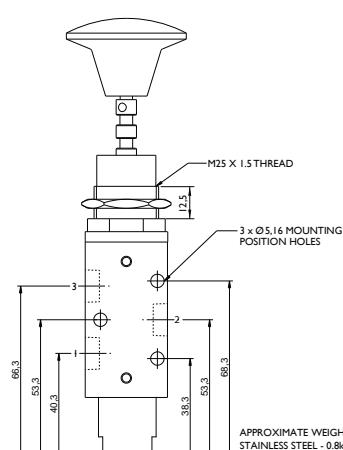
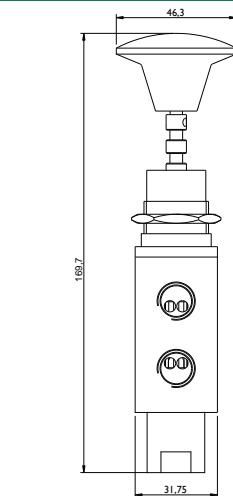
All dimensions in mm

SCHEMATIC 3/2 NU



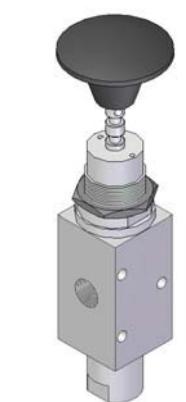
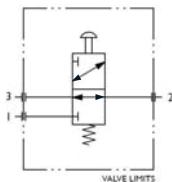
BXS
Pilot Valve

Example Code - BXS-04-04-MI-32-NU-00-V



All dimensions in mm

SCHEMATIC 3/2 NU

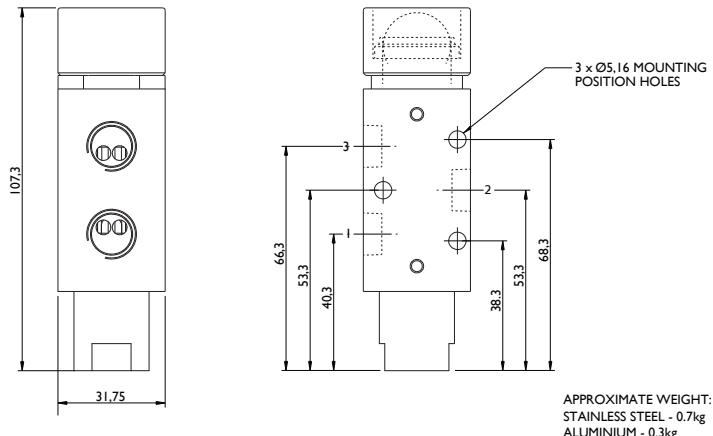


BXS
Mechanical Valve

Dimensional Drawings

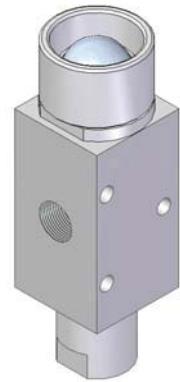
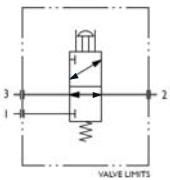


Example Code - BXS-04-04-M2-32-NU-00-V

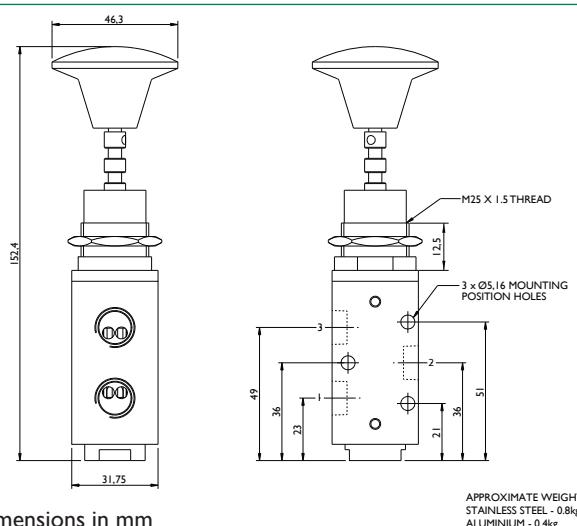


All dimensions in mm

SCHEMATIC 3/2 NU

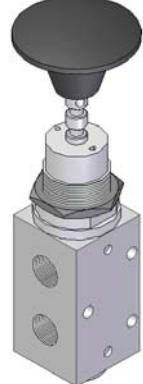
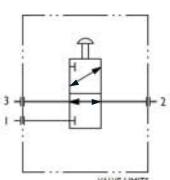
BXS
Mechanical Valve

Example Code - BXS-04-04-M3-32-NU-04-V

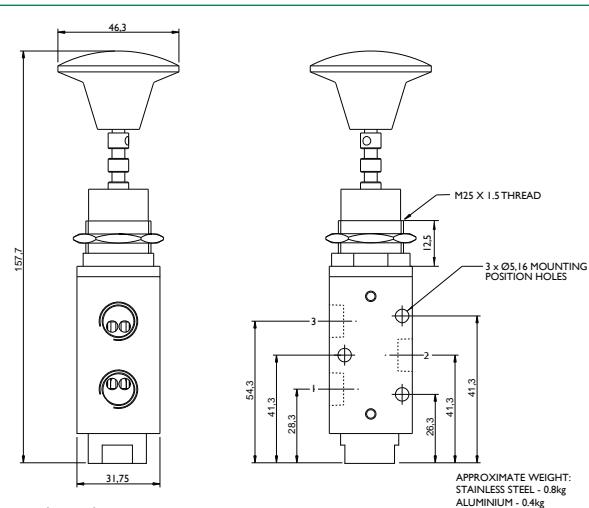


All dimensions in mm

SCHEMATIC 3/2 NU

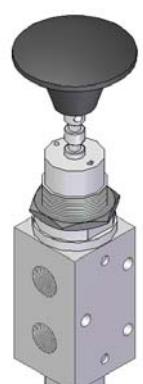
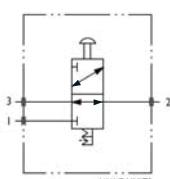
BXS
Mechanical Valve

Example Code - BXS-04-04-M3-32-NU-05-V-K54



All dimensions in mm

SCHEMATIC 3/2 NU

BXS
Mechanical Valve

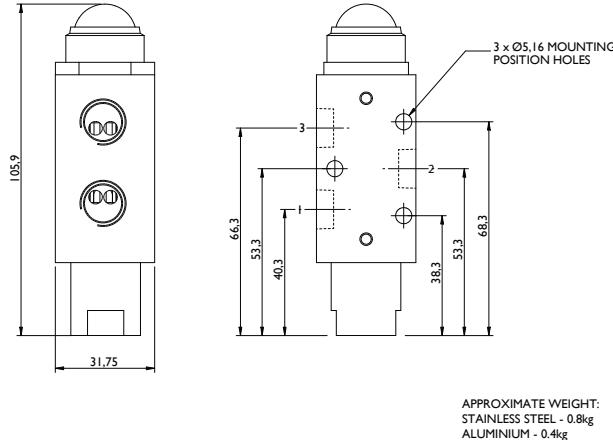
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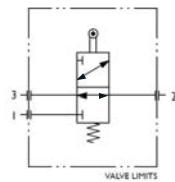
Dimensional Drawings

Example Code - BXS-04-04-M13-32-NU-00-V



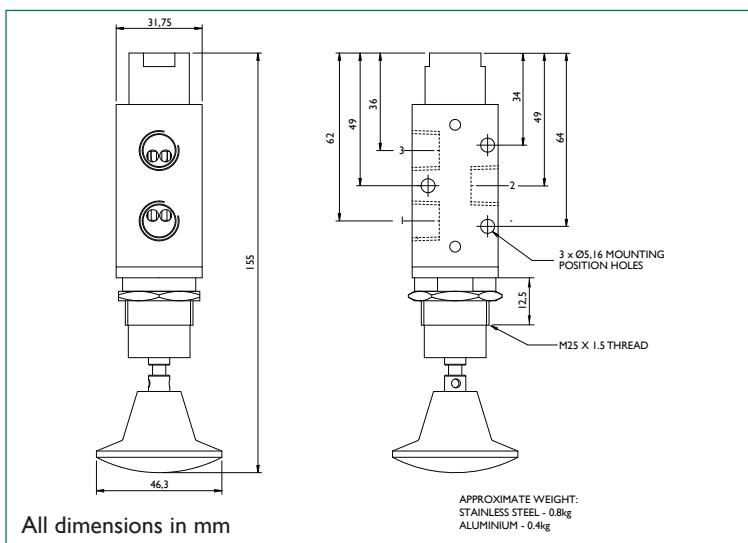
All dimensions in mm

SCHEMATIC 3/2 NU



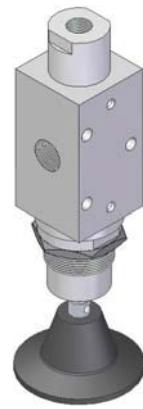
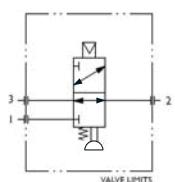
BXS
Mechanical Valve

Example Code - BXS-04-04-P1-32-NU-M15-V-K54



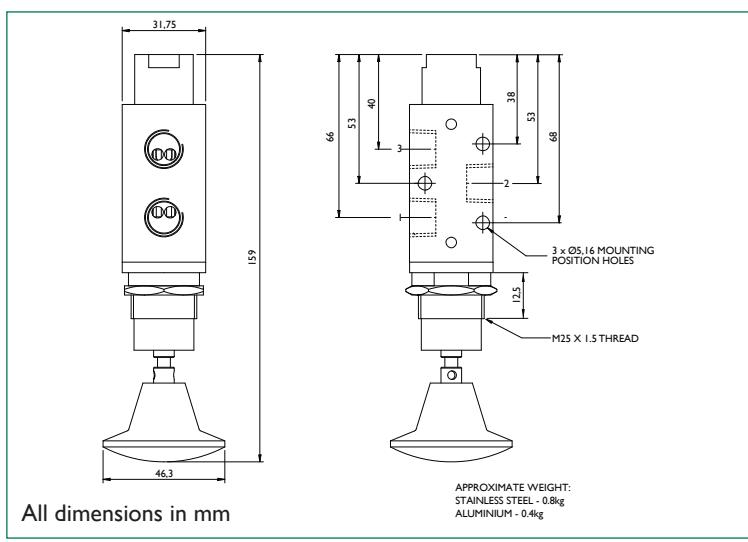
All dimensions in mm

SCHEMATIC 3/2 NU



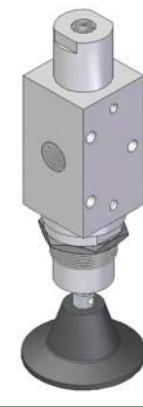
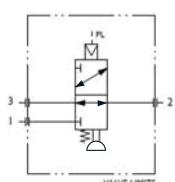
BXS
Reset Valve

Example Code - BXS-04-04-P9-32-NU-M15-V-K54



All dimensions in mm

SCHEMATIC 3/2 NU



BXS
Reset Valve

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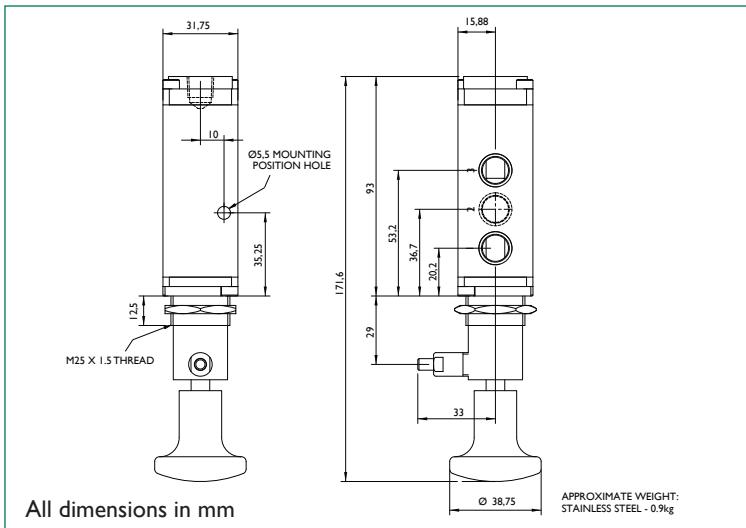
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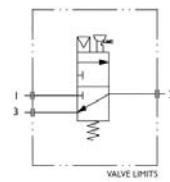
Dimensional Drawing



Example Code - SJJE06-P9-32-NC-M16-K54



SCHEMATIC 3/2 NC

SJJE06
Reset Valve

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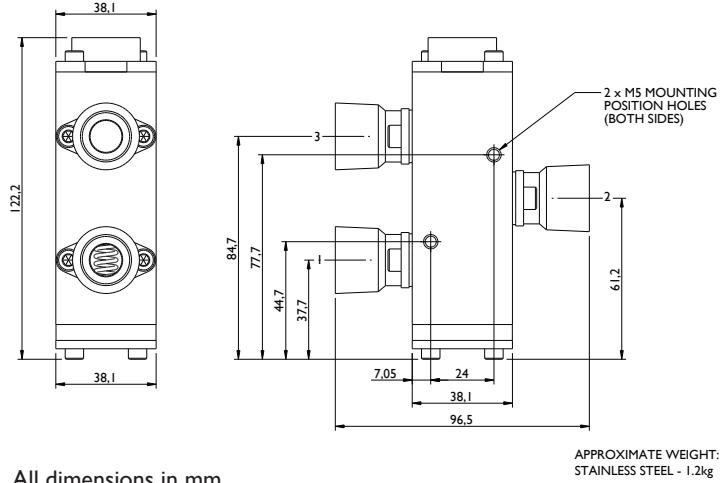
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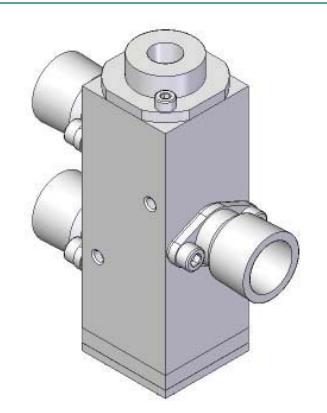
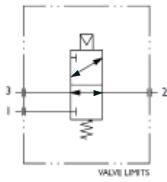
Dimensional Drawings



Example Code - SPR-08-08-PI-32-NU-00-V

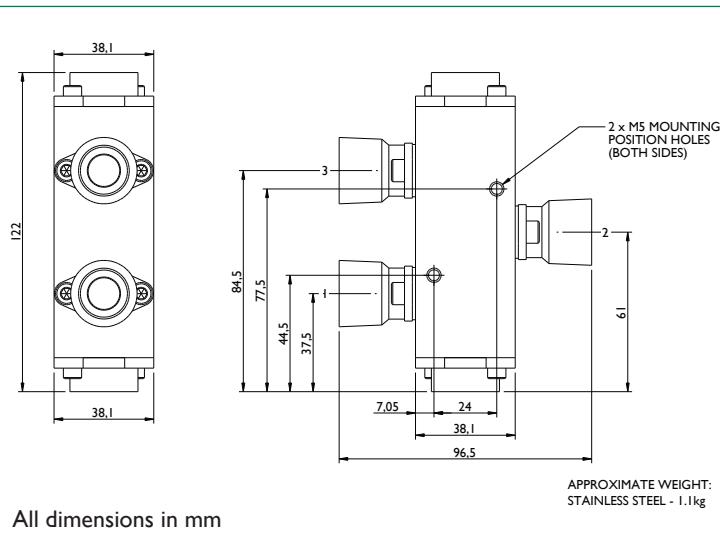


SCHEMATIC 3/2 NU

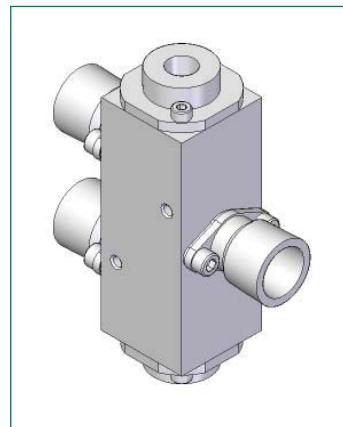
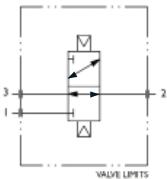


SPR
High Flow Pilot Valve

Example Code - SPR-08-08-PI-32-NU-PI-V

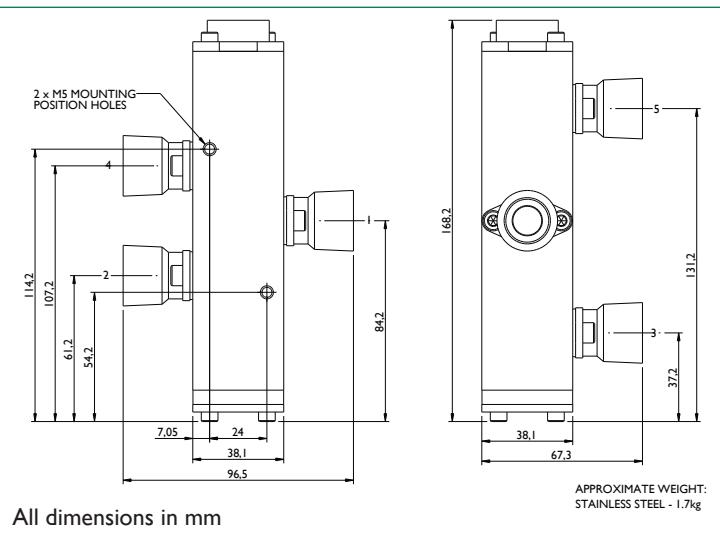


SCHEMATIC 3/2 NU

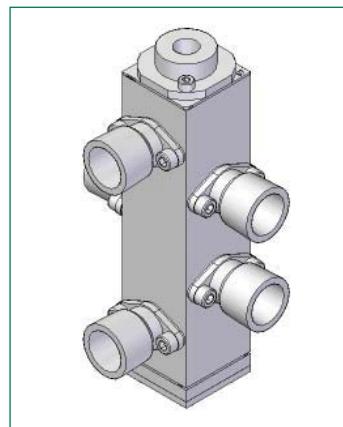
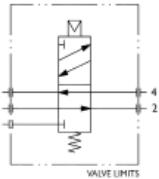


SPR
High Flow Pilot Valve

Example Code - SPR-08-08-PI-52-XX-00-V



SCHEMATIC 5/2



SPR
High Flow Pilot Valve

Accuracy of information
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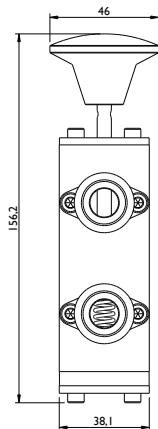
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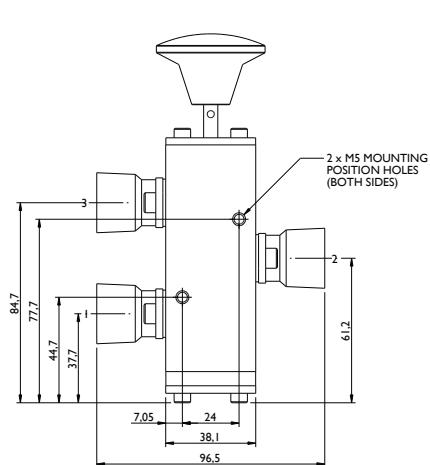
Dimensional Drawings



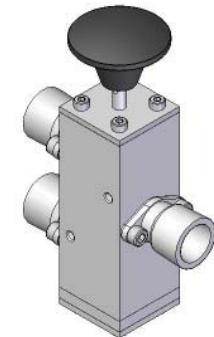
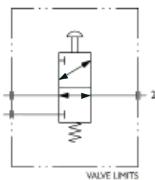
Example Code - SPR-08-08-M1-32-NU-00-V



All dimensions in mm

APPROXIMATE WEIGHT:
STAINLESS STEEL - 1.3kg

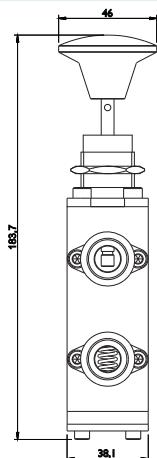
SCHEMATIC 3/2 NU



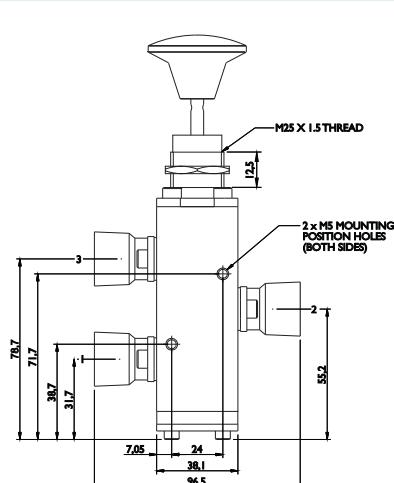
SPR

High Flow Mechanical Valve

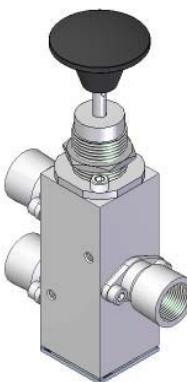
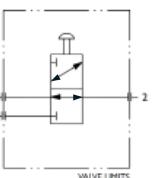
Example Code - SPR-08-08-M3-32-NU-04-V



All dimensions in mm

APPROXIMATE WEIGHT:
STAINLESS STEEL - 1.5kg

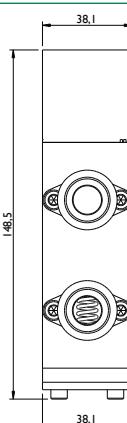
SCHEMATIC 3/2 NU



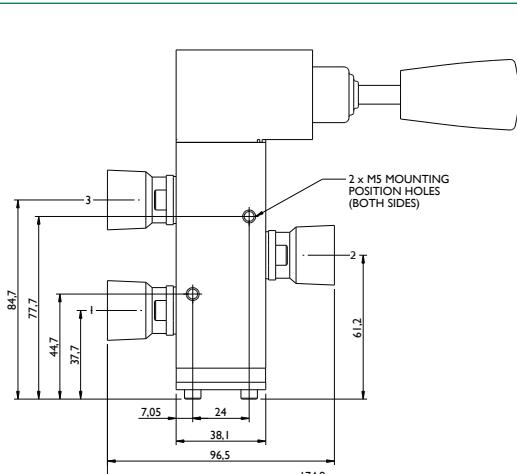
SPR

High Flow Mechanical Valve

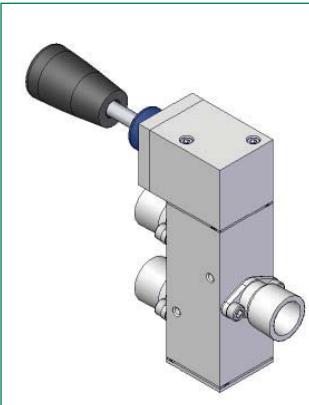
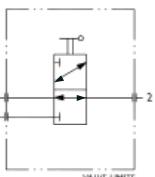
Example Code - SPR-08-08-M6-32-NU-04-V



All dimensions in mm

APPROXIMATE WEIGHT:
STAINLESS STEEL - 1.9kg

SCHEMATIC 3/2 NU



SPR

High Flow Mechanical Valve

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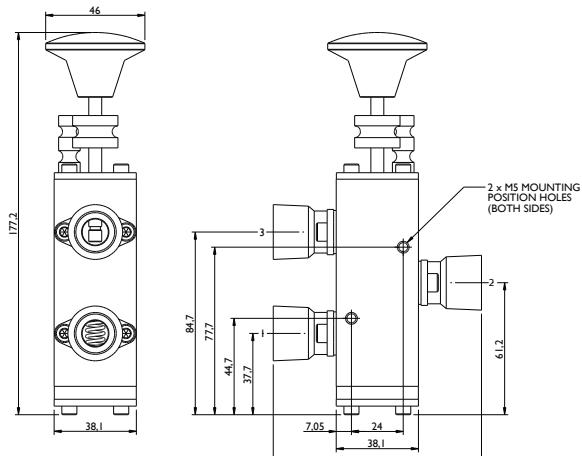
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Dimensional Drawings

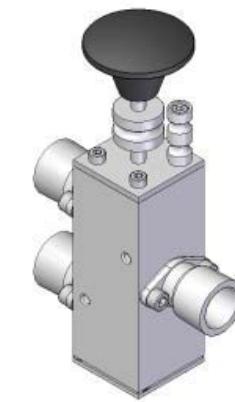
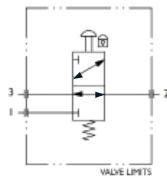


Example Code - SPR-08-08-M9/1-32-NU-00-V



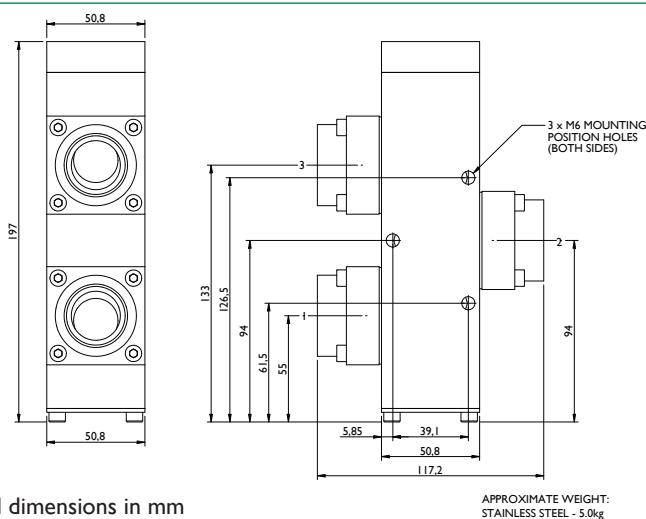
All dimensions in mm

SCHEMATIC 3/2 NU



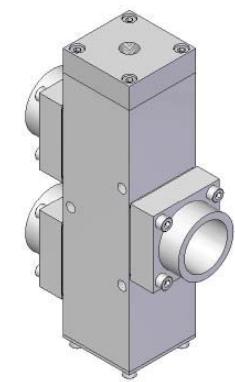
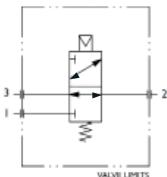
SPR
High Flow Pilot Valve

Example Code - SPR-16-16-PI-32-NU-00-V



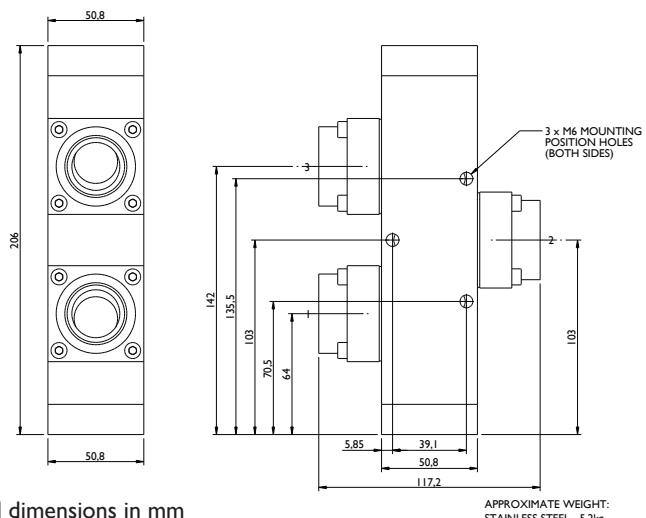
All dimensions in mm

SCHEMATIC 3/2 NU



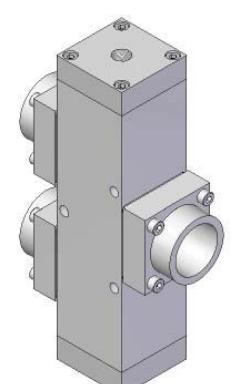
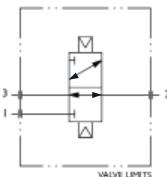
SPR
High Flow Pilot Valve

Example Code - SPR-16-16-PI-32-NU-PI-V



All dimensions in mm

SCHEMATIC 3/2 NU

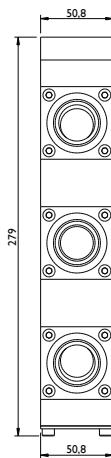


SPR
High Flow Pilot Valve

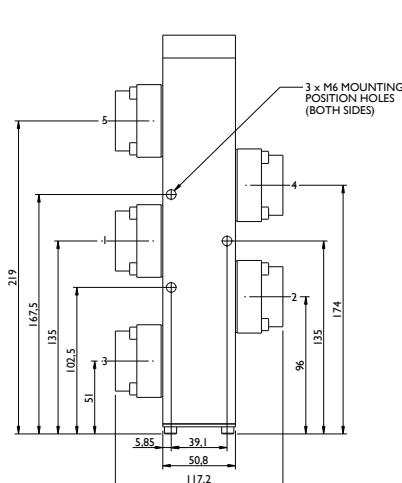
Dimensional Drawings

Bifold®

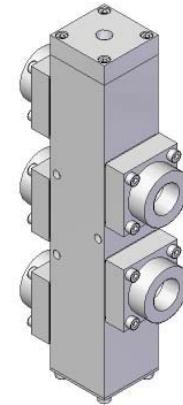
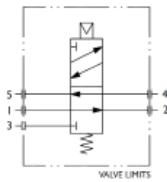
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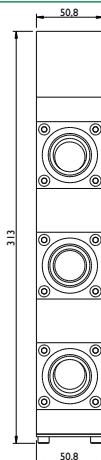
All dimensions in mm

APPROXIMATE WEIGHT:
STAINLESS STEEL - 7.3kg

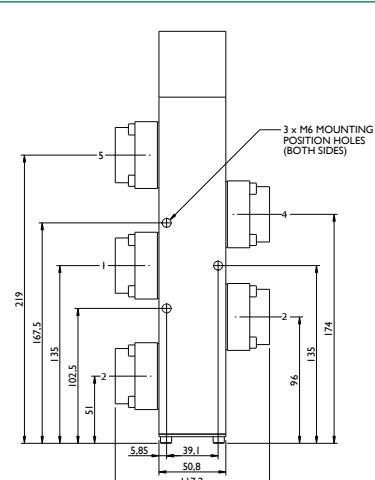
SCHEMATIC 5/2

**FP06P**
Auto Reset

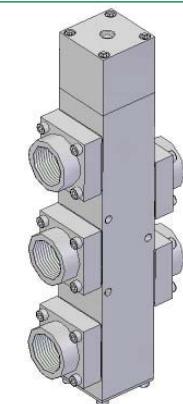
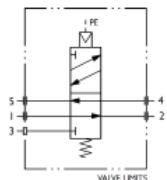
Example Code - SPR-16-16-P16-52-XX-00-V



All dimensions in mm

APPROXIMATE WEIGHT:
STAINLESS STEEL - 7.9kg

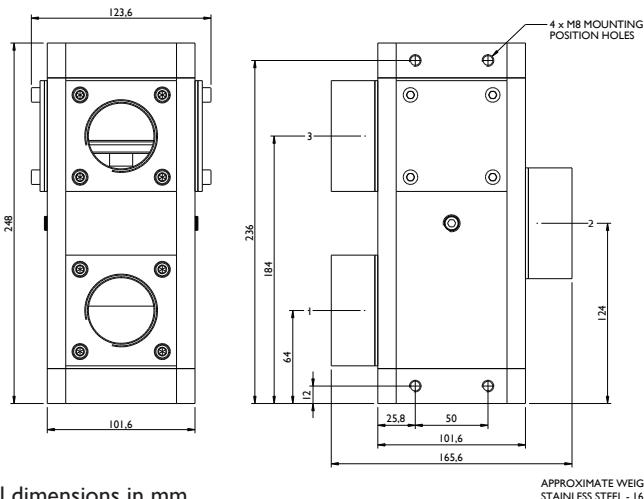
SCHEMATIC 5/2

**SPR**
High Flow Pilot Valve

Dimensional Drawings

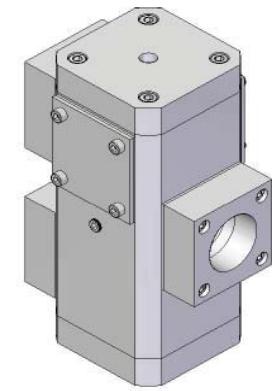
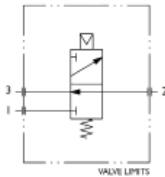


Example Code - PPV-32-24-PI-32-NC-00-V-E-K54



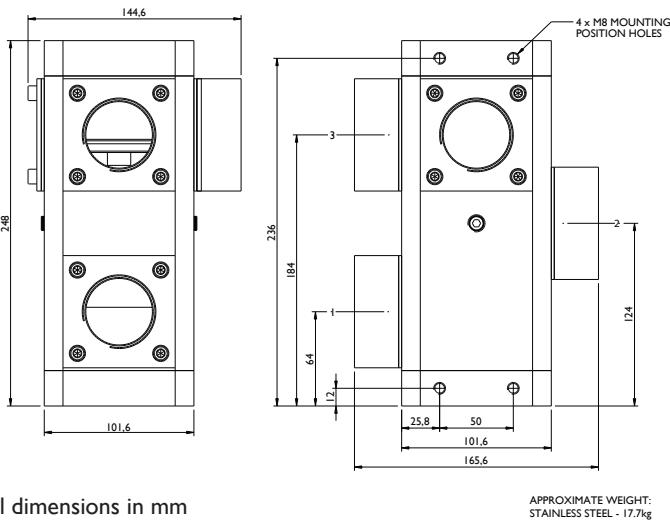
All dimensions in mm

SCHEMATIC 3/2 NC



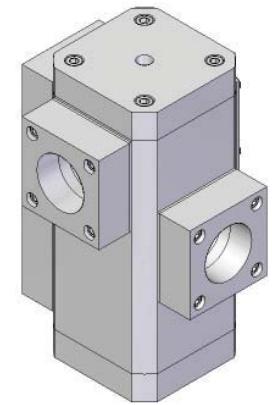
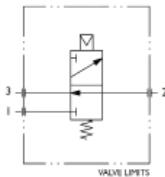
FP06P
Auto Reset

Example Code - PPV-32-24-PI-32-NC-00-V-EE-K54



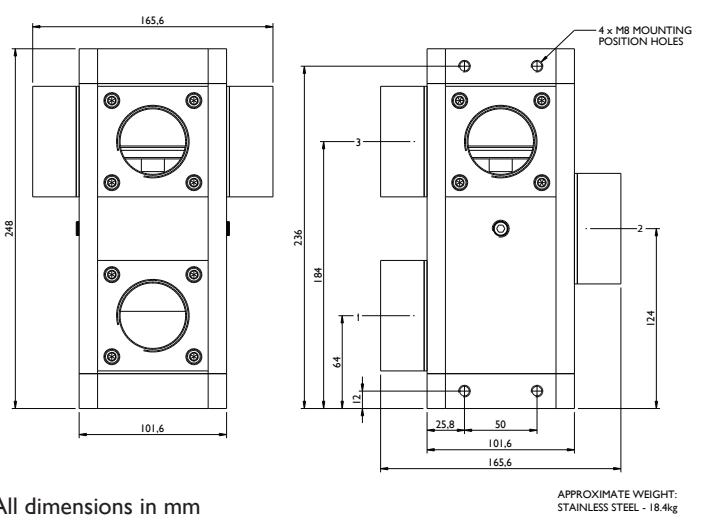
All dimensions in mm

SCHEMATIC 3/2 NC



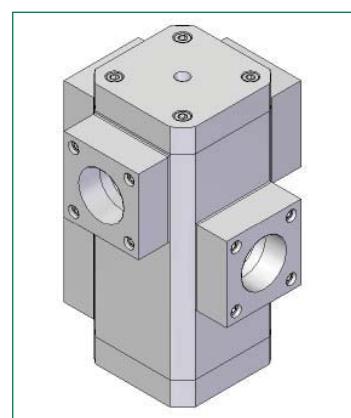
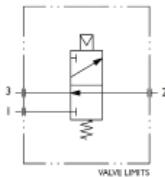
FP06P
Auto Reset

Example Code - PPV-32-24-PI-32-NC-00-V-EEE-K54



All dimensions in mm

SCHEMATIC 3/2 NC

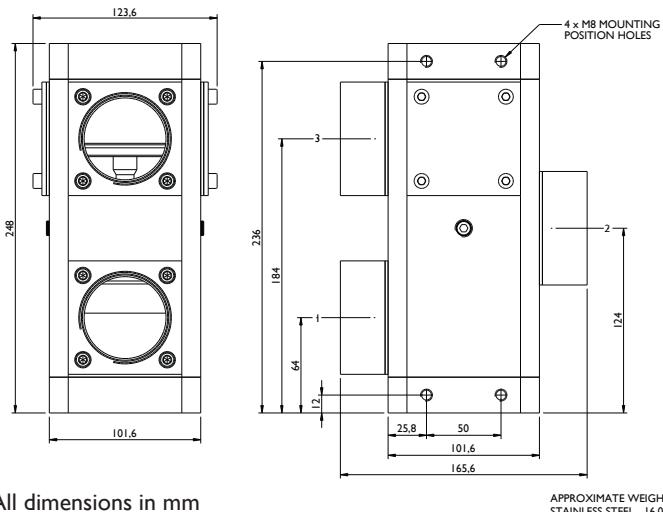


FP06P
Auto Reset

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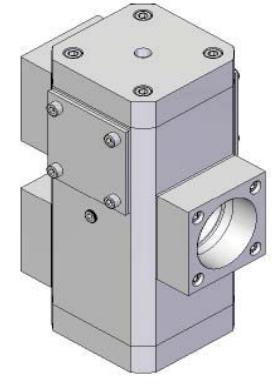
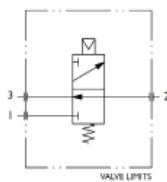


Example Code - PPV-32-32-PI-32-NC-00-V-E-K54

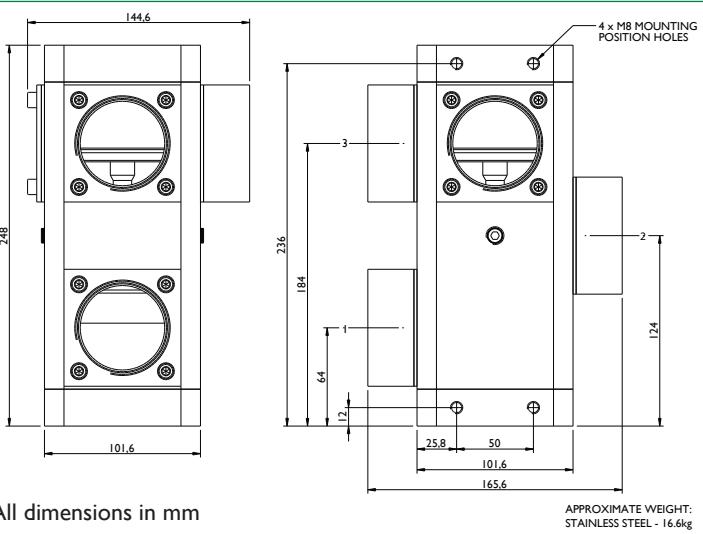


All dimensions in mm

SCHEMATIC 3/2 NC

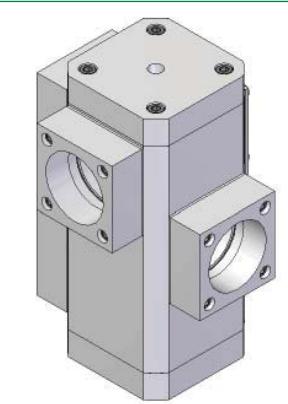
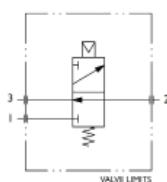
FP06P
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Example Code - PPV-32-32-PI-32-NC-00-V-EE-K54

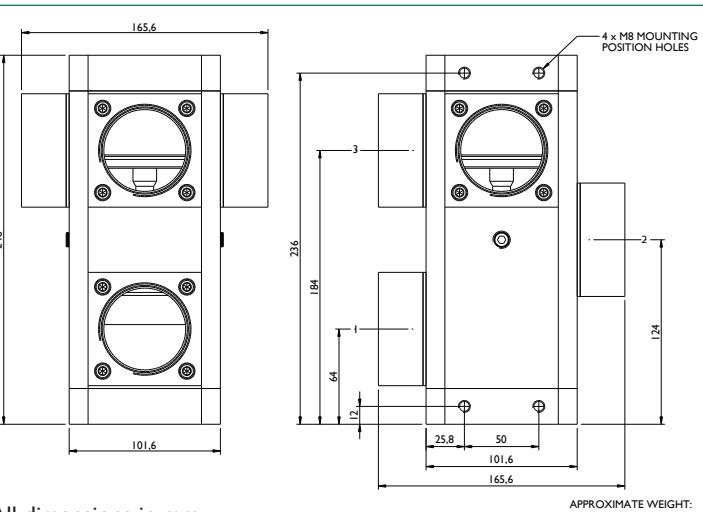


All dimensions in mm

SCHEMATIC 3/2 NC

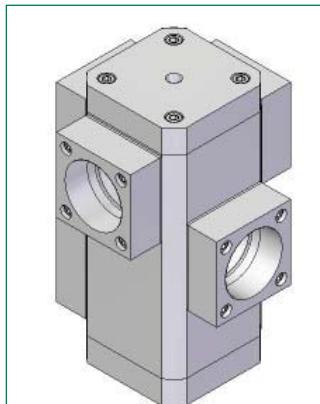
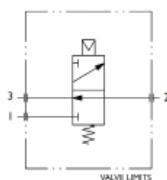
FP06P
Auto Reset

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All dimensions in mm

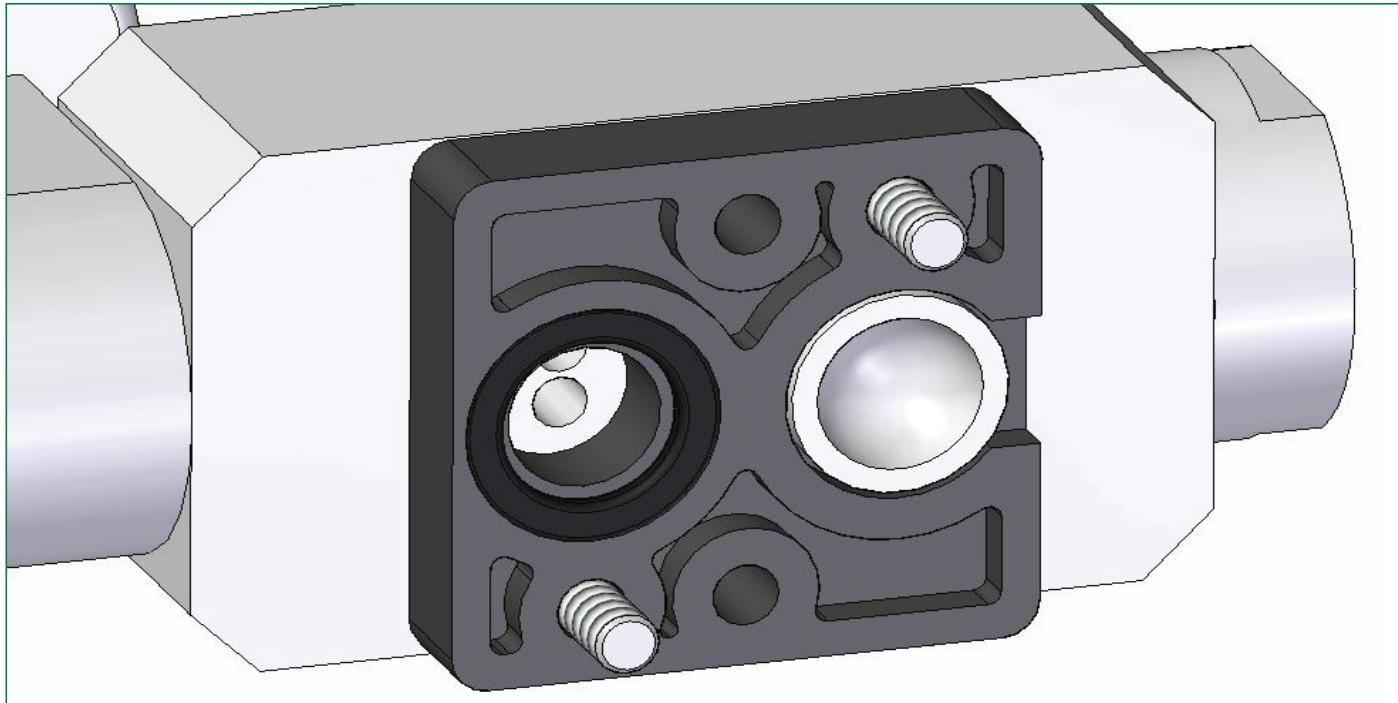
SCHEMATIC 3/2 NC

FP06P
Auto Reset

Block Options

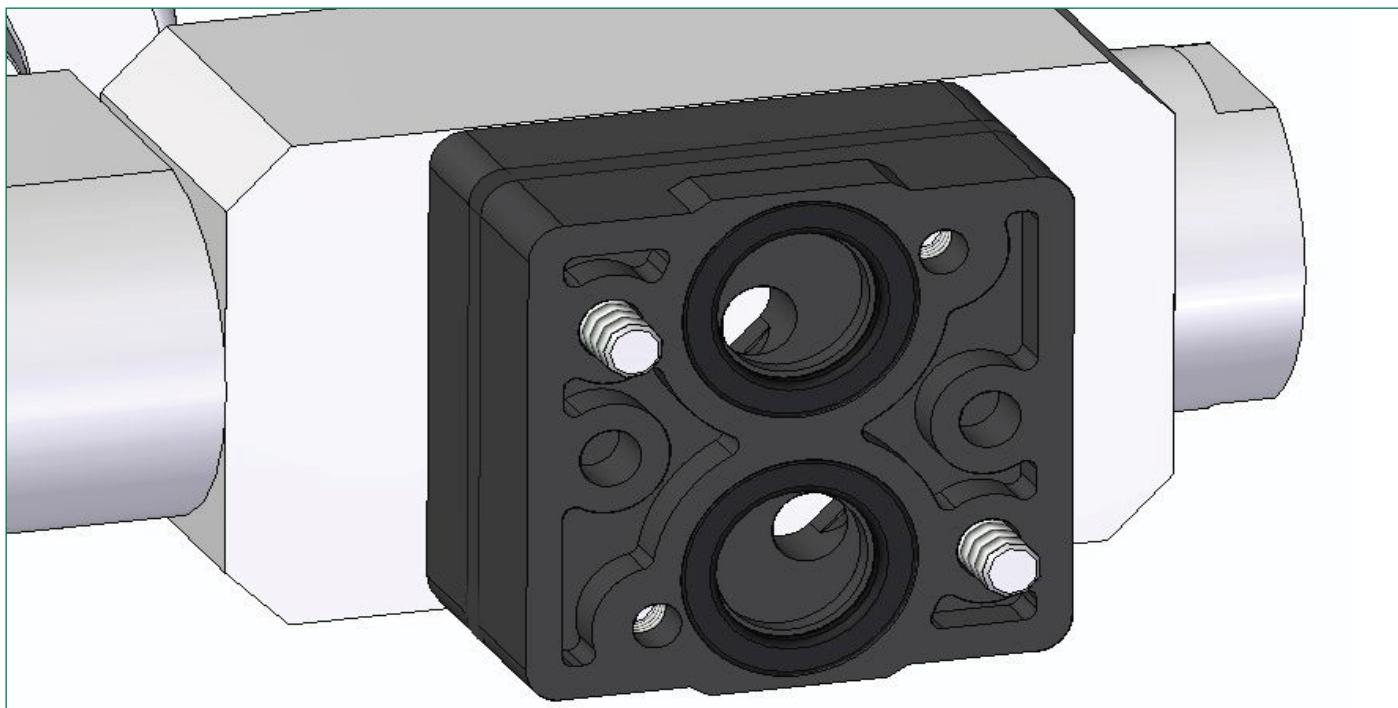


Supplied as Standard for use with: **BXS-04-N4.., & BXS-04-AN4..Valves**



Mounting Configuration:

3 Way 2 Position



Mounting Configuration with Filter Regulator Module:

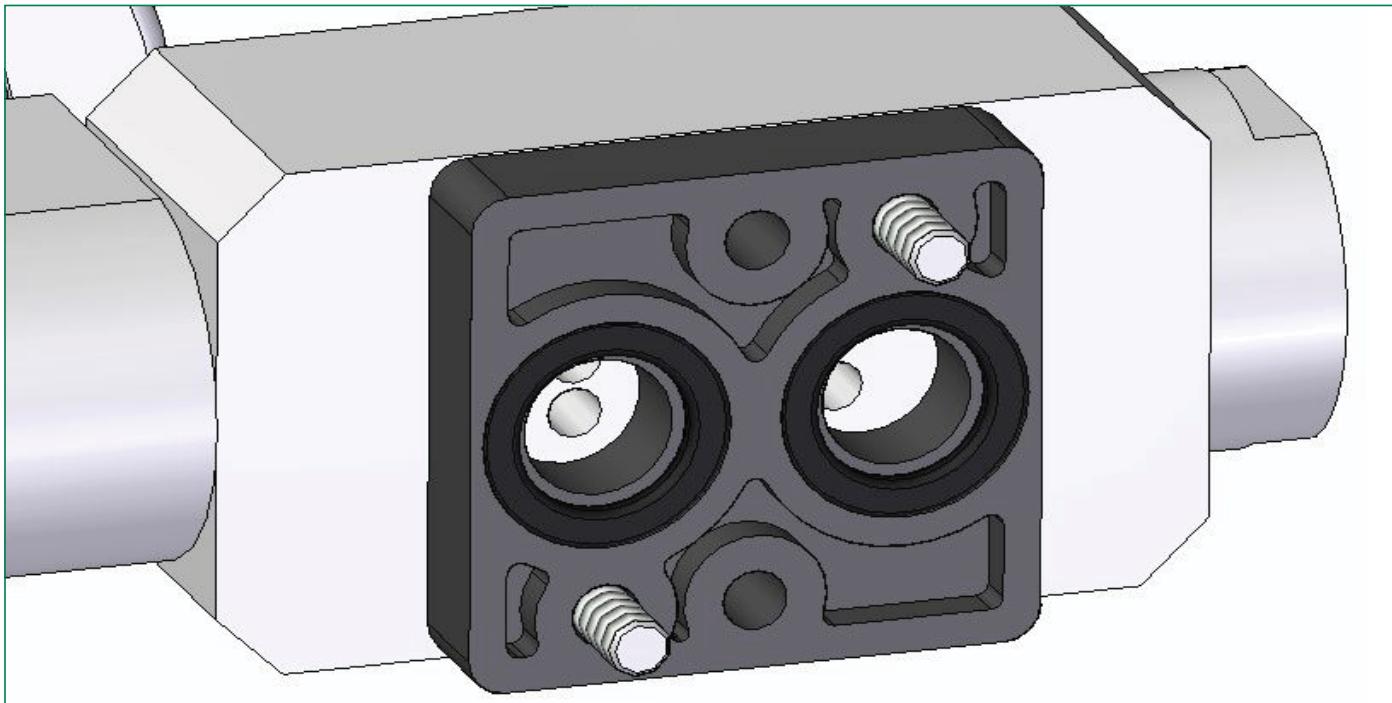
3 Way 2 Position with 90° rotation

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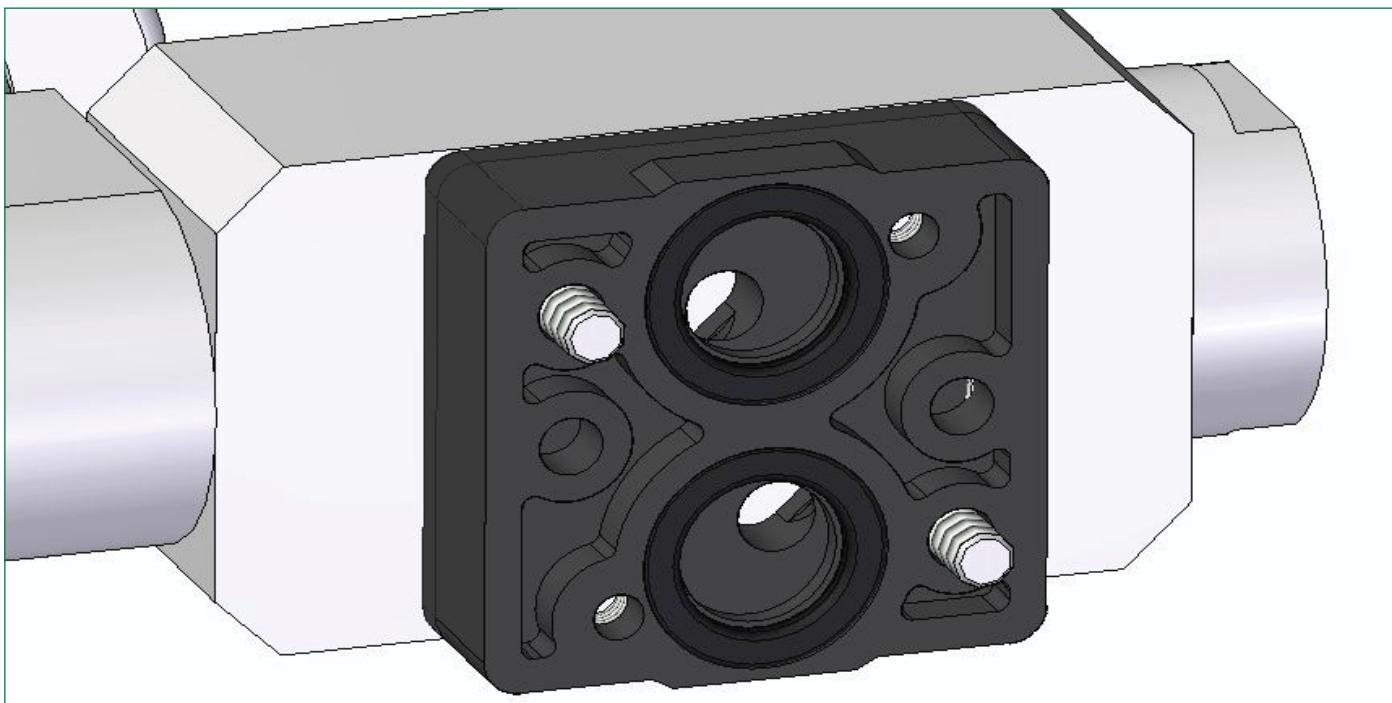
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Block Options

Mounting Configuration:

5 Way 2 Position & 5 Way 3 Position & 5 Way 3 Position



Mounting Configuration with Filter Regulator Module:

5 Way 2 Position with 90° rotation, 5 Way 3 Position with 90° rotation

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Instrument, Process, Directional Control Valves, Pumps and Actuator Electronic Control and Positioning

Bifold® Group

Pneumatic and Instrumentation Valves

Hydraulic Valves

Subsea Valves

Hydraulic Pumps, Intensifiers and Valves

Actuator Electronic Control and Positioning

Bifold®

Bifold FluidPower®

Bifold Subsea

Bifold Marshalsea

Bifold Orange™

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Bifold, Bifold Fluidpower, Bifold Subsea, Marshalsea Hydraulics and Bifold Orange are all members of the Bifold Group.

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Fax: +44 (0) 1823 323382
Email: info@marshalsea.co.uk
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Email: marketing@bifold.co.uk
Web: bifold.co.uk

Innovative and Reliable Valve Solutions



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