


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)



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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.



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.

Accuracy of information

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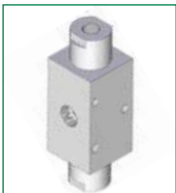
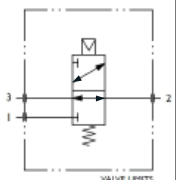
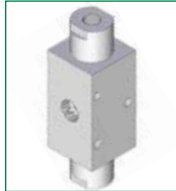
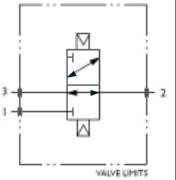
When selecting a product, the applicable operating system design must be considered to ensure safe use. The products function, material compatibility, adequate ratings, correct installation, operation and maintenance are the responsibilities of the system designer and user.

Quality Assurance


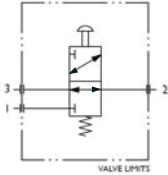

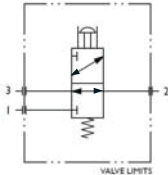

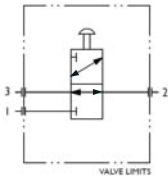

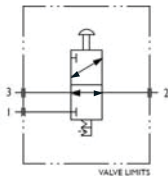

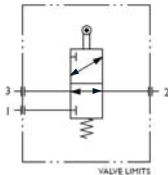
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Preferred Range



BXS PILOT VALVES - PREFERRED RANGE				
Product	Schematic Representation	Page Number	Product Code	Product Description
 <p>BXS Pilot Valve</p>	<p>SCHEMATIC 3/2 NU</p> 	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>
 <p>BXS Pilot Valve</p>	<p>SCHEMATIC 3/2 NU</p> 	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>

BXS MECHANICAL VALVES - PREFERRED RANGE

Product	Schematic Representation	Page Number	Product Code	Product Description
 <p>BXS Mechanical Valve</p>	<p>SCHEMATIC 3/2 NU</p> 	15	BXS-04-04-M1-32-NU-00-V	<p>1/4" NPT Ports, 3 Way 2 Position, Push Button, Normally Universal, Spring Return.</p> <p>Cv 0.73, 174 psi / 12 bar.</p>
 <p>BXS Mechanical Valve</p>	<p>SCHEMATIC 3/2 NU</p> 	15	BXS-04-04-M2-32-NU-00-V	<p>1/4" NPT Ports, 3 Way 2 Position, Shrouded Button, Normally Universal, Spring Return.</p> <p>Cv 0.73, 174 psi / 12 bar.</p>
 <p>BXS Mechanical Valve</p>	<p>SCHEMATIC 3/2 NU</p> 	15	BXS-04-04-M3-32-NU-04-V	<p>1/4" NPT Ports, 3 Way 2 Position, Push / Pull Operated, Normally Universal (Bi-stable).</p> <p>Cv 0.73, 174 psi / 12 bar.</p>
 <p>BXS Mechanical Valve</p>	<p>SCHEMATIC 3/2 NU</p> 	15	BXS-04-04-M3-32-NU-05-V	<p>1/4" NPT Ports, 3 Way 2 Position, Push / Pull Button, Normally Universal, Detented.</p> <p>Cv 0.73, 174 psi / 12 bar.</p>
 <p>BXS Mechanical Valve</p>	<p>SCHEMATIC 3/2 NU</p> 	15	BXS-04-04-M13-32-NU-00-V	<p>1/4" NPT Ports, 3 Way 2 Position, Cam Operated, Normally Universal, Spring Return.</p> <p>Cv 0.73, 174 psi / 12 bar.</p>


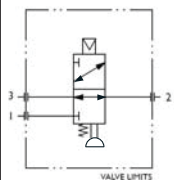

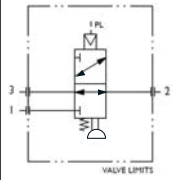
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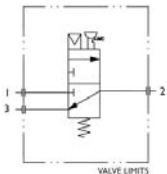

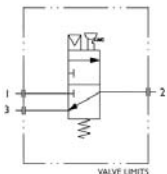

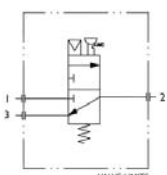

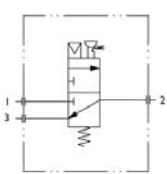
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Preferred Range



BXS RESET VALVES - PREFERRED RANGE				
Product	Schematic Representation	Page Number	Product Code	Product Description
 <p>BXS Reset Valve</p>	<p>SCHEMATIC 3/2 NU</p>  <p>VALVE LIMITS</p>	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>
 <p>BXS Reset Valve</p>	<p>SCHEMATIC 3/2 NU</p>  <p>VALVE LIMITS</p>	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>

SJJE06 & HSJJE06 RESET VALVES - PREFERRED RANGE

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

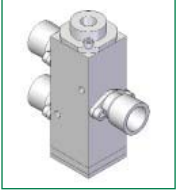
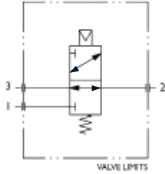
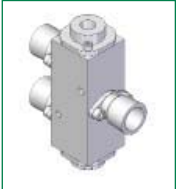
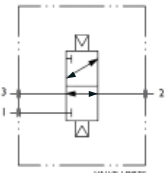
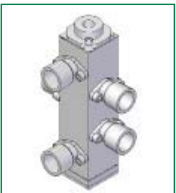
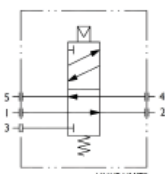
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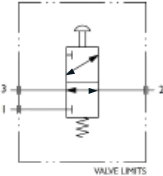

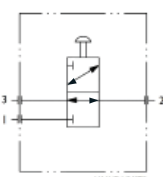

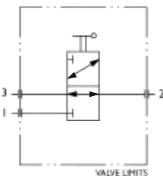
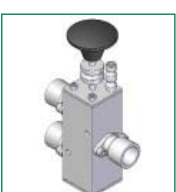
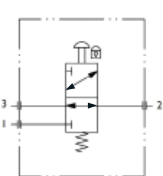
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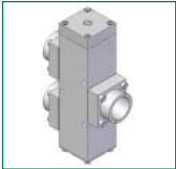
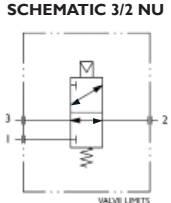
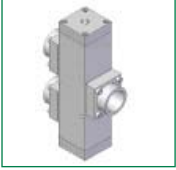
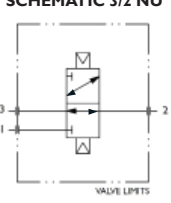
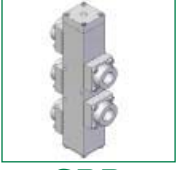
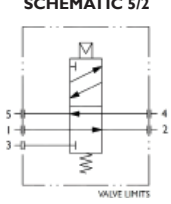
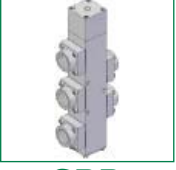
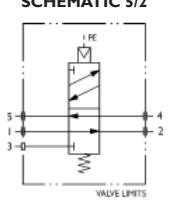
SPR HIGH FLOW PILOT VALVES - PREFERRED RANGE				
Product	Schematic Representation	Page Number	Product Code	Product Description
 <p>SPR High Flow Pilot Valve</p>	<p>SCHEMATIC 3/2 NU</p> 	19	SPR-08-08-PI-32-NU-00-V	<p>1/2" NPT Ports, 3 Way 2 Position, Pilot Operated, Normally Universal, Spring Return.</p> <p>Cv 3.9, 145 psi / 10 bar.</p>
 <p>SPR High Flow Pilot Valve</p>	<p>SCHEMATIC 3/2 NU</p> 	19	SPR-08-08-PI-32-NU-PI-V	<p>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>
 <p>SPR High Flow Pilot Valve</p>	<p>SCHEMATIC 5/2</p> 	20	SPR-08-08-PI-52-XX-00-V	<p>1/2" NPT Ports, 5 Way 2 Position, Pilot Operated, Spring Return.</p> <p>Cv 3.9, 145 psi / 10 bar.</p>

SPR HIGH FLOW MECHANICAL VALVES - PREFERRED RANGE

Product	Schematic Representation	Page Number	Product Code	Product Description
 <p>SPR High Flow Mechanical Valve</p>	<p>SCHEMATIC 3/2 NU</p> 	19	SPR-08-08-M1-32-NU-00-V	<p>½" NPT Ports, 3 Way 2 Position, Push Button, Normally Universal, Spring Return.</p> <p>Cv 3.9, 145 psi / 10 bar.</p>
 <p>SPR High Flow Mechanical Valve</p>	<p>SCHEMATIC 3/2 NU</p> 	19	SPR-08-08-M3-32-NU-04-V	<p>½" NPT Ports, 3 Way 2 Position, Push/Pull Operated, Normally Universal (Bi-stable).</p> <p>Cv 3.9, 145 psi / 10 bar.</p>
 <p>SPR High Flow Mechanical Valve</p>	<p>SCHEMATIC 3/2 NU</p> 	19	SPR-08-08-M6-32-NU-04-V	<p>½" NPT Ports, 3 Way 2 Position, Lever Operated, Normally Universal (Bi-stable).</p> <p>Cv 3.9, 145 psi / 10 bar.</p>
 <p>SPR High Flow Mechanical Valve</p>	<p>SCHEMATIC 3/2 NU</p> 	19	SPR-08-08-M9/I-32-NU-00-V	<p>½" NPT Ports, 3 Way 2 Position, Padlockable Push Button, Normally Universal, Spring Return.</p> <p>Cv 3.9, 145 psi / 10 bar.</p>

Preferred Range


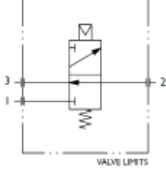

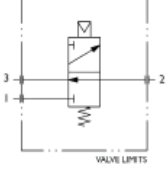
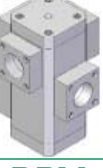
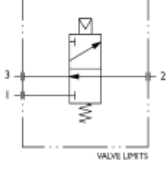

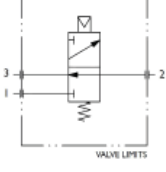

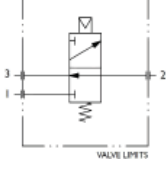
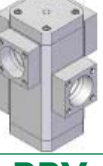
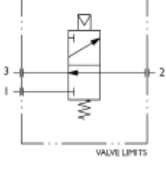


SPR HIGH FLOW PILOT VALVES - PREFERRED RANGE				
Product	Schematic Representation	Page Number	Product Code	Product Description
 <p>SPR High Flow Pilot Valve</p>	<p>SCHEMATIC 3/2 NU</p> 	21	SPR-16-16-PI-32-NU-00-V	<p>1" NPT Ports, 3 Way 2 Position, Pilot Operated, Normally Universal, Spring Return.</p>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

Preferred Range



PPV HIGH FLOW PILOT VALVES - PREFERRED RANGE

Product	Schematic Representation	Page Number	Product Code	Product Description
 <p>PPV High Flow Pilot Valve</p>	<p>SCHEMATIC 3/2 NC</p> 	23	PPV-32-24-PI-32-NC-00-V-E-K54	<p>1 1/2" NPT Ports, 3 Way 2 Position, Pilot Operated, Normally Closed, Spring Return, Single Exhaust.</p> <p>Cv 37.0, 145 psi / 10 bar. Cv 37.0, 145 psi / 10 bar (Exhaust).</p>
 <p>PPV High Flow Pilot Valve</p>	<p>SCHEMATIC 3/2 NC</p> 	23	PPV-32-24-PI-32-NC-00-V-EE-K54	<p>1 1/2" NPT Ports, 3 Way 2 Position, Pilot Operated, Normally Closed, Spring Return, Double Exhaust.</p> <p>Cv 37.0, 145 psi / 10 bar. Cv 50.0, 145 psi / 10 bar (Exhaust).</p>
 <p>PPV High Flow Pilot Valve</p>	<p>SCHEMATIC 3/2 NC</p> 	23	PPV-32-24-PI-32-NC-00-V-EEE-K54	<p>1 1/2" NPT Ports, 3 Way 2 Position, Pilot Operated, Normally Closed, Spring Return, Triple Exhaust.</p> <p>Cv 37.0, 145 psi / 10 bar. Cv 58.0, 145 psi / 10 bar (Exhaust).</p>
 <p>PPV High Flow Pilot Valve</p>	<p>SCHEMATIC 3/2 NC</p> 	23	PPV-32-32-PI-32-NC-00-V-E-K54	<p>2" NPT Ports, 3 Way 2 Position, Pilot Operated, Normally Closed, Spring Return, Single Exhaust.</p> <p>Cv 61.6, 145 psi / 10 bar. Cv 61.6, 145 psi / 10 bar (Exhaust).</p>
 <p>PPV High Flow Pilot Valve</p>	<p>SCHEMATIC 3/2 NC</p> 	23	PPV-32-32-PI-32-NC-00-V-EE-K54	<p>2" NPT Ports, 3 Way 2 Position, Pilot Operated, Normally Closed, Spring Return, Double Exhaust.</p> <p>Cv 61.6, 145 psi / 10 bar. Cv 94.6, 145 psi / 10 bar (Exhaust).</p>
 <p>PPV High Flow Pilot Valve</p>	<p>SCHEMATIC 3/2 NC</p> 	23	PPV-32-32-PI-32-NC-00-V-EEE-K54	<p>2" NPT Ports, 3 Way 2 Position, Pilot Operated, Normally Closed, Spring Return, Triple Exhaust.</p> <p>Cv 61.6, 145 psi / 10 bar. Cv 103.0, 145 psi / 10 bar (Exhaust).</p>

Accuracy of information
We take care to ensure that product information in this catalogue is reasonably accurate and up-to-date. However, our products are continually developed and updated so to ensure accurate and up-to-date information please refer to the product catalogue issue list on our web site or contact a member of our sales team.

When selecting a product, the applicable operating system design must be considered to ensure safe use. The products function, material compatibility, adequate ratings, correct installation, operation and maintenance are the responsibilities of the system designer and user.

Quality Assurance
All Bifold products are manufactured to a most stringent QA programme to ensure that every product will give optimum performance and reliability. We are third party certified to BS EN ISO 9001:2008. Functional test certificate, letter of conformity and copies of original mill certificates, providing total traceability are available on request, to BS EN 10204 3.1 where available. We reserve the right to make changes to the specifications and design etc., without prior notice.

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.

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:	1 1/2" & 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.

Operating Pressure

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

Operating Media

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

For more information, please contact Bifold Sales Department.

Port Connections

Port Connections for 3/2 (BXS, (H)SJJE06 & SPR)

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

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

Port Connections for 3/2 (PPV)

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

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

Temperature Rating

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

Flow Performance

1 1/2"	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.

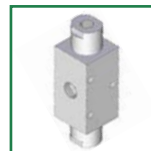
Port Connections for 5/2 & 5/3 (BXS), & 5/2 (SPR)

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

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

BXS-04 3/2

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



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)	Primary 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)	
P9	Air Latch Pilot Operator	
M1	Push Button	
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	2Way 2 Position (Only available in a NO & NC configuration)	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 Pneumatic	Secondary Operator
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)	
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.

BXS-04 5/2



BXS-04 Selection Chart - Ordering Example

BXS-04			1/4"	Model Code
04 A04	1/4" Body Ported (Stainless Steel)			Connections
	1/4" Body Ported (Aluminium)			
	P1	Air Pilot (Standard)		Primary 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)		
	P9	Air Latch Pilot Operator		
	M1	Push Button		
	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		Configuration	
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		Secondary Operator	
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)			
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 - 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.

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)	Primary 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)	
P9	Air Latch Pilot Operator	
M1	Push Button	
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	Configuration
XX	5/2 Only	(For the port connections table, please refer to page 14)
YY	5/3 All Ports Blocked	
ZZ	5/3 Valve Cylinder Ports Vented	Configuration
00	Spring Return Pneumatic	Secondary Operator
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)	
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	O-ring Material
SA	Nitrile (Low Temperature)	
AL	Fluorosilicone	
NO LETTER	NPT Ports	Option
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.

(H)SJJE06 3/2 Valve Range Selection Chart

(H)SJJE06 3/2

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



(H)SJJE06 Selection Chart - Ordering Example

SJJE06	Gaseous Service	Model Code
HSJJE06	Hydraulic Service	
PI	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 - PI - 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)

} Pull (Spring Return Panel Mount) + Latch

Operating Pressure

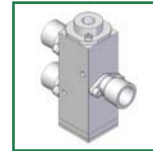
0 -145 psi / 10 bar Pneumatic Working Pressure.
0 -116 psi / 8 bar Hydraulic Working Pressure.

Temperature Rating

-20°C to +180°C (Standard Service).

SPR-08 3/2

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



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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) (For operating pressures, please refer to page 14) P9 Air Latch Pilot Operator P16 Air Pilot (Equalizer)		Primary Operator
M1 Push Button M3 Push / Pull Button M6 Lever M9 Push / Pull Button (M3) with Padlock M9/I Push Button (M1) with padlock		
22 2 Way 2 Position (Only available in a NO & NC configuration) 32 3 Way 2 Position		Configuration
NC Normally Closed (P9 option only) (For the port connections table, please refer to page 14) NU Normally Universal		Configuration
00 Spring Return 04 Blank (Bi-Stable) 04/2 Blank + Plunger (Bi-Stable) 05 Positive Detent P1 Air Pilot (Standard) P5 Pressure Sensing Pilot (For operating pressures, please refer to page 13) P6 Air Pilot (Low Pressure) P16 Air Pilot (Equalizer)		Secondary Operator
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)		
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

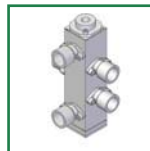
Ordering Example

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

SPR 5/2 Valve Range Selection Chart

SPR-08 5/2

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



Bifold®

SPR-08 Selection Chart - Ordering Example

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

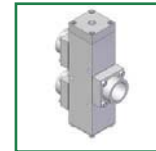
SPR-08-08 - P1 - 52 - XX - 00 - V - K6 - K28

Ordering Example

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

SPR-16 3/2

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



Bifold®

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)	(For operating pressures, please refer to page 14)	Primary Operator
P6	Air Pilot (Low Pressure)		
PI6	Air Pilot (Equalizer)		
32	3 Way 2 Position		Configuration
NU	Normally Universal (For the port connections table, please refer to page 14)		Configuration
00	Spring Return	(For operating pressures, please refer to page 13)	Secondary Operator
PI	Air Pilot (Standard)		
P6	Air Pilot (Low Pressure)		
PI6	Air Pilot (Equalizer)		
V	Viton (Standard) (-20°C to +120°C)		O-ring Material
AL	Fluorosilicone (-60°C to +100°C)		
NO LETTER	NPT Ports		Option
K6	BSPP Ports		

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

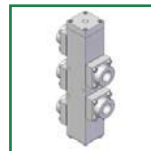
Ordering Example

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

SPR 5/2 Valve Range Selection Chart

SPR-16 5/2

For the dimensional drawings of the SPR valves, please see page 31.



Bifold®

SPR-16 Selection Chart - Ordering Example

SPR-16 1" Spool Valve			Model Code
12	3/4" Port Blocks (Stainless Steel)		Ports
A12	3/4" Body Ported (Aluminium)		
16	1" Port Blocks (Stainless Steel)		
A16	1" Body Ported (Aluminium)		
PI	Air Pilot (Standard)	(For operating pressures, please refer to page 14)	Primary Operator
P6	Air Pilot (Low Pressure)		
P16	Air Pilot (Equalizer)		
52	5 Way 2 Position		Configuration
XX	5/2 Only	(For the port connections table, please refer to page 14)	Configuration
00	Spring Return		Secondary Operator
PI	Air Pilot (Standard)		
P6	Air Pilot (Low Pressure)		
P16	Air Pilot (Equalizer)		
V	Viton (Standard)	(-20°C to +120°C)	O-ring Material
AL	Fluorosilicone	(-60°C to +100°C)	
NO LETTER	NPT Ports		Option
K6	BSPP Ports		

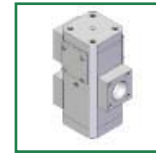
SPR-16-12 - PI - 52 - XX - 00 - V - K6

Ordering Example

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

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	Viton (Standard) (-25°C to +170°C)	O-ring Material	
AL	Fluorosilicone (-60°C to +160°C)		
E	Single Exhaust	Exhaust Options	(Exhaust is only applicable with a 3/2 valve configuration)
EE	Double Exhaust		
EEE	Triple Exhaust		
K54	Block After Bleed (BAB)	Configuration	

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

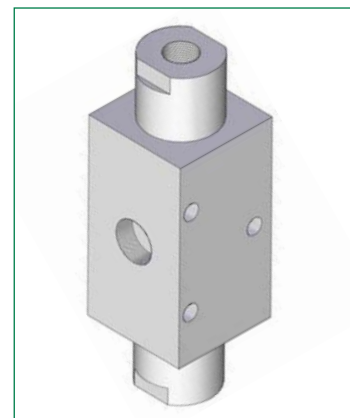
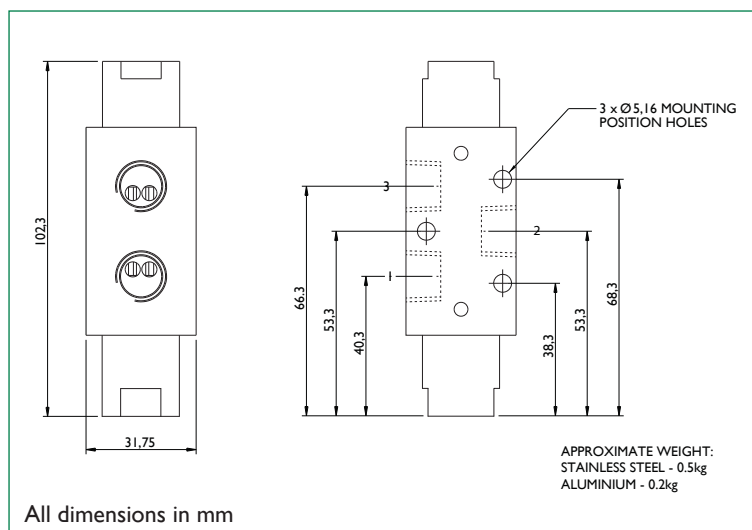
Ordering Example

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Dimensional Drawings

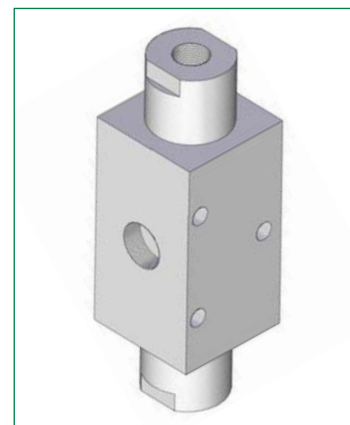
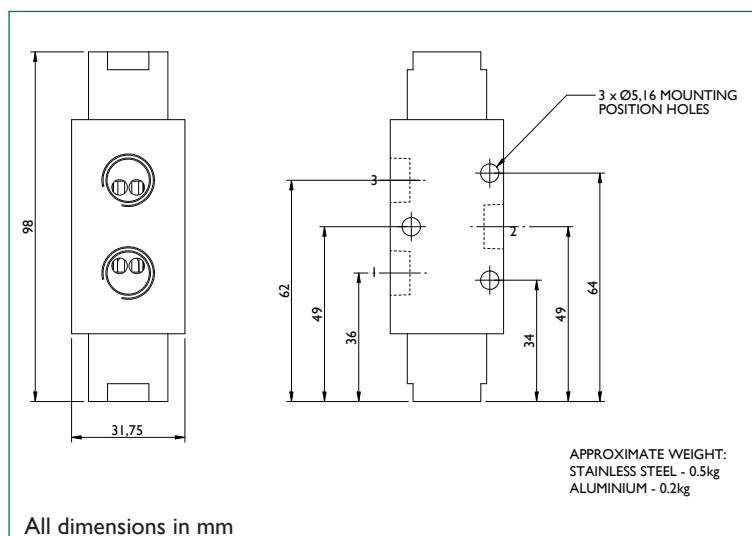


Example Code - BXS-04-04-PI-32-NU-00-V



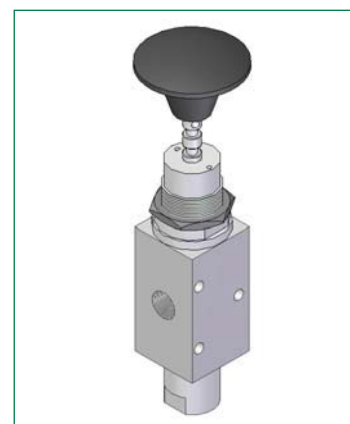
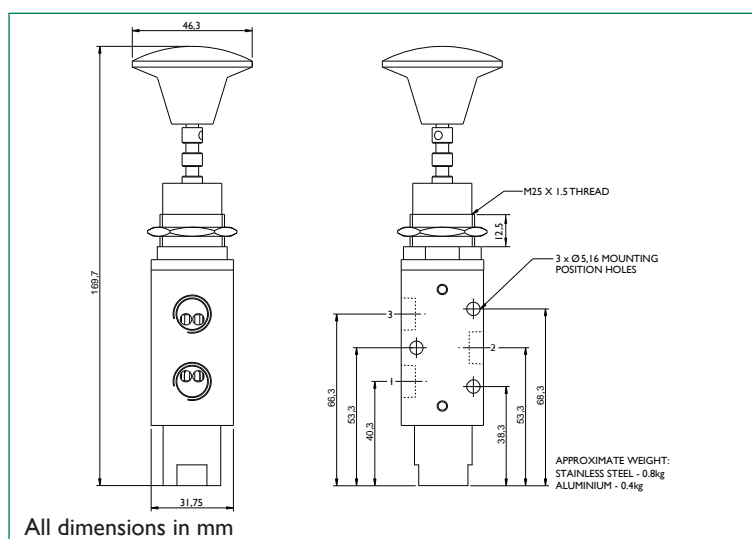
BXS
Pilot Valve

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



BXS
Pilot Valve

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



BXS
Mechanical Valve

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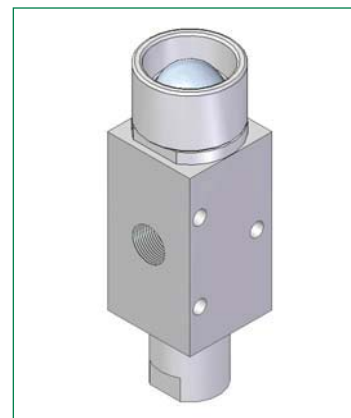
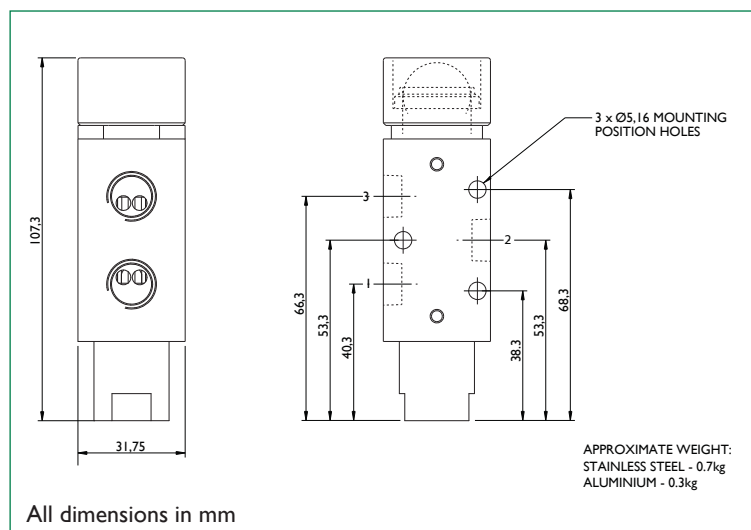
Quality Assurance

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Dimensional Drawings

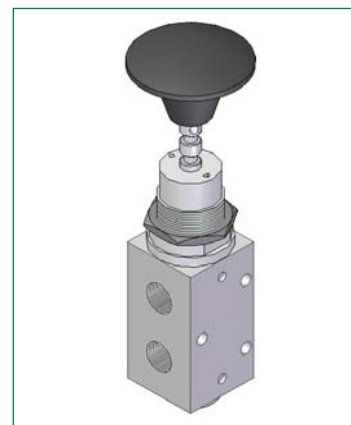
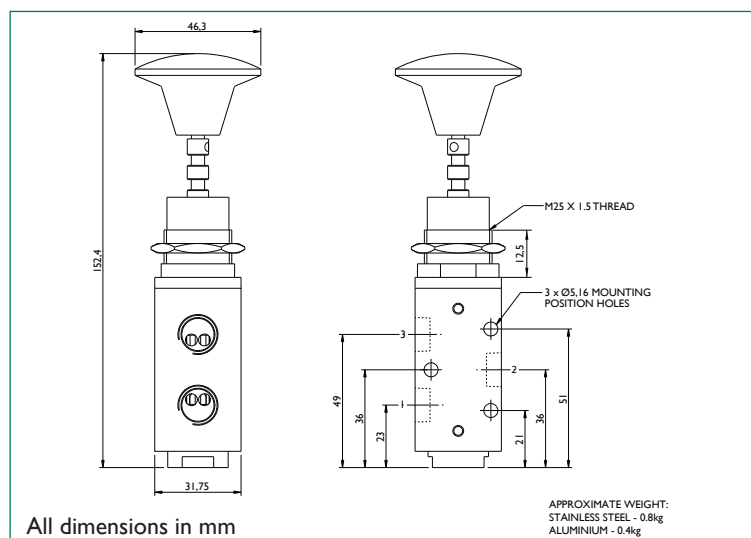


Example Code - BXS-04-04-M2-32-NU-00-V



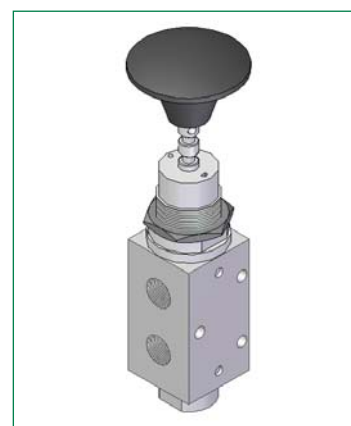
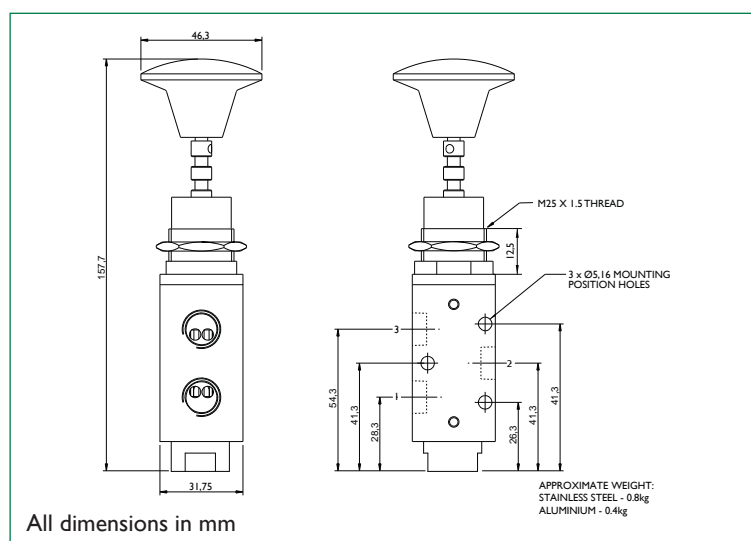
BXS
Mechanical Valve

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



BXS
Mechanical Valve

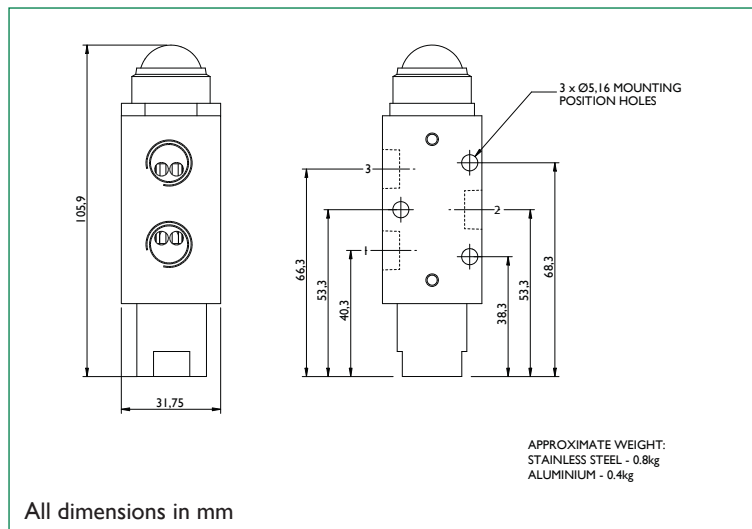
Example Code - BXS-04-04-M3-32-NU-05-V-K54



BXS
Mechanical Valve

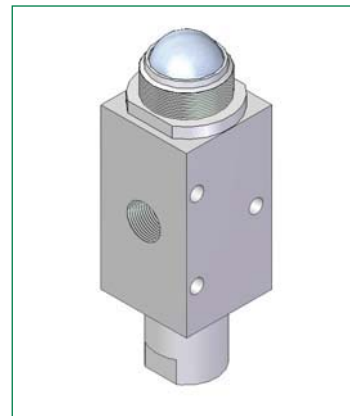
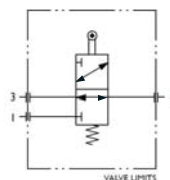
Dimensional Drawings

Example Code - **BXS-04-04-MI3-32-NU-00-V**



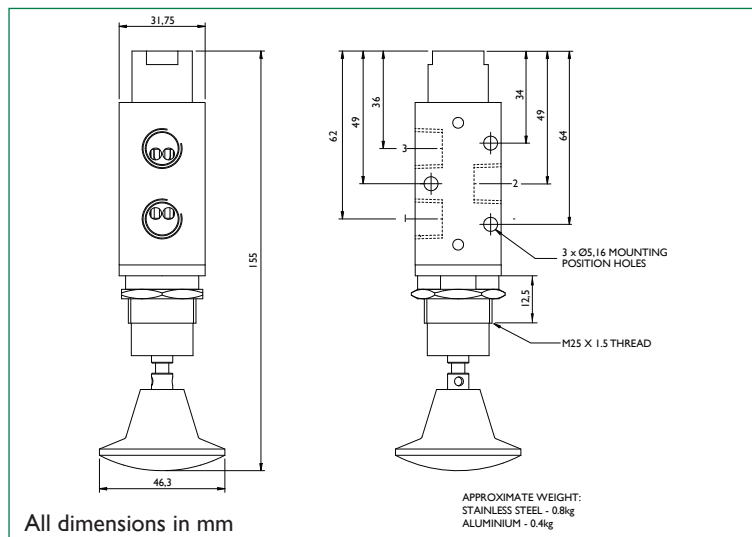
Bifold®

SCHEMATIC 3/2 NU

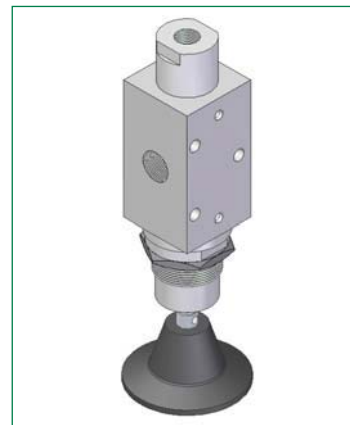
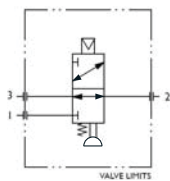


BXS
Mechanical Valve

Example Code - **BXS-04-04-PI-32-NU-MI5-V-K54**

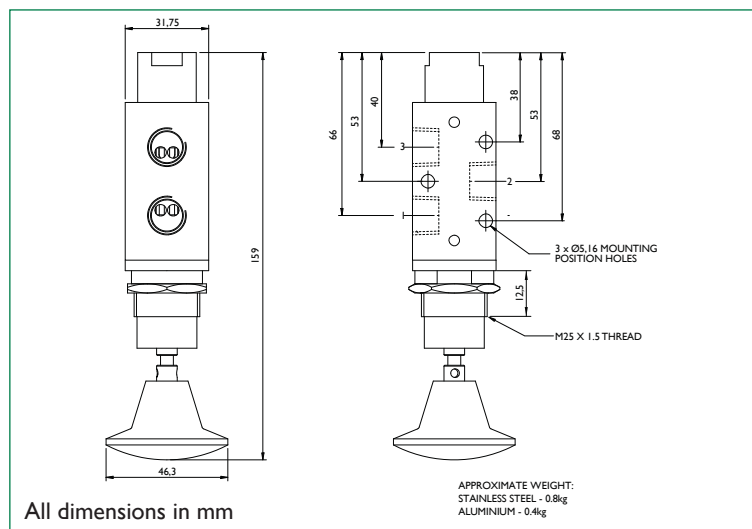


SCHEMATIC 3/2 NU

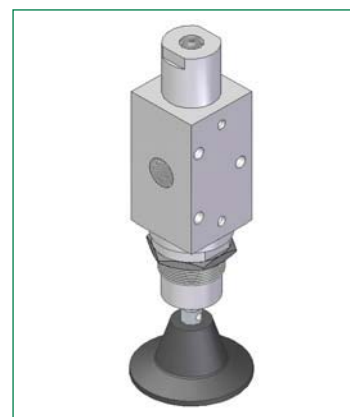
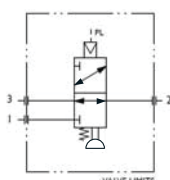


BXS
Reset Valve

Example Code - **BXS-04-04-P9-32-NU-MI5-V-K54**



SCHEMATIC 3/2 NU



BXS
Reset Valve

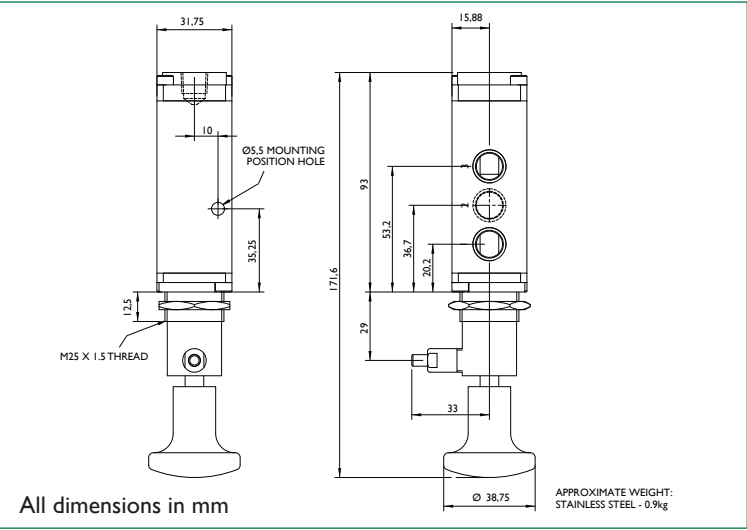
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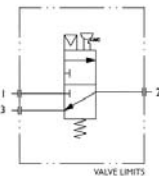
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Dimensional Drawing

Example Code - SJJE06-P9-32-NC-MI6-K54



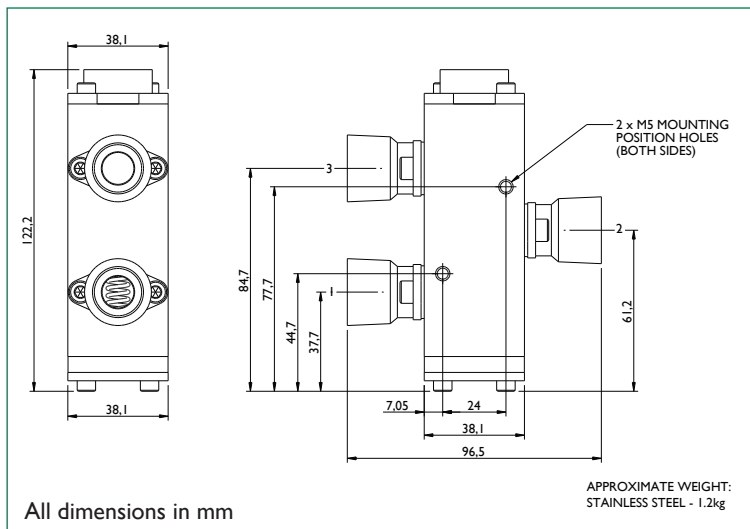
SCHEMATIC 3/2 NC



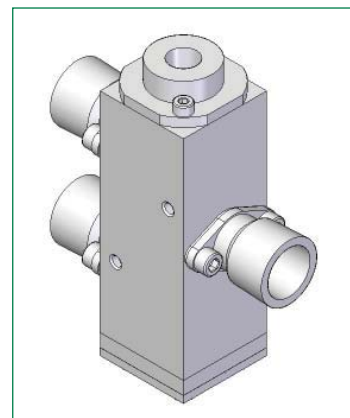
SJJE06
Reset Valve

Dimensional Drawings

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

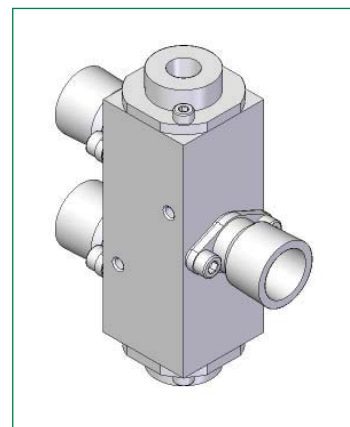
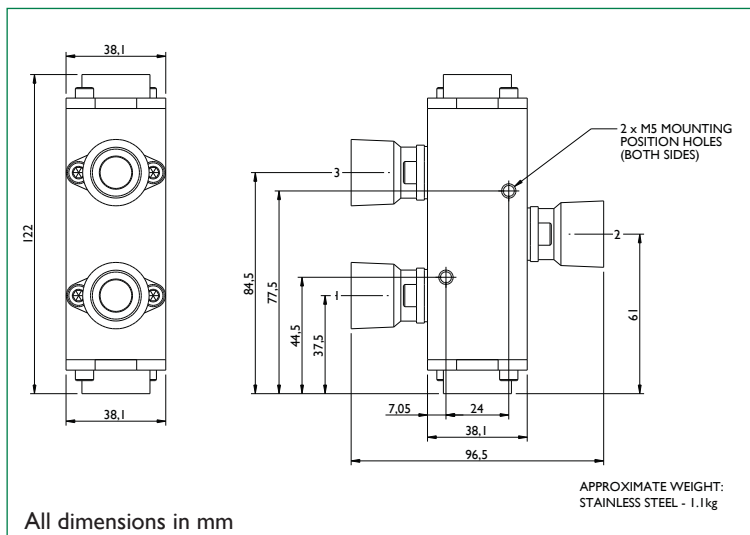


Bifold®



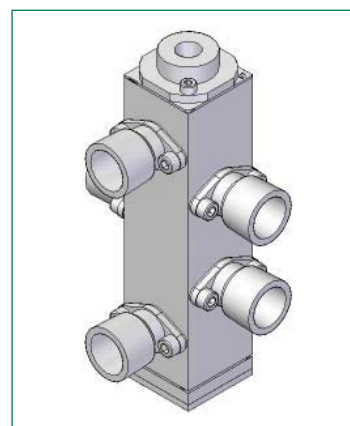
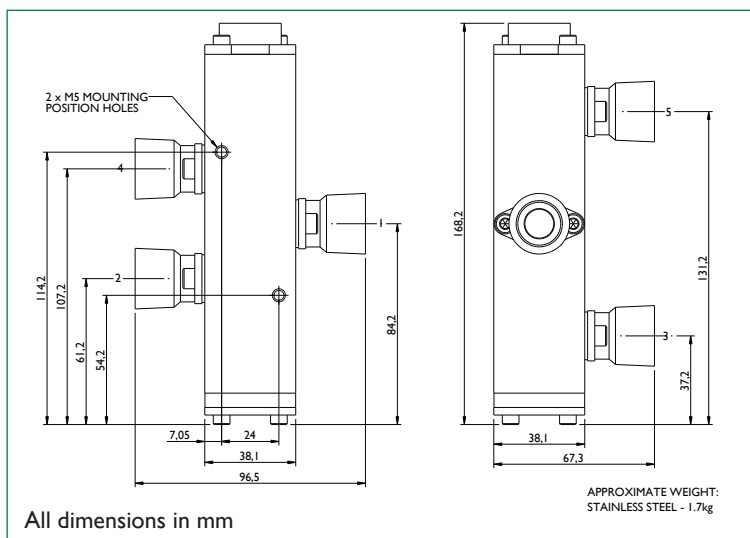
SPR
High Flow Pilot Valve

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



SPR
High Flow Pilot Valve

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



SPR
High Flow Pilot Valve

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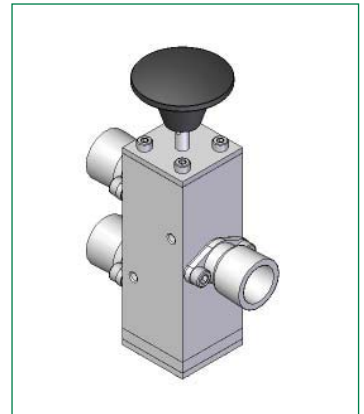
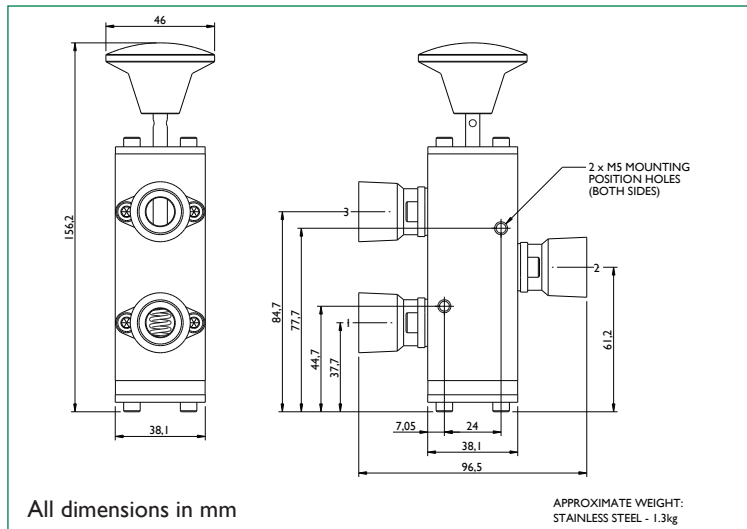
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Dimensional Drawings

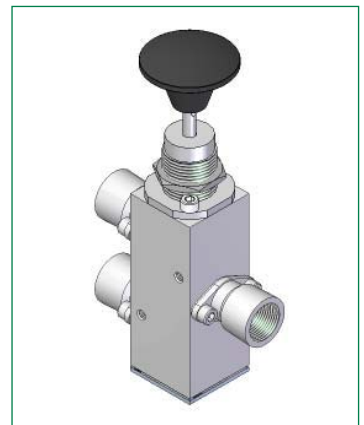
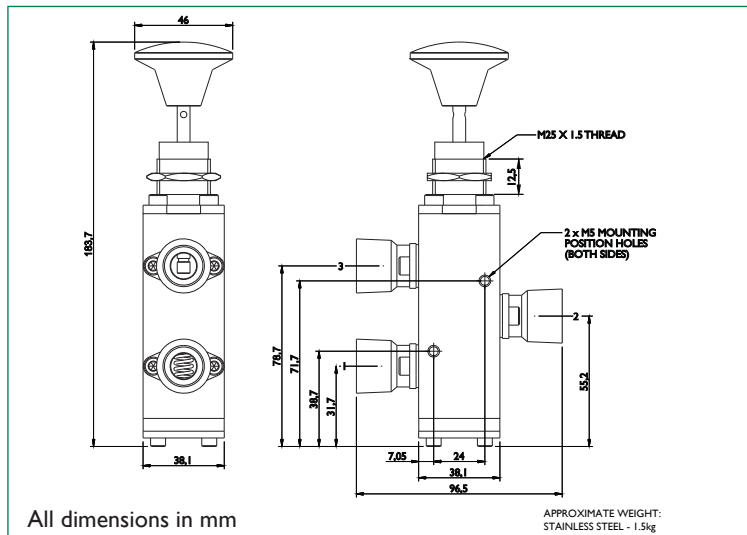


Example Code - SPR-08-08-MI-32-NU-00-V



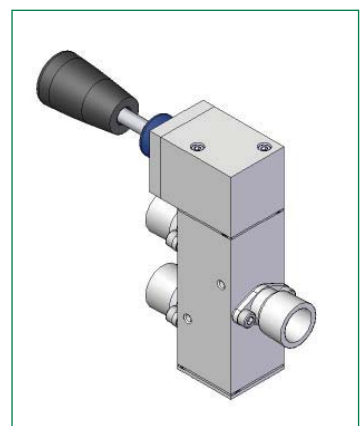
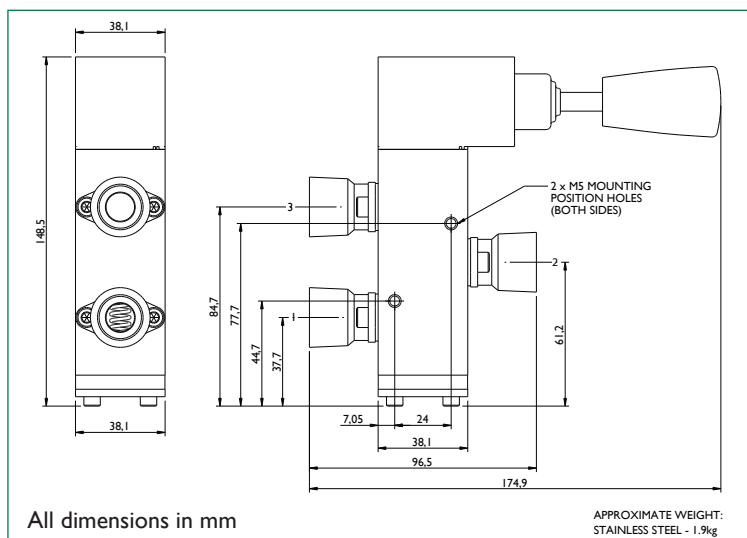
SPR
High Flow Mechanical Valve

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



SPR
High Flow Mechanical Valve

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

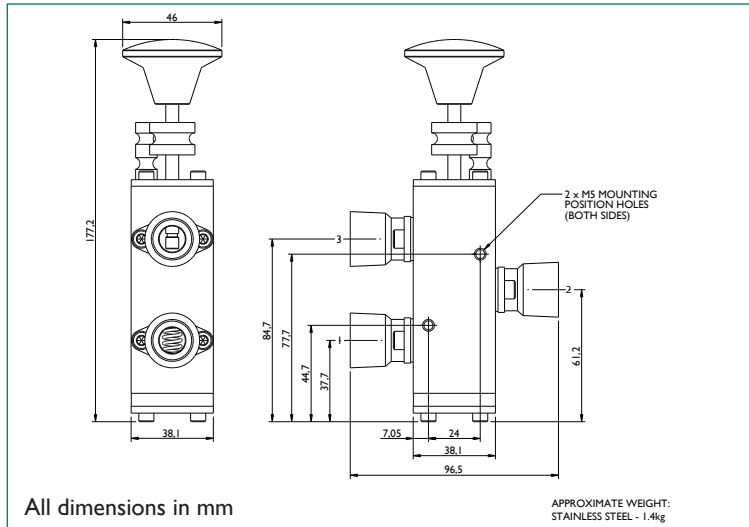


SPR
High Flow Mechanical Valve

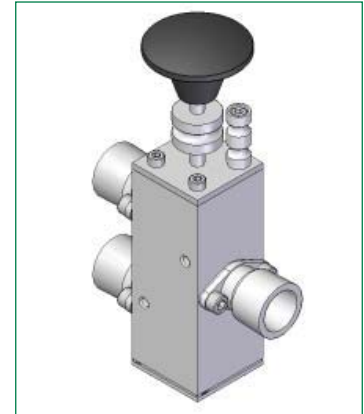
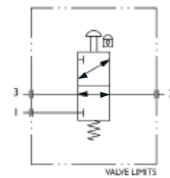
Dimensional Drawings



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

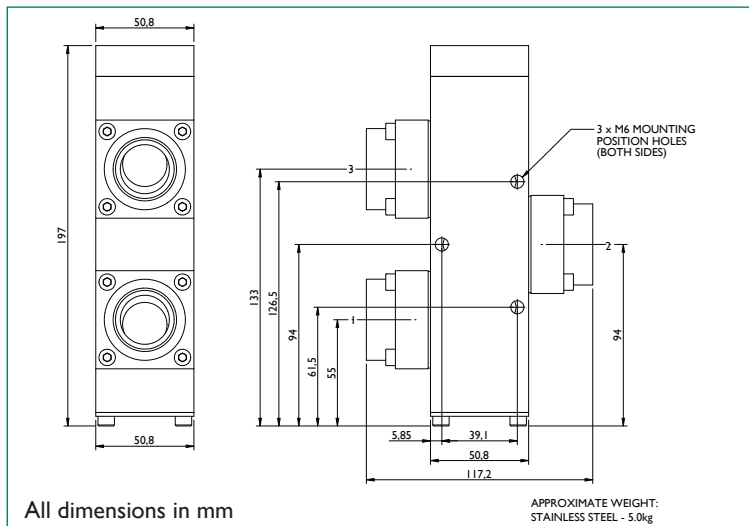


SCHEMATIC 3/2 NU

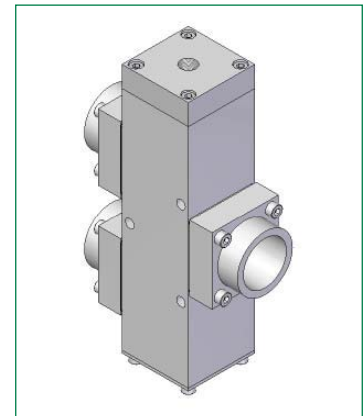
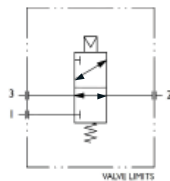


SPR
High Flow Pilot Valve

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

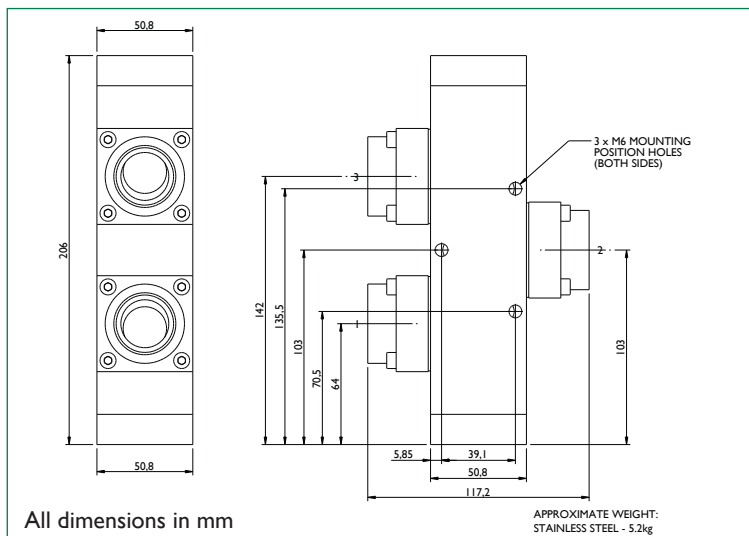


SCHEMATIC 3/2 NU

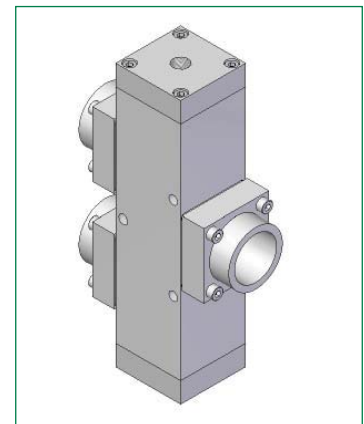
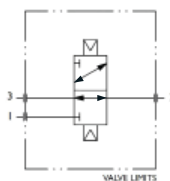


SPR
High Flow Pilot Valve

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



SCHEMATIC 3/2 NU

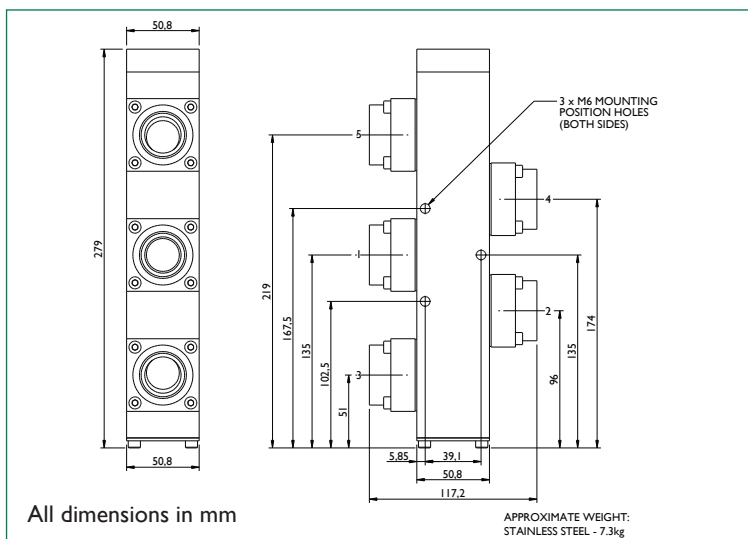


SPR
High Flow Pilot Valve

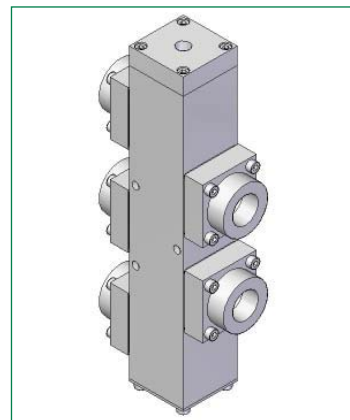
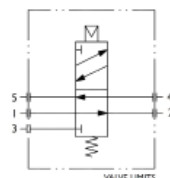
Dimensional Drawings



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

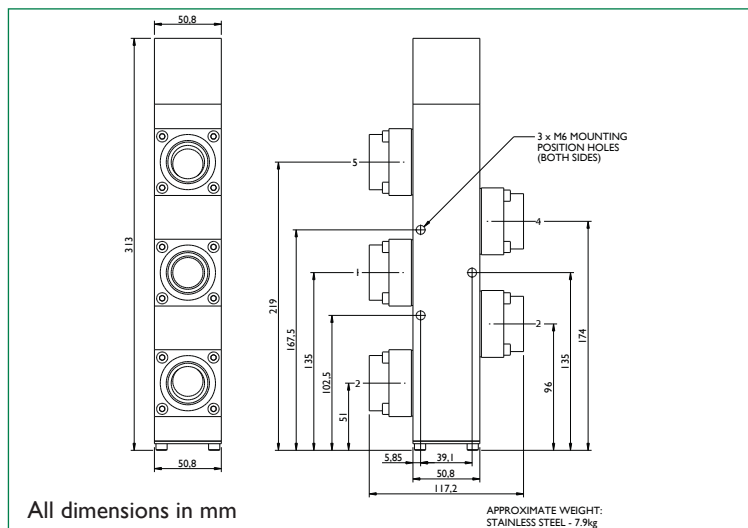


SCHEMATIC 5/2

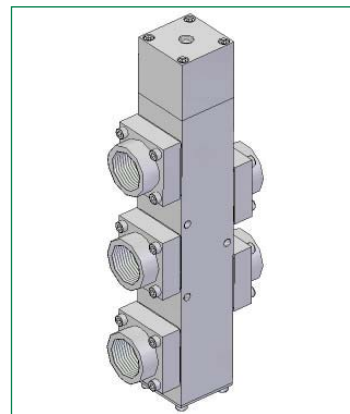
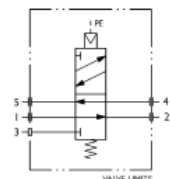


FP06P
Auto Reset

Example Code - SPR-16-16-PI6-52-XX-00-V



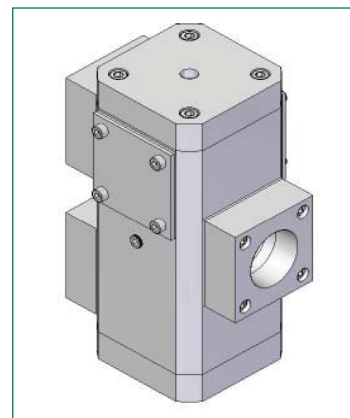
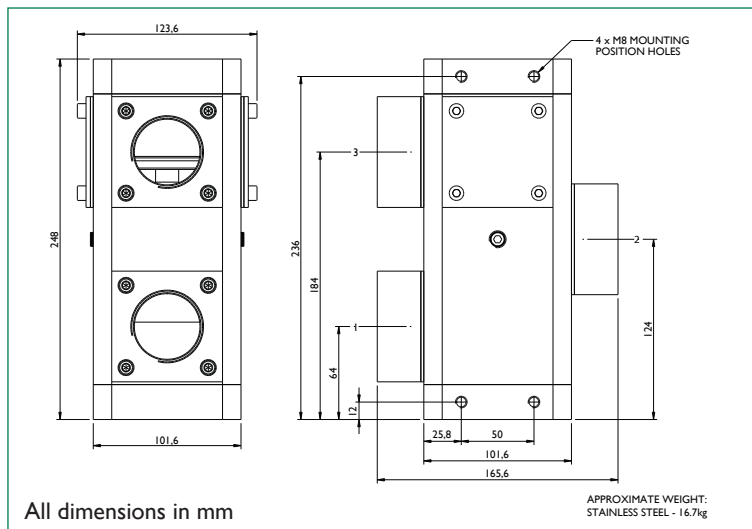
SCHEMATIC 5/2



SPR
High Flow Pilot Valve

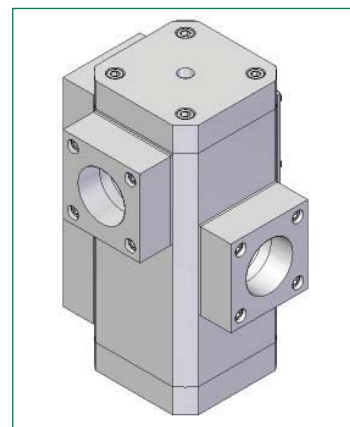
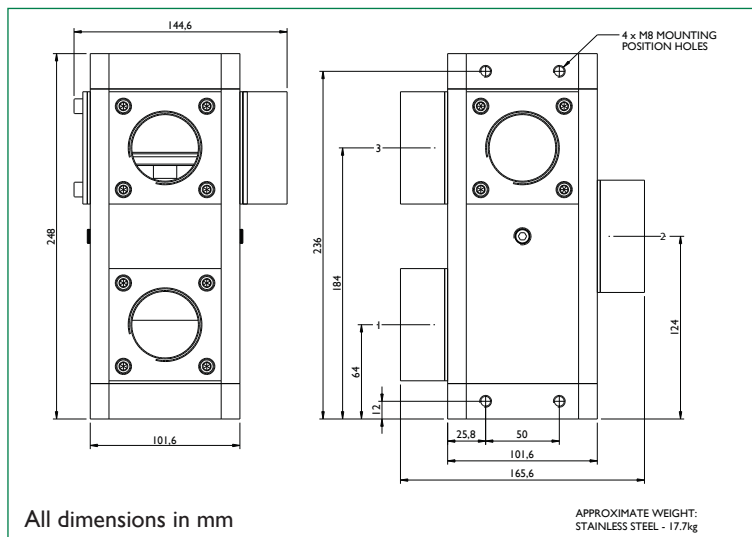
Dimensional Drawings

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



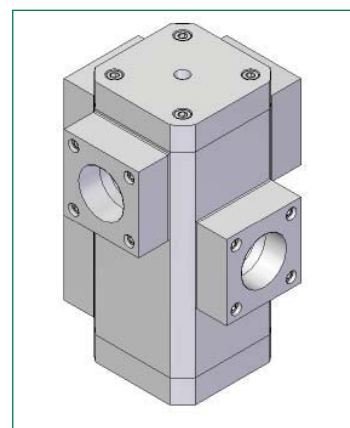
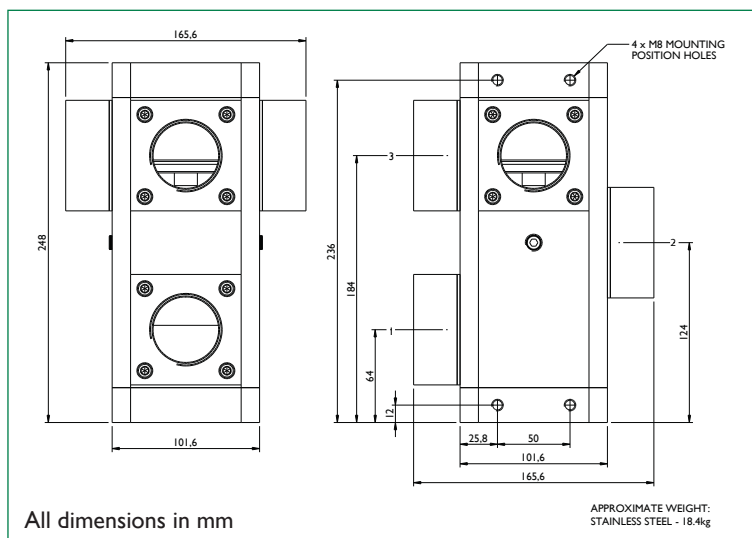
FP06P
Auto Reset

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



FP06P
Auto Reset

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



FP06P
Auto Reset

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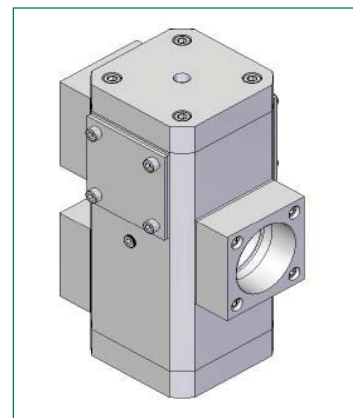
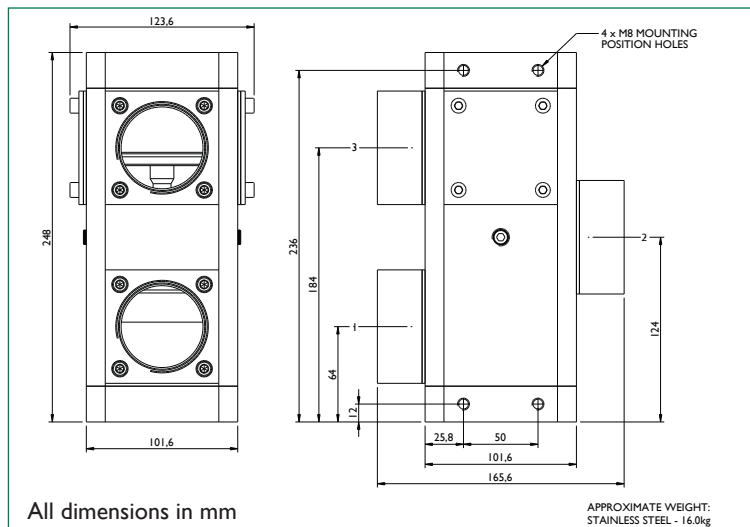
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Dimensional Drawings

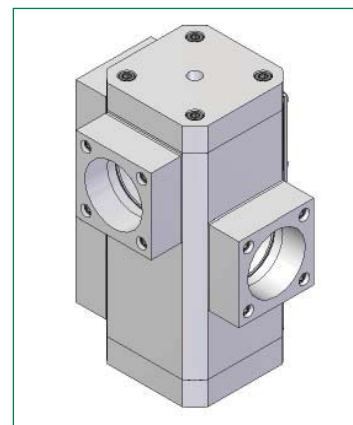
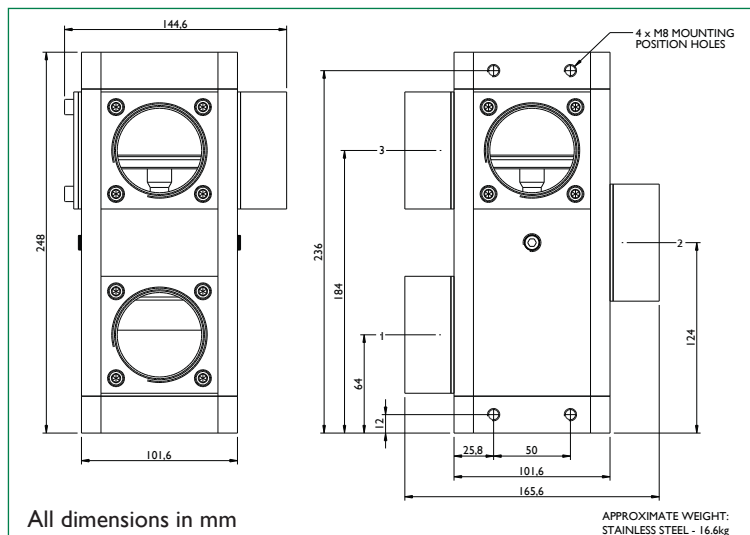


Example Code - PPV-32-32-PI-32-NC-00-V-E-K54



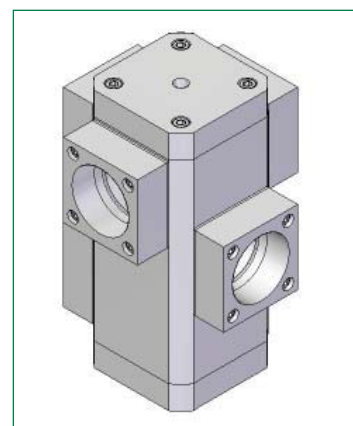
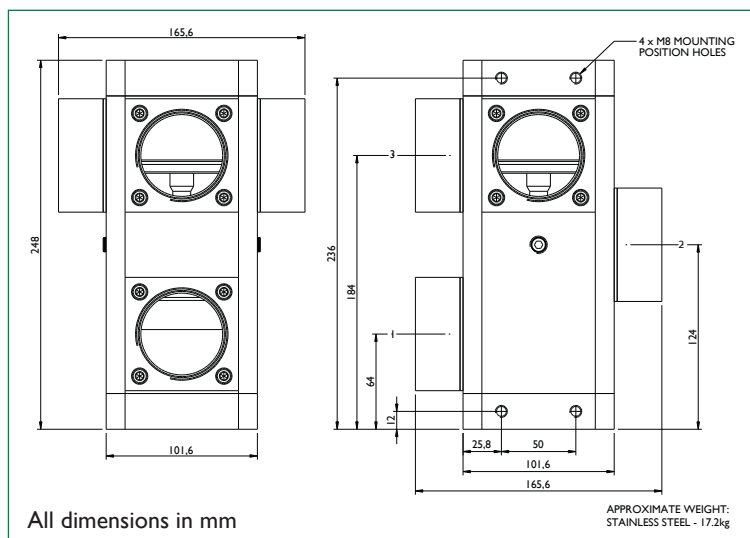
FP06P
Auto Reset

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



FP06P
Auto Reset

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

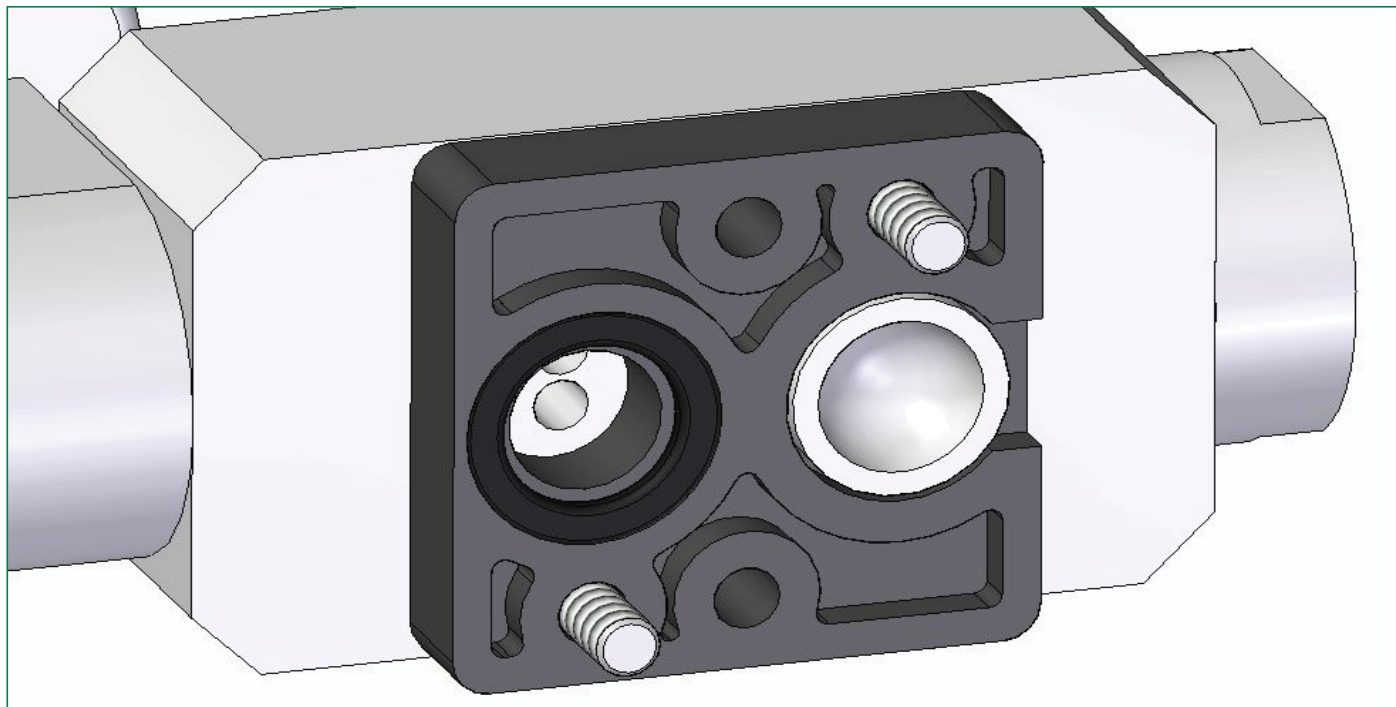


FP06P
Auto Reset

Block Options

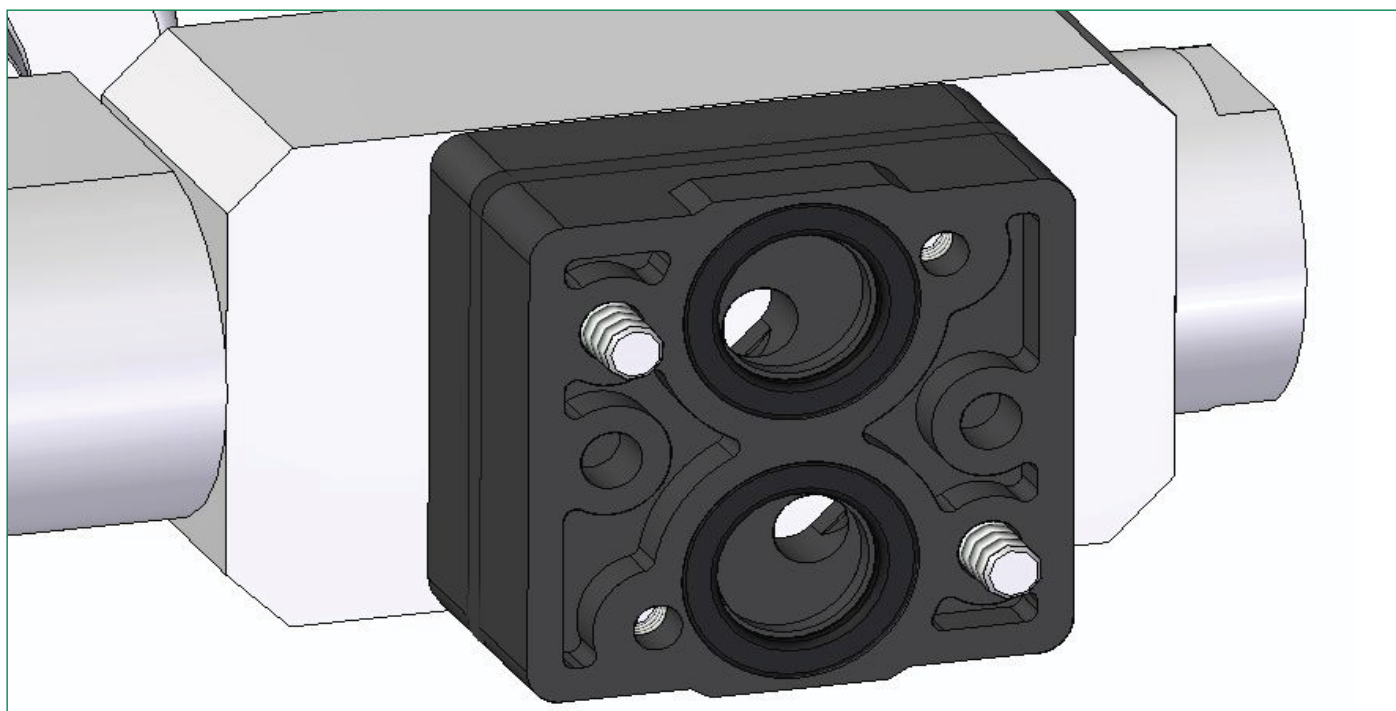


Supplied as Standard for use with: BXS-04-N4., & BXS-04-AN4..Valves



Mounting Configuration:

3 Way 2 Position



Mounting Configuration with Filter Regulator Module:

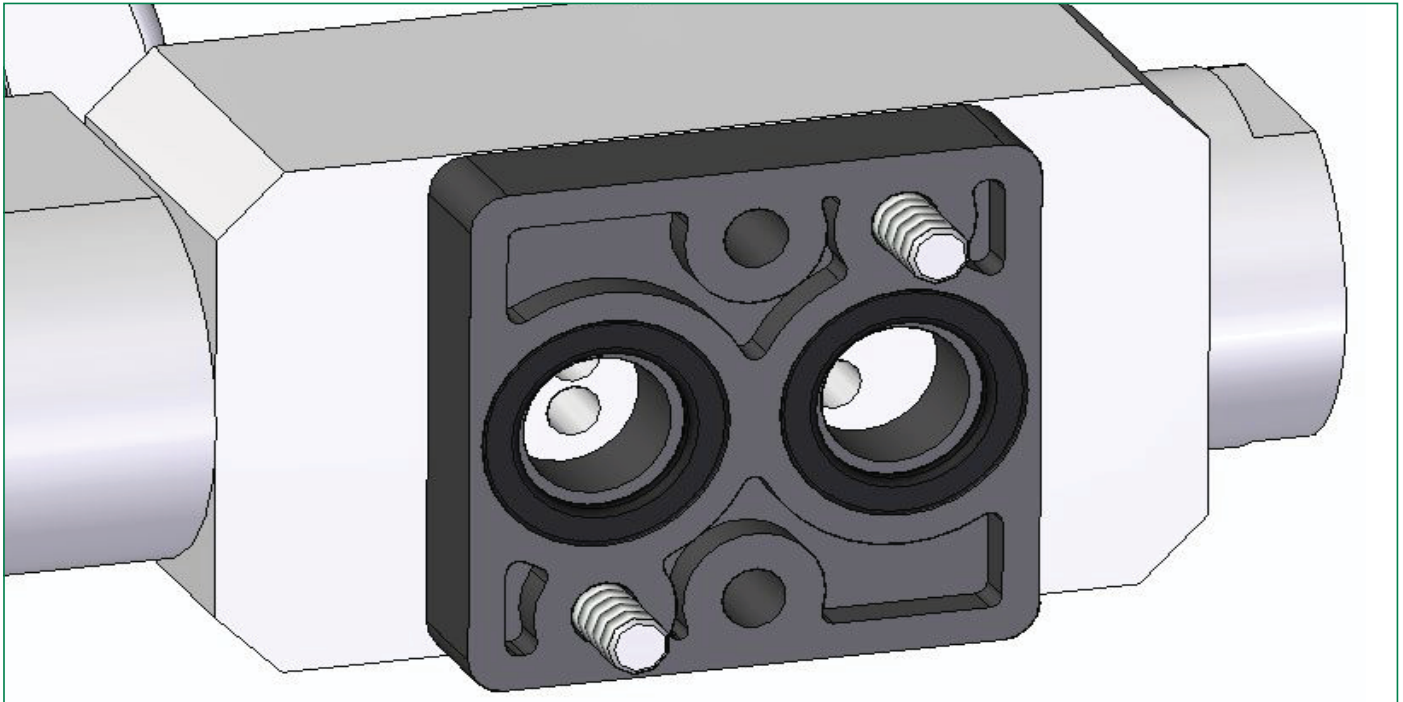
3 Way 2 Position with 90° rotation

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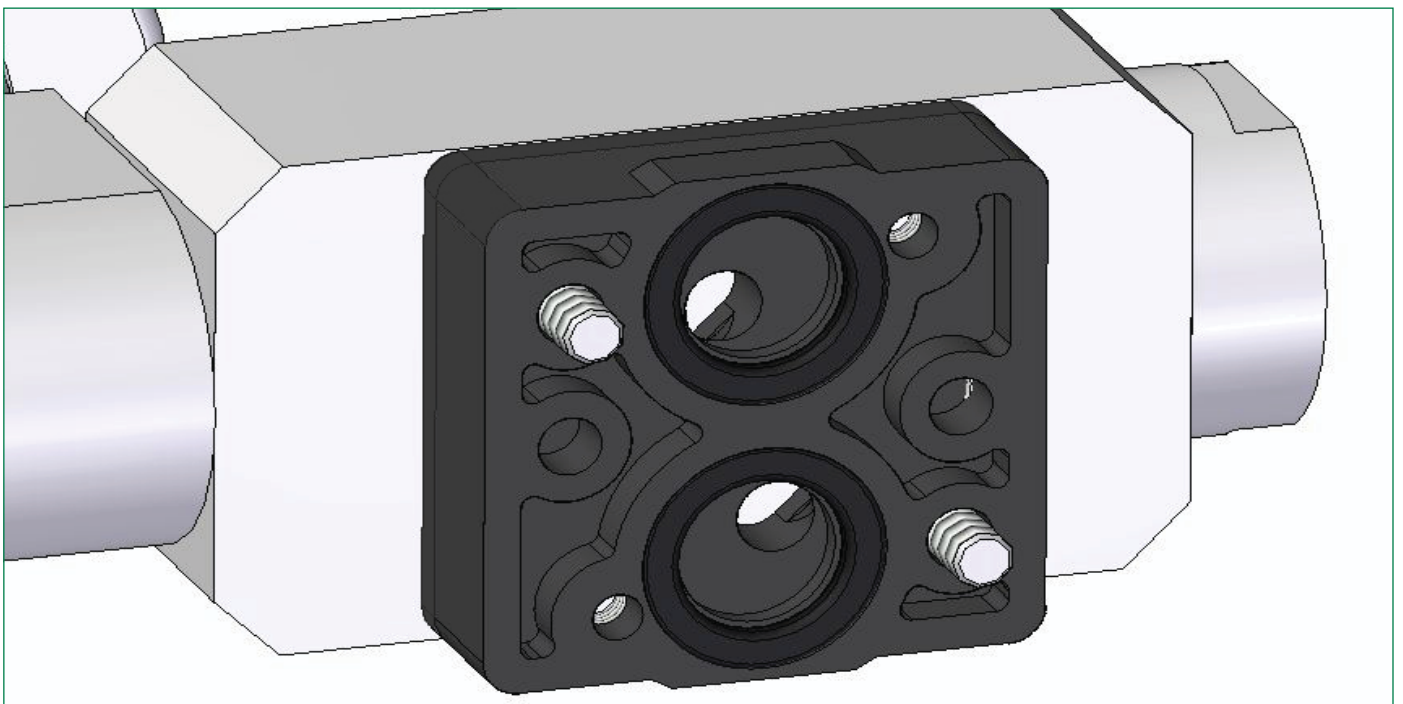
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Block Options



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

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™

Accuracy of Information

We take care to ensure that product information in this catalogue is reasonably accurate and up-to-date. However, our products are continually developed and updated so to ensure accurate and up-to-date information please refer to the product catalogue issue list on our web site or contact a member of our sales team.

Quality Assurance

All Bifold products are manufactured to a most stringent QA programme. Every care is taken at all stages of manufacture to ensure that every product will give optimum performance and reliability. We are third party certified to BS EN ISO 9001:2008. Functional test certificate, letter of conformity and copies of original mill certificates, providing total traceability are available on request to BS EN 10204 3.1 where available. We reserve the right to make changes to the specifications and design etc., without prior notice.

When selecting a product, the applicable operating system design must be considered to ensure safe use. The products function, material compatibility, adequate ratings, correct installation, operation, and maintenance are the responsibilities of the system designer and user.

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

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