

Pilot, Mechanical & Reset BXS Valves & High Flow SPR & PPV Valves (Up to and including 174 psi / 12 bar operating pressure)



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



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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 bocks.
- 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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		BXS PI	LOT VALVES - PREFERRED R	ANGE
Product	Schematic Representation	Page Number	Product Code	Product Description
BXS Pilot Valve	SCHEMATIC 3/2 NU	15	BXS-04-04-P1-32-NU-00-V	 '/4" NPT Ports, 3 Way 2 Position, Pilot Operated, Normally Universal, Spring Return. Cv 0.73, 174 psi / 12 bar.
BXS Pilot Valve	SCHEMATIC 3/2 NU	15	BXS-04-04-P1-32-NU-P1-V	1/4" NPT Ports, 3 Way 2 Position, Pilot Operated, Normally Universal, Pilot Return (Bi-stable). Cv 0.73, 174 psi / 12 bar.

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	B		ANICAL VALVES - PREFERRE	ED RANGE
Product	Schematic Representation	Page Number	Product Code	Product Description
BXS Mechanical Valve	SCHEMATIC 3/2 NU	15	BXS-04-04-M1-32-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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		BXS	RESET VALVES - PREFERRED RAN	IGE
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	¹ /4" NPT Ports, 3 Way 2 Position, Pull Button or Pilot Pressure to Operate, Normally Universal, Spring Return. Cv 0.73, 174 psi / 12 bar.
BXS Reset Valve	SCHEMATIC 3/2 NU	15	BXS-04-04-P9-32-NC-M15-V	¹ /4" NPT Ports, 3 Way 2 Position, Pull Button to Operate, Air Latch Pilot, Normally Closed, Spring Return. Cv 0.73, 174 psi / 12 bar.

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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.		
I SJJE06 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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	SPF	R HIGH FL	OW PILOT VALVES - PREFERR	ED RANGE
Product	Schematic Representation	Page Number	Product Code	Product Description
SPR High Flow Pilot Valve	SCHEMATIC 3/2 NU	19	SPR-08-08-P1-32-NU-00-V	½" NPT Ports, 3 Way 2 Position, Pilot Operated, Normally Universal, Spring Return. Cv 3.9, 145 psi / 10 bar.
SPR High Flow Pilot Valve	SCHEMATIC 3/2 NU	19	SPR-08-08-P1-32-NU-P1-V	1/2" NPT Ports, 3 Way 2 Position, Pilot Operated, Normally Universal, Pilot Return (Bi-stable). Cv 3.9, 145 psi / 10 bar.
SPR High Flow Pilot Valve	SCHEMATIC 5/2	20	SPR-08-08-P1-52-XX-00-V	¹ /2" NPT Ports, 5 Way 2 Position, Pilot Operated, Spring Return. Cv 3.9, 145 psi / 10 bar.

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	SPR HIC	GH FLOW	MECHANICAL VALVES - PRI	EFERRED 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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	SPF	R HIGH FL	OW PILOT VALVES - PREFE	RRED RANGE
Product	Schematic Representation	Page Number	Product Code	Product Description
SPR High Flow Pilot Valve	SCHEMATIC 3/2 NU	21	SPR-16-16-P1-32-NU-00-V	I" 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	21	SPR-16-16-P1-32-NU-P1-V	I" 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	22	SPR-16-16-P1-52-XX-00-V	I" 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	22	SPR-16-16-P16-52-XX-00-V	I" NPT Ports, 5 Way 2 Position, Pilot Operated (Equaliser), Spring Return. Cv 11.1, 145 psi / 10 bar.

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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-P1-32-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-P1-32-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-P1-32-NC-00-V-EEE-K54	 I¹/₂" 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-P1-32-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-P1-32-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-P1-32-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.

For more information, please contact Bifold Sales Department.

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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.

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.

PI - 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 / I bar - Normally Closed & Normally Open.

P16 - Air Pilot (Equalizer).43.5 psi / 3 bar - Normally Closed & Normally Open.

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PPV Overview

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Single Exhaust - 37.0 Cv.

Double Exhaust - 50.0 Cv.

Triple Exhaust - 58.0 Cv.

Single Exhaust - 61.6 Cv.

Double Exhaust - 94.6 Cv.

Triple Exhaust - 103.0 Cv.

Materials of Construction

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

Temperature Rating

Flow Performance

2"

-25°C to +170°C (Standard).

1 1/2" 37 Cv E EE EEE

61.6 Cy EE

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

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.
- Sweet or sour gas.

For more information, please contact Bifold Sales Department.

Port Connections

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

• Inert gas.

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.

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Port Connection	is for 5/2	& 5/3 (BX	(5), & 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.



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





BXS-04 Selection Chart - Ordering Example

04	1/4"		Model Code
A04	1/4" Body Ported 1/4" Body Ported	d (Stainless Steel) d (Aluminium)	Connections
	P2Air PilotP3Air PilotP4HydraulP5PressureP6Air PilotP9Air LatcM1Push BuM2ShroudeM3Push / PM5Key OpeM5CKey Ope	t (Side´+ Manual Override) ic Pilot (High Pressure) e Sensing Pilot t (Low Pressure) h Pilot Operator	Primary Operator
	M5C/I Key Ope M7 Plunger M9 Push / P M9/I Push Bu	ull Button (M3) with Padlock tton (M1) with padlock Cam (Ball)	
		Way 2 Position (Only available in a NO & NC configuration) Way 2 Position	Configuration
	NC NU	Normally Closed (P9 option only)(For the port connections table, please refer to page 14)	Configuration
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	 Spring Return Pneumatic Spring Return Hydraulic Spring Return + Plunger Spring Return + Latch - Energised Spring Return + Latch - De-Energised Blank (Bi-Stable) Positive Detent Air Pilot (Standard) Air Pilot (Side) Air Pilot (Side) Air Pilot (Side) Pressure Sensing Pilot Air Pilot (Low Pressure) Pressure Sensing Pilot Air Pilot (Low Pressure) Shrouded Push Button Push / Pull Button (M3) with Padlock Push / Pull 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) 	Secondary Operate
		VViton(-15°C to +130°C)SANitrile (Low Temperature)(-25°C to +130°C)ALFluorosilicone(-55°C to +130°C)	O-ring Material
		NO LETTER NPT Ports K6 BSPP Ports	Option
		K22 Extra Panel Mount Ring	Option
		K28 Red Plastic Button	Option Option

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

	1
DV2-04	

04	1/4"		Model Code
A04		dy Ported (Stainless Steel) dy Ported (Aluminium)	Connections
	PI P2 P3 P4 P5 P6 P9 M1 M2 M3 M5 M5C/I M5C/I M9 M9/I M13	Air Pilot (Standard) Air Pilot (Side) Air Pilot (Side + Manual Override) Hydraulic Pilot (High Pressure) Pressure Sensing Pilot Air Pilot (Low Pressure) Air Latch Pilot Operator Push Button Shrouded Push Button Push / Pull Button Key Operator (Direct Acting) Key Operator (Direct Acting + Coded) Key Operator (Indirect Acting + Coded) Push / Pull Button (M3) with Padlock Push Button (M1) with padlock Roller Cam (Ball)	Primary Operator
	52 53		Configuration
		XX5/2 OnlyYY5/3 All Ports BlockedZZ5/3 Valve Cylinder Ports Vented	Configuration
		00/ISpring Return Hydraulic02Spring Return + Plunger03/ISpring Return + Latch - Energised03/2Spring Return + Latch - De-Energised04Blank (Bi-Stable)05Positive DetentP1Air Pilot (Standard)P2Air Pilot (Side)P3Air Pilot (Side + Manual Override)P4Hydraulic Pilot (High Pressure)P5Pressure Sensing PilotP6Air Pilot (Low Pressure)	Secondary Operat
		MI 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	
		SANitrile (Low Temperature)(-25°C to +130°C)ALFluorosilicone(-55°C to +130°C)	O-ring Material
		NO LETTERNPT PortsK6BSPP Ports	Option
		K22 Extra Panel Mount Ring	Option

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

	1/4"	Model Code
N4 AN	'/4" Body Ported NAMUR (Stainless Steel) '/4" Body Ported NAMUR (Aluminium)	Connections
	PIAir Pilot (Standard)P2Air Pilot (Side)P3Air Pilot (Side + Manual Override)P4Hydraulic Pilot (High Pressure)P5Pressure Sensing PilotP6Air Pilot (Low Pressure)P9Air 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) M5/1 Key Operator (Indirect Acting) M5C/1 Key Operator (Indirect Acting + Coded) M7 Plunger M9 Push / Pull Button (M3) with Padlock M9/1 Push Button (M1) with padlock M13 Roller Cam (Ball)	Primary Operator
	525 Way 2 Position535 Way 3 Position	Configuration
	XX5/2 Only 5/3 All Ports Blocked 5/3 Valve Cylinder Ports Vented(For the port connections table, please refer to page 14)	Configuration
	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 03/2 Spring Return + Latch - De-Energised 04 Blank (Bi-Stable) 05 Positive Detent P1 Air Pilot (Standard) P2 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	Secondary Operato
	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)	O-ring Material
	AL Priorosilicone (-55 C to +150 C) NO LETTER NPT Ports K6 BSPP Ports	Option
	K22 Extra Panel Mount Ring	Option
		-

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

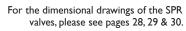
E06 Gaseous Service SJE06 Hydraulic Service	Model Code
PI Air Pilot (Standard) P9 Air Latch Pilot Operator (Only available with the SJJE06 option) P92 Air Latch Pilot Operator (Only available with the HSJJE06 option)	Primary Operato
32 3 Way 2 Position	Configuration
NC Normally Closed (For the port connections table, please refer to page 14)	Configuration
MI6 Pull Button Spring Return with Preliminary Latch & Panel Mount	Secondary Opera
NO LETTER NPT Ports K6 BSPP Ports	Option
K22 Extra Panel Mount Ring	Option
K28 Red Plastic Button	Option
K54 Block After Bleed (BAB)	Configuration
E06 - PI - 32 - NC - MI6 - K6 - K22-K28 - K54	Ordering Example

Wellhead market - Pull + Pin (Latching Valve)

SJJE06-P9-32-NC-M16-K54 (Gaseous Service) Pull (Spring Return Panel Mount) + Latch HSJJE06-P92-32-NC-M16-K54 (Hydraulic Service) **Operating Pressure Temperature Rating** 0-145 psi / 10 bar Pneumatic Working Pressure. -20°C to +180°C (Standard Service). 0-116 psi / 8 bar Hydraulic Working Pressure.



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SPR-08 Selection Chart - Ordering Example

SPR-08 3/2

0/	1⁄2" Spo	ol Valve			Model Code
06 A00 08 A03	6 ³ /8" 1/2	Body Po Port Bl	orted (Al	nless Steel)	Ports
	PI P5 P6 P9 P16 MI	Press Air P Air L Air P	ilot (Stan sure Sensi ilot (Low atch Pilot ilot (Equa Button	ng Pilot Pressure) (For operating pressures, please refer to page 14) Operator	Primary Operator
	M3 M6 M9 M9/I	Push Lever Push	/ Pull But r / Pull But	ton ton (M3) with Padlock 11) with padlock	
		22 32	2 Way 2 3 Way 2	Position (Only available in a NO & NC configuration) Position	Configuration
				ormally Closed (P9 option only) (For the port connections table, prmally Universal please refer to page 14)	Configuration
			04 04/2 05 PI P5 P6 P16 MI M3 M6 M9 M9/I M15 M17	Blank (Bi-Stable) Blank + Plunger (Bi-Stable) Positive Detent Air Pilot (Standard) Pressure Sensing Pilot (For operating pressures, please refer to Air Pilot (Low Pressure) page 13) Air Pilot (Equalizer) Push Button Push J 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 (NC configuration)	Secondary Operato
				VViton (Standard)(-20°C to +120°C)ALFluorosilicone(-60°C to +100°C)	O-ring Material
				NO LETTERNPT PortsK6BSPP Ports	Option
				K28 Red Plastic Button	Option

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SPR-08 5/2

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



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SPR-08 Selection Chart - Ordering Example

06 A06	1/2" Spool Valve			Model Code
08 A08	3%" Body Po 1/2" Port Blo 1/2" Body Po	ocks (Stainless S rted (Aluminiu ocks (Stainless orted (Aluminiu	im) Steel)	Ports
	P5 Pressu P6 Air Pil P9 Air La P16 Air Pil	lot (Standard) ure Sensing Pild lot (Low Press tch Pilot Oper lot (Equalizer)	ure) (For operating pressures, please refer to page 13)	Primary Operator
	M3 Push / M6 Lever M9 Push /		13) with Padlock ith padlock	
	52	5 Way 2 Positi	on	Configuration
	XX	5/2 Only	(For the port connections table, please refer to page 13)	Configuration
		05 P PI A P5 P P6 A P16 A MI P M3 P M6 L M9 P M9/I P M15 P	lank + Plunger (Bi-Stable) ositive Detent ir Pilot (Standard) ressure Sensing Pilot (For operating pressures, please refer to ir Pilot (Low Pressure) page 13) ir Pilot (Equalizer) ush Button ush / Pull Button ever ush / Pull Button (M3) with Padlock ush Button (M1) with padlock ull Button (Spring Return) (Only available in a NC configuration) ull Button (Spring Return) + Padlock (Only available in a NC configuration)	Secondary Operato
			Viton (Standard) (-20°C to +120°C) Fluorosilicone (-60°C to +100°C)	O-ring Material
			NO LETTERNPT PortsK6BSPP Ports	Option
			K28 Red Plastic Button	Option

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SPR 3/2 Valve Range Selection Chart

SPR-16 3/2

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





SPR-16 Selection Chart - Ordering Example

12 ³ / ₄ " Port Blocks (Stainless Steel) A12 ³ / ₄ " Body Ported (Aluminium) 16 1" Port Blocks (Stainless Steel) A16 1" Body Ported (Aluminium) P1 Air Pilot (Standard) P6 Air Pilot (Low Pressure) P16 Air Pilot (Equalizer) Image: State of the point of the point connections table, please refer to page 14) Image: State of the point connections table, please refer to page 14) Image: State of the point connections table, please refer to page 14) Image: State of the point connections table, please refer to page 14) Image: State of the point connections table, please refer to page 14) Image: State of the point connections table, please refer to page 14) Image: State of the point connections table, please refer to page 14) Image: State of the point connections table, please refer to page 14) Image: State of the point connections table, please refer to page 14) Image: State of the point connections table, please refer to page 14) Image: State of the point connections table, please refer to page 14) Image: State of the point connections table, please refer to page 14) Image: State of the point connections table, please refer to page 14)	Ports Primary Operator Configuration Configuration
P6 Air Pilot (Low Pressure) (For operating pressures, please refer to page 14) P16 Air Pilot (Equalizer) (For operating pressures, please refer to page 14) 32 3 Way 2 Position NU Normally Universal (For the port connections table, please refer to page 14) 00 Spring Return P1 Air Pilot (Standard) (For operating pressures, please refer to page 14)	Configuration
NU Normally Universal (For the port connections table, please refer to page 14) 00 Spring Return P1 Air Pilot (Standard) (For operating pressures please refer to page 14)	
00 Spring Return P1 Air Pilot (Standard) (For operating pressures place refer to place refe	Configuration
PI Air Pilot (Standard) (For operating prossures place refer to	0011184141011
PI Air Pilot (Standard) (For operating pressures please refer to	
P6Air Pilot (Low Pressure) P16(10) Operating pressures, please refer to page 13)	Secondary Operator
VViton (Standard)(-20°C to +120°C)ALFluorosilicone(-60°C to +100°C)	O-ring Material
NO LETTER NPT Ports K6 BSPP Ports	Option
PR-16-12 - PI - 32 - NU - 00 - V - K6	Ordering Example

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SPR-16 5/2

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





SPR-16 Selection Chart - Ordering Example

P16 Air Pilot (Equalizer) Configuration 52 5 Way 2 Position Configuration XX 5/2 Only (For the port connections table, please refer to page 14) Configuration 00 Spring Return Difference Difference	R-16 I" Spool Valve	Model Code
P6 P16 Air Pilot (Low Pressure) Air Pilot (Equalizer) (For operating pressures, please refer to page 14) Primary Operato 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 Air Pilot (Standard) Secondary Operation P6 Air Pilot (Standard) P6 Air Pilot (Low Pressure) Secondary Operation P16 Air Pilot (Equalizer) V Viton (Standard) (-20°C to +120°C) O-ring Material NO LETTER NPT Ports Option Option Option Option	A123/4" Body Ported (Aluminium)16I" Port Blocks (Stainless Steel)	Ports
XX 5/2 Only (For the port connections table, please refer to page 14) Configuration 00 Spring Return PI Air Pilot (Standard) Secondary Opera P6 Air Pilot (Low Pressure) PI6 Air Pilot (Equalizer) Secondary Opera V Viton (Standard) (-20°C to +120°C) O-ring Material NO LETTER NPT Ports Option	P6 Air Pilot (Low Pressure) (For operating pressures, please refer to page 14)	Primary Operator
00 Spring Return PI Air Pilot (Standard) P6 Air Pilot (Low Pressure) P16 Air Pilot (Equalizer) V Viton (Standard) (-20°C to +120°C) O-ring Material NO LETTER NPT Ports	52 5 Way 2 Position	Configuration
PI Air Pilot (Standard) Secondary Operation P6 Air Pilot (Low Pressure) Secondary Operation P16 Air Pilot (Equalizer) O-ring Material V Viton (Standard) (-20°C to +120°C) O-ring Material NO LETTER NPT Ports Option	XX 5/2 Only (For the port connections table, please refer to page 14)	Configuration
P6 P16 Air Pilot (Low Pressure) Air Pilot (Equalizer) O-ring Material V Viton (Standard) (-20°C to +120°C) (-60°C to +100°C) O-ring Material NO LETTER NPT Ports Option	00 Spring Return	
AL Fluorosilicone (-60°C to +100°C) O-ring Platerial NO LETTER NPT Ports Option	P6 Air Pilot (Low Pressure)	Secondary Opera
NO LETTER BOPP Ports BOPP Ports Option	VViton (Standard)(-20°C to +120°C)ALFluorosilicone(-60°C to +100°C)	O-ring Material
	NO LETTER NPT Ports K6 BSPP Ports	Option
	PR-16-12 - PI - 52 - XX - 00 - V - K6	Ordering Example

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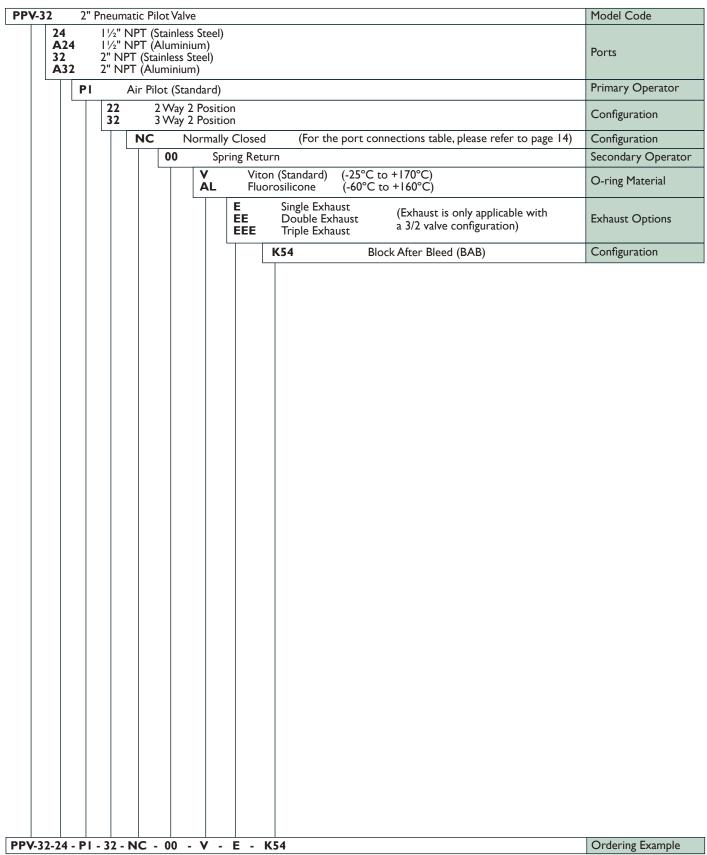


For the dimensional drawings of the PPV valves, please see page 32 & 33.





PPV-32 Selection Chart - Ordering Example



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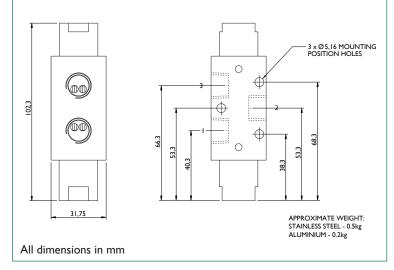
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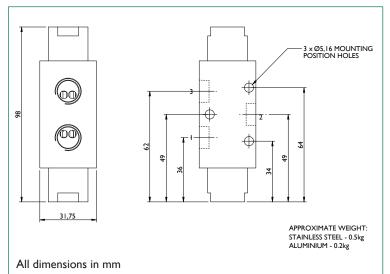
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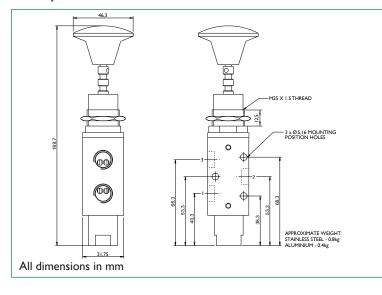
Example Code - BXS-04-04-PI-32-NU-00-V



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



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



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SCHEMATIC 3/2 NU

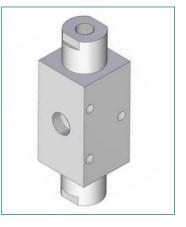
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SCHEMATIC 3/2 NU

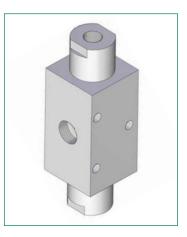
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performan RS EN ISC VALVE



BXS Pilot Valve







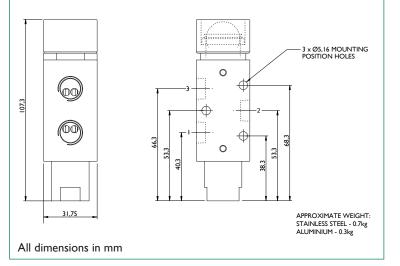
BXS Mechanical Valve



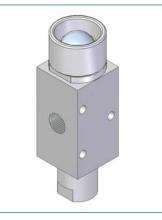
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Example Code - BXS-04-04-M2-32-NU-00-V



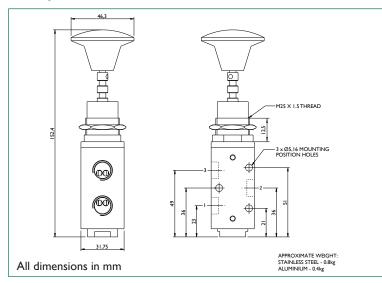




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Example Code - BXS-04-04-M3-32-NU-04-V



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

125 X I.5 THREAD

3 x Ø5,16 MOUNTING POSITION HOLES

APPROXIMATE WEIGHT: STAINLESS STEEL - 0.8kg ALUMINIUM - 0.4kg

designe

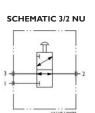
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SCHEMATIC 3/2 NU

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Mechanical Valve

. We are t ird party



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All dimensions in mm

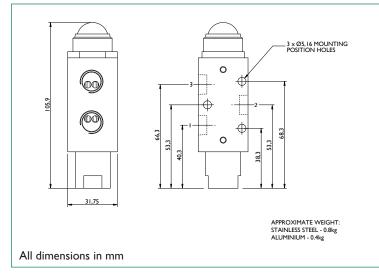


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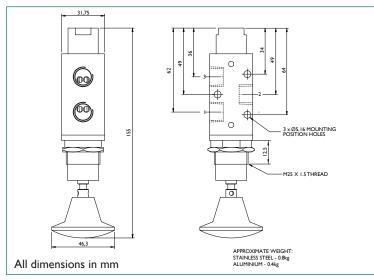
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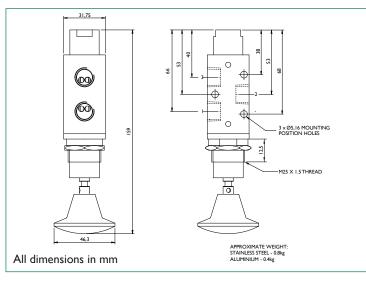
Example Code - BXS-04-04-MI3-32-NU-00-V



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



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



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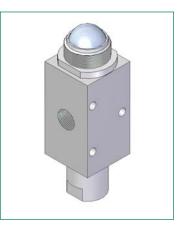


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SCHEMATIC 3/2 NU

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SCHEMATIC 3/2 NU

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SCHEMATIC 3/2 NU

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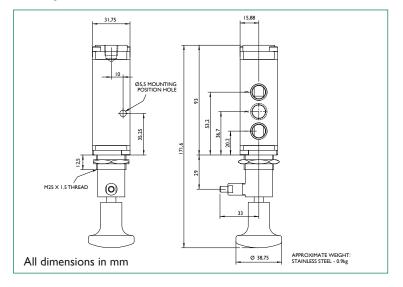




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Example Code - SJJE06-P9-32-NC-M16-K54











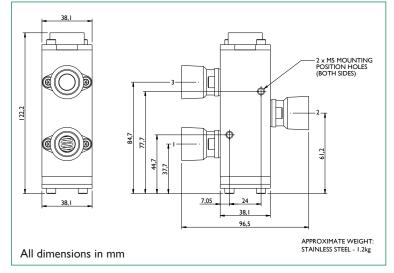
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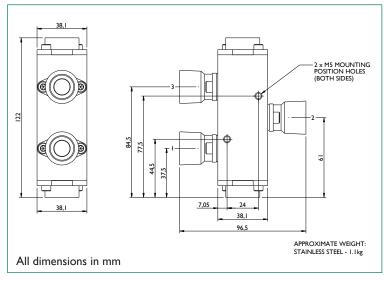
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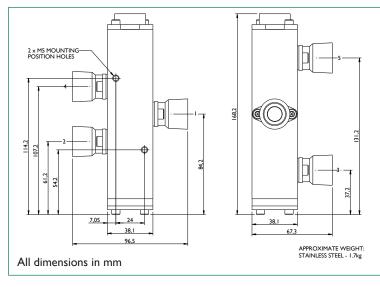
Example Code - SPR-08-08-PI-32-NU-00-V



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



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



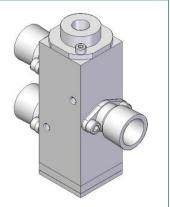
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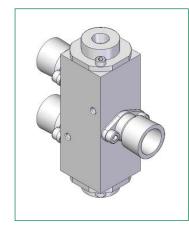


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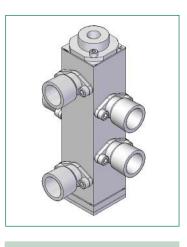
SCHEMATIC 5/2



SPR High Flow Pilot Valve



SPR High Flow Pilot Valve



SPR High Flow Pilot Valve

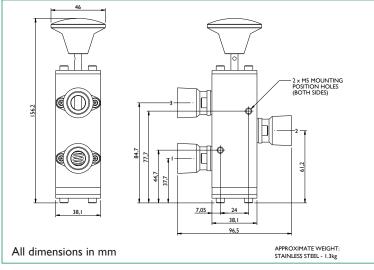
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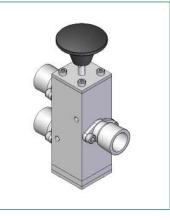
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Example Code - SPR-08-08-MI-32-NU-00-V





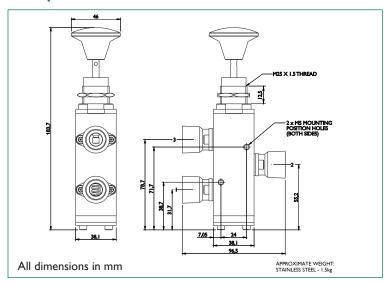




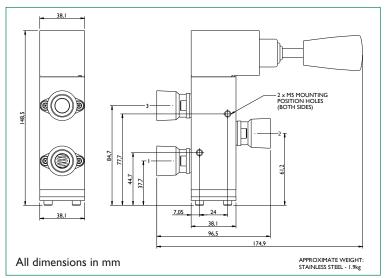
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SPR High Flow Mechanical Valve

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



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



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BFD000 January '15

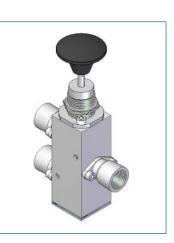
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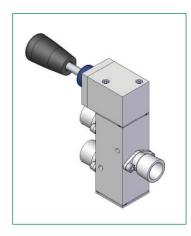


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VALVE LIMITS



SPR High Flow Mechanical Valve





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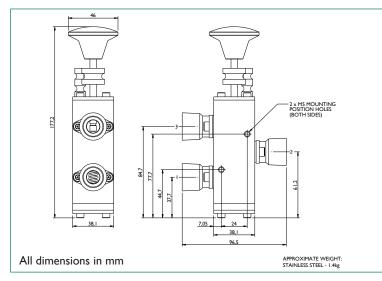
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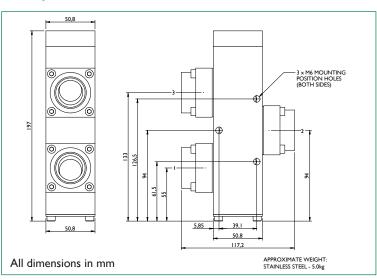
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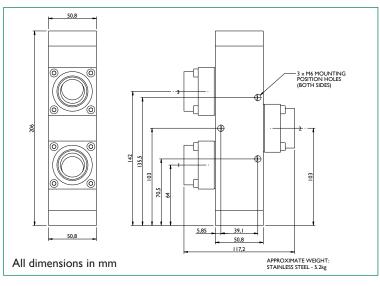
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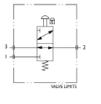


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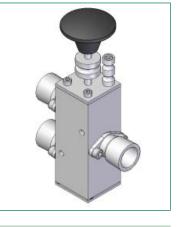
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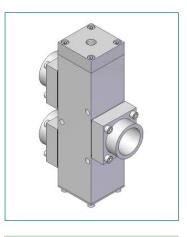


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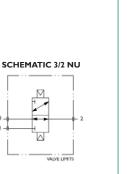
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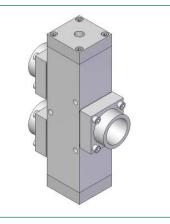


SPR High Flow Pilot Valve





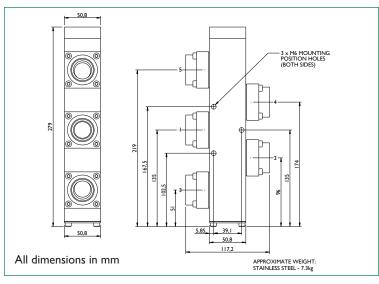




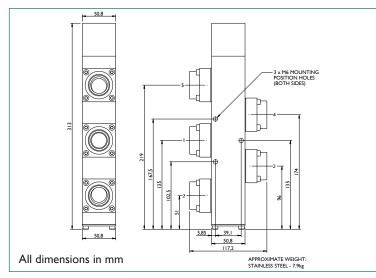
SPR High Flow Pilot Valve

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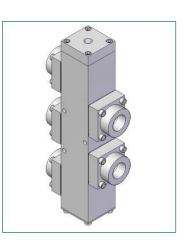
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Example Code - SPR-16-16-P16-52-XX-00-V



SCHEMATIC 5/2

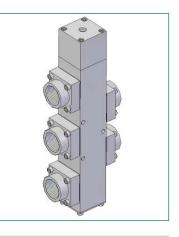


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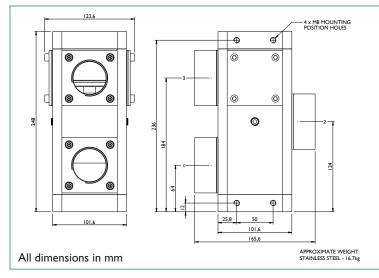
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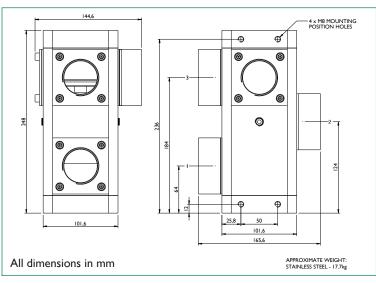
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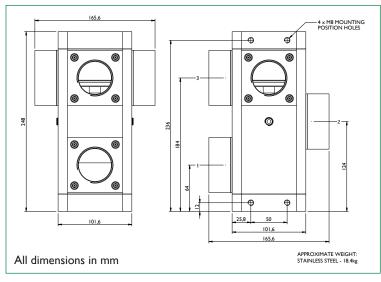
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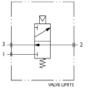


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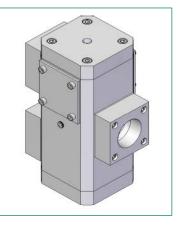


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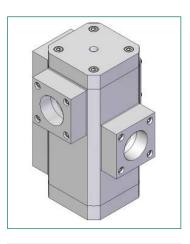
SCHEMATIC 3/2 NC

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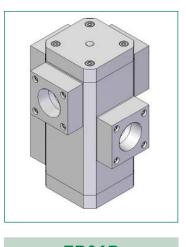
VALVE LIMETS



FP06P Auto Reset



FP06P Auto Reset



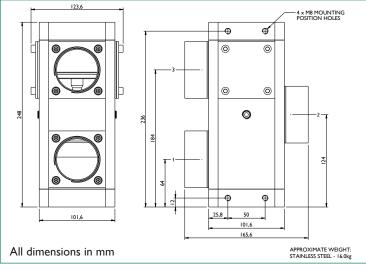
FP06P Auto Reset

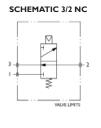
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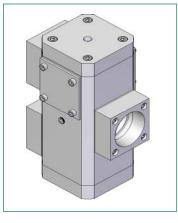
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Example Code - PPV-32-32-PI-32-NC-00-V-E-K54



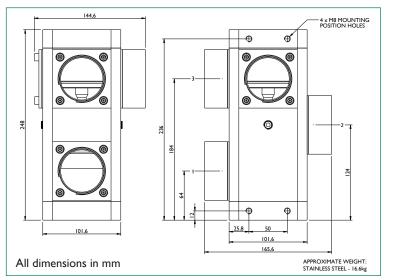




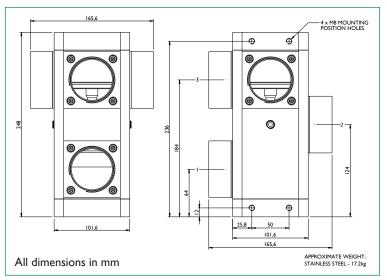
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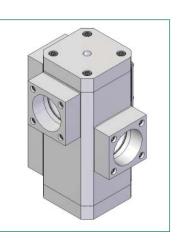


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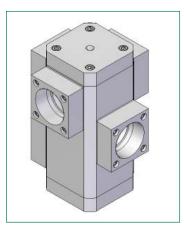








FP06P Auto Reset





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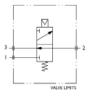
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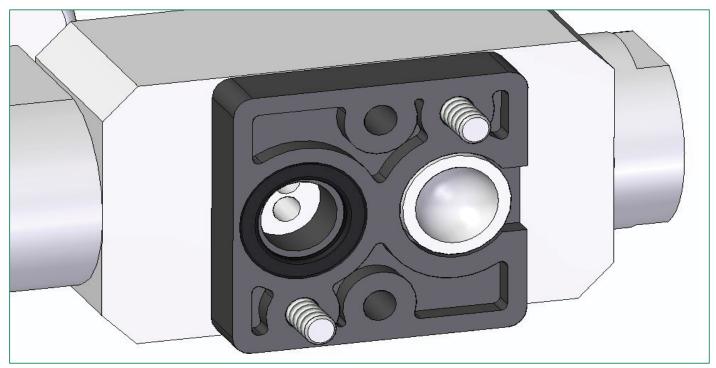
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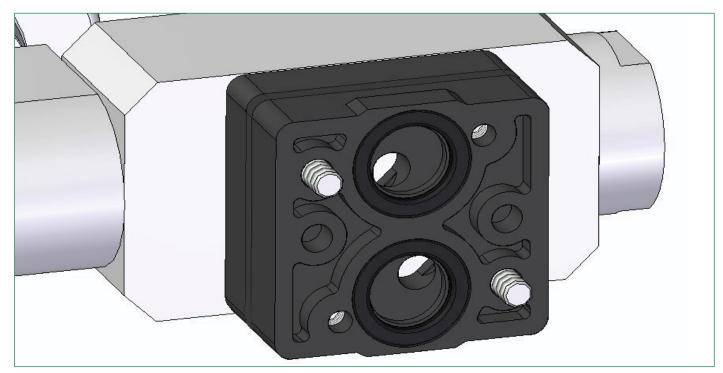
Block Options

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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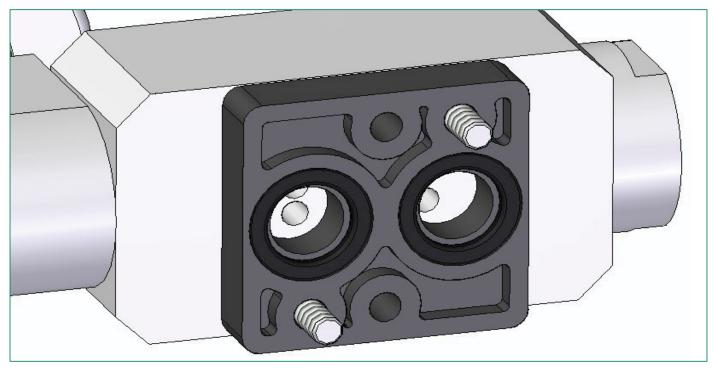
performance and reliability. We are third party BS EN ISO 9001-2008. Functional test certificat ducts conformity and copies of original mill certificat z total traceability are available on request, to BS where available. We reserve the right to make to the specifications and design etc., without pr



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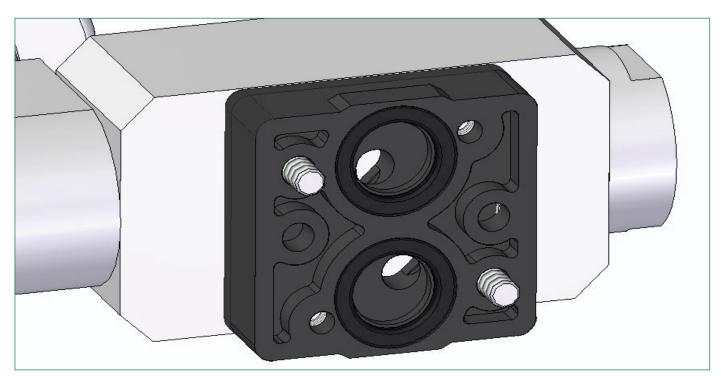
Block Options





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

Accuracy of Information

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