



VALVES

Directional Valves

BIS offer a comprehensive range of stainless steel directional control valves for use on a wide range of operating media, from 2 position 3 port and 2 position 4 port balanced spool valves to 3 position 4 port rotary control shear seal valves. The balanced spool valves are unique in design. They are completely bi-directional with the same CV value in all directions. The actuation of these valves is completely independent from the main line pressures, ensuring switching is consistent and very low levels of leakage are maintained. The rotary shear seal valves are lever operated and can be configured as 2 position 4 port or 3 position 4 port valves. The valves are lever operated offering 90° manual actuation, with a range of centre conditions. The shear seal design ensures the valves offer excellent leakage performance with good contamination resistance.



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	Nominal Size	Max Pressure	Media	Valve Type
3 Port Directional Valves	1/4"	690 bar (10,000 psi)	Liquids	3B25
	1/4"	414 bar (6,000 psi)*	Liquids & Gases	3B25-G
	3/8"	690 bar (10,000 psi)	Liquids	S-3B37
	3/8"	414 bar (6,000 psi)*	Liquids & Gases	S-3B37-G
	1/2"	690 bar (10,000 psi)	Liquids	3B50
	1/2"	414 bar (6,000 psi)*	Liquids & Gases	3B50-G
	1"	241 bar (3,500 psi)	Liquids & Gases	3BHF100
	1"	690 bar (10,000 psi)	Liquids	3BLF100
4 Port Directional Valves	3/8"	690 bar (10,000 psi)	Liquids	S-6B37
4 Port Rotary Directional Valves	1/4"	690 bar (10,000 psi)	Liquids	4R25

Directional Valves

Rotary Shear Seal Valves



- ☐ 2 position 4 way and 3 position 4 way variants available
- ☐ Shear seal design for excellent contamination resistance
- ☐ Various flow pattern options available
- ☐ Excellent leakage performance
- ☐ Subsea variants available
- ☐ Square drive and position locking variants
- ☐ Various port options and manifold mounted solutions
- ☐ Suitable for use with mineral oils and water glycols

Balanced Spool Valves

- ☐ 2 position 3 way and 2 position 4 way directional valves
- ☐ Low leakage
- ☐ Subsea and block-before-bleed variants available
- ☐ Vent chamber prevents mixing of main line and pilot fluids
- ☐ Variants available for liquid and gas duty
- ☐ Various port and seal options
- ☐ Various actuation methods available, including hydraulic and pneumatic pilot, cam and lever operators

