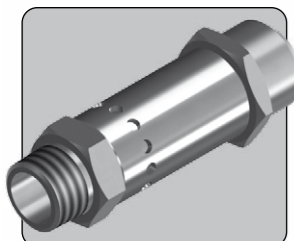


S100 SAFETY RELIEF VALVE

1" UP TO 18 BAR 261 PSI



The S100 is a vent to atmosphere safety relief valve. Designed with an elastomeric seat seal the valve combines excellent leakage performance with a high discharge flow capacity from its pop-open characteristic.

The valve is approved as a safety accessory to category

IV of the Pressure Equipment Directive, and is suitable for use in the most demanding liquid or gas applications.

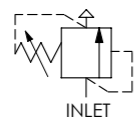
- Approved to category IV of the Pressure Equipment Directive (2014/68/EU)
- Pop-open characteristic for maximum discharge capacity
- Vents to atmosphere – no need for exhaust side pipework
- Available preset and internally adjustable. Wire locking and tagging available on request
- Available with relieving gear to enable manual release of pressure
- Virtually zero leakage at 90% of set pressure
- Reseat within the greater of 5 psi or 7.5% of set pressure when valve has opened and not popped
- Reseat within 50% of set pressure once popped
- Repeatability within the greater of 2 psi or ±3% of nominal set pressure

Specifications

BASIC MODEL NUMBER

S100

SYMBOL



MAX WORKING PRESSURE

18 bar (261 psi)

ORIFICE SIZE

Ø20.8mm (Ø0.819")

FLUID

Liquids and Gases
See materials section

TEMPERATURE RANGE

See Product Selector opposite and Technical Data section

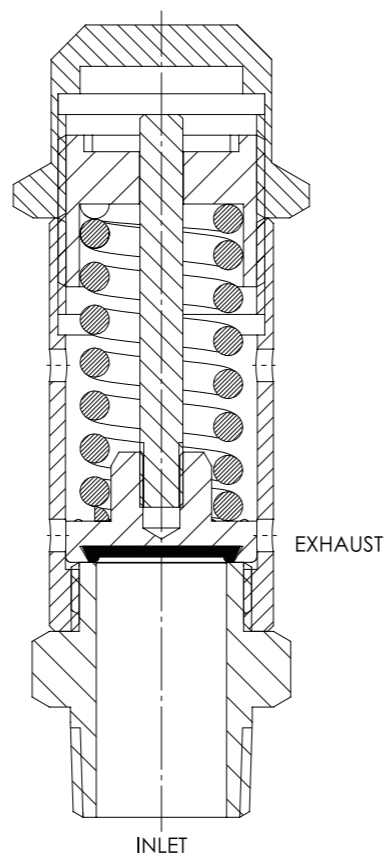
PORT SIZE

1"

WEIGHT

0.9 kg (2.0 lb)

Specifications may change without notice



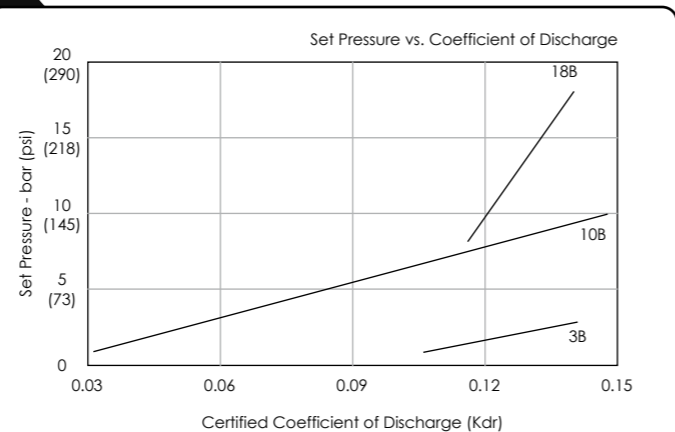
Materials

Externally Exposed and Internally Wetted Parts: 316 and 302 stainless steel.

The standard valve is designed for use with air and plain water. Note that use with water above 100°C is not recommended. Other media compatible with the materials of construction may be used, although consideration must be given to the safety of such fluids when vented to atmosphere.

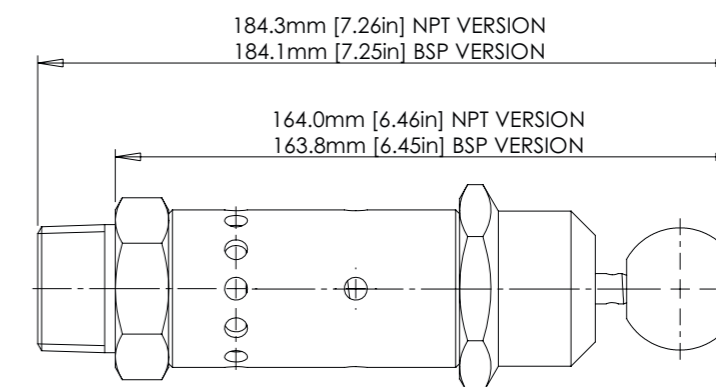
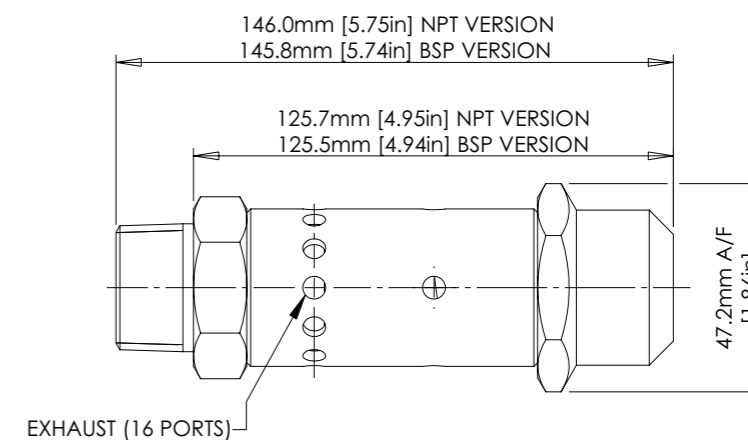
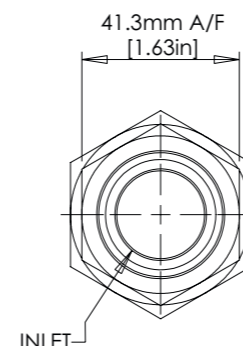
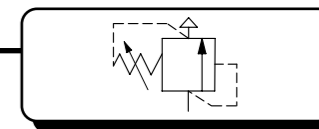
⚠ The standard valve has Viton® seals. Further seal options are available via the Product Selector. Compatibility with the working fluid at the operating temperature must be considered.

Typical Performance



The Kdr value may be used to calculate discharge capacity in accordance with ISO 4126. We recommend contacting us with system details to confirm suitability.

Installation Diagram



Product Selector

S100 P - RG - EP - 3B

VALVE TYPE	PORTING OPTIONS	VALVE OPTIONS	SEAL OPTIONS	SET PRESSURE RANGE
S100	<p>P 1" BSPP male</p> <p>N 1" NPT male</p>	<p>RG Relieving gear</p> <p>⚠ Exposure to high and low fluid temperatures will influence handle temperature. Operator safety must be considered.</p>	<p>EP EPDM seals -45°C to +150°C</p> <p>NBR Nitrile seals -30°C to +105°C</p> <p>Further seal options are available on request</p> <p>⚠ The safety of venting high and low temperature fluids to atmosphere must be considered</p>	<p>3B 0.7 - 3 bar (10 - 44 psi)</p> <p>10B 0.7 - 10 bar (10 - 145 psi)</p> <p>18B 8 - 18 bar (116 - 261 psi)</p> <p>Advise us of set pressure if factory pre-setting is required</p>

Repair and seal kits are available on request

For a seal kit add SK at the end of the model code and for a repair kit add RK



CATALOGUE ALSO AVAILABLE ON CD
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www.bisvalves.co.uk



BIS VALVES
The Specifier's Catalogue Page ???

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4 PORT DIRECTIONAL CONTROL
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PILOT OPERATED CHECK
RELIEF
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FILTERS
PRESSURE SENSING
PUMPS
ACTUATORS
TECHNICAL DATA