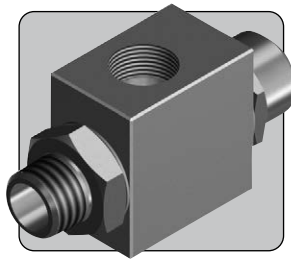


TS100

SAFETY RELIEF VALVE

1"

UP TO 28 BAR 406 PSI



The TS100 is a safety relief valve with a threaded exhaust port for piping vented flow away from the 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.

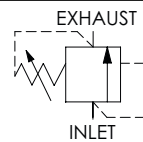
- Approved to category IV of the Pressure Equipment Directive (2014/68/EU)
- Pop-open characteristic for maximum discharge capacity
- Available preset and internally adjustable.
- Available with relieving gear to enable the manual release of pressure
- Wire locking and tagging available on request
- 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

TS100

SYMBOL



MAX WORKING PRESSURE

28 bar
(406 psi)

MAX OUTLET PORT PRESSURE

10 bar
(145 psi)
Note: Any outlet port pressure is directly additive to the set pressure

ORIFICE SIZE

Ø20.8mm
(Ø0.819")

FLUID

Liquids and Gases
See materials section

TEMPERATURE RANGE

See Product Selector opposite and Technical Data section

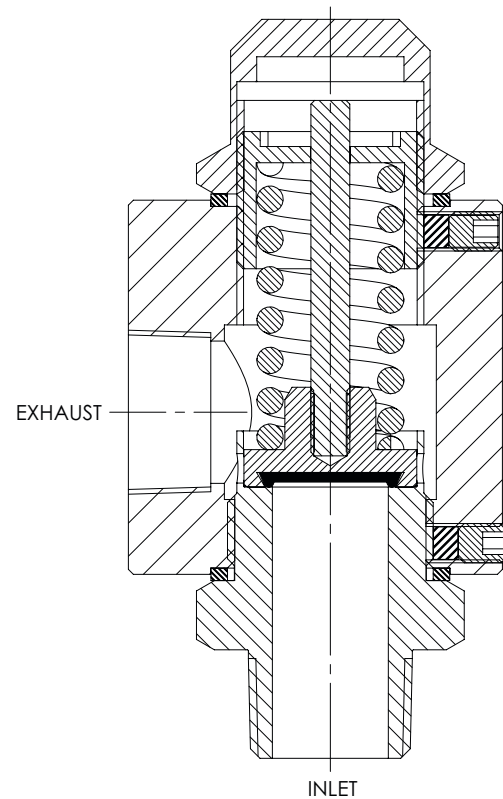
PORT SIZE

1"

WEIGHT

2.3kg
(5.0lb)

Specifications may change without notice



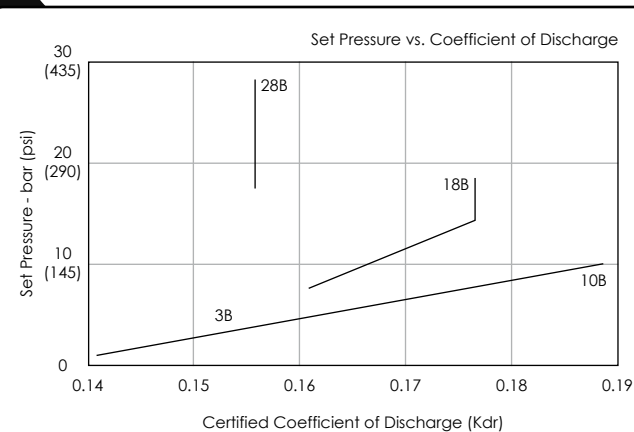
Materials

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

The standard valve is designed for use with air, nitrogen, sweet natural gas, mineral oil, water glycols and plain water, and may also be used with a wide variety of media compatible with the materials of construction. Other material options are available, contact us for advice. Note that use with water above 100°C is not recommended.

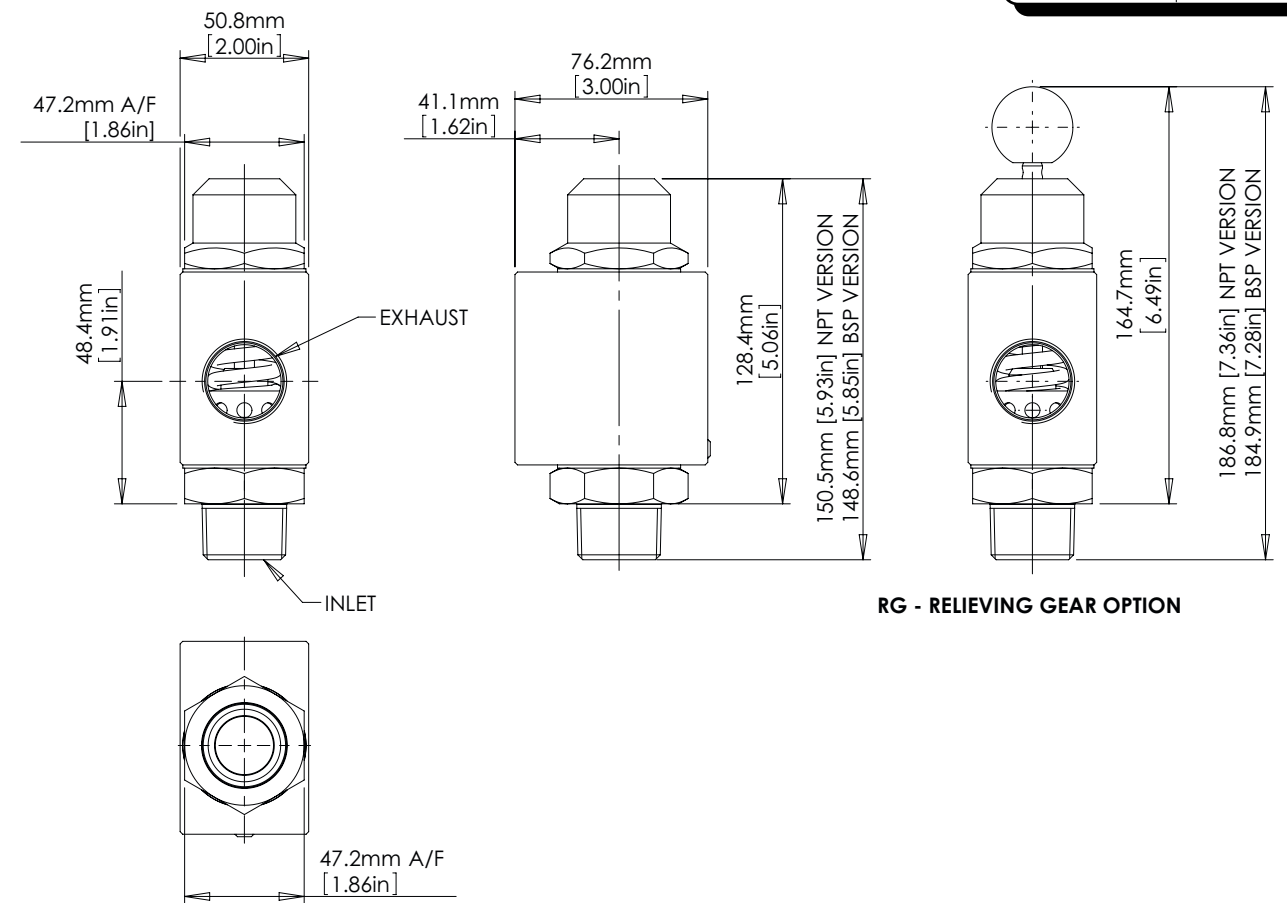
⚠ The standard valve has Viton® seals. Further seal options are available via the Product Selector. Compatibility with the working fluid at the operating temperature must be considered.

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

TS100 P - RG - NBR - 3B

VALVE TYPE	PORTING OPTIONS	VALVE OPTIONS	SEAL OPTIONS	SET PRESSURE RANGE
TS100	<p>P 1" BSPP male inlet 1" BSPP female exhaust</p> <p>N 1" NPT male inlet 1" NPT female exhaust</p>	<p>RG Relieving gear</p> <p><i>Leave blank if not required</i></p> <p><i>This option is not recommended for set pressures below 2 bar</i></p> <p>⚠ Exposure to high and low fluid temperatures will influence handle temperature. Operator safety must be considered</p>	<p>NBR Nitrile seals -30°C to +105°C</p> <p>EP EPDM seals -45°C to +150°C</p> <p><i>Leave blank for Viton® seals -10°C to +120°C</i></p> <p><i>Further seal options are available on request</i></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>28B 18 - 28 bar (261 - 406 psi)</p> <p><i>Advise us of set pressure if factory pre-setting is required</i></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



SOLENOID
FLOW CONTROL
3 PORT DIRECTIONAL CONTROL
4 PORT DIRECTIONAL CONTROL
CHECK AND SHUTTLE
PILOT OPERATED CHECK
RELIEF
EXCESS FLOW
FILTERS
PRESSURE SENSING
PUMPS
ACTUATORS
TECHNICAL DATA