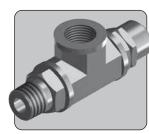
# SAFETY RELIEF VALVE

UP TO 40 BAR 580 PSI



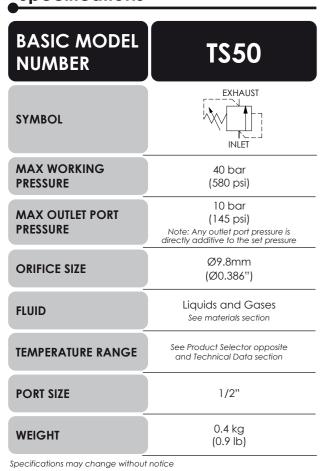
The TS50 is a safety relief valve with a threaded exhaust port for piping vented flow away from the valve.

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**



# **EXHAUST** INLET

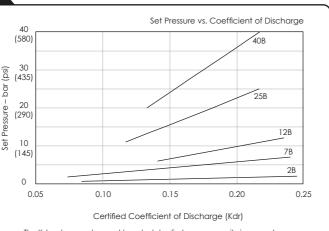
#### **Materials**

Externally Exposed Parts: 316 stainless steel and acetal. Internally Wetted Parts: 316 and 302 stainless steel, and acetal (Several other exotic material options available on request).

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 vith ISO 4126. We recommend contacting us with system details to confirm suitability

# **Installation Diagram**

**Product Selector** 

Repair and seal kits are

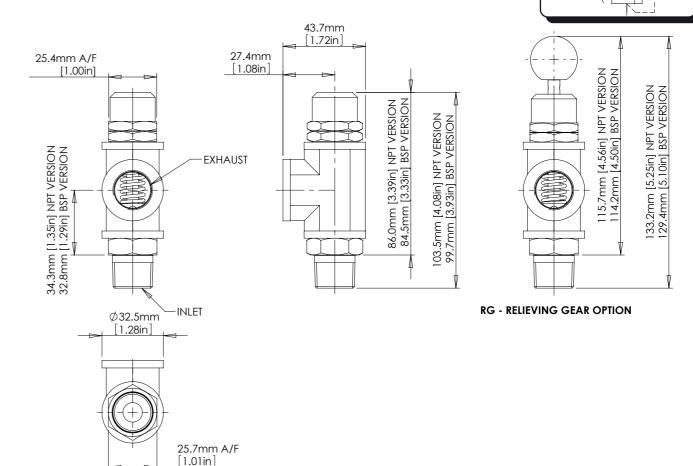
For a seal kit add SK at the

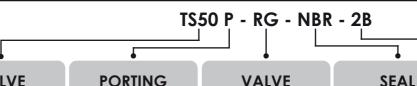
end of the model code and for a repair kit add RK

www.bisvalves.co.uk

CATALOGUE ALSO AVAILABLE ON CD

VISIT OUR WEBSITE FOR A FULL ONLINE SEARCH FACILITY





VALVE **PORTING** VALVE **TYPE OPTIONS OPTIONS** Leave blank if not required **TS50** RG 1/2" BSPP male inlet Relieving gear 1/2" BSPP female exhaust This option is not recommended with the 2B spring option 1/2" NPT male inlet 1/2" NPT female exhaust Exposure to high and low fluid temperatures will influence handle temperature Operator safety must be considered

**OPTIONS** Leave blank for Viton® seals -10°C to +120°C NBR

Nitrile seals -30°C to +105°C

EP EPDM seals -45°C to +150°C

> KLZ Kalrez® seals -25°C to +200°C

**HNBR** Hydrogenated Nitrile seals -20°C to +150°C

Further seal options are available on request

SET **PRESSURE RANGE** 

FLOW

3 PORT DIRECTIONAL CONTROL

4 PORT DIRECTIONAL CONTROL

CHECK AND SHUTTLE

EXCESS

FILTERS

**2B** 

0.7 - 2 bar (10 - 29 psi) **7B** 

2 - 7 bar (29 - 102 psi)

12B 6 - 12 bar (87 - 174 psi)

**25B** 11 - 25 bar (160 - 363 psi)

**40B** 20 - 40 bar

(290 - 580 psi) Advise us of set pressure if

factory pre-setting is required

The Specifier's Catalogue Page???

