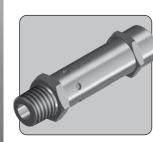
UP TO 40 BAR 580 PSI



The BS50 is a vent to atmosphere safety relief valve. Designed with an elastomeric seat seal the valve combines excellent leakage performance with a nigh discharge flow capacity from its pop-open characteristic.

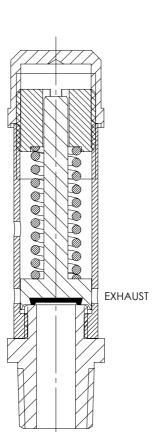
The valve is approved as a safety accessory to category IV of the Pressure Equipment

Directive, and is manufactured primarily from brass to offer cost effective pressure protection.

- 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

## **Specifications**

## **BASIC MODEL BS50 NUMBER** SYMBOL **MAX WORKING** 40 bar **PRESSURE** (580 psi) Ø9.8mm **ORIFICE SIZE** (Ø0.386") Liquids and Gases **FLUID** See materials section See Product Selector opposite **TEMPERATURE RANGE** and Technical Data section **PORT SIZE** 1/2" 0.25 kg WEIGHT (0.55 lb)



## **Materials**

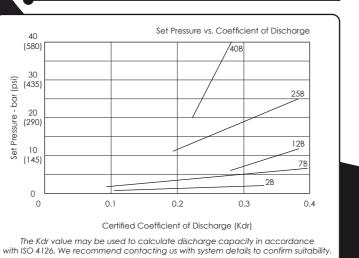
Externally Exposed and Internally Wetted Parts: Brass, 316 and 302 stainless steel.

**INLET** 

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 The standard valve rias villone seals, rother season available via the Product Selector. Compatibility with the working fluid at the operating temperature must be considered.

## Typical Performance



Installation Diagram



FLOW

3 PORT DIRECTIONAL CONTROL

4 PORT DIRECTIONAL CONTROL

CHECK AND SHUTTLE

PILOT OPERATED CHECK

EXCESS

SET

**RANGE** 

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)

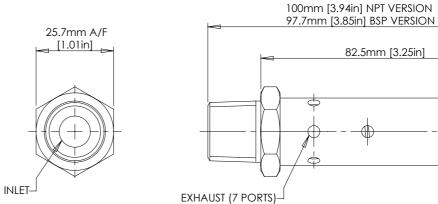
**40B** 

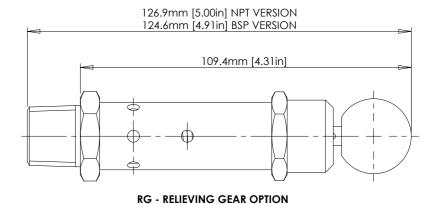
20 - 40 bar

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

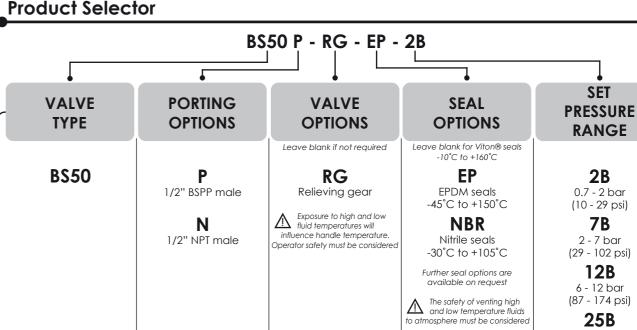
factory pre-setting is required

FILTERS











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

CATALOGUE ALSO AVAILABLE ON CD VISIT OUR WEBSITE FOR A FULL ONLINE SEARCH FACILITY www.bisvalves.co.uk

Specifications may change without notice