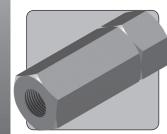
1/2"

UP TO 828 BAR 12,000 PSI



The NR50 is a 1/2" nominal bore check valve. It will allow flow in one direction, and blocks flow in the opposite direction. t may also be referred to as a non-return valve.

The valve uses sealed poppet technology to give virtually zero leakage with liquids and

- Check or Non-Return valve
- Stainless steel construction
- Sealed poppet design
- Virtually zero leakage
- Can be used subsea
- Suitable for liquid or gas
- Suitable for use with air, nitrogen, sweet natural gas, mineral oils, water glycols, water and sea water
- Suitable for many other media, contact us for advice
- NACE MR01-75 compliant version available
- High cracking pressure variants available, contact us for details
- Various seal options available
- Various porting options available

Specifications

BASIC MODEL NR50 NUMBER OUTLET SYMBOL **MAX WORKING** 828 bar PRESSURE (LIQUID) (12,000 psi) **MAX WORKING** 414 bar PRESSURE (GAS) (6,000 psi) 1.6 - 3.1 CV (FLOW CAPACITY) See Product Selector opposite Liquids and Gases **FLUID** See materials section See Product Selector opposite **TEMPERATURE RANGE** and Technical Data section **PORT SIZE** 1/2" 0.1 - 0.3 bar CRACKING PRESSURE (2 - 5 psi) 0.9 kg **WEIGHT** (2.0 lb)

INLET

Materials

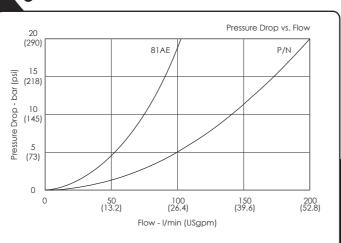
Externally Exposed Parts: 316 stainless steel. Internally Wetted Parts: 316 stainless steel with 302 stainless steel spring. The spring is inconel for SWD and NACE variants.

OUTLET

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.

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

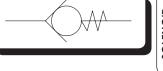
Typical Performance



Typical performance based on water

Installation Diagram





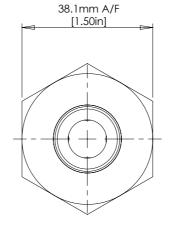
3 PORT DIRECTIONAL CONTROL

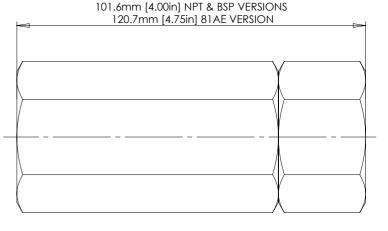
4 PORT DIRECTIONAL CONTROL

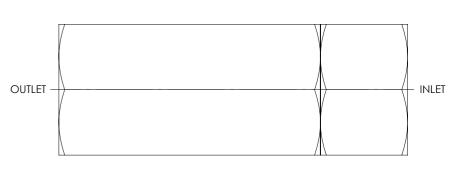
PILOT OPERATED CHECK

EXCESS

FILTERS







Product Selector

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

www.bisvalves.co.uk

Catalogue also available on digital media Visit our website for a full online search facility

NR50 P - NBR - SWD - 12K

VALVE **PORTING TYPE OPTIONS**

NR50 1/2" BSPP female 3.1CV

N 1/2" NPT female 3.1CV

-81AE 9/16" OD medium pressure tube port 1.6CV

SEAL **OPTIONS**

Leave blank for Viton® seals -10°C to +160°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

VALVE **OPTIONS**

Leave blank if not required

SWD Materials compatible with sea water

NACE Materials comply

12K 828 bar (12,000 psi) Liquid

414 bar with NACE MR01-75

(6,000 psi) Gas

MAX

WORKING

PRESSURE

The Specifier's Catalogue

ACTUATORS

Specifications may change without notice