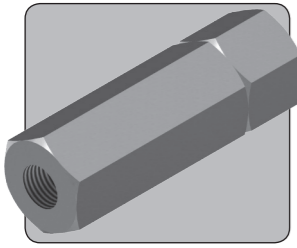


# NR25 -12K CHECK VALVE

**1/4" UP TO 828 BAR 12,000 PSI**



The NR25 is a 1/4" nominal bore check valve. It will allow flow in one direction, and blocks flow in the opposite direction. It may also be referred to as a non-return valve.

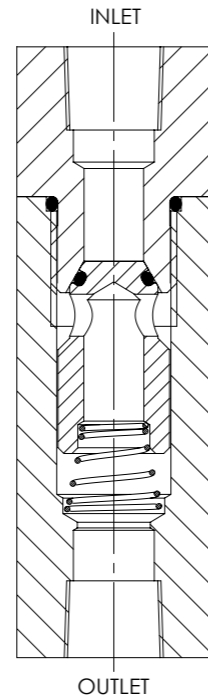
The valve uses sealed poppet technology to give virtually zero leakage with liquids and gases.

- 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

<b>BASIC MODEL NUMBER</b>	<b>NR25</b>
<b>SYMBOL</b>	
<b>MAX WORKING PRESSURE (LIQUID)</b>	828 bar (12,000 psi)
<b>MAX WORKING PRESSURE (GAS)</b>	414 bar (6,000 psi)
<b>CV (FLOW CAPACITY)</b>	0.2 - 1.0 <i>See Product Selector opposite</i>
<b>FLUID</b>	Liquids and Gases <i>See materials section</i>
<b>TEMPERATURE RANGE</b>	<i>See Product Selector opposite and Technical Data section</i>
<b>PORT SIZE</b>	1/4"
<b>CRACKING PRESSURE</b>	0.1 - 0.3 bar (2 - 5 psi)
<b>WEIGHT</b>	0.3 kg (0.7 lb)

Specifications may change without notice



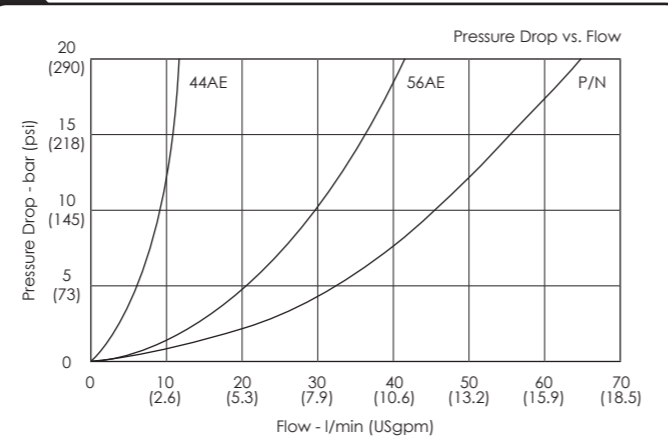
## Materials

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

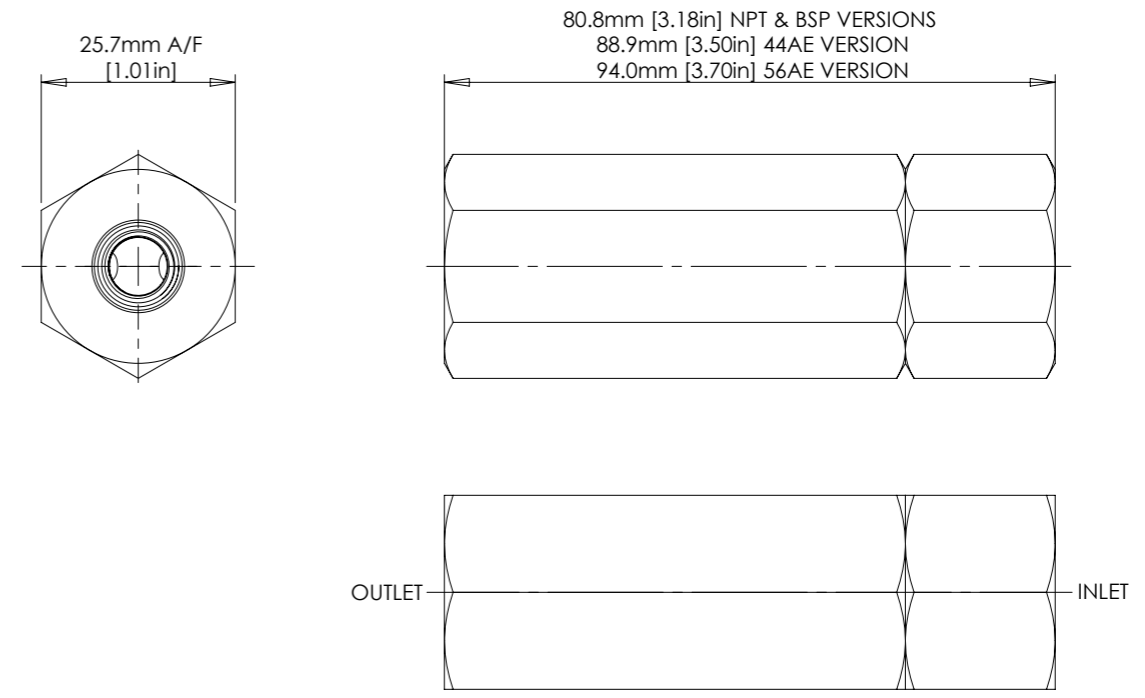
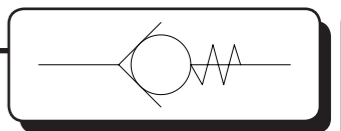
The standard valve is designed for use with air, nitrogen, sweet natural gas, mineral oil, water glycols and plain water, and may also be used with a wide variety of media compatible with the materials of construction.

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

## Typical Performance



## Installation Diagram



## Product Selector

NR25 P - NBR - SWD - 12K				
VALVE TYPE	PORTING OPTIONS	SEAL OPTIONS	VALVE OPTIONS	MAX WORKING PRESSURE
<b>NR25</b>	<b>P</b> 1/4" BSPP female 1.0CV  <b>N</b> 1/4" NPT female 1.0CV  <b>-44AE</b> 1/4" OD medium pressure tube port 0.2CV  <b>-56AE</b> 3/8" OD medium pressure tube port 0.65CV	Leave blank for Viton® seals -10°C to +160°C  <b>NBR</b> Nitrile seals -30°C to +105°C  <b>EP</b> EPDM seals -45°C to +150°C  <b>KLZ</b> Kalrez® seals -25°C to +200°C  <b>HNBR</b> Hydrogenated Nitrile seals -20°C to +150°C  Further seal options are available on request	Leave blank if not required  <b>SWD</b> Materials compatible with sea water  <b>NACE</b> Materials comply with NACE MR01-75	<b>12K</b> 828 bar (12,000 psi) Liquid  414 bar (6,000 psi) Gas



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[www.bisvalves.co.uk](http://www.bisvalves.co.uk)

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