



NRS1 & NRS2 - HIGH-PRESSURE NON RETURN VALVES

Spring Loaded Non-return or
Check Valves for Gases or Liquids
1/4" & 1/2" (DN8 & DN15)



YOUR CREATIVE ENGINEERING PARTNER

NRS1 & NRS2 - HIGH-PRESSURE NON RETURN VALVES

Spring Loaded Non-return or Check Valves for Gases or Liquids

The NRS1 and NRS2 are non return or check valves which prevent reverse flow in high pressure systems. The NRS type are spring loaded to ensure shut off in any orientation and feature an elastomeric seal. Valves are designed to ensure minimum restriction on flow rate.

NRS1



NRS2



HIGHLIGHTS

- > Proven in use in a multitude of industrial applications Worldwide
- > Versions for Industrial gases, liquids and Oxygen
- > Soft and hard seated (NR type) variants

IDEAL USES

- > Control panels
- > Instrument air systems
- > Process systems

Maximum Working Pressure

414 barg
(6,000 psig)

Temperature Range

-20°C to
+70°C

CV - NRS 1

0.6

CV - NRS 2

2.9

FEATURES AND SPECIFICATIONS

1. Inlet Port – Direct Mounting Type

- > G3/8 female (other ports such as NPT are available)

2. Simple One Piece Design

- > For high reliability



PRODUCT SPECIFICATION DATA	NRS1	NRS2
Nominal Bore	6 mm	12mm
Inlet & Outlet Ports	G1/4	G1/2
Max. Working Pressure*	414 barg (6,000 psig)	414 barg (6,000 psig)
Flow Factor (Cv)	0.6	2.9
Weight	< 0.2kg	< 0.4kg
Temperature Range	-20 to +70°C	-20 to +70°C

*See page 4 for working pressure details for individual products.

OTHER OPTIONS

> MATERIALS

Suitable combinations of materials can be supplied for various applications such as Oxygen service, marine or petrochemical (NACE).

> CERTIFICATION

Variants are available and approved for use with Oxygen, for medical Oxygen services.

STANDARD MATERIALS

> BODY

Nickel Aluminium Bronze, Brass, Monel or Inconel.

> SPINDLE

Stainless Steel or Phosphor Bronze.

> O RINGS

Nitrile, EPDM or Viton.

PRODUCT ORDERING & DIMENSIONS (IN MM)

STANDARD OPTION TYPES	ORDERING CODE
NRS1 - G1/4" Female Connections for Inert Gases	NRS1-STD20-P1NAB00
NRS2 - G1/2" Female Connections for Inert Gas or Liquids	ND17758
NRS2- G1/2" Female connections for Oxygen Service, 276 barg (4,000 Psig)	NRS2-SPE40-P1NAB00
NRS2- G1/2" Female connections for Oxygen Service, 320 barg (4,640 Psig)	NC52876
NRS2 - G1/2" Female Connections for Inert Gas or liquids (PTFE sealing ring)	NRS2-STD40-P1NAB00

PRODUCT ORDERING INFORMATION

When placing an enquiry please advise the following:

- > Valve Size
- > Lift Pressure
- > Maximum Working Pressure
- > Flow Medium
- > Port Configuration
- > Operating and Storage Temperature Ranges
- > Certification and QA Requirements

