

NON-RETURN VALVE STAINLESS STEEL

800-ES



WITT non-return valves for reliable protection against dangerous reverse gas flow. Every non-return valve 100% tested.

Benefits

- a spring loaded non-return valve prevents back feeding of gases which could lead to unwanted gas mixtures
- no leaks – using of a spring loaded valve assembly with elastomer sealing, opening pressure approx. 2 bar
- diverse applications – useful for many technical gases

Operation / Usage

- non-return valves are used to protect equipment and pipelines against dangerous reverse gas flow
- ideal for use with corrosive gases in the chemical industry, process technology or in the laboratory area
- WITT non-return valves may be mounted in any position /orientation
- the maximum ambient / working temperature is 150 °C / 302 F° (max. 60 °C / 140 °F at oxygen)

Maintenance

- annual testing of the non-return valve and body leak tightness is recommended
- non-return valves are only to be serviced by the manufacturer



Approvals

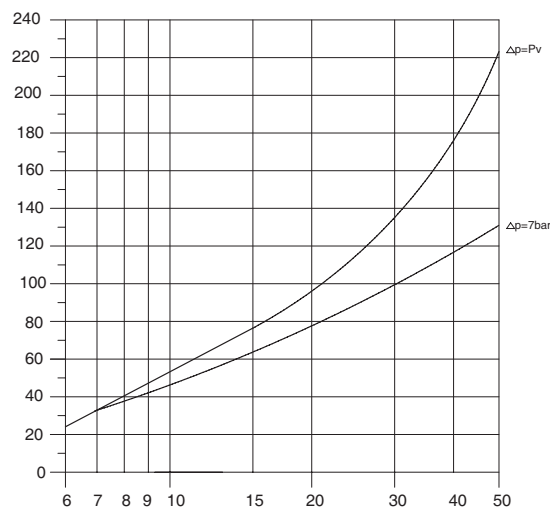
Company certified according to ISO 9001 and PED 97/23/EC Module H
 CE-marked according to:
 - PED 97/23/EC
 Cleaned for Oxygen Service according to:
 - EIGA IGC Doc 13/12/E: Oxygen Pipeline and Piping Systems

Model	Gas	max. working pressure [bar]	Housing-Material	Seal-Material	Weight [g]	Connection [inch]	Order-No.
800-ES	Burn out test for Oxygen (O) at 60 °C gas temperature	240	Stainless steel	Elastomer	730	1/4" NPT	311-002
	Argon (Ar) Compressed air (D) Nitrogen (N) Hydrogen (H) Methane, Natural gas (M)	300					

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Flow diagram for air (20 °C / 68 °F)

- Conversion factors:
- Argon x 1.27
 - Natural gas x 1.25
 - Methane x 1.33
 - Oxygen x 0.95
 - Nitrogen x 1.00
 - Hydrogen x 3.75



Standard volume flow [Nm³/h]
 (1013 mbar / 14.7 psi, 0 °C / 32 °F)

Inlet pressure: P_V [bar] Opening pressure: 2 bar

Other connections available upon request