

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 2014/68/EU Module H

CE-marked according to:

- PED 2014/68/EU

Designed for Oxygen Service in accordance with EIGA 13/20 and CGA G-4.4: Oxygen Pipeline and Piping Systems

Cleaned for Oxygen Service in accordance with EIGA 33/18 and CGA G-4.1: Cleaning of Equipment for Oxygen Service

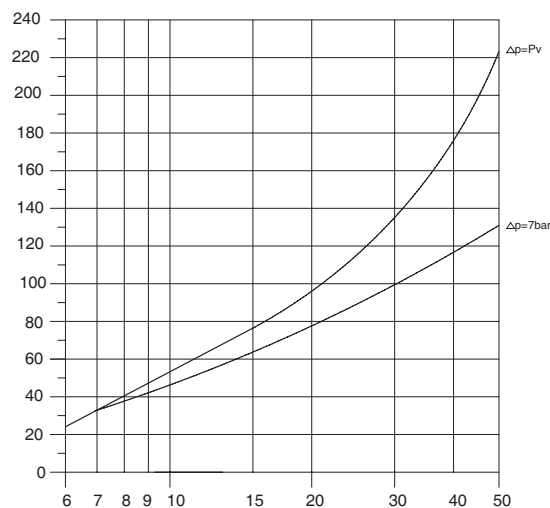
Model	Gas	max. working pressure [bar]	Housing-Material	Seal-Material	Weight [g]	Connection [inch]	Order-No.
800-ES	Burn out test for Oxygen (O) at 60 °C gas temperature	240	Stainless steel	Elastomer	730	1/4" NPT	311-002
	Argon (Ar) Compressed air (D) Nitrogen (N) Hydrogen (H) Methane, Natural gas (M)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

800-ES

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