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
Cleaned for Oxygen Service according to:
- EIGA IGC Doc 13/12/E: Oxygen Pipeline and Piping Systems

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800-ES | Burn out test for Oxygen (O) at 60 °C gas temperature | 240 | Stainless steel | Elastomer | 730 | 1/4” NPT | 311-002
800-ES | Argon (Ar)                   | 300 | Stainless steel | Elastomer | 730 | 1/4” NPT | 311-002
800-ES | Compressed air (D)           |                  |                  |                  |            |            |            
800-ES | Nitrogen (N)                 |                  |                  |                  |            |            |            
800-ES | Hydrogen (H)                 |                  |                  |                  |            |            |            
800-ES | Methane, Natural gas (M)     |                  |                  |                  |            |            |            

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

Other connections available upon request

Inlet pressure: \( P_v \) [bar] Opening pressure: 2 bar

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