NON-RETURN VALVES NV800 / NV2000

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
- Low pressure drops – using complex valve assembly with low opening pressures, NV800 approx. 6 - 8 mbar, NV2000 approx. 5 mbar
- No leaks – using of a spring loaded valve assembly with elastomer sealing
- Stainless steel filter (100 µm) in the gas inlet protects the non-return valve against dirt contamination, extending the service life
- Diverse applications – useful for many technical gases
- Reduce installation costs – the spring loaded valve is not affected by gravity and may be installed in any orientation (NV800 only)

Operation / Usage
- Non-return valves are used to protect equipment and pipelines against dangerous reverse gas flow. Use is possible for applications according to EN 746-2
- The NV800 non-return valves are tested to DIN EN ISO 5175-2. They may also be used as a safety device to protect against flashbacks (proved in accordance to DIN EN ISO 5175-1 point 6.7) from combustion natural gas with air
- The NV2000 may be mounted vertical in bottom-up flow direction
- The maximum ambient / working temperature is 70 °C / 158 °F

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

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<td>NV800</td>
<td>Town gas (C), Natural gas (M) and LPG (P) Oxygen (O) Compressed air (D) Non-flammable gases</td>
<td>10 flame-arresting at combustion of Natural gas with air 8 bar</td>
<td>Steel / Elastomer</td>
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Other connections available upon request
NON-RETURN VALVES NV800 / NV2000

NV800

Flow diagram for air (20 °C / 68 °F)

Conversion factors:
- Butane: x 0.68
- Natural Gas: x 1.25
- Methane: x 1.33
- Propane: x 0.80
- Oxygen: x 0.95
- Town gas: x 1.54
- Hydrogen: x 3.75

NV2000

Flow diagram for air (20 °C / 68 °F)

Conversion factors:
- Butane: x 0.68
- Natural Gas: x 1.25
- Methane: x 1.33
- Propane: x 0.80
- Oxygen: x 0.95
- Town gas: x 1.54
- Hydrogen: x 3.75

Flow diagram for air (20 °C / 68 °F)

Inlet pressure: \( P_v \) [bar]

Inlet pressure: \( P_v \) [bar] Opening pressure: 5 mbar