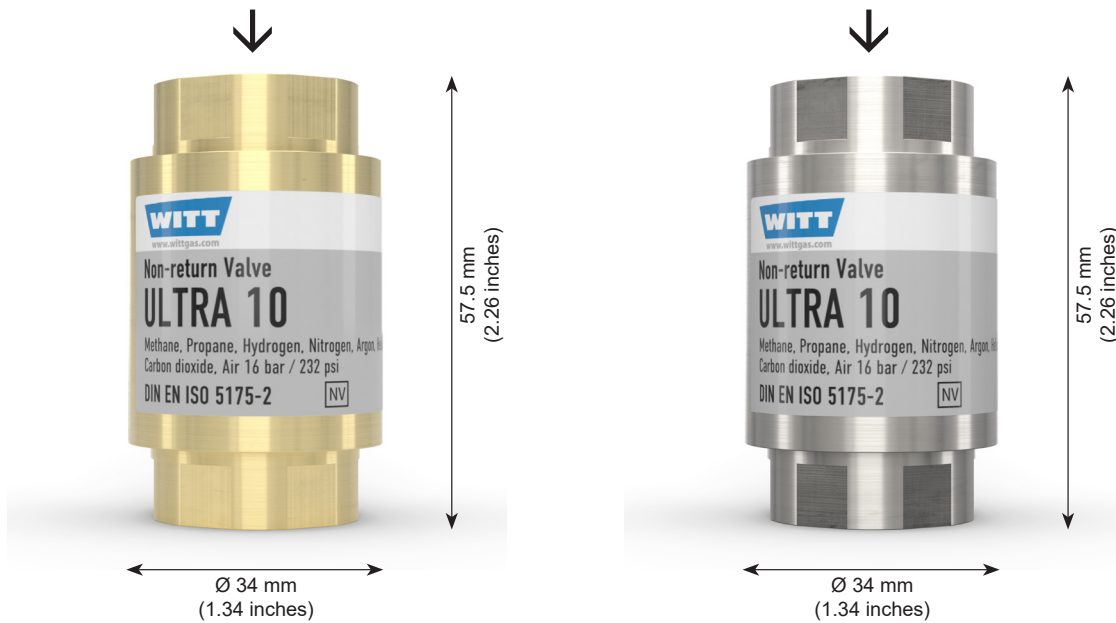


NON-RETURN VALVE ULTRA 10



WITT non-return valves for reliable protection against dangerous reverse gas flow. Flow-optimised valve system causes very low pressure drop at minimal noise emission. 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 drop – using complex valve assembly with low opening pressures (ca. 4 mbar)
- stainless steel filter (100 µm) in the gas inlet protects the non-return valve against dirt contamination, extending the service life
- flow-optimised valve system for:
 - ultra low pressure drop
 - minimal noise emission
- no leaks – using of a spring loaded valve assembly with elastomer sealing
- in accordance to DIN EN ISO 5175-2
- available in brass or stainless steel
- 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

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
- WITT non-return valves may be mounted in any position / orientation
- in ambient temperatures above -20 °C / 68 °F and below +70 °C / 158 °F

Maintenance

- annual testing of the non-return valve and body leak tightness is recommended
- WITT is happy to supply special test equipment
- non-return valves are only to be serviced by the manufacturer

Approvals

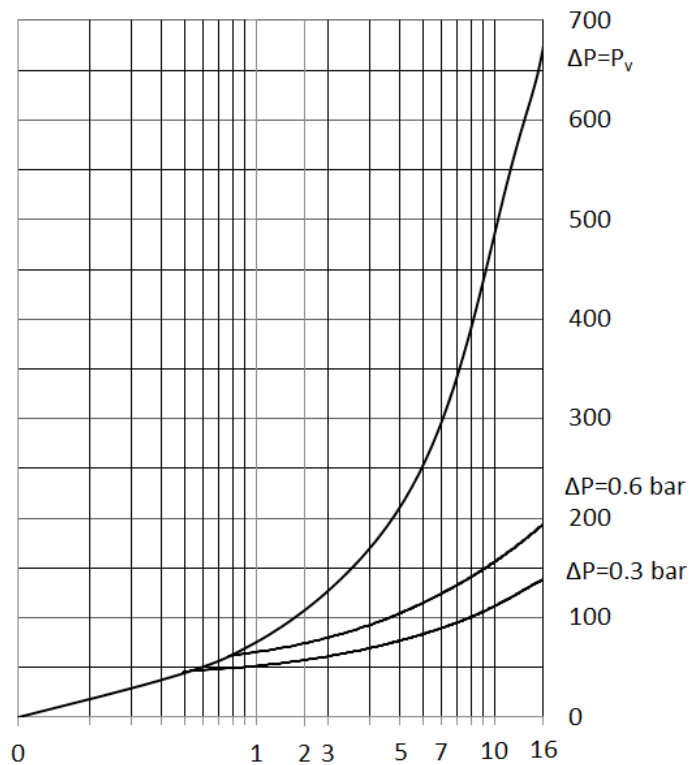
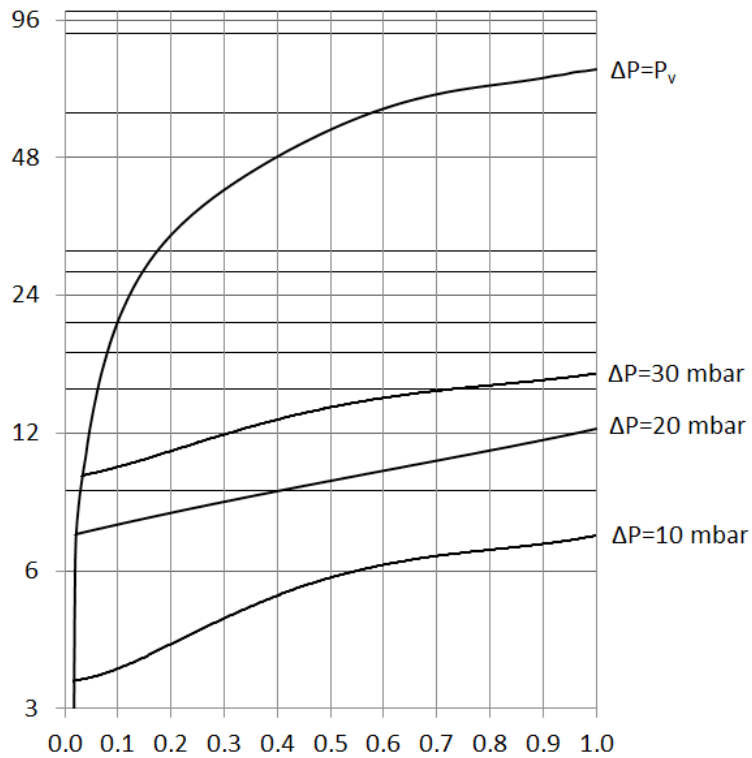
Company certified according to ISO 9001
 Designed for Oxygen Service in accordance with EIGA 13/20 and CGA G-4.4: Oxygen Pipeline and Piping Systems
 Cleaned for Oxygen Service in accordance with EIGA 33/18 and CGA G-4.1: Cleaning of Equipment for Oxygen Service

| Model | Max. working pressure [bar] | Filter 100 µm | Material | | | | Connection [inch] | Order-No. |
|----------|-----------------------------|---------------|----------|-------|---|-------|-------------------|-----------|
| | | | Seals | | Housing | Valve | | |
| | | | O-Ring | Valve | | | | |
| ULTRA 10 | 16.0 | ✓ | NBR | CR | Brass 2.0401 CuZn39Pb3 | PEEK | G 1/2 | 034-003 |
| | | | | | 1/2" NPT | | 034-007 | |
| | | ✓ | NBR | CR | Stainless steel 1.4305 X8 CrNiS 18-9 AISI 303 | PEEK | G 1/2 | 034-004 |
| | | | | | 1/2" NPT | | 034-008 | |

Other gases and connections available upon request

ULTRA 10

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 |

————— Inlet pressure: P_v [bar] Opening pressure: 4 mbar —————>

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

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(1013 mbar / 14.7 psi, 0 °C / 32 °F)