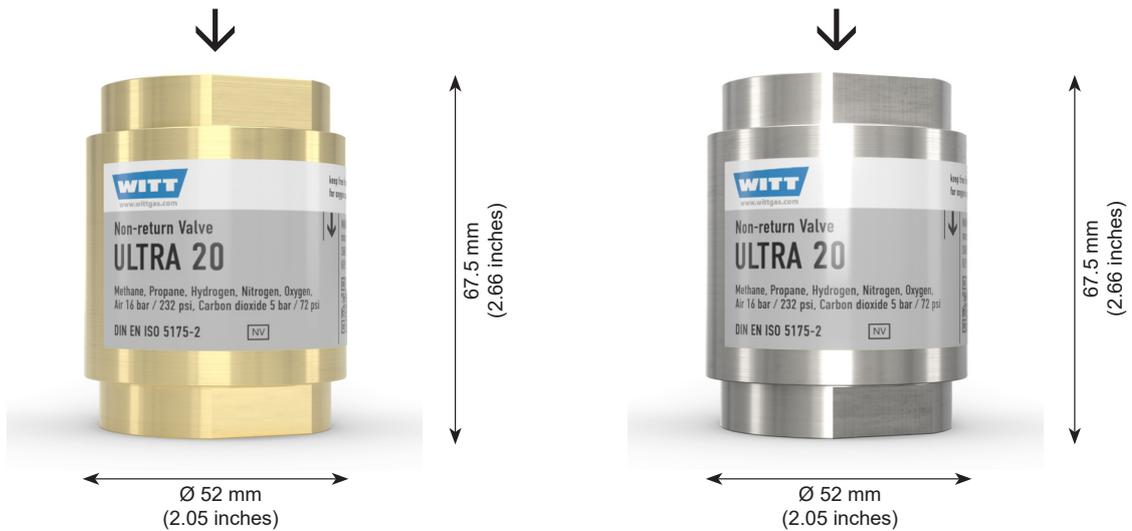


# NON-RETURN VALVE ULTRA 20



**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
- the same size as model NV200 for easy replacement

### 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 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    | Max. working pressure [bar] | Filter 100 µm | Material |       |  | Connection [inch] | Order-No. |         |
|----------|-----------------------------|---------------|----------|-------|--|-------------------|-----------|---------|
|          |                             |               | O-Ring   | Valve | Housing  |                   |           |         |
| ULTRA 20 | 16.0                        | ✓             | NBR      | CR    | Brass<br>2.0401<br>CuZn39Pb3                           | PEEK              | G 1/2     | 036-022 |
|          |                             |               |          |       |  |                   | G 3/4     | 036-014 |
|          |                             |               |          |       |  |                   | G 1       | 036-015 |
|          |                             |               |          |       |  |                   | 1/2" NPT  | 036-024 |
|          |                             |               |          |       |  |                   | 3/4" NPT  | 036-020 |
|          |                             | ✓             | NBR      | CR    | Stainless steel<br>1.4305<br>X8 CrNiS 18-9<br>AISI 303 | PEEK              | 1" NPT    | 036-021 |
|          |                             |               |          |       |  |                   | G 1/2     | 036-023 |
|          |                             |               |          |       |  |                   | G 3/4     | 036-016 |
|          |                             |               |          |       |  |                   | G 1       | 036-017 |
|          |                             |               |          |       |  |                   | 1/2" NPT  | 036-025 |
| 3/4" NPT | 036-018                     |               |          |       |  |                   |           |         |
| 1" NPT   | 036-019                     |               |          |       |  |                   |           |         |

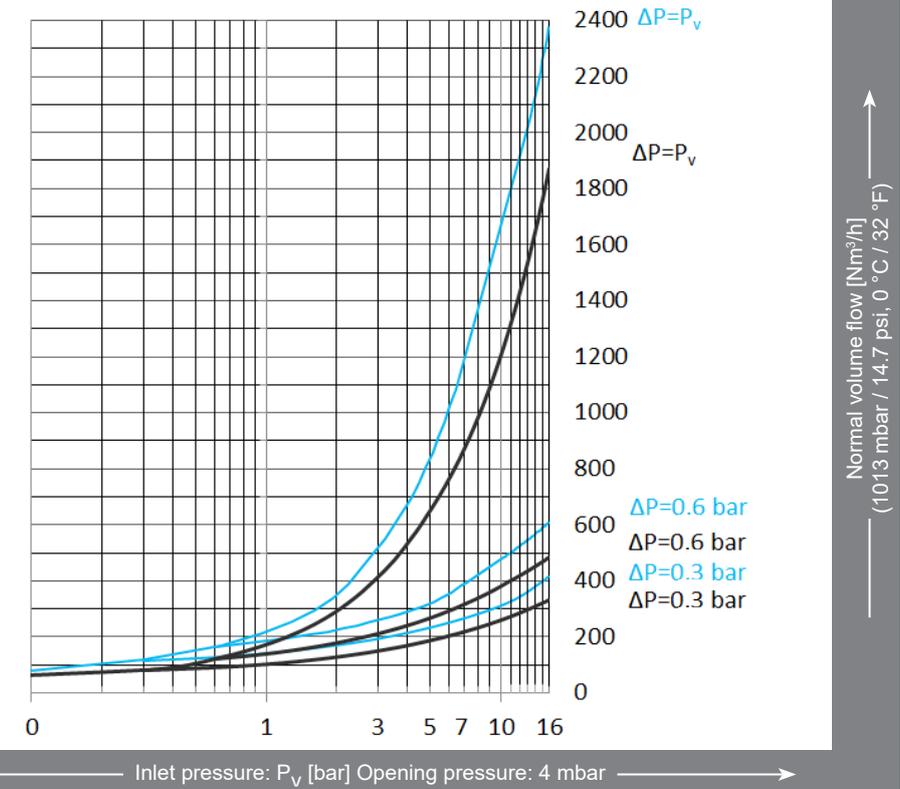
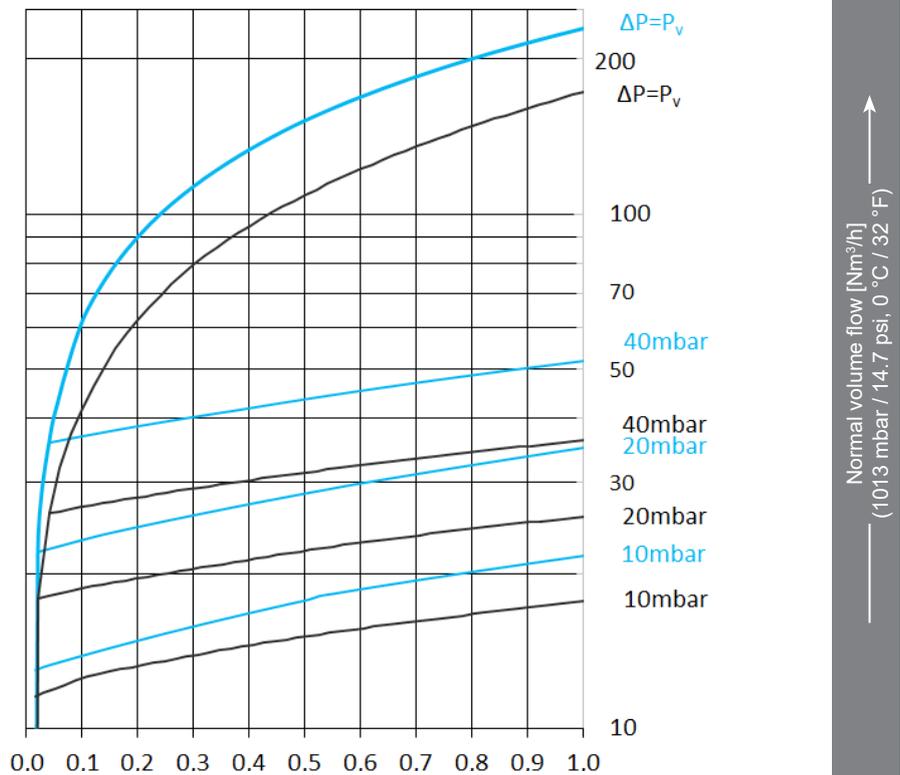
Other gases and connections available upon request

# NON-RETURN VALVE ULTRA 20



## Comparison NV200 / ULTRA 20

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 |

GRS12 USA - F02/3F subject to change