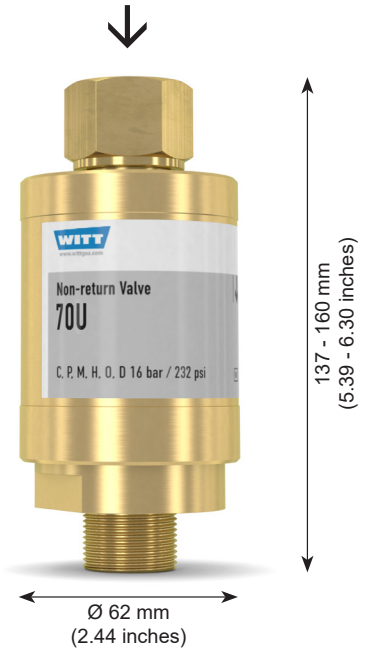
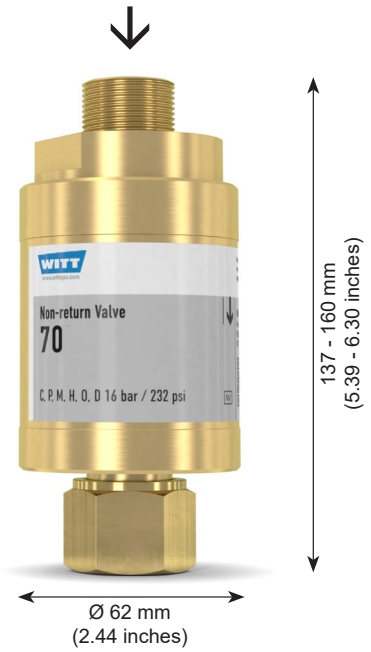
# NON-RETURN VALVES 70 / 70U

www.wittgas.com

**70U**




**70**




**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 (approx. 4 mbar)
- brass filter protects the non-return valve against flash-backs, 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

### 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
- non-return valves are tested to DIN EN ISO 5175-2. They may also 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/ LPG with air
- the maximum ambient / working temperature is 70 °C / 158 °F

### Maintenance

- annual testing of the non-return valve, body leak tightness and flow capacity 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] | Material | Weight [g] | Length [mm] | Connection [inch] | Order-No. |
|---|---|---|---|---|---|---|
| **70** | Town gas (C), Natural gas (M) and LPG (P), Hydrogen (H), 16.0 Oxygen (O), Compressed air (D) non-flammable gases | Brass Elastomer Bronze | 1 255<br>1 414<br>1 590<br>1 679 | 137<br>146<br>149<br>160 | G 3/4<br>G 1<br>G 1.1/4<br>G 1.1/2 | 123-009<br>123-012<br>123-014<br>123-015 |
| **70U** | Flashback resistant to DIN EN ISO 5175-1 combustion with air<br>LPG (P) 0.5<br>Natural gas (M) 4.0 | | 1 256<br>1 398<br>1 558<br>1 679 | 137<br>146<br>149<br>160 | G 3/4<br>G 1<br>G 1.1/4<br>G 1.1/2 | 123-016<br>123-018<br>123-056<br>123-045 |

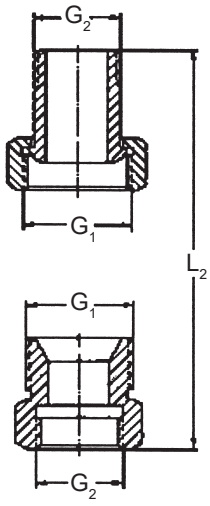
Other connections available upon request



WITT Gas Controls LP, 3080 Northfield Place, Suite 111, Roswell, GA 30076, Tel. +1 770-664-4447, Fax +1 770-664-4448
witt-usa@wittgas.com www.wittgas.us

# NON-RETURN VALVES 70 / 70U

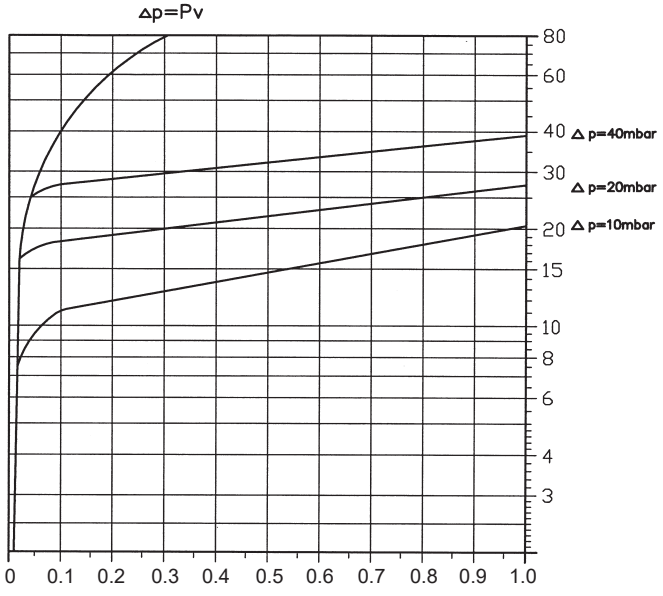
www.wittgas.com




## Cone connection for installation of pipeline
## Model 70/70U

| Connection EN 560 $G_1$ [inch] | Connection EN 560 $G_2$ [inch] | Installation dimension with non-return valve $L_2$ [mm] | Order-No. |
|---|---|---|---|
| G 3/4 RH | G 1/2 RH | 186 | 043000000 |
| G 1 RH | G 3/4 RH | 202 | 043000100 |
| G 1.1/4 RH | G 1 RH | 208 | 043000200 |
| G 1.1/2 RH | G 1.1/4 RH | 224 | 043000300 |

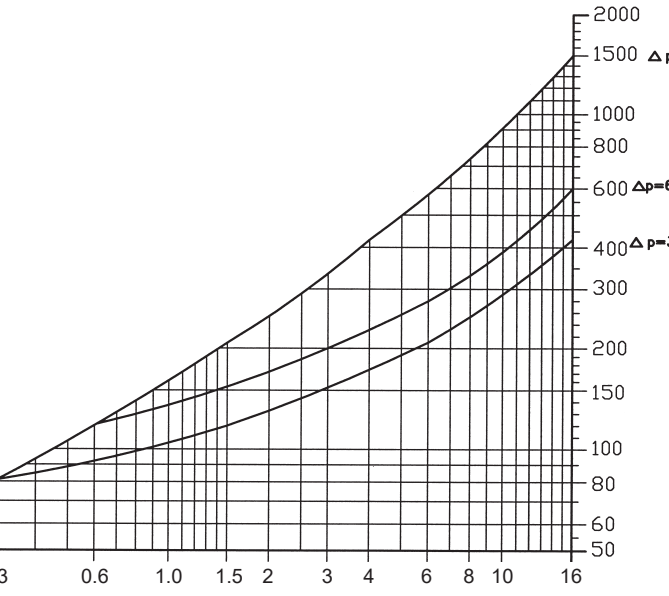
Flow diagram for air (20 °C / 68 °F




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




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 |