

**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 flashbacks, 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 EN 730-2. They may also be used as a safety device to protect against flashbacks (proved in accordance to EN 730-1 point 6.7) from combustion natural gas/ LPG with air
- the maximum ambient / working temperature is 70 °C / 158 °F

### Maintenance

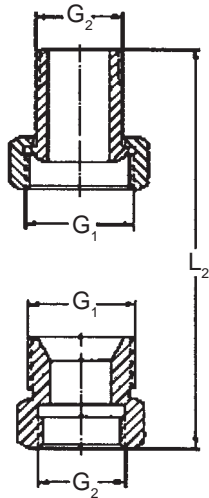
- annual testing of the non-return valve, body leak tightness and flow capacity is recommended
- WITT is happy to supply special test equipment
- non-return valves are only to be serviced by the manufacturer

### Approvals

Company certified according to ISO 9001 and PED 97/23/EG Module H  
CE-marked according to:  
- PED 97/23/EC

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), Oxygen (O), Compressed air (D) non-flammable gases 16.0	Brass Elastomer	1,255	137	G 3/4	123-009
			1,414	146	G 1	123-012
			1,590	149	G 1.1/4	123-014
			1,679	160	G 1.1/2	123-015
			1,256	137	G 3/4	123-016
70U	Flashback resistant to EN 730-1 combustion with air LPG (P) Natural gas (M) 0.5 4.0	Bronze	1,398	146	G 1	123-018
			1,558	149	G 1.1/4	123-056
			1,679	160	G 1.1/2	123-045

Other connections available upon request



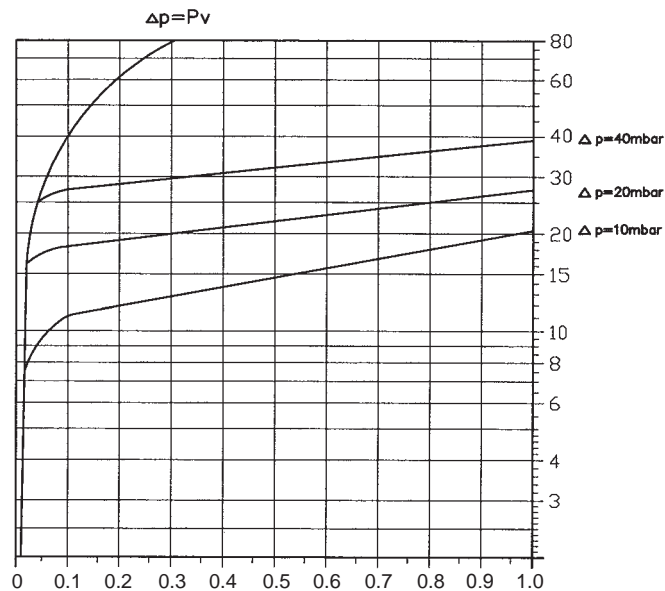
## Cone connection for installation of pipeline Model 70/70U

Connection EN 560 G <sub>1</sub> [inch]	Connection EN 560 G <sub>2</sub> [inch]	Installation dimension with non-return valve L <sub>2</sub> [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

### 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

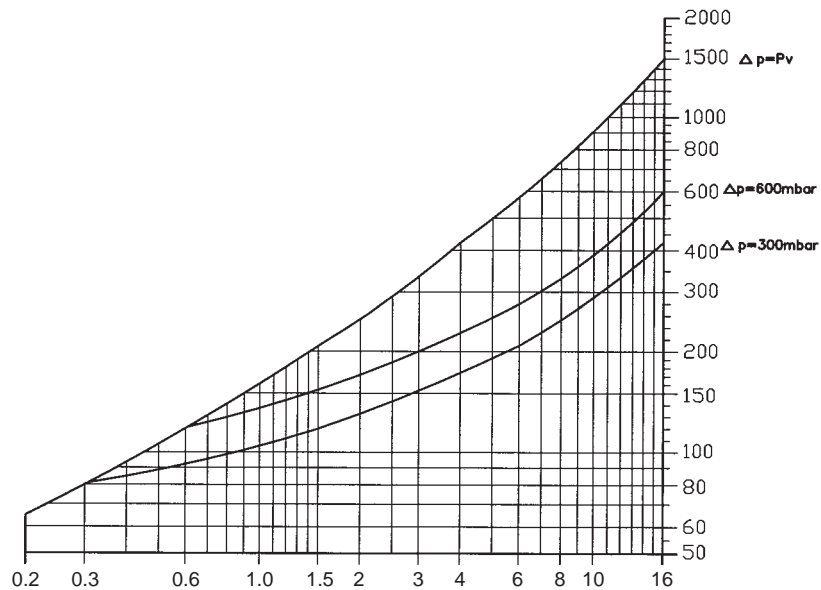
Flow diagram for air (20 °C / 68 °F)



Standard volume flow [Nm<sup>3</sup>/h]  
(1013 mbar / 14.7 psi, 0 °C / 32 °F)

Inlet pressure: P<sub>v</sub> [bar] Opening pressure: 4 mbar

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