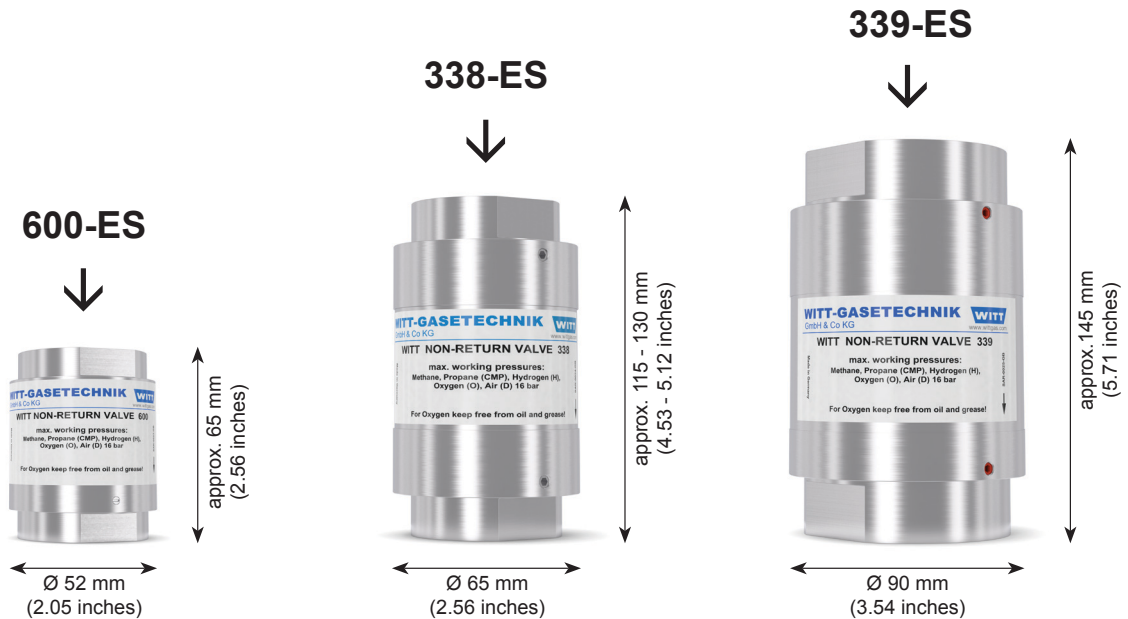


# NON-RETURN VALVES STAINLESS STEEL

## 600-ES / 338-ES / 339-ES



**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
- 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

### 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
- ideal for use with corrosive gases in the chemical industry, process technology or in the laboratory area

- WITT non-return valves may be mounted in any position / orientation
- the maximum ambient / working temperature is 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. The dirt filter may be replaced according to model by competent staff

### Approvals

Company certified according to ISO 9001 and PED 2014/68/EU Module H

CE-marked according to:

- PED 2014/68/EU

Cleaned for Oxygen Service according to:

- EIGA IGC Doc 13/12/E: Oxygen Pipeline and Piping Systems

Model	Max. working pressure [bar]	Material	Weight [g]	Connection [inch]	Order No.
600-ES	Town gas (C) Natural gas (M) LPG (P)	16	681	G 1/2	037-017
			615	G 3/4	037-033
			540	G 1	037-018
338-ES	Hydrogen (H) Oxygen (O) Compressed air (D)	Stainless steel Elastomer	1 500	G 1	038-064
			2 665	G 1.1/2	038-014
339-ES	corrosive and non-flammable gases		2 633	G 2	038-022

Other connections available upon request

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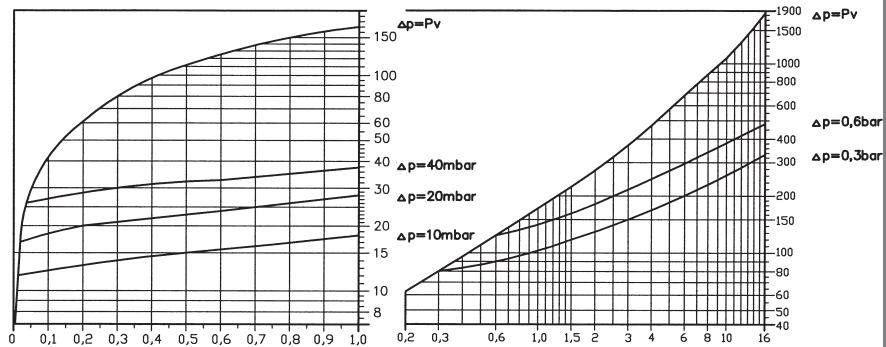


### 600-ES

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



Standard volume flow  $[\text{Nm}^3/\text{h}]$   
(1013 mbar / 14.7 psi, 0 °C / 32 °F)

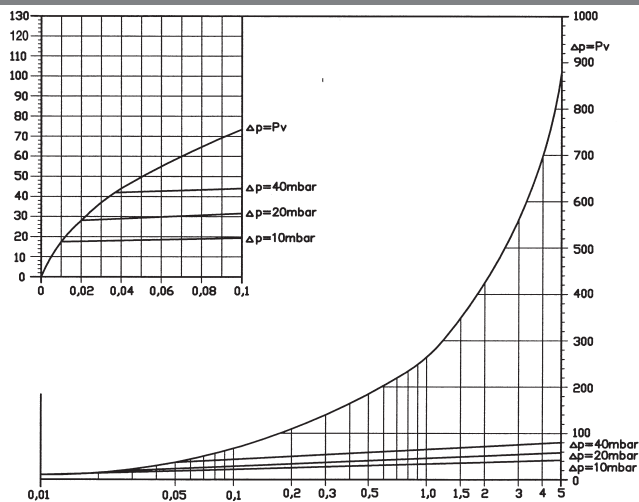
Inlet pressure:  $P_V$  [bar] Opening pressure: 4 mbar

### 338-ES

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



Standard volume flow  $[\text{Nm}^3/\text{h}]$   
(1013 mbar / 14.7 psi, 0 °C / 32 °F)

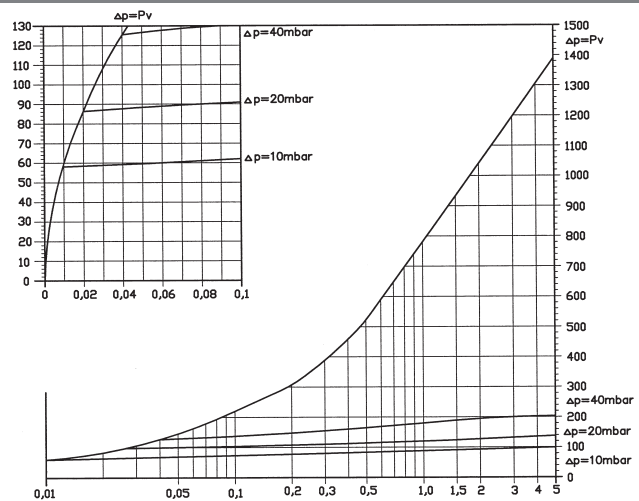
Inlet pressure:  $P_V$  [bar] Opening pressure: 6 mbar

### 339-ES

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



Standard volume flow  $[\text{Nm}^3/\text{h}]$   
(1013 mbar / 14.7 psi, 0 °C / 32 °F)

Inlet pressure:  $P_V$  [bar] Opening pressure: 5 mbar