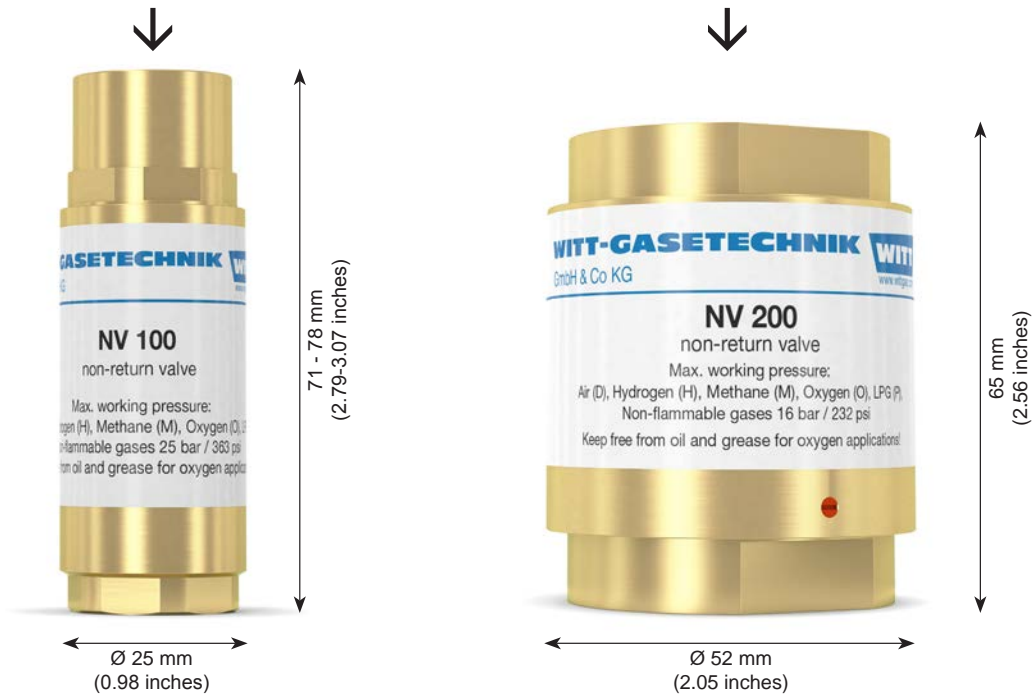


NON-RETURN VALVES NV100 / NV200



NEW – with smart-option

See page 3



WITT non-return valves for reliable protection against dangerous reverse gas flow. Every non-return valve 100% tested.

The best non-return valves in the world

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 (Model NV200 – approx. 4 mbar, Model NV100 – approx. 30 mbar)
- no leaks – using of a spring loaded valve assembly with elastomer sealing
- stainless steel filter (100 µm – only Model NV200) in the gas inlet protects the non-return valve against dirt contamination, 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

- 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 by competent staff (only NV200, G 1)

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]	Housing-Material	Seal-Material	Weight [g]	Connection [inch]	Order-No.
NV100	Town gas (C), Natural gas (M), LPG (P), Hydrogen (H), Oxygen (O), Compressed air (D) non-flammable gases	Brass	Elastomer	190	G 1/8	100145-001
					G 1/4	100145-002
					G 3/8	100145-003
NV200	(Model NV100) 25 (Model NV200) 16	Brass	Elastomer	745	G 1/2	200037-008
				686	G 3/4	200037-009
				589	G 1	200037-010

Other connections available upon request

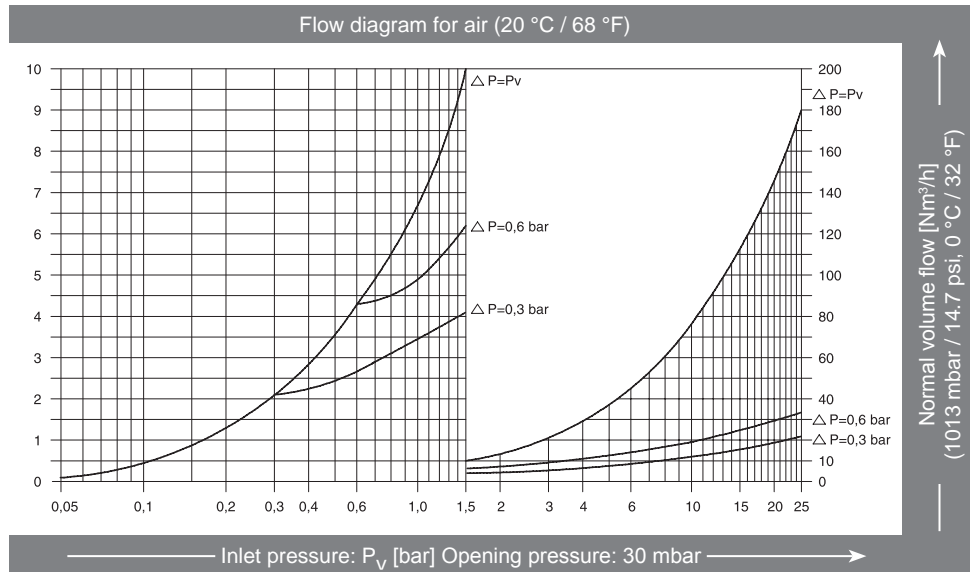
NON-RETURN VALVES NV100 / NV200



NV100

Conversion factors:

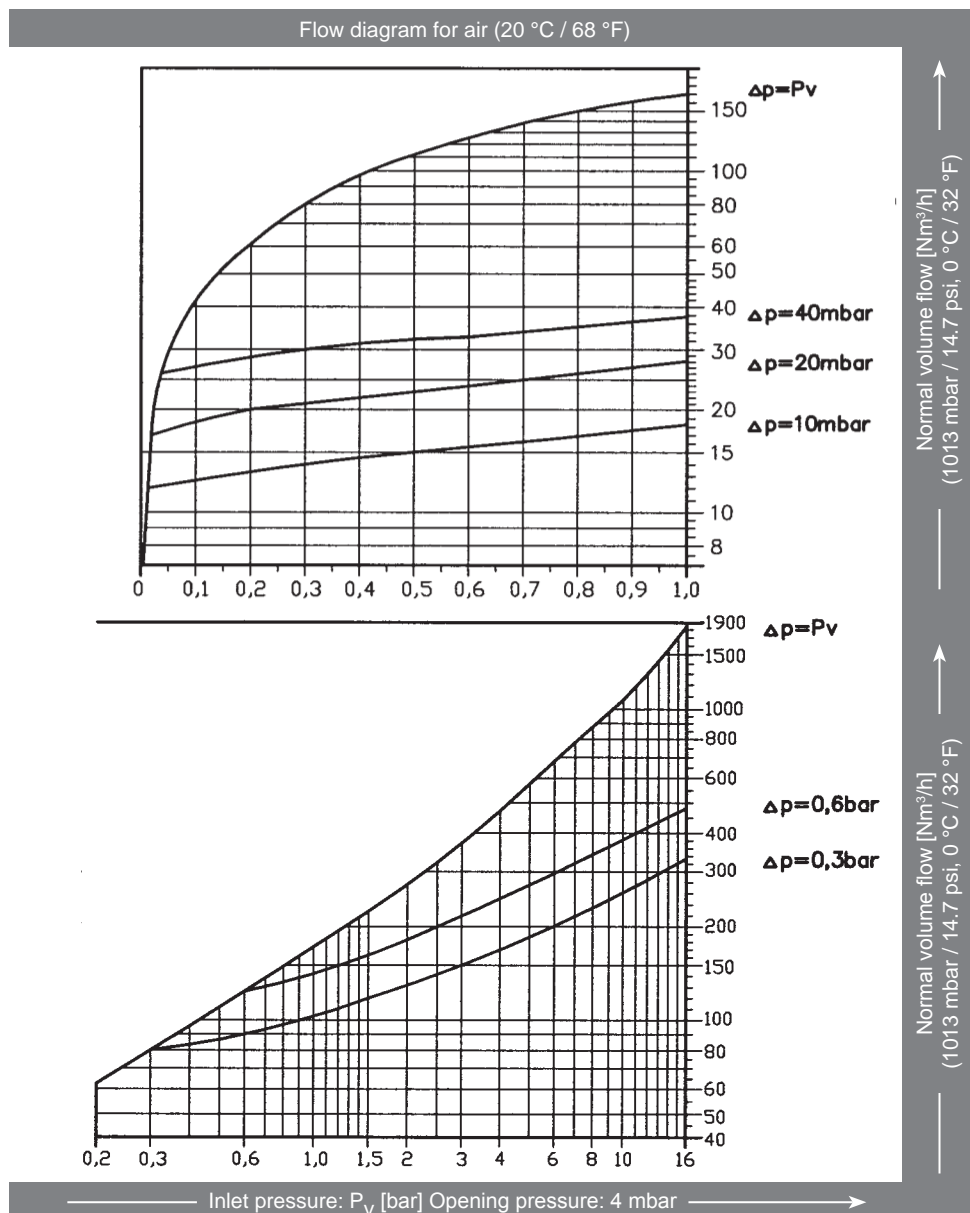
Butane	x 0.68
Natural gas	x 1.25
Methane	x 1.33
Propane	x 0.80
Oxygen	x 0.95
Town gas	x 1.54
Hydrogen	x 3.75



NV200

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



NON-RETURN VALVE NV200 with smart-option



Top quality valves combined with high-tech sensors and electronic components – that’s the smart-option from WITT.

Model	NV200 - with smart-option
Max. working pressure	16.0 bar
Wetted materials	Brass Elastomer
Connection	G 1
Weight	approx. 650 g
Power supply	24 V DC
Protection class	IP 67
Parameters / Accuracy	Temperature ± 2 °C, Pressure $\pm 0.7\%$ end value 100 bar
Interface	M8, 4-pin plug
Signals	4 - 20 mA

Smart functions of non-return valve

- measurement of outlet pressure
- measurement of outlet gas temperature
- analogue 4 – 20 mA signals

Other connections available upon request