

# NON-RETURN VALVE NV400

## intermediate flange version



**WITT non-return valves for reliable protection against dangerous reverse gas flow. Now available also with welding neck flanges for simple installing and removing. 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 pressure – approx. 3.0 mbar
- 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
- dirt filter in gas inlet are replaced quickly and easily
- 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
- non-return valve as „intermediate flange version“ guarantees quick and uncomplicated removal and installation at replacement and annual testing
- maximum flexibility – screwed non-return valve as well as installed between flanges. Complete (non-return valve + flange-set) or as add-on kit available.
- spacer tubes around threaded rods (M16) for secure centering of non-return
- flange connection with weld-on connecting according to EN 1092-1 Type11
- equal length in brass and stainless steel non-return valves for optimal interchangeability and combination with flange-kits (as well as DN40 and DN50)

### 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
- WITT non-return valves may be mounted in any position / orientation
- the maximum ambient / working temperature is 60 °C / 140 °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. The dirt filter may be replaced according to model by competent staff

### Approvals

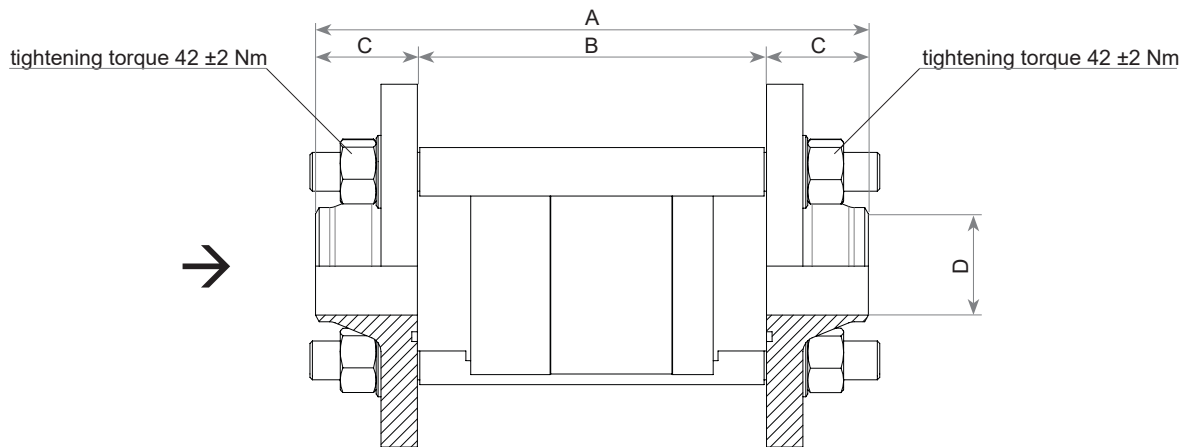
Company certified according to ISO 9001 and PED 2014/68/EU Module H

CE-marked according to - PED 2014/68/EU

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

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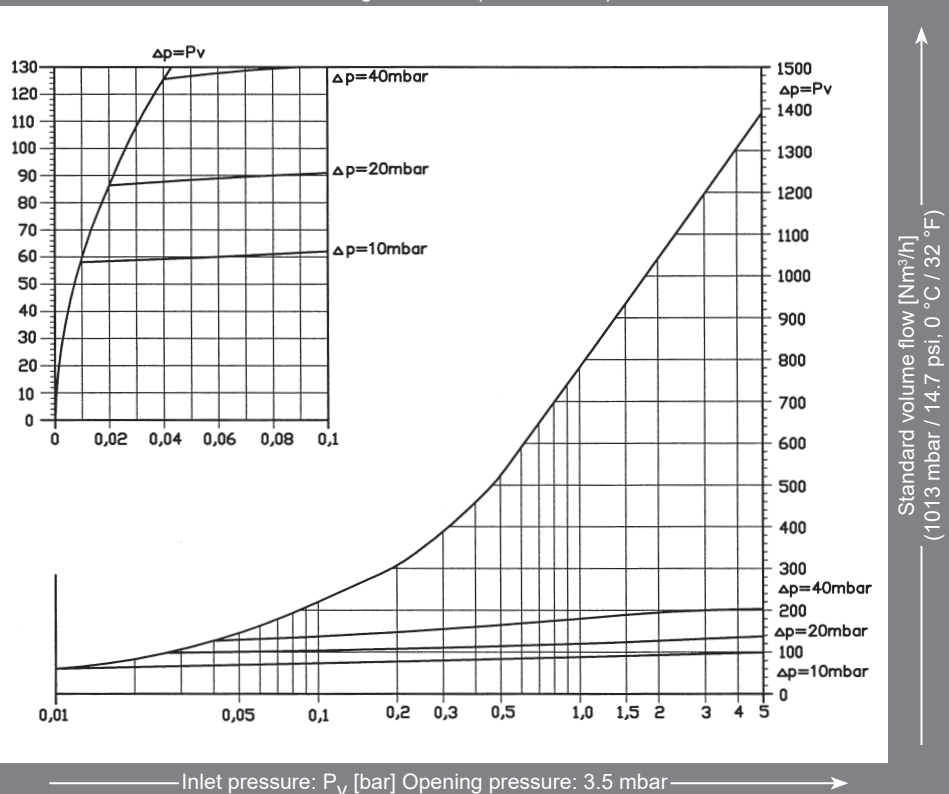
## intermediate flange version



Model	Max. working pressure [bar]	Material	Seal-Material	Dimensions [mm]				Connection [inch]	Order-No.
				A	B	C	D		
NV400 Complete with intermediate flange	16	Housing: Brass or Stainless steel Flange: Stainless steel (1.4541)	Elastomer (depending on gas)	228	144	42	43.1	DN40	Brass: 038S-040MS Stainless steel: 038S-040ES
				236	144	46	54.5	DN50	Brass: 038S-050MS Stainless steel: 038S-050ES
NV400	40 bar	Threaded rods: Stainless steel (1.4301)		-	144	-	-	G 1.1/2 F	Brass: 300038-024 Stainless steel 038-014
Intermediate flange set (for retrofitting without NV)				-	-	42	43.1	DN40	966034400
				-	-	46	54.5	DN50	966034500

Other connections available upon request

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