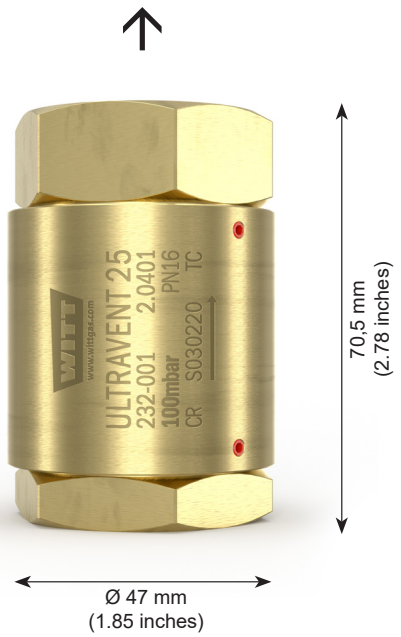
millibar-SAFETY RELIEF VALVE ULTRAVENT 25

individual set pressures from 5 up to 500 mbar
≥ 100 mbar type approval to DIN EN ISO 4126-1





Spring loaded, direct acting safety relief valve for venting excess pressure from receivers, pipelines and other equipment.
Very compact, safe and reliable.

Every safety relief valve 100% tested.

Benefits

- closes tightly again after activation
- exact, individually adjustable opening pressure from 5 up to 500 mbar
- much smaller than previous designs
- high blow-off volume flow
- G 3/4, G 1, 3/4" NPT or 1" NPT threads
- pressure rating PN16
- free of oil and grease
- can be used as a control- and pressure maintaining valve
- can also be used as a vacuum breaker
- TÜV-certification

Options

- as a pressure maintaining valve with100 µm filter in the gas inlet (1.4301)
- strainer at outlet 100 µm (1.4301) as a supplementary component, prevents external contamination
- available in brass or stainless steel (ES)
- temperature:
  -30 - 270 °C / 86 - 518 °F (stainless steel 1.4404 - valve disc)
- seals NBR, CR others for example elastomers with FDA approval upon request

Approvals

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

For safety relief valves made of brass and without filter with use of oxygen:
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

Other models, options and accessories available upon request.

Please identify the individual gases, temperature and opening pressure at the time of enquiring!

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millibar-SAFETY RELIEF VALVE ULTRAVENT 25

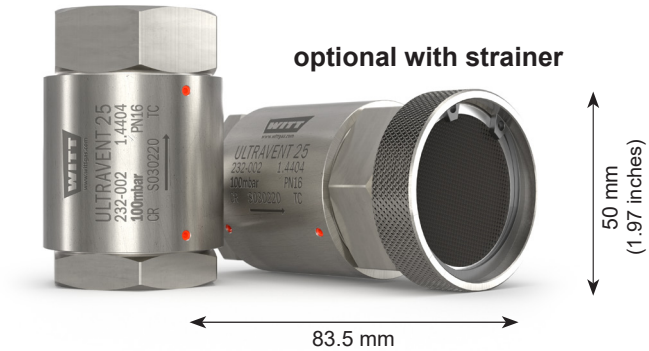
individual set pressures from 5 up to 500 mbar
≥ 100 mbar type approval to DIN EN ISO 4126-1

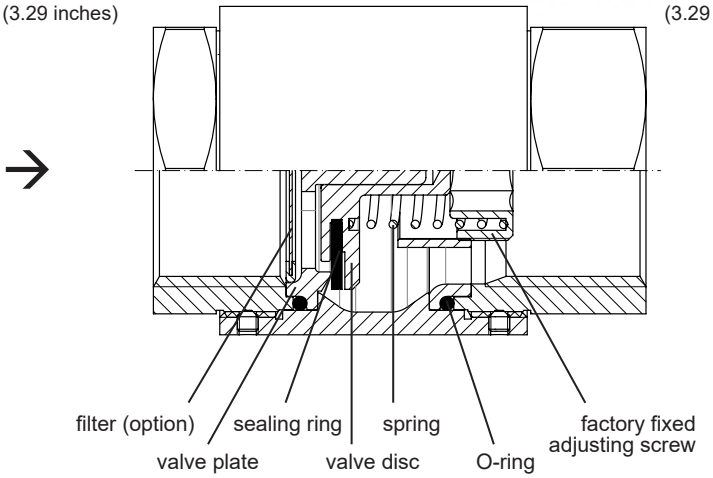
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brass version



stainless steel version





	ULTRAVENT 25					
Design	**control valve**		**safety relief valve according to DIN EN ISO 4126-1 Type approval**		**control valve** Kdr values were also determined in the type approval sheet and the function tested	
Opening pressure	from 5 up to 99 mbar		from 100 up to 500 mbar		from 100 up to 500 mbar	
Material filter inlet (option)	stainless steel 1.4301 100 µm		only possible without filter		stainless steel 1.4301 100 µm	
housing brass 2.0401	✔		✔		✔	
stainless steel 1.4404		✔		✔		✔
valve disc stainless steel 1.4404	✔	✔	✔	✔	✔	✔
Temperature range ★	-30 up to +100 °C	-30 up to +270 °C	-30 up to +100 °C	-30 up to +270 °C	-30 up to +100 °C	-30 up to +270 °C
pressure spring	stainless steel 1.4310					
sealing ring	CR, NBR, EPDM others upon request					
O-ring	NBR, EPDM others upon request					
Gases	all technical gases					
Width across flats	41 mm					
Weight	brass approx. 480 - 580 g stainless steel approx. 460 - 550 g					
Connections	G 3/4 RH female, 3/4" NPT female, G 1 RH female, 1" NPT female					
Marking	WITT*ULTRAVENT 25* →*Inlet Pressure*Material* Sealing*PN16*Art.-No.* Serial Prod. No.		WITT*ULTRAVENT 25* DIN EN ISO 4126-1* →*TÜV*SV*25-1215*16(22)*D/G*α_w* P_E acc. to Work Order*Material Housing*Material Sealing disc* PN16*Art.-No.*Serial Prod. No.		WITT*ULTRAVENT 25* →*d_0=16(22)*D/G*α_w* P_E acc. to Work Order*Material Housing*Material Sealing disc* PN10*Art.-No.*Serial Prod. No.	

other temperatures and valve seals upon reques

★ ES-version when using suitable elastomers

AV9 - B01/6I subject to change

Flow capacity for air and closing pressure at 20 °C / 68 °F (valid only when venting to atmosphere)
Standard reference conditions: 0 °C/32 °F / 1 013.3 mbar
p_e = Setting pressure

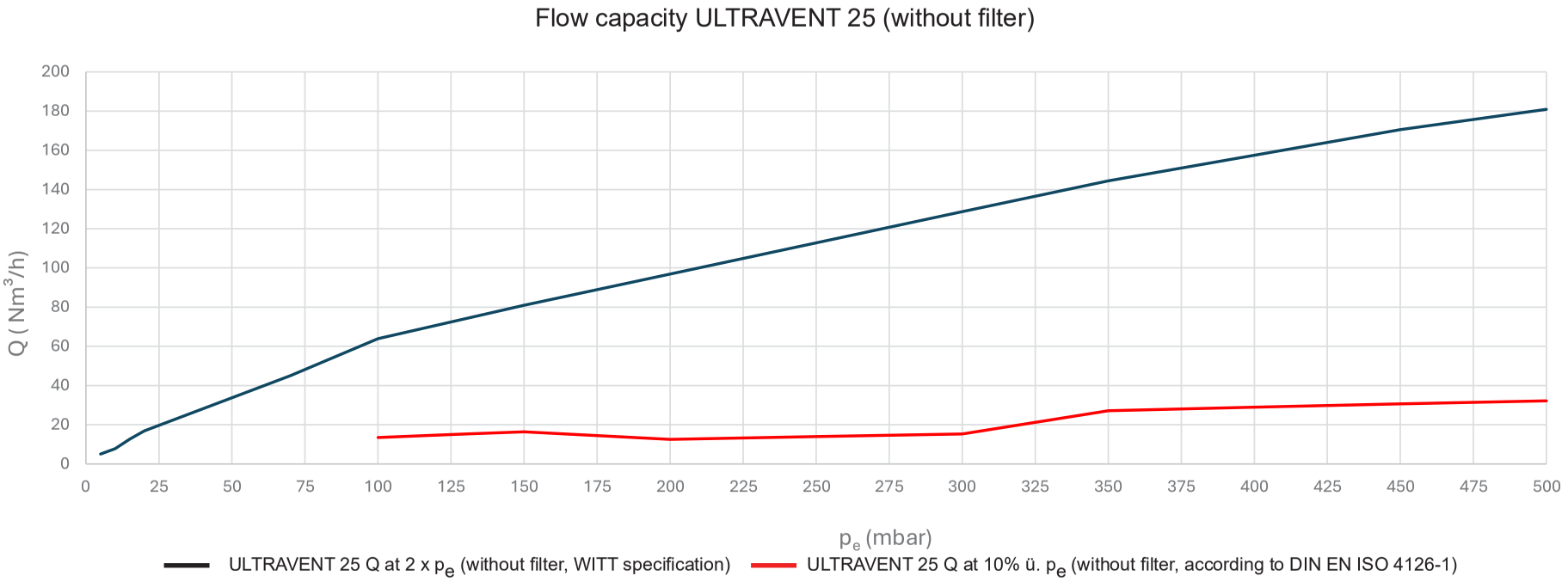
Connection G 3/4 / 3/4" NPT without filter / type approval according to DIN EN ISO 4126-1

p_e Setting pressure	[mbar]	100	110	130	150	200	250	300	350	400	450	500
Flow capacity at p_e +10%	[Nm³/h]	13.3	14.0	15.2	16.3	12.5	14.0	15.3	27.1	28.9	30.6	32.2
Closing pressure in % of p_e		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0

Connection G 3/4 / 3/4" NPT without filter

p_e Setting pressure	[mbar]	5	10	15	20	30	40	50	60	70	80	90	99
Flow capacity at 2 x p_e	[Nm³/h]	5.0	7.9	12.6	16.8	22.5	28.1	33.7	39.4	45.0	51.3	57.6	63.3
Closing pressure in % of p_e		53.0	60.0	60.0	60.0	65.0	75.0	76.0	78.0	79.0	81.0	83.0	85.0

Values apply to inlet diameter ≥ DN 16
Outlet free blowing off



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Flow capacity for air and closing pressure at 20 °C / 68 °F (valid only when venting to atmosphere)
Standard reference conditions: 0 °C/32 °F / 1 013.3 mbar
p_e = Setting pressure

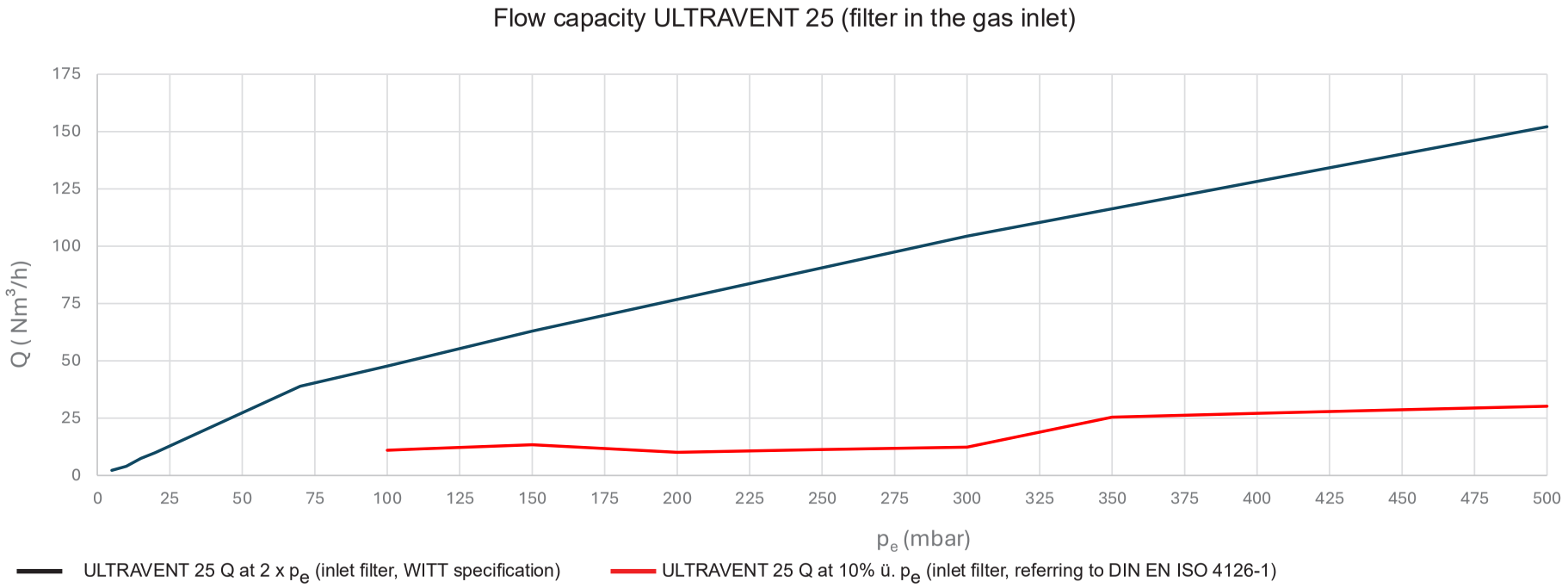
Connection G 3/4 / 3/4" NPT with filter in the gas inlet referring to DIN EN ISO 4126-1

p_e Setting pressure	[mbar]	100	110	130	150	200	250	300	350	400	450	500
Flow capacity at p_e +10%	[Nm³/h]	10.5	11.0	12.0	12.9	10.1	11.3	12.3	25.4	27.1	28.7	30.2
Closing pressure in % of p_e		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0

Connection G 3/4 / 3/4" NPT with filter in the gas inlet

p_e Setting pressure	[mbar]	5	10	15	20	30	40	50	60	70	80	90	99
Flow capacity at 2 x p_e	Nm³/h]	2.3	4.0	7.5	10.0	15.8	21.5	27.3	33.1	38.9	41.8	44.8	47.4
Closing pressure in % of p_e		53.0	60.0	60.0	60.0	65.0	75.0	76.0	78.0	79.0	81.0	83.0	85.0

Values apply to inlet diameter ≥ DN 16
Outlet free blowing off



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Flow capacity for air and closing pressure at 20 °C / 68 °F (valid only when venting to atmosphere)
Standard reference conditions: 0 °C/32 °F / 1 013.3 mbar
p_e = Setting pressure

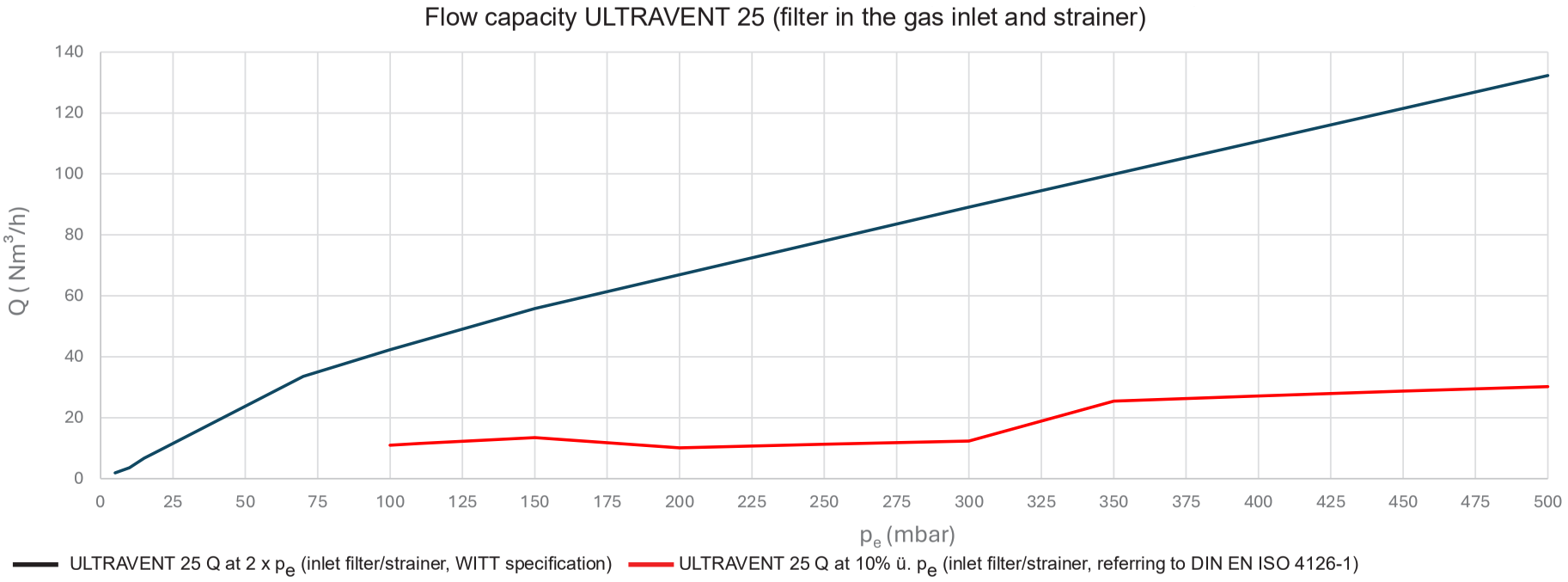
Connection G 3/4 / 3/4" NPT with filter in the gas inlet and strainer referring to DIN EN ISO 4126-1

p_e Setting pressure	[mbar]	100	110	130	150	200	250	300	350	400	450	500
Flow capacity at p_e +10%	[Nm³/h]	10.5	11.0	12.0	12.9	10.1	11.3	12.3	25.4	27.1	28.7	30.2
Closing pressure in % of p_e		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0

Connection G 3/4 / 3/4" NPT with filter in the gas inlet and strainer

p_e Setting pressure	[mbar]	5	10	15	20	30	40	50	60	70	80	90	99
Flow capacity at 2 x p_e	[Nm³/h]	1.9	3.6	6.7	9.1	14.0	18.9	23.8	28.7	33.6	36.5	39.4	42.0
Closing pressure in % of p_e		53.0	60.0	60.0	60.0	65.0	75.0	76.0	78.0	79.0	81.0	83.0	85.0

Values apply to inlet diameter ≥ DN 16
Outlet free blowing off



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Flow capacity for air and closing pressure at 20 °C / 68 °F (valid only when venting to atmosphere)
Standard reference conditions: 0 °C/32 °F / 1 013.3 mbar
p_e = Setting pressure

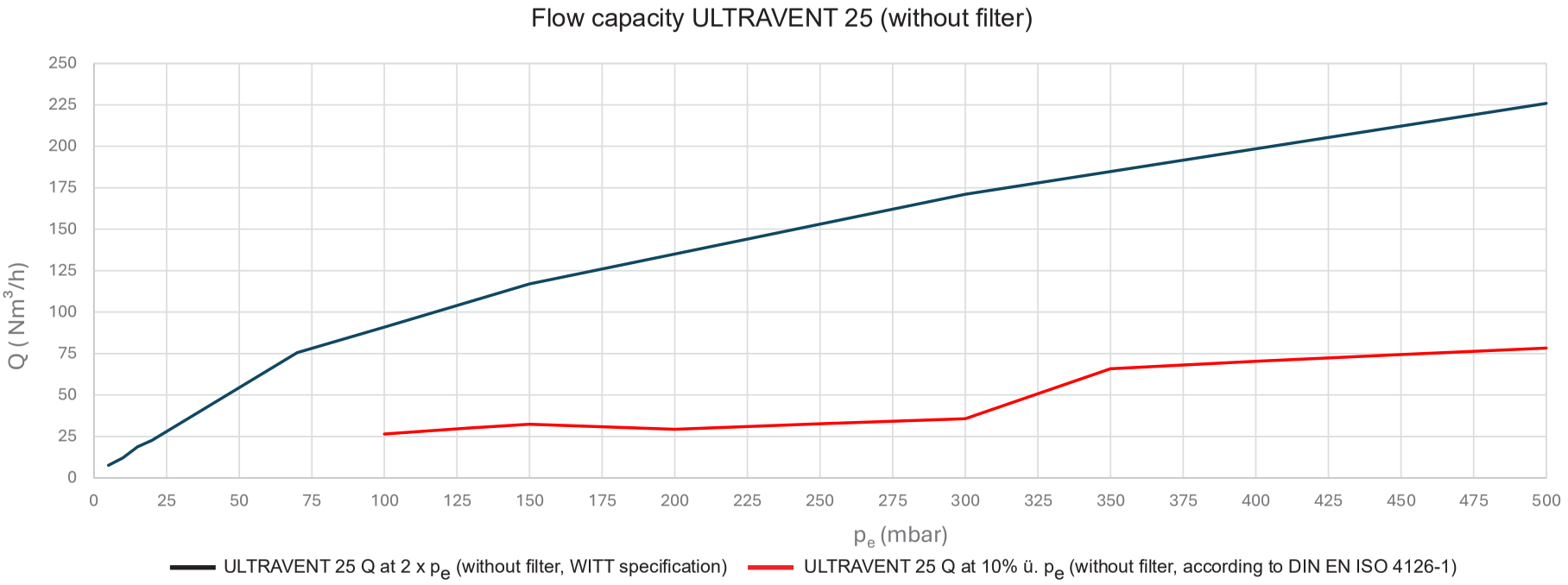
Connection G 1 / 1" NPT without filter / type approval according to DIN EN ISO 4126-1

p_e Setting pressure	[mbar]	100	110	130	150	200	250	300	350	400	450	500
Flow capacity at p_e +10%	[Nm³/h]	26.4	27.7	30.1	32.3	29.3	32.7	35.7	65.9	70.3	74.4	78.3
Closing pressure in % of p_e		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0

Connection G 1 / 1" NPT without filter

p_e Setting pressure	[mbar]	5	10	15	20	30	40	50	60	70	80	90	99
Flow capacity at 2 x p_e	[Nm³/h]	7.6	12.1	18.7	22.6	33.2	43.8	54.4	65.0	75.6	80.7	85.8	90.4
Closing pressure in % of p_e		53.0	60.0	60.0	60.0	65.0	75.0	76.0	78.0	79.0	81.0	83.0	85.0

Values apply to inlet diameter ≥ DN 22
Outlet free blowing off



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Flow capacity for air and closing pressure at 20 °C / 68 °F (valid only when venting to atmosphere)
Standard reference conditions: 0 °C/32 °F / 1 013.3 mbar
p_e = Setting pressure

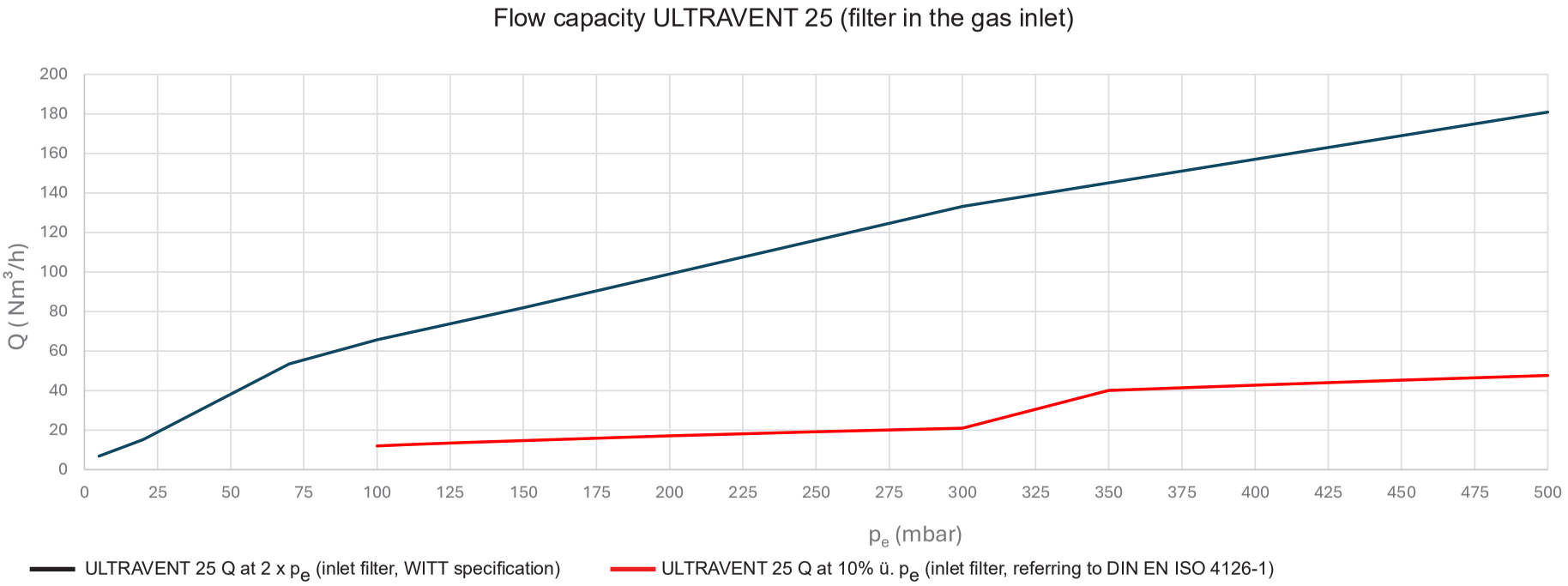
Connection G 1 / 1" NPT with filter in the gas inlet referring to DIN EN ISO 4126-1

p_e Setting pressure	[mbar]	100	110	130	150	200	250	300	350	400	450	500
Flow capacity at p_e +10%	[Nm³/h]	12.0	12.6	13.7	14.7	17.2	19.2	21.0	40.1	42.8	45.3	47.7
Closing pressure in % of p_e		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0

Connection G 1 / 1" NPT with filter in the gas inlet

p_e Setting pressure	[mbar]	5	10	15	20	30	40	50	60	70	80	90	99
Flow capacity at 2 x p_e	[Nm³/h]	6.8	12.2	19.4	14.9	22.7	30.5	38.3	46.1	53.9	58.4	63.0	67.0
Closing pressure in % of p_e		53.0	60.0	60.0	60.0	65.0	75.0	76.0	78.0	79.0	81.0	83.0	85.0

Values apply to inlet diameter ≥ DN 22
Outlet free blowing off



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Flow capacity for air and closing pressure at 20 °C / 68 °F (valid only when venting to atmosphere)
Standard reference conditions: 0 °C/32 °F / 1 013.3 mbar
p_e = Setting pressure

Connection G 1 / 1" NPT with filter in the gas inlet and strainer referring to DIN EN ISO 4126-1

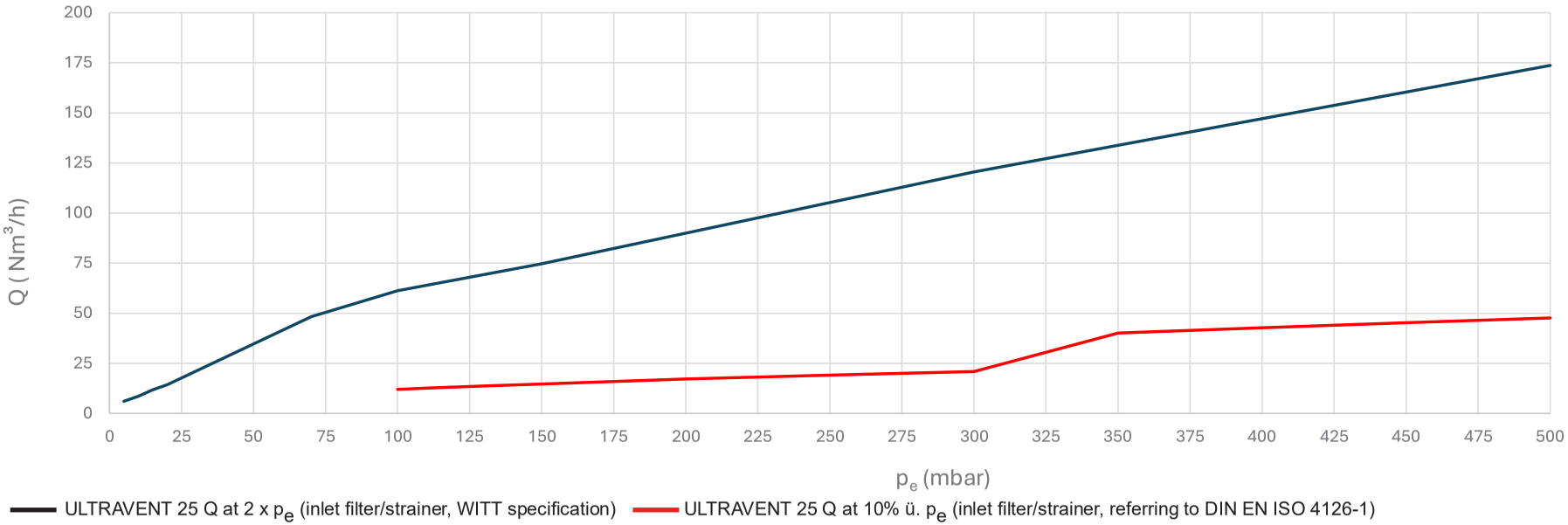
p_e Setting pressure	[mbar]	100	110	130	150	200	250	300	350	400	450	500
Flow capacity at p_e +10%	[Nm³/h]	12.0	12.6	13.7	14.7	17.2	19.2	21.0	40.1	42.8	45.3	47.7
Closing pressure in % of p_e		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0

Connection G 1 / 1" NPT with filter in the gas inlet and strainer

p_e Setting pressure	[mbar]	5	10	15	20	30	40	50	60	70	80	90	99
Flow capacity at 2 x p_e	[Nm³/h]	6.1	8.6	11.8	14.3	21.1	27.9	34.7	41.5	48.2	52.6	56.9	60.8
Closing pressure in % of p_e		53.0	60.0	60.0	60.0	65.0	75.0	76.0	78.0	79.0	81.0	83.0	85.0

Values apply to inlet diameter ≥ DN 22
Outlet free blowing off

Flow capacity ULTRAVENT 25 (filter in the gas inlet and strainer)



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