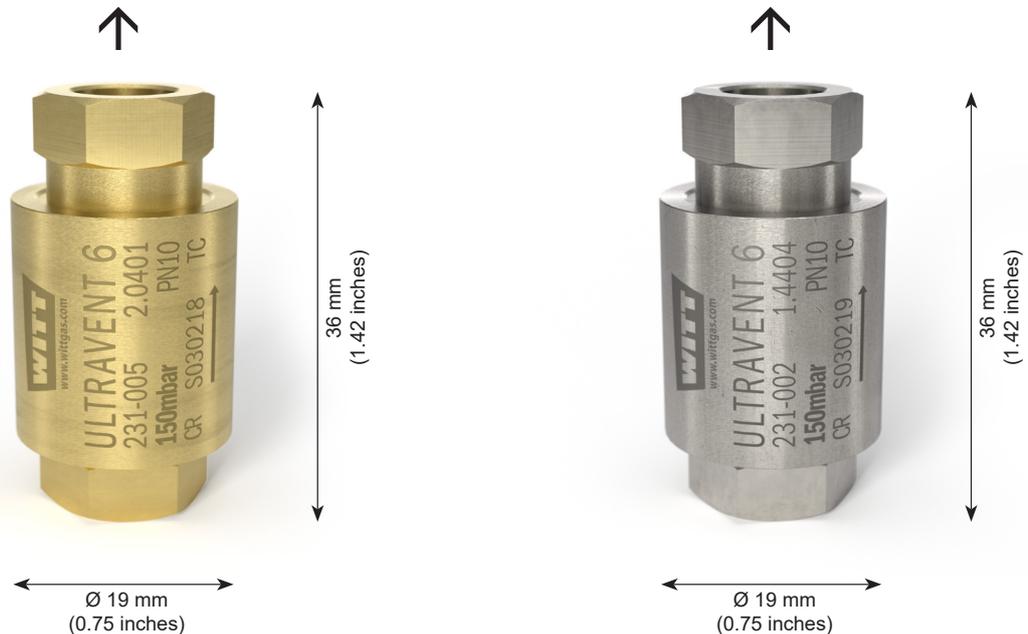


SAFETY RELIEF VALVE ULTRAVENT 6



individual set pressures
from 5 up to 500 mbar



Spring loaded, direct acting safety relief valve, optionally based on DIN EN ISO 4126-1, for venting excess pressure from receivers, pipelines and other equipment. Very compact, safe and reliable.

Every safety relief valve 100% tested.

Benefits

- exact, individually adjustable opening pressure from 5 up to 500 mbar
- much smaller than previous designs
- high blow-off volume flow
- reliability tested over 100 000 cycles
- G 1/8 or 1/8" NPT threads
- pressure rating PN10
- free of oil and grease
- can be used as a control valve
- can also be used as a vacuum breaker

Options

- tested according to DIN EN ISO 4126-1
- 100 µm filter in the gas inlet (1.4301)
- strainer at outlet 100 µm (1.4301) prevents external contamination
- TÜV-certification of pressure setting
- available in brass or stainless steel (ES)

temperature:

- -30 - 100 °C / 86 - 212 °F (PEEK - valve disc)
- -30 - 270 °C / 86 - 518 °F (ES-version stainless steel 1.4404 - valve disc)

- seals NBR, CR others 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.

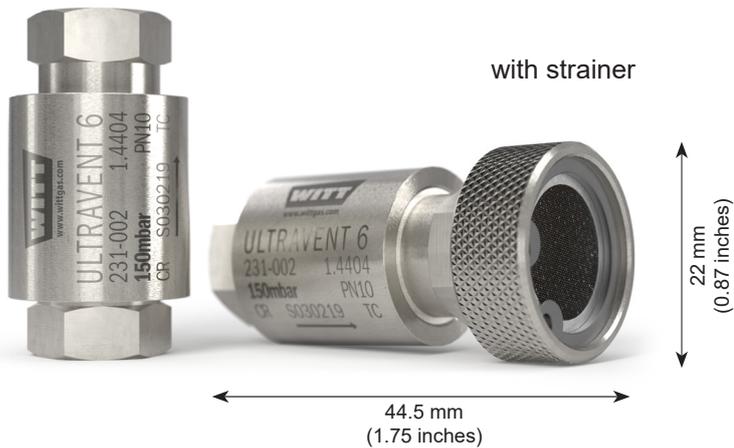
Please identify the individual gases, temperature and opening pressure at the time of enquiring!

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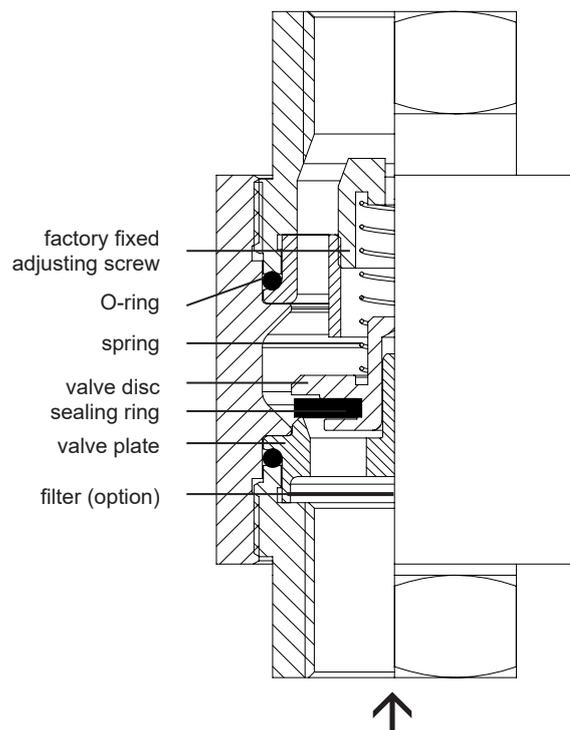


brass version



stainless steel version

	ULTRAVENT 6	
Opening pressure	from 5 up to 500 mbar	
Gases	all technical gases	
Material		
housing	brass 2.0401 or stainless steel 1.4404	
pressure spring	stainless steel 1.4310	
sealing ring	CR others upon request	
filter (option)	stainless steel 1.4404	
O-ring	NBR others upon request	
valve disc	PEEK	stainless steel 1.4404
Temperature range	-30 °C up to approx. +100 °C	-30 °C up to approx. +270 °C ★
Width across flats	13 mm	
Weight	brass approx. 45 g stainless steel approx. 42 g	
Connections	G 1/8 RH female, 1/8" NPT female	
Marking	TÜV*ULTRAVENT 6 *231-xxx*1.4404*CR* *PN10	



AV7 USA - B01/4C subject to change

other temperatures and valve seals upon request ★ ES-version when using suitable elastomers

SAFETY RELIEF VALVE ULTRAVENT 6

individual set pressures
from 5 up to 500 mbar



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 1/8 / 1/8" NPT without filter according to DIN EN ISO 4126-1

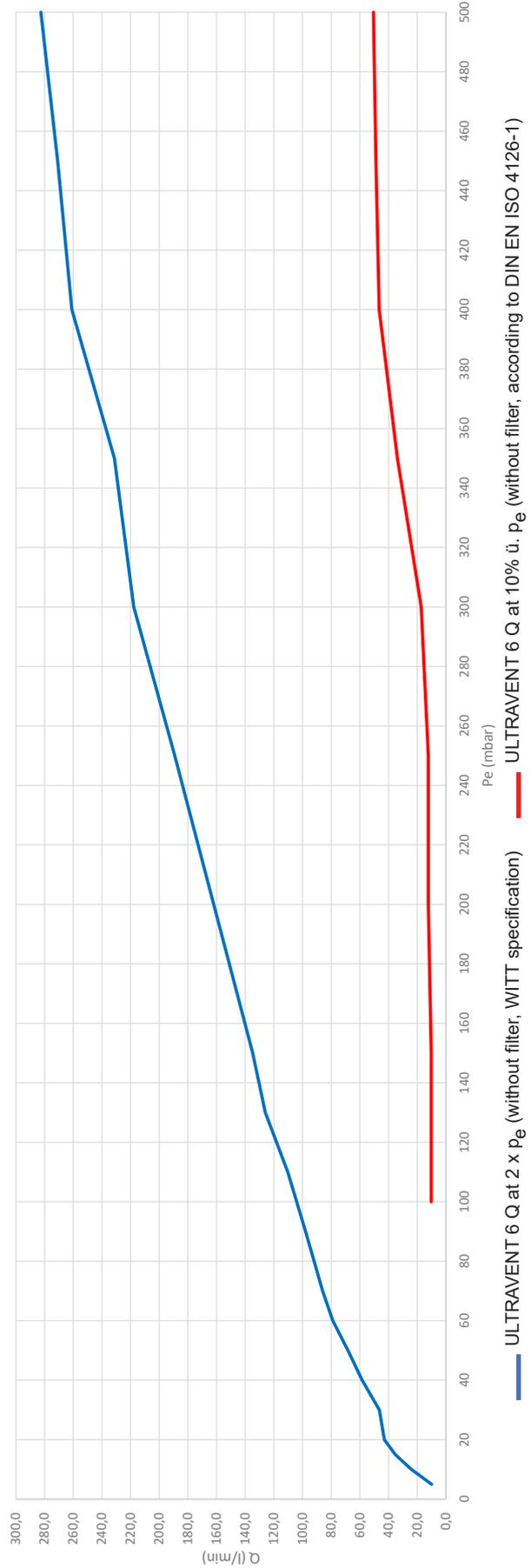
p_e Setting pressure [mbar]	100	110	130	150	200	250	300	350	400	450	500
Flow capacity at $p_e + 10\%$ [l/min]	10.3	10.3	10.3	10.3	12.2	12.2	17.3	33.9	46.5	48.8	50.5
Closing pressure in % of p_e	86.1	87.8	89.1	88.0	91.9	91.8	91.9	91.8	93.4	95.1	94.4

Connection G 1/8 / 1/8" NPT without filter

p_e Setting pressure [mbar]	5	10	15	20	30	40	50	60	70	90
Flow capacity at $2 \times p_e$ [l/min]	10.0	24.1	35.4	42.9	46.4	58.5	68.3	78.9	86.0	97.9
Closing pressure in % of p_e	50.9	61.3	68.4	72.7	74.3	77.1	81.7	83.8	85.7	85.9
p_e Setting pressure [mbar]	110	130	150	200	250	300	350	400	450	500
Flow capacity at $2 \times p_e$ [l/min]	110.3	126.0	134.8	162.0	189.2	217.8	231.3	261.0	270.9	282.6
Closing pressure in % of p_e	87.6	88.4	87.9	90.0	88.9	89.4	89.1	91.0	92.2	91.6

Values apply to inlet diameter \geq DN 5
Outlet free blowing off

Flow capacity ULTRAVENT 6 (without filter)



SAFETY RELIEF VALVE ULTRAVENT 6

individual set pressures
from 5 up to 500 mbar



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 1/8 / 1/8" NPT with filter in the gas inlet according to DIN EN ISO 4126-1

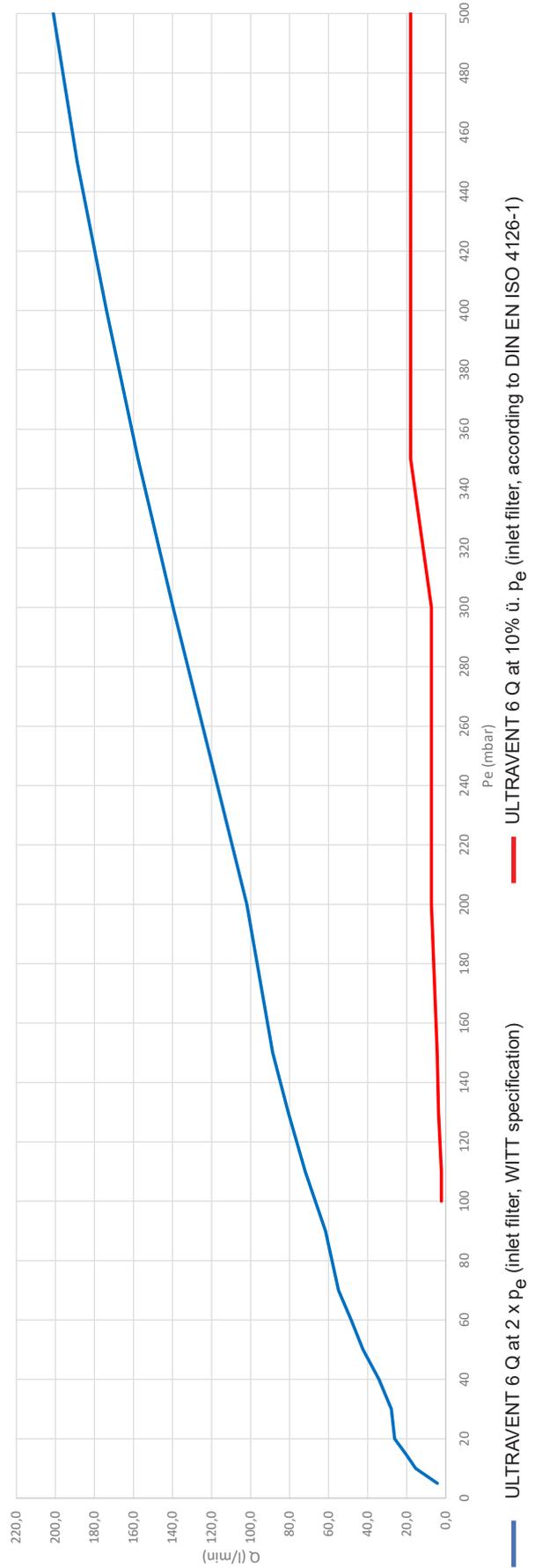
p_e Setting pressure [mbar]	100	110	130	150	200	250	300	350	400	450	500
Flow capacity at $p_e + 10\%$ [l/min]	10.3	10.3	10.3	10.3	12.2	12.2	17.3	33.9	46.5	48.8	50.5
Closing pressure in % of p_e	86.1	87.8	89.1	88.0	91.9	91.8	91.9	91.8	93.4	95.1	94.4

Connection G 1/8 / 1/8" NPT with filter in the gas inlet

p_e Setting pressure [mbar]	5	10	15	20	30	40	50	60	70	90
Flow capacity at $2 \times p_e$ [l/min]	10.0	24.1	35.4	42.9	46.4	58.5	68.3	78.9	86.0	97.9
Closing pressure in % of p_e	50.9	61.3	68.4	72.7	74.3	77.1	81.7	83.8	85.7	85.9
p_e Setting pressure [mbar]	110	130	150	200	250	300	350	400	450	500
Flow capacity at $2 \times p_e$ [l/min]	110.3	126.0	134.8	162.0	189.2	217.8	231.3	261.0	270.9	282.6
Closing pressure in % of p_e	87.6	88.4	87.9	90.0	88.9	89.4	89.1	91.0	92.2	91.6

Values apply to inlet diameter \geq DN 5
Outlet free blowing off

Flow capacity ULTRAVENT 6 (filter in the gas inlet)



SAFETY RELIEF VALVE ULTRAVENT 6



individual set pressures
from 5 up to 500 mbar

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 1/8 / 1/8" NPT with filter in the gas inlet and strainer 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 $p_e + 10\%$ [l/min]	2.3	2.3	3.7	4.4	7.4	7.4	7.4	18.0	18.0	18.0	18.0
Closing pressure in % of p_e	86.1	87.8	89.1	88.0	91.9	91.8	91.9	91.8	93.4	95.1	94.4

Connection G 1/8 / 1/8" NPT with filter in the gas inlet and strainer

p_e Setting pressure [mbar]	5	10	15	20	30	40	50	60	70	90
Flow capacity at $2 \times p_e$ [l/min]	4.1	14.8	19.9	25.0	25.8	33.1	40.7	46.4	52.5	60.1
Closing pressure in % of p_e	50.9	61.3	68.4	72.7	74.3	77.1	81.7	83.8	85.7	85.9
p_e Setting pressure [mbar]	110	130	150	200	250	300	350	400	450	500
Flow capacity at $2 \times p_e$ [l/min]	69.7	78.5	85.8	99.0	115.4	134.4	151.7	166.5	180.7	193.9
Closing pressure in % of p_e	87.6	88.4	87.9	90.0	88.9	89.4	89.1	91.0	92.2	91.6

Values apply to inlet diameter \geq DN 5
Outlet free blowing off

Flow capacity ULTRAVENT 6 (filter in the gas inlet and strainer)

