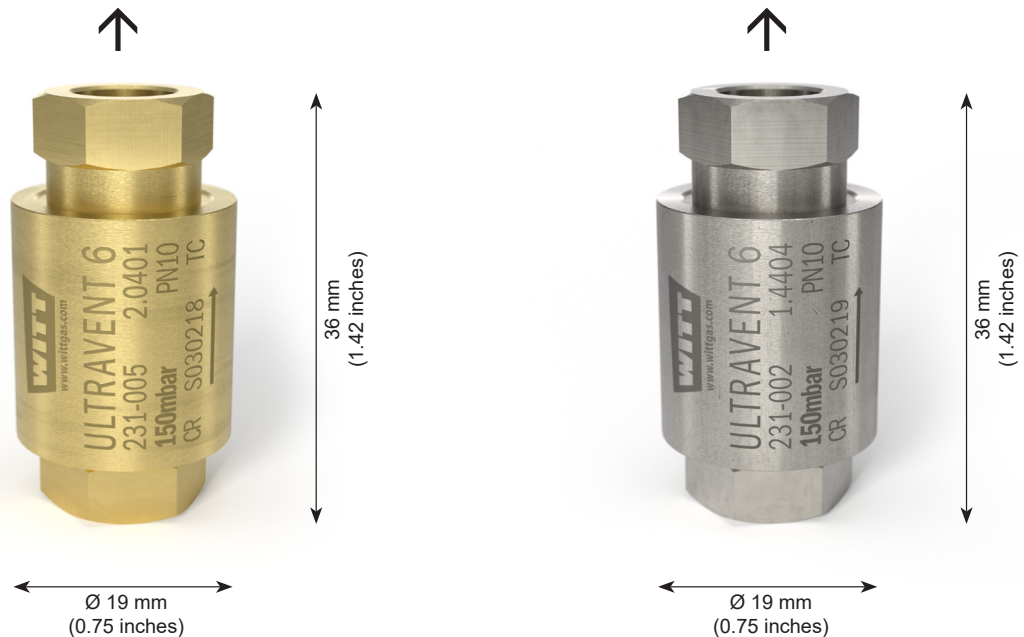


SAFETY RELIEF VALVE ULTRAVENT 6



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

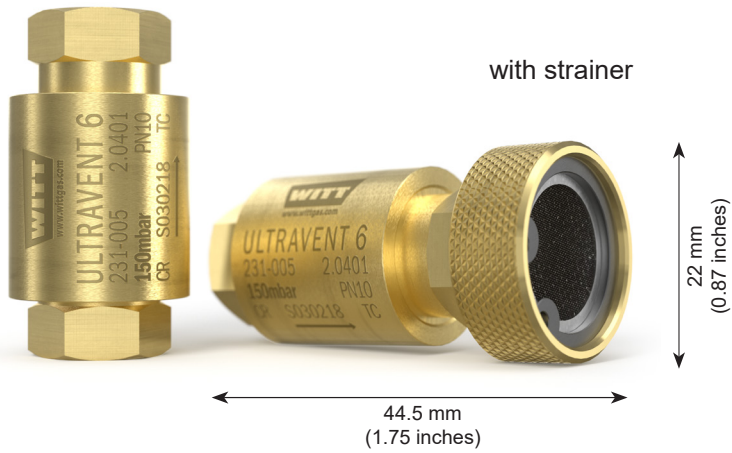
Cleaned for Oxygen Service in accordance with EIGA 33/18 and CGA G-4.1: Cleaning of Equipment for Oxygen Service

Other models, options and accessories available upon request.

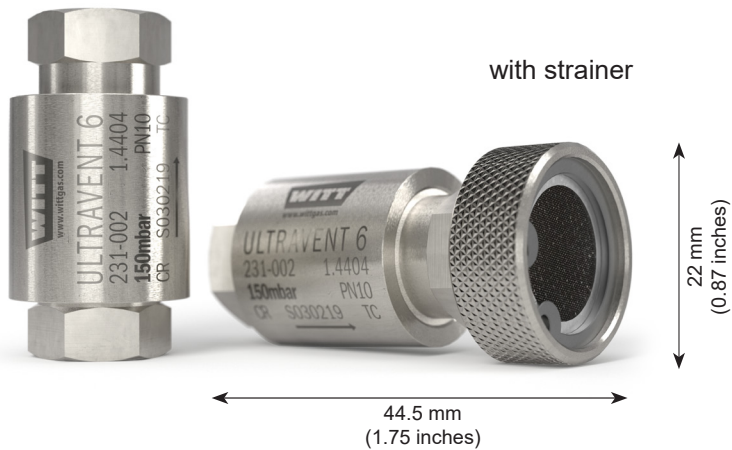
Please identify the individual gases, temperature and opening pressure at the time of enquiring!

SAFETY RELIEF VALVE ULTRAVENT 6

individual set pressures
from 5 up to 500 mbar

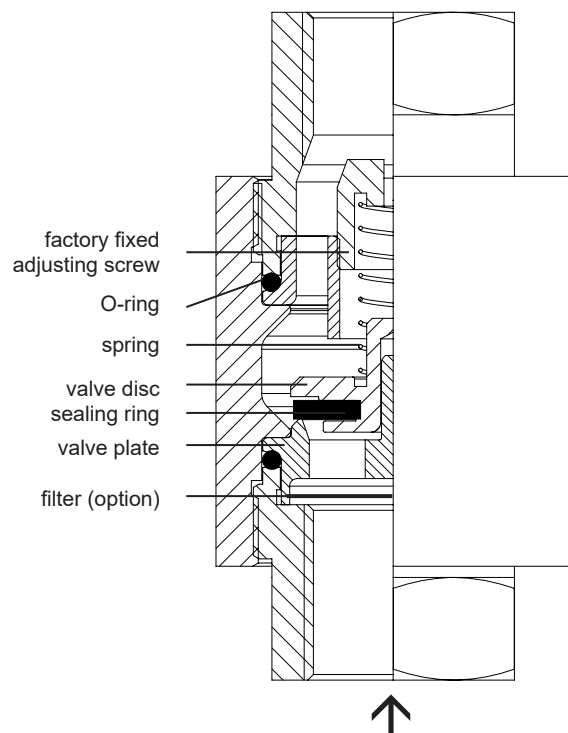


brass version



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 - 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

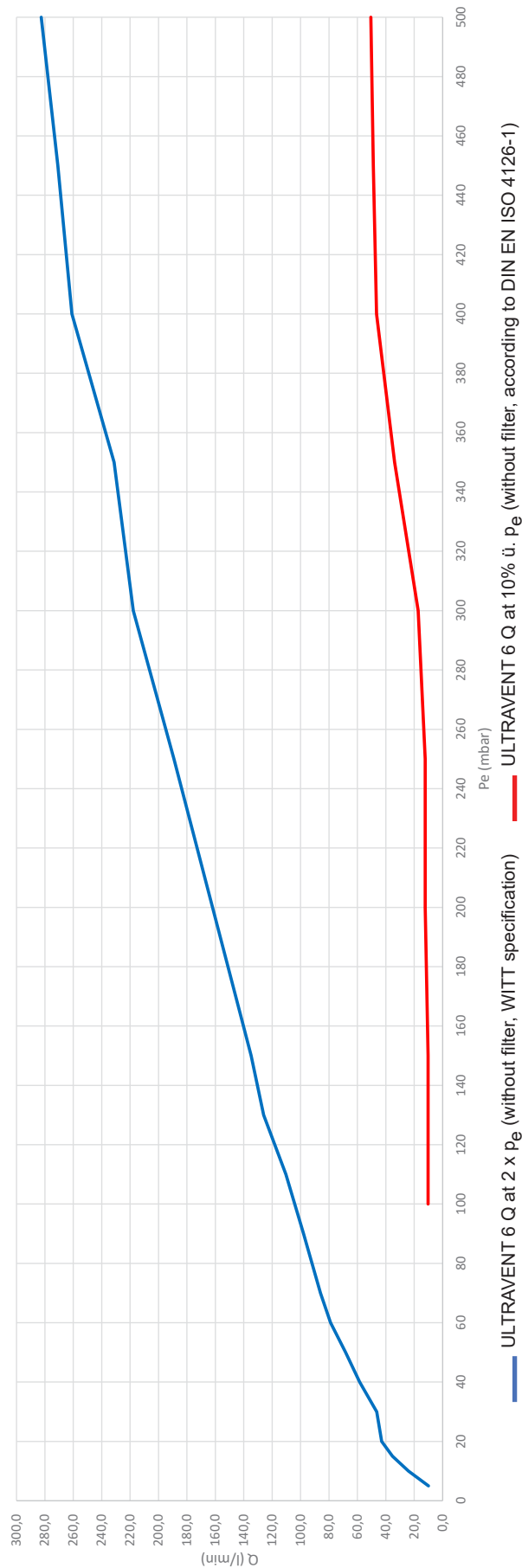
p_e Setting pressure [mbar]	100	110	130	150	200	250	300	350	400	450	500
Flow capacity at $p_e + 10\%$ [l/min]	10.3	10.3	10.3	10.3	12.2	12.2	17.3	33.9	46.5	48.8	50.5
Closing pressure in % of p_e	86.1	87.8	89.1	88.0	91.9	91.8	91.9	91.8	93.4	95.1	94.4

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

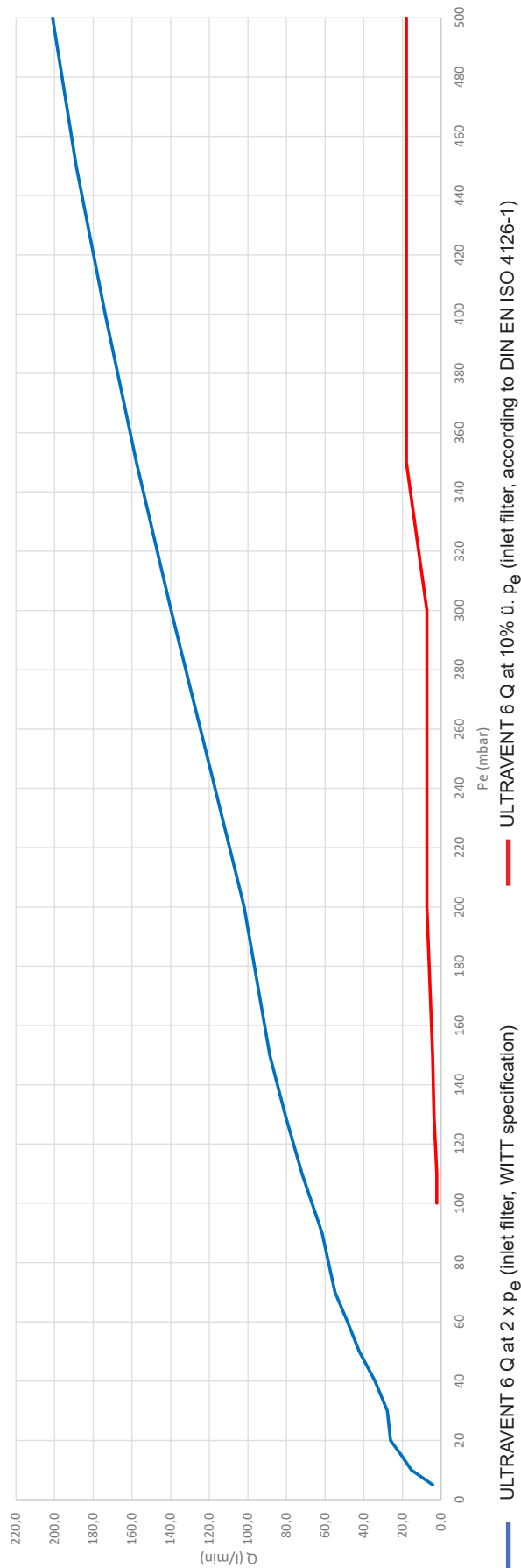
p_e Setting pressure [mbar]	100	110	130	150	200	250	300	350	400	450	500
Flow capacity at $p_e + 10\%$ [l/min]	10.3	10.3	10.3	10.3	12.2	12.2	17.3	33.9	46.5	48.8	50.5
Closing pressure in % of p_e	86.1	87.8	89.1	88.0	91.9	91.8	91.9	91.8	93.4	95.1	94.4

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 x 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 x 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)

