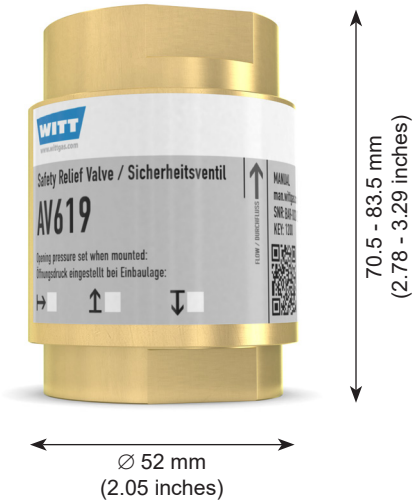
SAFETY RELIEF VALVE AV619

5 up to 500 mbar

www.wittgas.com

AV619



AV619-ES

AV619-ES

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

Every safety relief valve 100% tested.

Benefits

- individual opening pressure
- TÜV-certification of pressure setting (optional)
- available in brass or stainless steel (ES)
- sealing material to suit gas or customer request
- compact size for easy, problem free installation
- range of inlet and outlet connections
- adapter for connection to ventilation pipe
- free of oil and grease

Approvals

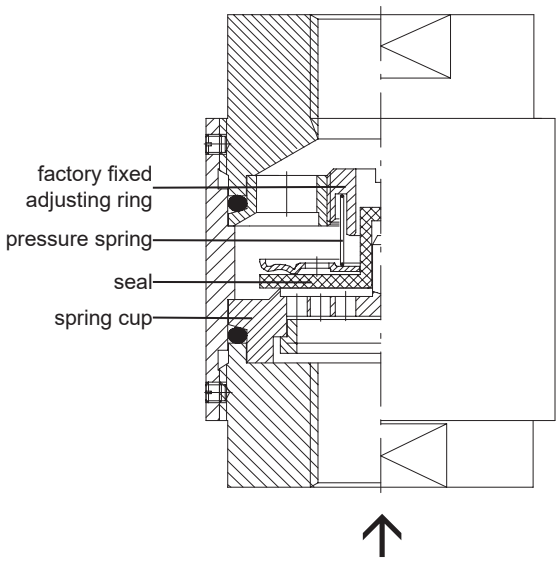
Company certified according to ISO 9001 and PED 2014/68/EU Module H

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 on request.
Please identify the individual gases, temperature, opening pressure and inlet connection at the time of enquiring!

	AV619 / AV619-ES
Opening pressure	from 0.005 up to < 0.5 bar
Gases	all technical gases
Material	housing and metal turned parts made of brass or stainless steel, pressure spring made of stainless steel, valve seal corresponding to the gas
Width across flats	41 mm
Weight	approx. 790 g
Connections	G1/2, G3/4, G1 RH F 1/2", 3/4", 1" NPT F flange DN 25 according to DIN 28403
Marking	TÜV*AV*619.2*17.5*1.4305*CR* *PN16
Temperature range	-40 °C/-40 °F up to approx. +270 °C/+518 °F (in accordance to gas and valve sealing)



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Flow capacity for air and closing pressure at 20 °C / 68 °F
(valid only for atmospheric back pressure)

Standard reference conditions: 0 °C / 32 °F / 1 013.3 mbar

Flow capacity at $p = 2 \times p_e$ [Nm³/h]

p_e= Setting pressure

Connection G 1/2 / 1/2" NPT

p_e Setting pressure	[mbar]	5	10	15	20	25	30	35	40
Flow capacity	[m³/h]	2.6	4.3	6.3	7.4	8.5	8.8	13.4	15.1
Closing pressure in % of p_e		35	35	42	45	47	52	58	65
p_e Setting pressure	[mbar]	70	100	130	190	240	300	400	500
Flow capacity	[m³/h]	17.3	21.8	24.9	29.1	33.9	37.8	43.7	50.4
Closing pressure in % of p_e		76	70	76	87	87	82	90	90

Connection G 3/4 / 3/4" NPT

p_e Setting pressure	[mbar]	5	10	15	20	25	30	35	40
Flow capacity	[m³/h]	3.1	7.0	10.0	13.1	15.1	16.1	17.8	19.2
Closing pressure in % of p_e		41	25	30	65	67	72	72	75
p_e Setting pressure	[mbar]	70	100	130	190	240	300	400	500
Flow capacity	[m³/h]	20.6	27.2	32.2	41.8	51.4	59.2	56.0	68.3
Closing pressure in % of p_e		88	87	86	87	85	87	86	86

Connection G 1 / 1" NPT

p_e Setting pressure	[mbar]	5	10	15	20	25	30	35	40
Flow capacity	[m³/h]	3.2	6.6	10.0	13.5	16.3	19.5	21.2	24.5
Closing pressure in % of p_e		25	45	50	55	67	72	72	75
p_e Setting pressure	[mbar]	70	100	130	190	240	300	400	500
Flow capacity	[m³/h]	23.7	33.0	35.3	45.2	54.9	59.3	75.0	90.7
Closing pressure in % of p_e		79	70	81	84	85	87	88	89

other connections available upon request

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Pressure range [mbar]	Connection	Overall length [mm]
≥ 5 ≤ 25	G 1/2 F – G 1/2 F	70.5
	G 3/4 F – G 3/4 F	
	G 1 F – G 1 F	
	1/2" NPT F – 1/2" NPT F	
	3/4" NPT F – 3/4" NPT F	
	1" NPT F – 1" NPT F	
≥ 25 ≤ 40	G 1/2 F – G 1/2 F	70.5
	G 3/4 F – G 3/4 F	
	G 1 F – G 1 F	
	1/2" NPT F – 1/2" NPT F	
	3/4" NPT F – 3/4" NPT F	
	1" NPT F – 1" NPT F	
	KF DN40 DIN 28403	108
≥ 40 ≤ 130	G 1/2 F – G 1/2 F	70.5
	G 3/4 F – G 3/4 F	
	G 1 F – G 1 F	
	1/2" NPT F – 1/2" NPT F	
	3/4" NPT F – 3/4" NPT F	
	1" NPT F – 1" NPT F	
≥ 130 ≤ 300	G 1/2 F – G 1/2 F	83.5
	G 3/4 F – G 3/4 F	
	G 1 F – G 1 F	
	1/2" NPT F – 1/2" NPT F	
	3/4" NPT F – 3/4" NPT F	
	1" NPT F – 1" NPT F	
	KF DN40 DIN 28403	108
≥ 300 ≤ 500	G 1/2 F – G 1/2 F	83.5
	G 3/4 F – G 3/4 F	
	G 1 F – G 1 F	
	1/2" NPT F – 1/2" NPT F	
	3/4" NPT F – 3/4" NPT F	
	1" NPT F – 1" NPT F	

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