

# SAFETY RELIEF VALVE AV619

5 up to 500 mbar



**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
- 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

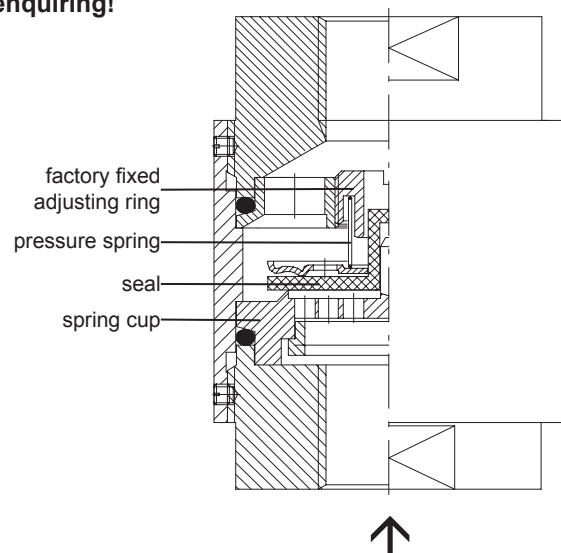
Cleaned for Oxygen Service according to:

- EIGA IGC Doc 13/12/E: Oxygen Pipeline and Piping Systems

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



# SAFETY RELIEF VALVE AV619

## 5 up to 500 mbar



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 / 1013.3 mbar

Flow capacity at  $p = 2 \times p_e$  [Nm<sup>3</sup>/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 [m <sup>3</sup> /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 [m <sup>3</sup> /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 [m <sup>3</sup> /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 [m <sup>3</sup> /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 [m <sup>3</sup> /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 [m <sup>3</sup> /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