

# SAFETY RELIEF VALVE SV805 / 805A

0.5 up to 45.0 bar

**NEW – with smart-option**

See page 3



SV805



SV805-ES



SV805A



SV805A-ES

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

## Benefits

- according to PED 2014/68/EU, category IV, Module B and D
- 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 connections
- with / without condensation outlet
- protective dust cap
- SV805A (manual ventilation), for checking of safety function
- adapter for connection to ventilation pipe

## Approvals

Manufactured and certified according to EN ISO 4126-1

Company certified according to ISO 9001

and PED 2014/68/EU Module H

CE-marked according to:

- PED 2014/68/EU

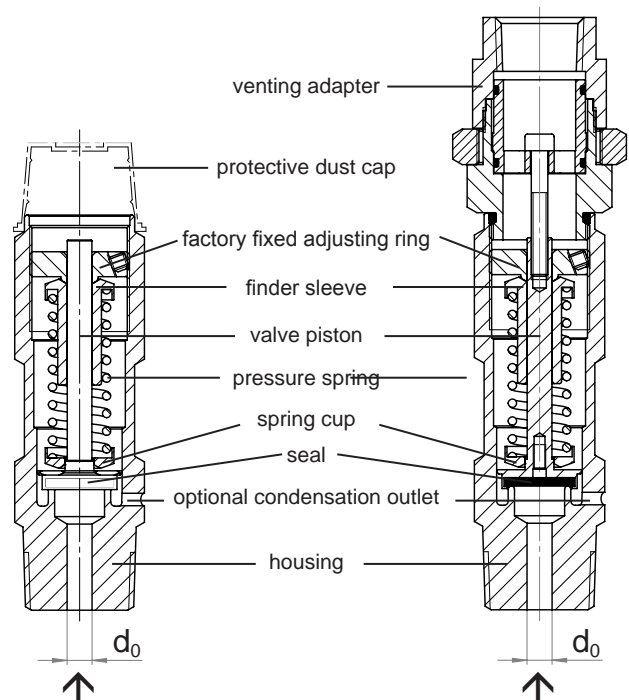
Cleaned for Oxygen Service according to:

- 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, inlet connection and with or without condensation outlet at the time of enquiring!**

|                              | SV805   | SV805A        |
|------------------------------|---|---------------|
| Manual ventilation           | –   | X             |
| Opening pressure             | from 0.5 up to 45.0 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 considering to the gas |               |
| Width across flats           | 27 mm   |               |
| Weight                       | approx. 260 g   | approx. 660 g |
| Marking                      | CE0045<br>TÜV*SV*13-931   |               |
| Drill hole (d <sub>0</sub> ) | 6.0 mm at 0.5 up to 25.0 bar<br>6.5 mm at > 25.0 up to 45.0 bar   |               |
| Temperature range            | -60 °C/-76 °F up to approx. +150 °C/+302 °F<br>(in accordance to gas and valve sealing)   |               |
| Adapter                      | for connection to ventilation pipe at the outlet  | –             |



# SAFETY RELIEF VALVE SV805 / 805A

0.5 up to 45.0 bar



Flow capacity for air at 23 °C / 73.4 °F (valid only for atmospheric back pressure)

|                  |        |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Opening pressure | [bar]  | 0.5   | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    |
| Volume flow      | [m³/h] | 15.7  | 23.5  | 35.9  | 48.3  | 60.6  | 73    | 85.4  | 97.7  | 110.1 | 122.3 | 134.7 | 147   |
| Opening pressure | [bar]  | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    |
| Volume flow      | [m³/h] | 159.4 | 171.7 | 184.1 | 196.5 | 209.8 | 260.6 | 275.1 | 289.7 | 304.3 | 318.9 | 333.4 | 348   |
| Opening pressure | [bar]  | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | 32    | 33    | 34    | 35    |
| Volume flow      | [m³/h] | 362.5 | 375.5 | 390   | 404.5 | 419   | 433.4 | 448   | 462.4 | 476.9 | 491.5 | 505.9 | 520.4 |
| Opening pressure | [bar]  | 36    | 37    | 38    | 39    | 40    | 41    | 42    | 43    | 44    | 45    |       |       |
| Volume flow      | [m³/h] | 534.9 | 549.4 | 563.9 | 578.4 | 592.9 | 607.4 | 621.9 | 636.3 | 650.9 | 665.3 |       |       |

| Version              | Overall length [mm] |        | Inlet male thread (M)  | Outlet female thread (F) |          |
|----------------------|---------------------|--------|--|--------------------------|----------|
|                      | SV805               | SV805A |  | SV805                    | SV805A   |
| Brass                | 90                  | 137    | G 1/4; 1/4" NPT<br>G 3/8; 3/8" NPT<br>M16 x 1.5; M18 x 1.5                     | M24 x 1                  | 1/2" NPT |
|                      | 95                  | 142    | G 1/2; 1/2" NPT<br>G 3/4; 3/4" NPT<br>M20 x 1.5                                |                          |          |
| Stainless steel (ES) | 96.5                | 143.5  | G 1/4; 1/4" NPT; 1/4" VCR<br>G 3/8; 3/8" NPT; 3/8" VCR<br>M16 x 1.5; M18 x 1.5 |                          |          |
|                      | 101.5               | 148.5  | G 1/2; 1/2" NPT; 1/2" VCR<br>G 3/4; 3/4" NPT<br>M20 x 1.5                      |                          |          |

Adapter (for SV805) for connection to ventilation pipe at the outlet

| Version              | Adapter with O-ring seal      | Order no.  |
|----------------------|-------------------------------|------------|
| Brass                | M24 x 1 M - 1/2" NPT F        | 801413600K |
|                      | M24 x 1 M - 3/4" NPT F        | 802124900K |
|                      | M24 x 1 M - G 1/2 M with cone | 802069800K |
| Galvanised steel     | M24 x 1 M - 1/2" NPT F        | 801413703K |
| Stainless steel (ES) | M24 x 1 M - 1/2" NPT F        | 801727800K |

## SAFETY RELIEF VALVE SV805 with smart-option



**SV805**  
with smart-option



**SV805-ES**  
with smart-option

**Top quality valves combined with high-tech sensors and electronic components – that's the smart-option from WITT.**

|                              | SV805 - with smart-option  |
|------------------------------|--|
| Opening pressure             | from 0.5 up to 45.0 bar  |
| Wetted materials             | housing and metal turned parts made of brass or stainless steel, pressure spring made of stainless steel, valve seal material depending on gas |
| Width across flats           | 27 mm  |
| Weight                       | approx. 260 g  |
| Marking                      | CE0045<br>TÜV*SV*13-931  |
| Drill hole (d <sub>0</sub> ) | 6.0 mm at 0.5 up to 25.0 bar<br>6.5 mm at > 25.0 up to 45.0 bar  |
| Temperature range            | -20 °C/-4 °F up to approx. +60 °C/+140 °F<br>(depending on gas and seals)  |
| Power supply                 | 24 V DC  |
| Protection class             | IP 67  |
| Parameters                   | open / closed  |
| Interface                    | M8, 4-pin plug   |
| Digital output               | NPN / PNP open Collector   |
| Adapter                      | for connection to ventilation pipe at the outlet   |

### Smart functions of safety relief valves

- signals its status: open or closed
- digital NPN / PNP open collector signal