

SAFETY RELIEF VALVE SV805 / 805A

0.5 up to 45.0 bar

NEW – with smart-option

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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

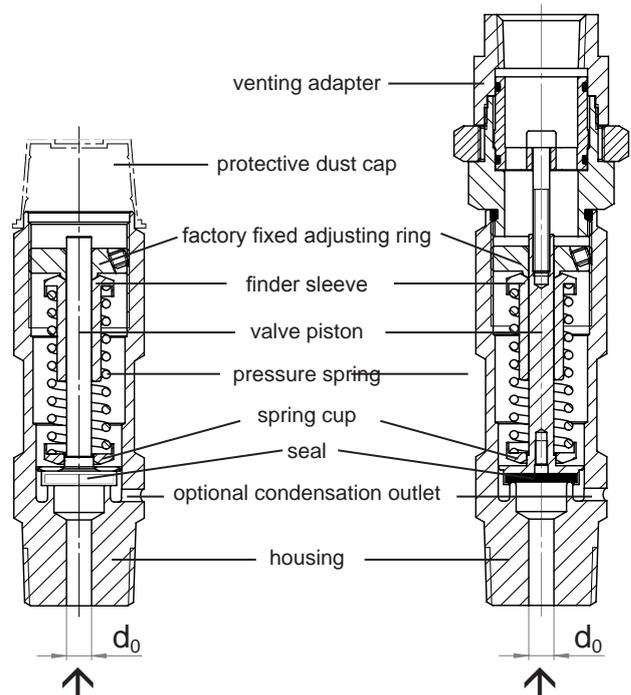
Approvals

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 TÜV*SV*13-931	
Drill hole (d₀)	6.0 mm at 0.5 up to 25.0 bar 6.5 mm at > 25.0 up to 45.0 bar	
Temperature range	-60 °C/-76 °F up to approx. +150 °C/+302 °F (in accordance to gas and valve sealing)	
Adapter	for connection to ventilation pipe at the outlet	–



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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 G 3/8; 3/8" NPT M16 x 1.5; M18 x 1.5	M24 x 1	1/2" NPT
	95	142	G 1/2; 1/2" NPT G 3/4; 3/4" NPT M20 x 1.5		
Stainless steel (ES)	96.5	143.5	G 1/4; 1/4" NPT; 1/4" VCR G 3/8; 3/8" NPT; 3/8" VCR M16 x 1.5; M18 x 1.5		
	101.5	148.5	G 1/2; 1/2" NPT; 1/2" VCR G 3/4; 3/4" NPT 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 TÜV*SV*13-931
Drill hole (d₀)	6.0 mm at 0.5 up to 25.0 bar 6.5 mm at > 25.0 up to 45.0 bar
Temperature range	-20 °C/-4 °F up to approx. +60 °C/+140 °F (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