Pressure Control Valves Safety Valves SV 29V

Full Lift Threaded Valve



Technical Data

 Connection G
 3/4A x 1

 1A x 1 1/2

 Nominal Pressure PN
 40 - 250

 Set Pressure
 0.3 - 200 bar

Temperature 200 °C

Medium liquids, gases, steam

Description

Safety valves are the ultimate protection device for tanks and pipelines. They prevent pressure limits being exceeded once all automatic control and monitoring equipment has failed.

SV29V is a spring-loaded full-stroke safety valve with tested components provided with threaded connection and closed spring cap.

Full lift safety valves open instantly up to maximum lift within a pressure rise of 5 %. Because of their instant opening they are used where suddenly larger flow volumes or fast pressure

rises may occur. They are mainly used for relieving pressure in vapours and gases.

Pressure rise:

above 1 bar set pressure:......5 % up to the max. valve lift;

below 1 bar set pressure:0.1 bar.

Options

» special version up to 300 °C

Operating instructions, know how and safety instructions must be observed. All the pressure has always been indicated as overpressure. We reserve the right to alter technical specifications without notice.



Flow Rate see Sheet no. 29V/2.1.121.2

Available Versions

H2	without lifting device, gastight cap			
Н3	with lifting device, gastight cap			
H4	with lifting device, not gastight			

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Materials				
Body (Base)	1.4104	1.4404		
Outlet Body	0.7043	1.4404		
Guide	1.4104 tenifer	1.4404		
Bonnet	0.7043	1.4404		
Spindle	1.4021	1.4404		
Spring Plate	1.0718	1.4404		
Adjusting Screw with Bush	1.4104 with PTFE	1.4404 tenifer with PTFE		
Spring	spring steel C	1.4310		

Dimensions [mm] + Weights [kg]				
G inlet	3/4 A	3/4 A	1 A	
G outlet	1	1	1 1/2	
do	9	13	17,5	
A	75	75	75	
В	50	50	54	
C (H2) *	228	228	225	
C (H3) *	228	228	225	
C (H4) *	230	230	227	
Е	150	150	150	
F	16	16	18	
weight	2,6	2,6	3	

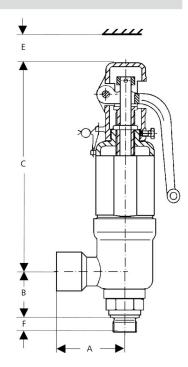
^{*}H2 = without lifting device, gastight cap

Special designs on request.

The pressure has always been indicated as overpressure. Mankenberg reserves the right to alter or improve the designs or specifications of the products described herein without notice.

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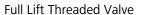
Dimensional Drawing



^{*}H3 = with lifting device, not gastight

^{*}H4 = with lifting device, gastight cap

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Seat Diameter					
inlet	G 3/4A	G 1A			
outlet	G 1	G 1 1/2			
seat ø	9 mm, 13 mm	17.5 mm			

Flow Rate									
set pressure	saturated steam [kg/h]			air [Nm³/h]			water [m³/h]		
[bar]	9 mm	13 mm	17.5 mm	9 mm	13 mm	17.5 mm	9 mm	13 mm	17.5 mm
0.2	-	51.70	82.60	-	61.30	98.00	-	1.96	3.48
0.5	-	79.50	130	-	97.40	160	-	2.77	4.93
1	-	114	192	-	143	241	-	3.75	6.67
2	88.3	181	316	112	230	402	2.93	5.31	9.44
3	120	245	433	155	315	556	3.59	6.50	11.60
4	150	306	540	194	395	699	4.14	7.51	13.30
5	180	366	647	234	476	841	4.63	8.39	14.90
6	209	426	753	273	556	983	5.07	9.19	16.30
8	268	546	965	352	717	1260	5.86	10.60	18.90
10	327	666	1170	431	879	1550	6.55	11.90	21.10
15	474	964	1700	629	1280	2260	8.02	14.50	25.80
20	621	1260	2230	827	1680	2970	9.26	16.80	29.80
25	769	1560	2760	1020	2080	3680	10.40	18.80	33.40
30	918	1860	3300	1220	2480	4390	11.30	20.60	36.50
40	1210	2480	4390	1610	3290	5820	13.10	23.70	42.20
50	1520	3110	5500	2010	4090	7240	14.60	26.50	47.20
60	1840	3750	6630	2400	4900	8660	16.00	29.10	51.70
80	2490	5080	8990	3200	6510	11500	18.50	33.60	59.70
100	3190	6490	11400	3990	8120	14300	20.70	37.50	66.70
150	5090	10300	-	5960	12100	-	25.40	46.00	-
200	-	-	-	7940	16100	-	29.30	53.10	-

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