

SAFETY RELIEF VALVES SRV6

DESCRIPTION

The ADCA SRV6 series aseptic safety relief valves with angle type connections are designed for use with clean steam, air and other gases compatible with the construction materials.

Main applications are overpressure protection on steam equipment, pressure vessels and pipelines, particularly within the food, beverage and pharmaceutical industries.

MAIN FEATURES

Completely made from solid bar stock material.

Metal to metal or soft sealing.

Elastomer bellows to isolate the product chamber from the spring housing.

Self draining design.

STANDARD SURFACE FINISH

Internal wetted parts: $\leq 0,51$ micron Ra – SF1.

External : $\leq 0,76$ micron Ra – SF3.

Other surface conditions see IS PV20.00-Technical information.

Ultrasonic cleaning.

OPTIONS: Pneumatic lifting device (for CIP/SIP).

USE: Clean steam, air and other gases compatible with the construction.

AVAILABLE MODELS: SRV6.

VALVE SIZES: 3/4"x1", 1"x1 1/2" and 1 1/2"x2".
DN20x25, DN25x40, DN32x40 and DN40x50.

CONNECTIONS: Clamp ends or others on request.

DESIGN: DIN EN ISO 4126-1.
AD-Merkblatt-A2.
PED-Pressure European Directive.

PACKAGING: Assembling and packaging in a clean room certified according to ISO 14644-1.
The product is end capped and vacuum sealed with recyclable plastic film to avoid contamination.



CE MARKING (PED - European Directive)	
Sizes	Category
All	4

CE Marking: This product has been designed for use on steam, air and other gases which are in Group 2 and 1 (only oxygen, others on request) of the European PED-Pressure Equipment Directive in use and it complies with those requirements. The product carries the CE Mark.

LIMITING CONDITIONS	
Valve model	SRV6
Body design conditions	PN 16
Maximum operating pressure	16 bar @ 180 °C
Minimum operating temperature	- 40 °C
Maximum overpressure	10 %
Maximum blowdown	15 %

Higher and lower limits on request.

SRV6 FLOW CAPACITIES (Calculated at 10% overpressure in accordance with ISO 4126-1)								
SIZE DN	20 x 25 3/4" x 1"		25 x 40 1" x 1 1/2"		32 x 40		40 x 50 1 1/2" x 2"	
d0 (mm)	10		13		17		23	
Flow area (mm ²)	78,5		132,7		227		415,5	
Set Pressure	Steam (kg/h)	Air (Nm ³ /h)	Steam (kg/h)	Air (Nm ³ /h)	Steam (kg/h)	Air (Nm ³ /h)	Steam (kg/h)	Air (Nm ³ /h)
*0,5	57,01	70,57	77,95	96,49	115,25	142,67	170,76	211,39
1	77,17	94,40	109,95	134,50	168,83	206,52	256,34	313,57
2	96,34	119,26	173,32	214,56	299,91	371,26	451,04	558,35
3	137,36	171,50	243,69	304,27	414,65	517,72	639,96	799,03
4	172,30	216,50	312,82	393,08	533,64	670,55	822,32	1033,30
5	210,34	265,70	380,01	480,04	631,97	798,31	1007,39	1272,54
6	251,79	319,40	445,63	565,30	738,53	936,85	1191,15	1511,01
7	287,18	365,63	508,27	647,13	842,33	1072,45	1358,56	1729,71
8	322,48	411,86	570,74	728,95	945,86	1208,05	1525,55	1948,41
9	357,74	458,09	633,15	810,77	1049,30	1343,65	1692,37	2167,11
10	393,02	504,32	695,60	892,59	1152,79	1479,24	1859,29	2385,81
11	428,16	550,55	757,80	974,41	1255,86	1614,84	2025,53	2604,51
12	463,16	596,78	819,73	1056,23	1358,50	1750,44	2191,07	2823,21
13	498,26	643,01	881,86	1138,05	1461,47	1886,04	2357,15	3041,91
14	533,26	689,24	943,81	1219,87	1564,13	2021,63	2522,72	3260,61
15	568,44	735,47	1006,07	1301,69	1667,32	2157,23	2689,16	3479,31
16	603,55	781,70	1068,21	1383,51	1770,30	2292,83	2855,25	3698,01

* Lower set pressures on request.

DIMENSIONS (mm) ASME BPE									
SIZE	d0	A	B	C	H1	H2	F1	F2	WGT Kg
3/4" x 1"	10	62,5	23,5	253	15,8	22,1	25	50,5	3,4
1" x 1 1/2"	13	62,5	34,5	262	22,1	34,8	50,5	50,5	3,6
1 1/2" x 2"	23	67,5	39,5	289	34,8	47,5	50,5	64	4,5

DIMENSIONS (mm) DIN									
SIZE DN	d0	A	B	C	H1	H2	F1	F2	WGT Kg
20 x 25	10	55,5	25,5	253	20	26	34	50,5	3,4
25 x 40	13	55,5	34	262	26	38	50,5	50,5	3,6
32 x 40	17	55,5	34	263	32	38	50,5	50,5	3,6
40 x 50	23	59	39,5	289	38	50	50,5	64	4,4

Clamp ferrules DIN 32676 Series A (for pipes DIN 11866 Series A - DIN 11850 Series 2).

MATERIALS		
POS.	DESIGNATION	MATERIAL
1	Valve body	AISI316L / 1.4404
2	* Seat disc	AISI316L / 1.4404
3	Lifting bell	AISI316L / 1.4404
4	* O-ring	EPDM
5	Ball	AISI316 / 1.4401
6	Spindle	AISI316L / 1.4404
7	Lift stopper	AISI316L / 1.4404
8	* Pin	AISI301 / 1.4310
9	* Bellows	EPDM
10	Fixing nut	AISI316L / 1.4404
11	Bellows fixing ring	AISI316L / 1.4404
12	* O-ring	EPDM
13	Guide bushing	AISI316L / 1.4404
14	Bushing	PTFE + 15% GF
15	Bolts	A2 - 70
16	Split ring	AISI316L / 1.4404
17	Spring plate	AISI316L / 1.4404
18	* Spring	AISI302HT / 1.4310
19	Bonnet	AISI316L / 1.4404
20	Adjusting screw	AISI316L / 1.4404
21	Lock nut	AISI316L / 1.4404
22	Cap	AISI316L / 1.4404
23	Clamp	AISI316 / 1.4401

*Available spare parts.
 Remarks: FDA/USP Class VI seals certificate on request
 All valves have a serial number. In case of non-standard valves this number must be supplied if spare parts are ordered.

