

→ Series 601

601

Pressure relief valves made of gunmetal, with lever and weight, angle-type with threaded connections



■ MATERIAL



■ SPECIFICATION



1/2" – 2"



– 60°C to + 225°C
depending on version



1,5 – 16 bar
depending on version

■ SUITABLE FOR

Liquids	neutral	
Air, gases and vapours	neutral	
Steam		

■ EXAMPLES OF USE

For the protection of:

- pressure tanks/-systems for neutral vapours, gases and liquids
 - steam boilers and steam plants
- if proportional opening characteristics and only small blow-off volumes are required (i.e. protection in the case of expansion due to heating-up). Please observe plant-specific regulations and use of appropriate valve version and sealing material.

- Industrial and commercial boilers

■ APPROVALS

European Pressure Equipment Directive

TR ZU 032/2013 - TR ZU 010/2011

Requirements

PED 2014/68/EU

■ MATERIALS

Component	Material	DIN EN	ASME
Inlet body	Gunmetal	CC499K	CC499K
Outlet body	Gunmetal	CC499K	CC499K
Internal parts	Brass / Gunmetal	CW617N / CC499K	CW617N / CC499K
Lever	Stainless steel	1.4301	304

s	Standard, non-gastight version	for neutral media without counter pressure. With lever and weight(s)
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■ MEDIUM

GF	gaseous and liquid	Air, vapours, gases, liquids and - depending on seal - also for steam
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■ TYPE OF LIFTING MECHANISM

L	Lifting by lever. Disc can be lifted and turned.	
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■ AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES

Nominal diameter DN		15	20	25	32	40	50
Inlet		1/2" (15)	3/4" (20)	1" (25)	1 1/4" (32)	1 1/2" (40)	2" (50)
Outlet	1/2" (15)	■					
	3/4" (20)		■				
	1" (25)			■			
	1 1/4" (32)				■		
	1 1/2" (40)					■	
	2" (50)						■

■ TYPE OF CONNECTION INLET / OUTLET THREADED CONNECTIONS

f / f	Standard	Female thread BSP-P / Female thread BSP-P	DIN EN ISO 228-1 / DIN EN ISO 228-1
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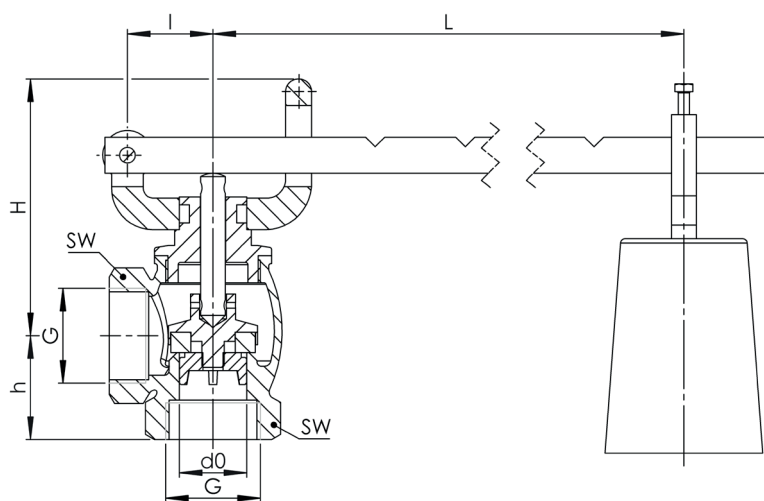
■ SEALS

NBR	Nitrile rubber	Elastomere flat seal	−30°C to +130°C
PTFE	Polytetrafluoroethylene	Flat seal	−60°C to +225°C

■ NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

Series 601: Connection, installation dimensions, ranges of adjustment							
Nominal diameter	DN	15	20	25	32	40	50
Connection DIN EN ISO 228	G	1/2" (15)	3/4" (20)	1" (25)	1 1/4" (32)	1 1/2" (40)	2" (50)
Outlet DIN EN ISO 228	G	1/2" (15)	3/4" (20)	1" (25)	1 1/4" (32)	1 1/2" (40)	2" (50)
Installation dimensions in mm	L	250	300	380	500	490	600
	I	30	30	40	50	50	65
	H	74	85	100	115	120	150
	h	30	35	41	45	51	60
	SW	28	34	41	52	58	70
	d0	13	19	25	30	38	50
Weight	kg	0,47	0,69	1,2	1,86	2,3	3,75
Range of adjustment	bar	2 - 6	1,5 - 4	0,8 - 2	1,5 - 4	1,5 - 4	0,6 - 2
		-	2 - 6	2 - 6	-	-	1,5 - 4
		-	-	-	-	-	2 - 6

■ MAIN DIMENSIONS, INSTALLATION DIMENSIONS



■ INDIVIDUAL SELECTION / VALVE CONFIGURATION

Series	Valve version	Medium	Lifting device	Nominal diameter DN	Connection type		Connection size		Seal	Options	Pressure range / set pressure	Quantity
					Inlet	Outlet	Inlet	Outlet				
601	s	GF	L	50	f	f	50	50	PTFE		1,5 - 4,0	5
601	s	GF	L		f	f						
601	s	GF	L		f	f						
601	s	GF	L		f	f						

■ CAPACITY TABLE

Series 601: Blowing-off rates at approx. 10% above set pressure																			
Nominal diameter DN		15			20			25			32			40			50		
Set pressure bar		I	II	III	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III
Air I Nm³/h	1							32	26	1,2							130	102	4,7
	1,5				22	34	0,8	40	32	1,4	55	45	2,0	90	72	3,2	163	127	5,8
	2	24	19	0,8	52	41	1,8	96	75	3,3	132	100	4,6	217	170	7,4	390	300	13,3
	2,5	28	22	0,9	61	48	2,0	112	87	3,7	154	116	5,1	253	197	8,3	455	348	14,9
	3	32	25	1,0	70	54	2,2	128	99	4,0	176	132	5,6	289	225	9,1	520	397	16,3
Steam II kg/h	3,5	36	28	1,1	79	61	2,4	144	111	4,4	198	148	6,0	325	252	9,8	585	444	17,6
	4	40	31	1,2	87	67	2,6	160	123	4,7	220	164	6,4	362	279	10,5	650	492	18,8
Water III m³/h	4,5	44	34	1,2	96	74	2,7	176	135	5,0							715	540	19,9
	5	48	37	1,3	105	80	2,9	192	147	5,2							780	588	21,0
	5,5	52	40	1,4	114	87	3,0	208	159	5,5							845	635	22,0
	6	56	43	1,4	122	93	3,2	224	171	5,7							910	684	23,0

■ COUNTERWEIGHT

Series 601: Counterweight							
Nominal diameter	DN	15	20	25	32	40	50
Pressure range	Weight, kg						
0,6 - 2 bar							3,55 (56)
0,8 - 2 bar				0,67 (18)	0,67 (18)		6,5 (151)
1,5 - 4 bar			0,67 (18)		2,2 (20)	3,55 (56)	9 (93)
2 - 6 bar		0,67 (18)	1,36 (19)	2,2 (20)			