

Safety valve, angle type, for neutral air, steam and gaseous media Article 140-RG/B

diameter G 1/2" up to G 2"

Safety valve in extremely compact design. Acc. to the version and sealing the valve can be used for a varied range of applications, for example:

For the protection of:

- pressure tanks and systems for air, neutral gases and vapours
- team boiler Cat. I < 10 liter up to 3 bar

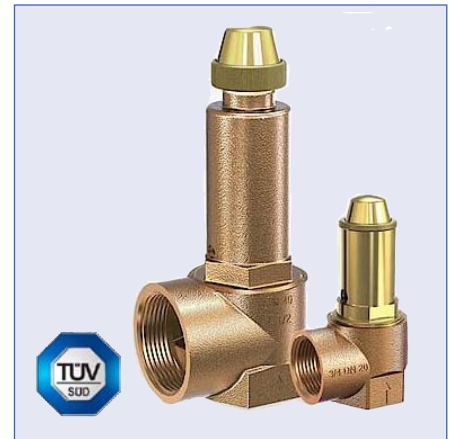
Please observe plant-specific regulations and use of appropriate valve version and sealing material.

- pump protection
- pressure booster plants water-/air-side
- cooling-/chilling-systems
- mini steam generators

Safety valves are set and sealed at the factory.

Connections:

female / female thread (f) BSP-P DIN EN ISO 228-1



CE	DGR 97/23/EG
T ^{°C}	<u>ambient</u> NBR -15°C ... +50°C EPDM -25°C ... +60°C FKM -10°C ... +80°C
T ₅	<u>medium</u> NBR -30°C ... +130°C PTFE -50°C ... +150°C EPDM -20°C ... +200°C



twist-type lifting mechanism
up to size 1"



twist-type lifting mechanism
from size 1 1/4"

Approvals:

TÜV-Type test approval 293, 312 F D/G

EC type examination L S/G

TR ZU 032/2013 - TR ZU 010/2011 F (L) D/G (S/G)

Requirements

AD 2000-data sheet A2
TRD 421

DIN EN ISO 4126-1
DGR 2014/68/EU

Standard Seals:

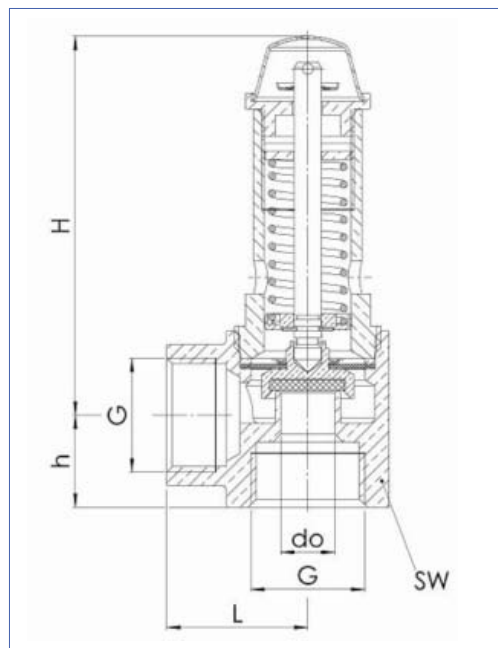
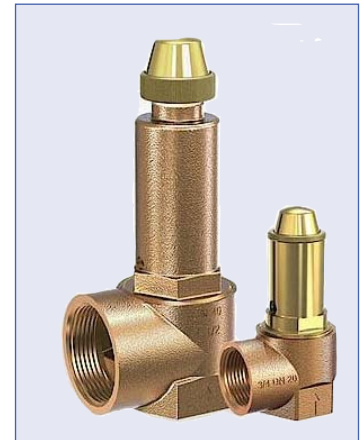
NBR	(P)	Nitrile rubber	Elastomere flat seal (up to 30% glykol)	-30°C to +130°C
EPDM	(E)	Ethylene propylene diene	Elastomere flat seal (up to 100% glykol)	-50°C to +150°C
FKM	(V)	Fluorcarbon	Elastomere flat seal	-20°C to +200°C

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	140-RG/BP	140-RG/BE	140-RG/BV
description	material	material	material
inlet body	red brass CC499K	red brass CC499K	red brass CC499K
outlet body	red brass CC499K	red brass CC499K	red brass CC499K
internal parts	brass CW614N	brass CW614N	brass CW614N
spring	spring steel 1.1200 rust-protected	spring steel 1.1200 rust-protected	spring steel 1.1200 rust-protected
sealing	NBR (Perbunan)	EPDM	FKM (Viton)
characteristics		also for steam boiler acc. to TRD 421 Cat.I < 10 liter up to 3 bar	



	article number									
diameter	140-RG/BP NBR-sealing	140-RG/BE EPDM-sealing	140-RG/BV FKM-sealing	L (mm)	H (mm)	h (mm)	do (mm)	SW (mm)	preset pressure (bar)	weight (kg)
G 1/2"	19.1620.1.63-P	19.1620.1.63-E	19.1620.1.63-V	26	70	17	10	27	1 - 16	0,2
G 3/4"	19.1620.1.65-P	19.1620.1.65-E	19.1620.1.65-V	31	70	18	13	32	1 - 16	0,3
G 1"	19.1620.1.67-P	19.1620.1.67-E	19.1620.1.67-V	35	80	22	16	40	1 - 16	0,5
G 1 1/4"	19.1620.1.68-P	19.1620.1.68-E	19.1620.1.68-V	40	100	25	18	49	1 - 16	0,7
G 1 1/2"	19.1620.1.69-P	19.1620.1.69-E	19.1620.1.69-V	46	140	28	22	56	1 - 16	1,2
G 2"	19.1620.1.71-P	19.1620.1.71-E	19.1620.1.71-V	54	155	34	25	68	1 - 16	1,6

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Performance table:

Blowing-off rates at 10% above set pressure

Blowing-off rates at 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	1	31	25	1,51	53	42	2,55	80	64	3,87	102	81	4,89	152	121	7,31	196	157	9,44
	1,5	40	32	1,85	67	53	3,13	102	81	4,73	128	102	5,99	192	152	8,95	248	197	11,56
	Nm³/h	2	48	38	2,14	81	64	3,61	123	97	5,47	155	122	6,92	232	183	10,33	299	236
Steam II	2,5	56	44	2,39	95	74	4,03	144	113	6,11	182	143	7,73	272	213	11,55	351	275	14,92
	3	64	50	2,62	109	85	4,42	165	129	6,69	208	163	8,47	311	243	12,66	402	314	16,34
	kg/h	3,5	73	-	2,82	123	-	4,77	186	-	7,23	235	-	9,15	351	-	13,67	454	-
Water III	4	81	-	3,02	137	-	5,10	207	-	7,73	262	-	9,78	391	-	14,62	505	-	18,87
	4,5	89	-	3,20	150	-	5,41	228	-	8,20	288	-	10,38	431	-	15,50	556	-	20,02
	m³/h	5	97	-	3,38	164	-	5,71	249	-	8,64	315	-	10,94	471	-	16,34	608	-
	5,5	105	-	3,54	178	-	5,98	270	-	9,06	342	-	11,47	511	-	17,14	659	-	22,13
	6	114	-	3,70	192	-	6,25	291	-	9,47	368	-	11,98	550	-	17,90	711	-	23,11
	6,5	122	-	3,85	206	-	6,51	312	-	9,85	395	-	12,47	590	-	18,63	762	-	24,06
	7	130	-	3,99	220	-	6,75	333	-	10,23	422	-	12,94	630	-	19,33	814	-	24,97
	7,5	138	-	4,13	234	-	6,99	354	-	10,59	448	-	13,40	670	-	20,01	865	-	25,84
	8	147	-	4,27	248	-	7,22	375	-	10,93	475	-	13,84	710	-	20,67	917	-	26,69
	8,5	155	-	4,40	262	-	7,44	396	-	11,27	502	-	14,26	750	-	21,30	968	-	27,51
	9	163	-	4,53	276	-	7,65	418	-	11,60	528	-	14,68	789	-	21,92	1019	-	28,31
	9,5	171	-	4,65	290	-	7,86	439	-	11,91	555	-	15,08	829	-	22,52	1071	-	29,08
	10	180	-	4,77	303	-	8,07	460	-	12,22	582	-	15,47	869	-	23,11	1122	-	29,84
	11	196	-	2,78	331	-	6,82	502	-	12,82	635	-	14,42	949	-	23,56	1225	-	31,30
	12	212	-	2,91	359	-	7,12	544	-	13,39	688	-	15,06	1028	-	24,61	1328	-	32,69
	13	229	-	3,02	387	-	7,41	586	-	13,94	742	-	15,68	1108	-	25,62	1431	-	34,02
	14	245	-	3,14	415	-	7,69	628	-	14,46	795	-	16,27	1188	-	26,58	1534	-	35,31
	15	262	-	3,25	443	-	7,96	670	-	14,97	848	-	16,84	1267	-	27,52	1637	-	36,55
	16	278	-	3,36	470	-	8,22	713	-	15,46	902	-	17,39	1347	-	28,42	1740	-	37,75