

Safety valve, angle type with membrane for neutral liquids, article 140-RG

Diameter G 1/2" up to G 2"

Safety valve in extremely compact design with diaphragm for neutral liquids and liquids in cooling circuits without counter pressure. Spring, moving parts and the environment are protected from being affected by the medium.

Depending on the design and seal, can be used for a wide variety of applications, for example to protect:

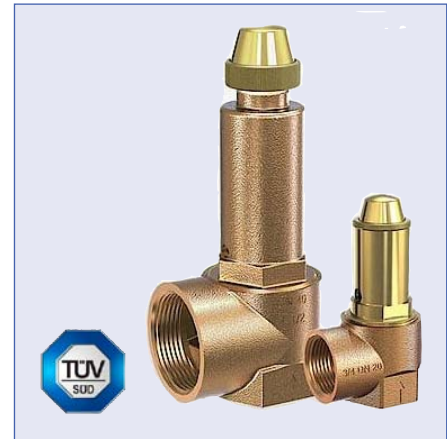
- Pressure vessels/systems for water and neutral liquids under consideration of plant-specific regulations and the use of the appropriate valve design and seals.

- Pump protection
- Pressure boosting systems on the water side
- Cooling/refrigeration plants

Safety valves are permanently 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	Ambient		
	NBR	-15°C ... +50°C	
	EPDM	-25°C ... +60°C	
	FKM	-10°C ... +80°C	
T°C	Medium		
	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 F D/G

EU 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

DIN EN ISO 4126-1

TRD 421

DGR 2014/68/EU

Standard Seals:

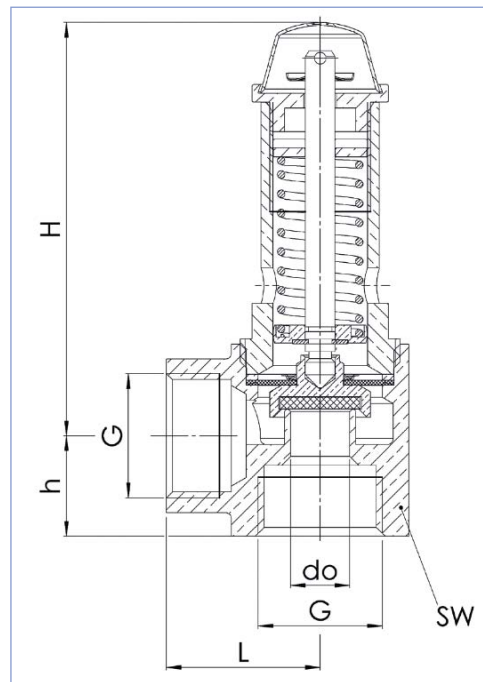
NBR	(P)	Nitrile rubber	Elastomere flat seal (up to 30% glykol)	-30°C to +130°C
EPDM	(E)	Ethylene propylene diene	Elastomere flat seal (up to 100% glykol)	-50°C to +150°C
FKM	(V)	Fluorocarbon	Elastomere flat seal	-20°C to +200°C

Article 140-RG

	140-RG/P	140-RG/E	140-RG/V
Description	Material	Material	Material
Inlet body	Gunmetal CC499K	Gunmetal CC499K	Gunmetal CC499K
Outlet body	Gunmetal CC499K	Gunmetal CC499K	Gunmetal CC499K
Internal parts	Brass CW614N	Brass CW614N	Brass CW614N
Pressure spring	Spring steel 1.1200 with anti-rust protection	Spring steel 1.1200 with anti-rust protection	Spring steel 1.1200 with anti-rust protection
Seal	NBR (Perbunan)	EPDM	FKM (Viton)

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Diameter	Article Number:			L (mm)	H (mm)	h (mm)	do (mm)	SW (mm)	Preset pressure (bar)	Weight (kg)
	140-RG/P NBR-Seal	140-RG/E EPDM-Seal	140-RG/V FKM-Seal							
G 1/2"	19.1619.1.63-P	19.1619.1.63-E	19.1619.1.63-V	26	70	17	10	27	1 - 16	0,2
G 3/4"	19.1619.1.65-P	19.1619.1.65-E	19.1619.1.65-V	31	70	18	13	32	1 - 16	0,3
G 1"	19.1619.1.67-P	19.1619.1.67-E	19.1619.1.67-V	35	80	22	16	40	1 - 16	0,5
G 1 1/4"	19.1619.1.68-P	19.1619.1.68-E	19.1619.1.68-V	40	100	25	18	49	1 - 16	0,7
G 1 1/2"	19.1619.1.69-P	19.1619.1.69-E	19.1619.1.69-V	46	140	28	22	56	1 - 16	1,2
G 2"	19.1619.1.71-P	19.1619.1.71-E	19.1619.1.71-V	54	155	34	25	68	1 - 16	1,6

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Capacity table:

Blowing-off rates at 10% above set pressure

Nominal diameter DN		15	20	25	32	40	50
Set pressure bar							
Water m ³ /h	1	1,5	2,6	3,9	4,9	7,3	9,4
	1,5	1,8	3,1	4,7	6,0	8,9	11,6
	2	2,1	3,8	5,5	6,9	10,3	13,3
	2,5	2,4	4,0	6,1	7,7	11,6	14,9
	3	2,6	4,4	6,7	8,5	12,7	16,3
	3,5	2,8	4,8	7,2	9,2	13,7	17,7
	4	3,0	5,1	7,7	9,8	14,6	18,9
	4,5	3,2	5,4	8,2	10,4	15,5	20,0
	5	3,4	5,7	8,6	10,9	16,3	21,1
	5,5	3,5	6,0	9,1	11,5	17,1	22,1
	6	3,7	6,3	9,5	12,0	17,9	23,1
	6,5	3,8	6,5	9,9	12,5	18,6	24,1
	7	4,0	6,8	10,2	12,9	19,3	25,0
	7,5	4,1	7,0	10,6	13,4	20,0	25,8
	8	4,3	7,2	10,9	13,8	20,7	26,7
	8,5	4,4	7,4	11,3	14,3	21,3	27,5
	9	4,5	7,7	11,6	14,7	21,9	28,3
	9,5	4,7	7,9	11,9	15,1	22,5	29,1
	10	4,8	8,1	12,2	15,5	23,1	29,8
	11	2,8	6,8	12,8	14,4	23,6	31,3
	12	2,9	7,1	13,4	15,1	24,6	32,7
	13	3,0	7,4	13,9	15,7	25,6	34,0
	14	3,1	7,7	14,5	16,3	26,6	35,3
	15	3,2	8,0	15,0	16,8	27,5	36,5
	16	3,4	8,2	15,5	17,4	28,4	37,7