

Slide valve pressure regulator Series SG17/SG26



Design type	SG17 Pressure regulator, self media-operated, Sandwich mounting version SG26 Pressure relief valve, self media-operated, Sandwich mounting version
Overall length	according to EN558-1R20
Connection	Flanges DN15...DN125 according to EN1092-1 Form B, PN10-40
Materials	Housing Stainless steel 1.4408, PTFE packing with carbon filled, Actuating rod stainless steel 1.4571, Intermediate tube/Packaging tube Stainless steel 1.4571/1.4581, Compression springs Stainless steel 1.4310; Diaphragm housing Stainless steel 1.4571
Sliding pair	Stainless steel/special carbon: Sealing washer fixed Stainless steel 1.4571 coated and Sealing washer movable Special carbon Stainless steel/SFC: Sealing washer fixed Stainless steel 1.4571 coated and Sealing washer movable SFC STN2: Sealing washer fixed and Sealing washer movable STN2
Leakage rate (% of Kvs)	Stainless steel/special carbon < 0,0001 Stainless steel/SFC < 0,0005 STN2 < 0,001
Mounting type	Installation in rigid piping system
Mounting position	any - preferred diaphragm actuator suspended
Application range	gaseous and liquid media, that do not attack the materials used
Medium temperature	-60...+230°C for special versions up to 300°C
Medium temperature Actuator	Diaphragm CR: -20...80°C (Standard) Diaphragm EPDM: -30...130°C Diaphragm EPDM-FDA: -30...130°C Diaphragm FKM: -15...150°C
Ambient temperature	max. -20°C...80°C
Operating pressure	see tables

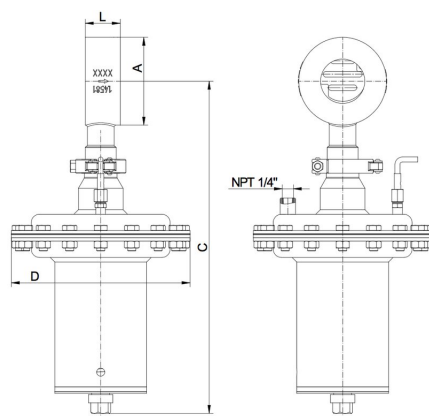


Type code

SG 17 - 50 - W WC 4/10 - 01									
Type	Pressure regulator	17							
	Pressure relief valve	26							
Connection	DN15	15							
	DN20	20							
	DN25	25							
	DN32	32							
	DN40	40							
	DN50	50							
	DN65	65							
	DN80	80							
	DN100	100							
	DN125	125							
Housing material	Stainless steel 1.4408		W						
Sliding pair	Stainless steel/special carbon		WC						
	Stainless steel/SFC		WF						
	STN2		WN						
Pressure range	0,3-1,2bar				0,3/1,2				
	1-2,5bar				1/2,5				
	2-5bar				2/5				
	4-10bar				4/10				
Special version	described in the item text				01,02,03....				
	Kvs values reduced to								
	Characteristic curve linear/equal percentage								
	Diaphragm material EPDM								
	Diaphragm material EPDM-FDA								
	Diaphragm material FKM								
	Diaphragm material CR + PTFE-Film								
	Diaphragm material EPDM + PTFE-Film								
	Diaphragm material FKM + PTFE-Film								



Dimensions



Nominal size DN [mm]	A	C max.	D	Stroke	L	Weight at Pressure range [kg]			
						4 - 10	2 - 5	1 - 2,5	0,5 - 1,2
15	53	389	220	6	33	10,3	10,3	9,2	8,4
20	62	393	220	6	33	10,4	10,4	9,3	8,5
25	72	398	220	6	33	10,7	10,7	9,6	8,9
32	82	401	220	6	33	11	11	9,9	9,1
40	92	406	220	6	33	11,3	11,3	10,2	9,4
50	108	416	220	8	43	12,5	12,5	11,4	10,6
65	127	425	220	8	46	13,8	13,8	12,7	11,9
80	142	434	220	8	46	14,6	14,6	13,5	12,7
100	164	456	220	8,5	52	17,4	17,4	16,3	15,5
125	194	470	220	8,5	56	21	21	19,9	19,1

Application limits - maximum permissible inlet pressures in bar

Nominal size [mm]	Stainless steel/special carbon - Stainless steel/SFC						STN2					
	100°C	150°C	200°C	250°C	300°C	350°C	100°C	150°C	200°C	250°C	300°C	350°C
15 - 25	40	36	31	28	26	24	40	36	31	28	26	24
32	40	36	31	28	26	24	40	36	31	28	25	22
40	40	36	31	28	26	24	27	26	24	19,5	16	14
50	40	36	31	28	26	24	40	36	31	28	26	24
65	40	36	31	28	26	24	38	36	31	28	23	19,5
80	40	36	31	28	26	24	22	21	20	16	13	11,5
100	25	24	22	19	16	14,5	13,5	12,5	12	9,8	8,1	7
125	16,5	15,5	15	12,5	10,5	9,5	8,9	8,4	8	6,5	5,3	4,6



Permissible differential pressures in bar for pressure regulators (for temperatures up to 120°C)*

Pressure range [bar] :	Stainless steel/special carbon - Stainless steel/SFC				STN2			
	4-10	2-5	1-2,5	0,3-1,2	4-10	2-5	1-2,5	0,3-1,2
15	40	40	40	40	40	40	40	21
20	40	40	40	38	30	30	33	12
25	40	40	40	24	19	19	21	8
32	31	31	31	16	11	11	13	5
40	20	20	22	10	7	7	8	3,3
50	11	11	12	5,6	4	4	4,5	1,8
65	9	9	10	4,5	3	3	3,5	1,5
80	5	5	6	2,6	1,8	1,8	2	0,8
100	3,2	3,2	3,6	1,6	1	1	1,2	0,5
125	2	2	2,4	1,1	0,7	0,7	0,8	0,3

*At temperatures above 120°C observe application limits

Permissible differential pressures in bar for relief valve (for temperatures up to 120°C)*

Pressure range [bar] :	Stainless steel/special carbon - Stainless steel/SFC				STN2			
	4-10	2-5	1-2,5	0,3-1,2	4-10	2-5	1-2,5	0,3-1,2
15	10	5	2,5	1,2	10	5	2,5	1,2
20	10	5	2,5	1,2	10	5	2,5	1,2
25	10	5	2,5	1,2	10	5	2,5	1,2
32	10	5	2,5	1,2	10	5	2,5	1,2
40	10	5	2,5	1,2	7	5	2,5	1,2
50	10	5	2,5	1,2	4	4	2,5	1,2
65	9	5	2,5	1,2	3	3	2,5	1,2
80	5	5	2,5	1,2	1,8	1,8	2	0,8
100	3,2	3,2	2,5	1,2	1	1	1,2	0,5
125	2	2	2,4	1,0	0,7	0,7	0,8	0,3

*At temperatures above 120°C observe application limits



Kvs values

Nominal size DN [mm]	Characteristic curve	Kvs value [m³/h]												
		100%	63%	40%	25%	20%	16%	12%	10%	6,3%	2,5%	2%	1%	0,4%
15	linear	4	2,6	1,7	1,4	-	0,71	0,49	0,44	0,26	0,14	0,08	0,04	0,018
	equal percentage	1,7	-	1,1	-	0,35	-	-	-	0,1	-	-	-	-
20	linear	6,4	-	-	-	-	1	-	-	-	-	0,13	-	-
	equal percentage	3	-	1,5	-	-	-	-	-	-	-	-	-	-
25	linear	11	6,4	4	-	-	1,6	-	0,93	0,62	0,26	-	0,14	0,04
	equal percentage	5	-	2,4	-	1,1	-	-	-	0,35	-	-	-	-
32	linear	16	10	-	-	-	-	-	-	-	-	-	-	-
	equal percentage	8	4,7	-	-	-	-	-	-	-	-	-	-	-
40	linear	26	16	11	7	-	-	-	-	-	-	-	-	-
	equal percentage	11	8,5	-	2,75	-	-	-	-	-	-	-	-	-
50	linear	45	28	20	12	10	-	-	-	-	-	-	-	-
	equal percentage	19	12	-	-	-	3	-	-	-	-	-	-	-
65	linear	52	35	-	15	-	-	-	-	-	-	-	-	-
	equal percentage	30	-	-	8	-	-	-	-	-	-	-	-	-
80	linear	92	58	40	-	-	-	-	-	-	-	-	-	-
	equal percentage	48	35	-	-	-	-	-	-	-	-	-	-	-
100	linear	154	95	62	-	-	-	-	-	-	-	-	-	-
	equal percentage	77	48	-	-	-	-	-	-	-	-	-	-	-
125	linear	237	-	95	-	-	-	-	-	-	-	-	-	-
	equal percentage	116	-	-	-	-	-	-	-	-	-	-	-	-

Illustrations non-binding

Design, dimensional and material changes reserved

Armatures / Special armatures / Sliding gate control valves / Sliding gate-pressure regulator Series SG17 / [SG17...] Sliding gate-pressure regulator SG17...

