

High Temperature Valve 8053

GS 3 series DN 15 up to DN 200

SCHUBERT & SALZER
CONTROL SYSTEMS

Pneumatic manual control valve for the control of neutral through to highly aggressive media in process engineering, chemical industries and for plant equipment.

- Space-saving wafer-type design
- Lowest possible weight
- Quiet operation
- Precise control by hand
- Control of high differential pressures
- High Kvs-values

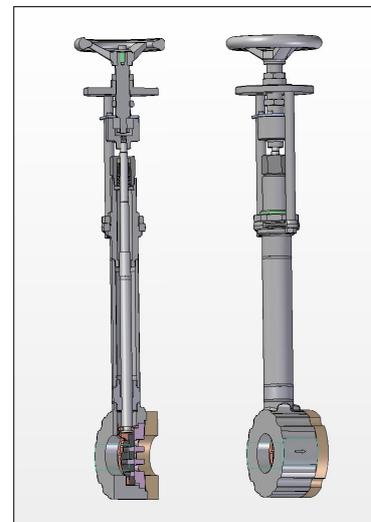
Technical Information

Design	wafer-type design	
Nominal sizes	DN 15 up to DN 200	
Nominal pressure acc. DIN	PN 40 (fits also to PN 10-25)	DN 15 - DN 150
	PN 100	DN 15 - DN 80
	PN 16	DN 200
Nominal pressure acc. ANSI	ANSI 150	DN15 - DN 200
	ANSI 300	DN 15 - DN 150
	ANSI 600	DN 15 - DN 80
Fluid temperature	-60°C up to +450°C for function unit carbon-stainless steel -60°C up to +450°C for function unit STN2 up to +530°C with bellows from Inconel 625 and function unit STN2	
Leakage rate (% of Kvs-value)	function unit carbon-stainless steel <0,0001 function unit STN2 <0,001	

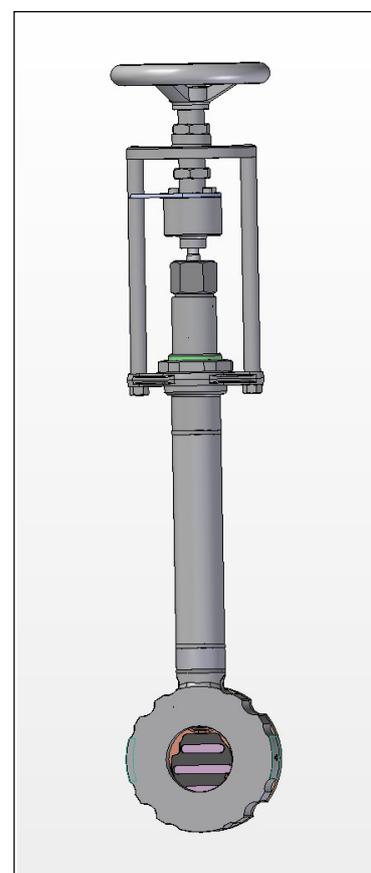
K_{vs}-values see data sheet 8001.

Materials

Body	Stainless steel 1.4571	
Head section	Stainless steel 1.4571	
Packing	PTFE (Carbon filled), spring 1.4310	
Actuating stem	Stainless steel 1.4571, roller burnished	
Bellows	Stainless steel 1.4571 or Inconel 625	
Fixed disc	Stainless steel 1.4571, coated	STN2-disc
Sliding disc	Special carbon material	STN2-disc
Guide ring for sliding disc	Stainless steel 1.4581	



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High Temperature Valve 8053-GS3

manual control valve



Maximal Differential Pressures

PN 40

		Sliding unit: carbon - stainless steel, coated						
		max. admissible diff. pressures for GS3-valves						
DN	up to 120°C	200°C	250°C	300°C	350°C	400°C	450°C	
15 - 65	40	34	32	31	29	27	25	
80	40	34	32	31	29	27	25	
100	33	29	27	25	24	24	23	
125	23	20	19	18	17	16	16	
150	16	14	13	12	12	11	11	
200 (PN16 only)	16	14	13	12	11	10	9	

		Sliding unit: STN2							
		max. admissible diff. pressures for GS3-valves							
DN	up to 120°C	200°C	250°C	300°C	350°C	400°C	450°C	500°C	530°C
15 - 65	40	34	32	31	29	27	25	15	5
80	36	33	26	22	19	16	14	13	5
100	22	22	22	20	17	15	13	12	5
125	14	14	14	13	11	10	8,5	8	5
150	10	10	10	9	8	7	6	5,5	5

PN 100

		Sliding unit: carbon - stainless steel, coated						
		max. admissible diff. pressures for GS3-valves						
DN	up to 120°C	200°C	250°C	300°C	350°C	400°C	450°C	
15	100	87	82	77	72	67	64	
25	100	87	82	77	72	67	64	
40	100	87	82	77	72	67	64	
50	100	87	82	77	72	67	64	
65	80	72	67	62	60	58	56	
80	48	43	40	37	36	35	33	

		Sliding unit: STN2							
		max. admissible diff. pressures for GS3-valves							
DN	up to 120°C	200°C	250°C	300°C	350°C	400°C	450°C	500°C	530°C
15	100	87	82	77	72	67	64	37	13
25	100	87	82	77	72	67	64	37	13
40	72	65	53	43	37	32	29	26	13
50	77	70	56	46	40	35	31	28	13
65	62	56	45	37	32	28	25	22	13
80	36	33	26	22	19	16	14	13	12

* Flansche DN 20 und DN 32 sind in den Nenndruckstufen PN 63 und PN 100 nicht genormt.

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ANSI #150

		Sliding unit: carbon - stainless steel, coated					
		max. admissible diff. pressures for GS3-valves					
DN	up to 120°C	200°C	250°C	300°C	350°C	400°C	450°C
15 - 125	16	13	12	10	8	6,5	4,5
150	16	13	12	10	8	6,5	4,5
200	16	13	12	10	8	6,5	4,5

		Sliding unit: STN2							
		max. admissible diff. pressures for GS3-valves							
DN	up to 120°C	200°C	250°C	300°C	350°C	400°C	450°C	500°C	530°C
15 - 100	16	13	12	10	8	6,5	4,5	1,5	0,3
125	14	13	11	9,5	8	6,5	4,5	1,5	0,3
150	10	10	10	9,5	8	6,5	4,5	1,5	0,3

ANSI #300

		Sliding unit: carbon - stainless steel, coated					
		max. admissible diff. pressures for GS3-valves					
DN	up to 120°C	200°C	250°C	300°C	350°C	400°C	450°C
15 - 65	40	35	33	31	30	29	28
80	40	35	33	31	30	29	28
100	33	29	27	25	24	24	23
125	23	20	19	18	17	16	16
150	16	14	13	12	12	11	11
200 (PN16 only)	16	14	13	12	11	10	9

		Sliding unit: STN2							
		max. admissible diff. pressures for GS3-valves							
DN	up to 120°C	200°C	250°C	300°C	350°C	400°C	450°C	500°C	530°C
15 - 65	40	35	32	31	29	27	25	16	5
80	36	33	26	22	19	16	14	13	5
100	22	22	22	20	17	15	13	12	5
125	14	14	14	13	11	10	8,5	8	5
150	10	10	10	9	8	7	6	5,5	5

ANSI #600

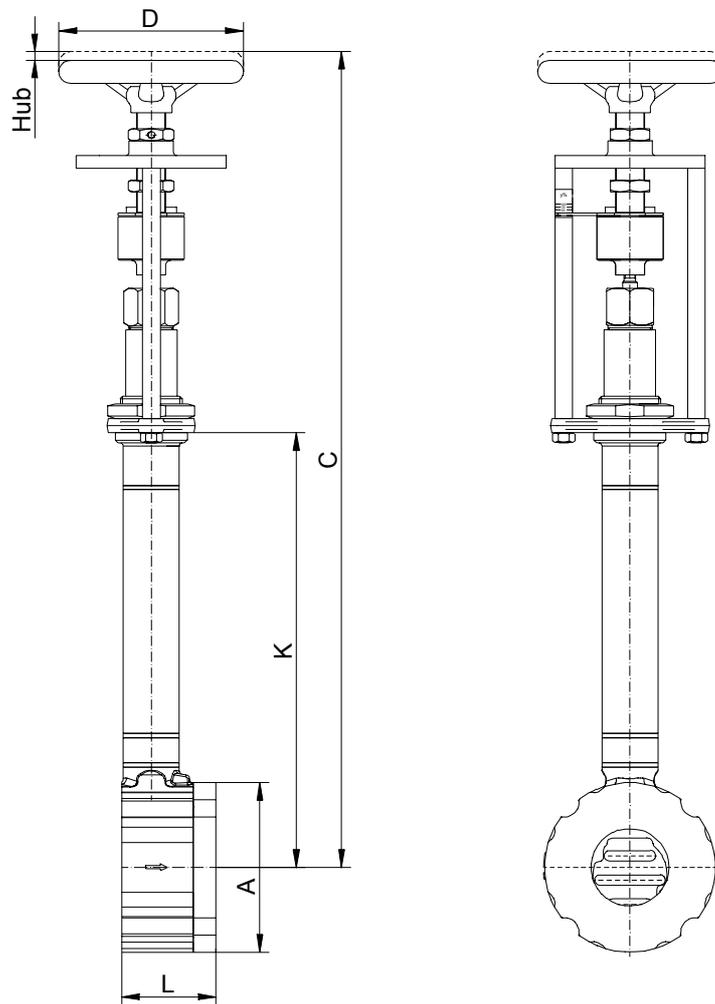
		Sliding unit: carbon - stainless steel, coated					
		max. admissible diff. pressures for GS3-valves					
DN	up to 120°C	200°C	250°C	300°C	350°C	400°C	450°C
15 - 32	80	71	66	63	60	58	56
40	80	71	66	63	60	58	56
50	80	71	66	63	60	58	56
65	80	71	66	62	60	58	56
80	48	43	40	37	36	35	33

		Sliding unit: STN2							
		max. admissible diff. pressures for GS3-valves							
DN	up to 120°C	200°C	250°C	300°C	350°C	400°C	450°C	500°C	530°C
15 - 32	80	71	66	63	60	52	46	33	11
40	72	65	53	43	37	32	29	26	11
50	77	70	56	46	40	35	31	28	11
65	62	56	45	37	32	28	25	22	11
80	36	33	26	22	19	16	14	13	11

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Dimensions and Weights



DN	A mm	C mm	K mm	Ø D	L mm	Weight kg	Stroke mm
15	64	495	272	125	56	7,5	6
20	72	500	276,5	125	56	7,7	6
25	82	505	281	125	56	8,2	6
32	89	510	283,5	125	56	8,5	6
40	99	515	289	125	56	9	6
50	116	525	297,5	125	64	10,5	8
65	138	535	306,5	125	68	12,5	8
80	153	545	315	125	70	13,5	8
100	184	555	328	125	75	16,5	8,5
125	212	570	342,5	125	80	19,5	8,5
150	242	585	356	125	80	23	8,5
200	302	615	384	125	95,5	40	8,5

Dimensions in mm