

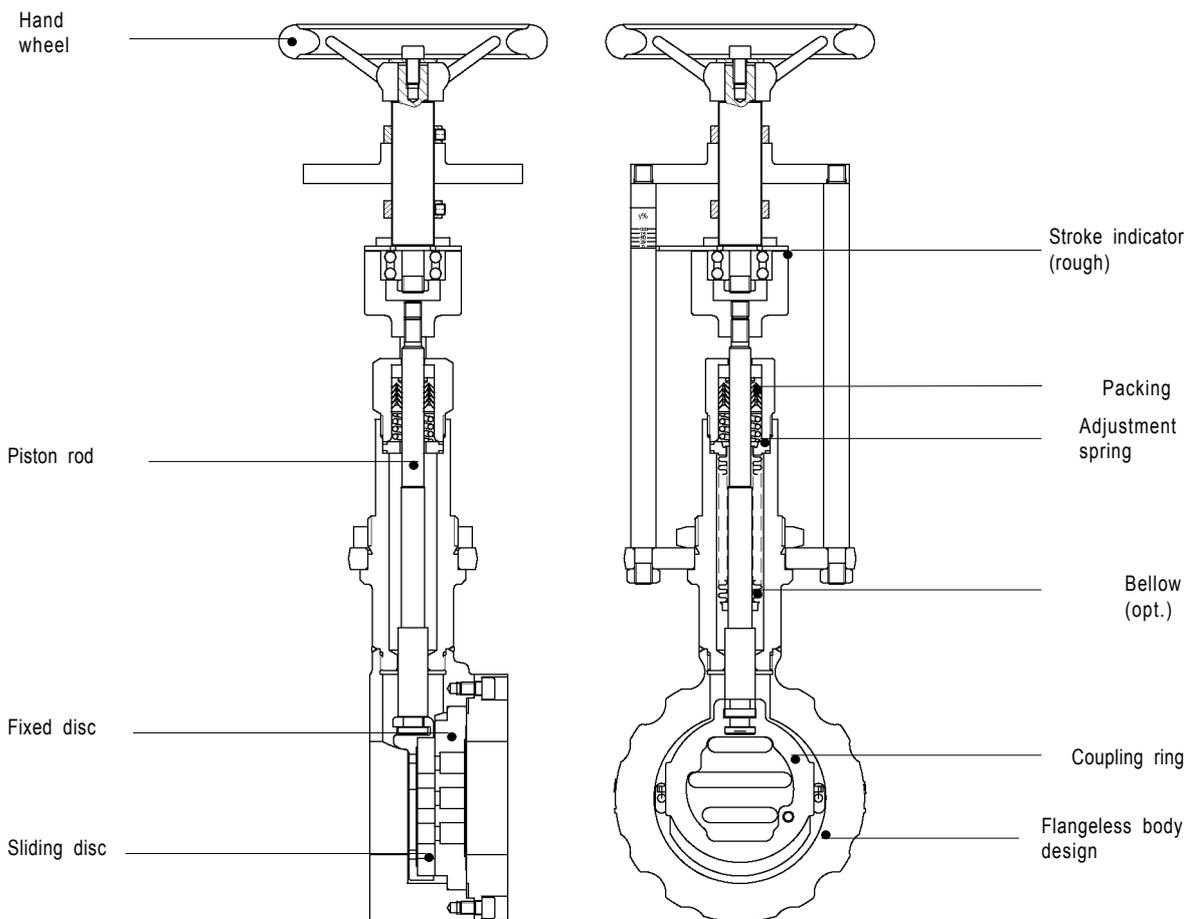
Manual Control Valve 8050

GS3 series DN 15 up to DN 200



Manual control valve for neutral through to highly aggressive media.

- Precise control by hand
- Lowest possible weight (especially in larger sizes)
- High Kvs-values
- Low leakage rate
- High tightness
- Simple handling of high pressure differences



Manual Control Valve 8050-GS3

Technical Information

Body design	Flangeless, wafer-type construction more versions see on data-sheet 8050/51-GS1	
Nominal sizes	DN 15 to DN 200	
Nominal pressure acc. DIN 2401	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
Media temperature	Carbon steel body	-10°C up to +300°C
	Stainless steel body	-60°C up to +350°C
Leakage rate (% of Kvs-value)	Disc pair Carbon-stainless steel	Disc pair STN2
	< 0.0001	< 0.001

Materials

Body	Stainless steel 1.4571 / 1.4581	Carbon steel 1.0570 /1.0619
Head section	Stainless steel 1.4571 /1.4581	
Packing	PTFE (Carbon filled), spring 1.4310	
Actuating stem	Stainless steel 1.4571, roller burnished	
Bellows	Stainless steel 1.4571	
Fixed disc	Stainless steel 1.4571, coated	STN2-disc
Sliding disc	Special carbon material, metallically impregnated	STN2-disc
Guide ring for sliding disc	Stainless steel 1.4571	

Manual Control Valve 8050-GS3



Max. Differential Pressures for GS3-Valves made of stainless steel

PN 40

DN	Sliding unit: carbon - stainless steel, coated					
	max. admissible diff. pressures for GS3-valves					
	up to 120°C	150°C	200°C	250°C	300°C	350°C
15 - 65	40	38	34	32	31	29
80	40	38	34	32	31	29
100	33	31	29	27	25	24
125	23	21	20	19	18	17
150	16	15	14	13	12	12
200 (PN16 only)	16	15	14	13	12	11,0

DN	Sliding unit: carbon - STN2					
	max. admissible diff. pressures for GS3-valves					
	up to 120°C	150°C	200°C	250°C	300°C	350°C
up to 120°C	40	38	34	32	31	29
150°C	36	34	33	26	22	19
200°C	22	22	22	22	20	17
250°C	14	14	14	14	13	11
300°C	10	10	10	10	9,0	8,0
350°C	-	-	-	-	-	-

PN 100

DN	Sliding unit: carbon - stainless steel, coated					
	max. admissible diff. pressures for GS3-valves					
	up to 120°C	150°C	200°C	250°C	300°C	350°C
15	100	92	87	82	77	72
25	100	92	87	82	77	72
40	100	92	87	82	77	72
50	100	92	87	82	77	72
65	80	76	72	67	62	60
80	48	45	43	40	37	36

DN	Sliding unit: STN2					
	max. admissible diff. pressures for GS3-valves					
	up to 120°C	150°C	200°C	250°C	300°C	350°C
up to 120°C	100	92	87	82	77	72
150°C	100	92	87	82	77	72
200°C	72	69	65	53	43	37
250°C	77	73	70	56	46	40
300°C	62	59	56	45	37	32
350°C	36	34	33	26	22	19

ANSI #150

DN	Sliding unit: carbon - stainless steel, coated					
	max. admissible diff. pressures for GS3-valves					
	up to 120°C	150°C	200°C	250°C	300°C	350°C
15 - 100	16	15	13	12	10	8
125	16	15	13	12	10	8
150	16	15	13	12	10	8
200	16	15	13	12	10	8

DN	Sliding unit: carbon - STN2					
	max. admissible diff. pressures for GS3-valves					
	up to 120°C	150°C	200°C	250°C	300°C	350°C
up to 120°C	16	15	13	12	10	8
150°C	14	14	13	11	9,5	8
200°C	10	10	10	10	9,5	8
250°C	-	-	-	-	-	-
300°C	-	-	-	-	-	-
350°C	-	-	-	-	-	-

ANSI #300

DN	Sliding unit: carbon - stainless steel, coated					
	max. admissible diff. pressures for GS3-valves					
	up to 120°C	150°C	200°C	250°C	300°C	350°C
15 - 65	40	38	35	33	31	30
80	40	38	35	33	31	30
100	33	31	29	27	25	24
125	23	21	20	19	18	17
150	16	15	14	13	12	12

DN	Sliding unit: carbon - STN2					
	max. admissible diff. pressures for GS3-valves					
	up to 120°C	150°C	200°C	250°C	300°C	350°C
up to 120°C	40	38	35	32	31	29
150°C	36	34	33	26	22	19
200°C	22	22	22	22	20	17
250°C	14	14	14	14	13	11
300°C	10	10	10	10	9	8
350°C	-	-	-	-	-	-

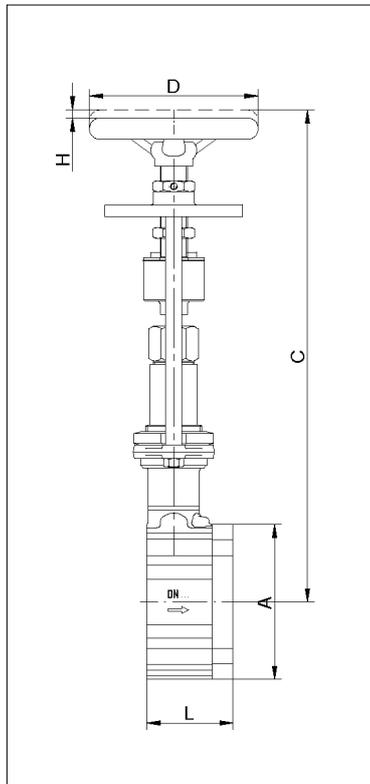
ANSI #600

DN	Sliding unit: carbon - stainless steel, coated					
	max. admissible diff. pressures for GS3-valves					
	up to 120°C	150°C	200°C	250°C	300°C	350°C
15 - 32	80	77	71	66	63	60
40	80	77	71	66	63	60
50	80	77	71	66	63	60
65	80	76	71	66	62	60
80	48	45	43	40	37	36

DN	Sliding unit: STN2					
	max. admissible diff. pressures for GS3-valves					
	up to 120°C	150°C	200°C	250°C	300°C	350°C
up to 120°C	80	77	71	66	63	60
150°C	72	69	65	53	43	37
200°C	77	73	70	56	46	40
250°C	62	59	56	45	37	32
300°C	36	34	33	26	22	19
350°C	-	-	-	-	-	-

Manual Control Valve 8050-GS3

Dimensions and Weights



DN	A	C max	D	L	Weight kg	Stroke H
15	64	332	125	56	4	6
20	72	337	125	56	4,3	6
25	82	342	125	56	4,6	6
32	89	344	125	56	4,8	6
40	99	347	125	56	5,1	6
50	116	362	125	64	6,6	8
65	138	372	125	68	8,1	8
80	153	377	125	70	9,3	8
100	184	392	125	75	12,5	8,5
125	212	407	125	80	15	8,5
150	242	422	125	80	18,5	8,5
200	302	452	125	93	35	8,5

Dimensions in mm