

GS 1 series DN 15 up to DN 150

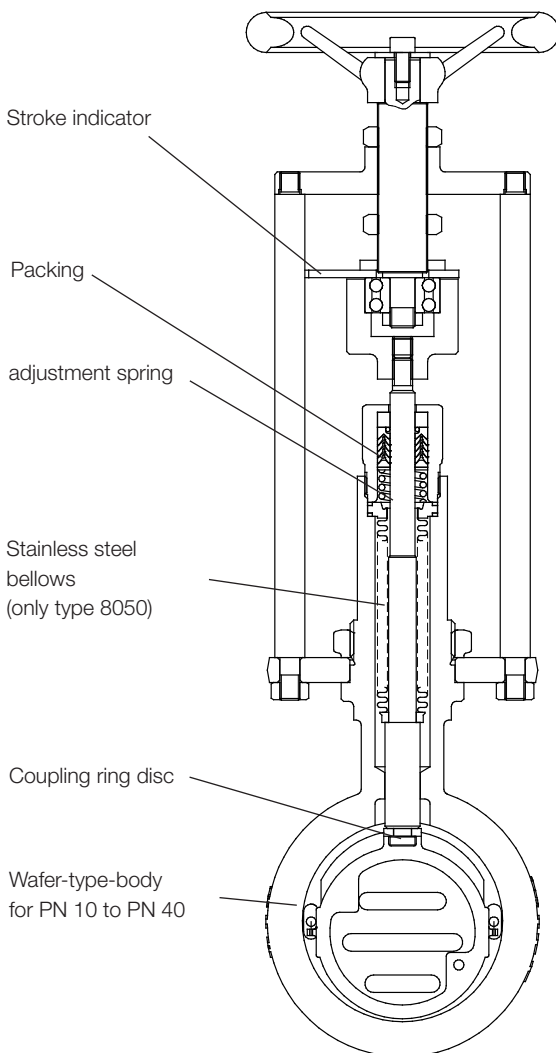
Manual control valve for neutral through to highly aggressive media.

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

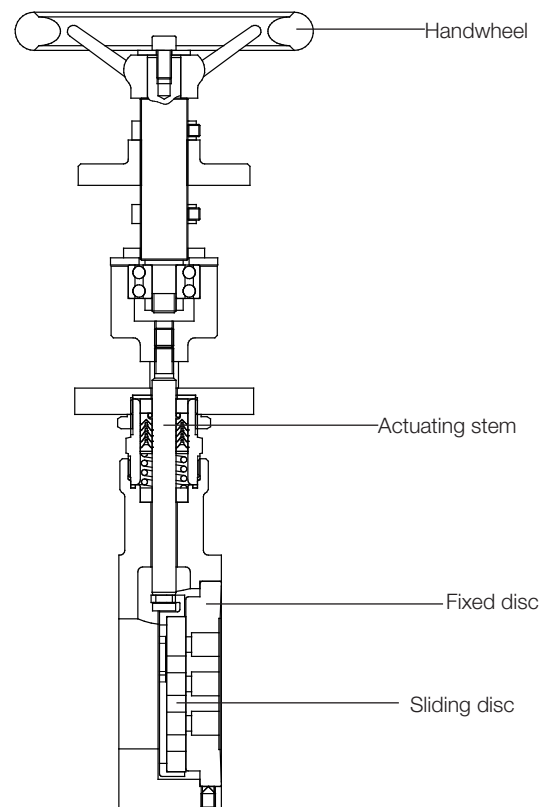


Packing tested according to TA-Luft as defined in DIN EN ISO 15848-1 and VDI 2440

**Type 8050
(long design)**



**Type 8051
(short design)**



Manual Control Valve 8050/51



DN 15 up to DN 150

Technical Information

Body design	Flangeless, wafer-type construction dimensions to DIN EN 558-1 series 20		
Nominal sizes	DN 15 up to DN 150 Type 8050 DN 15 up to DN 125 Type 8051		
Nominal pressure	PN 40 acc. DIN 2401 also for flanges PN 10 up to PN 25		
Media temperature	Body carbon steel	-10°C up to +300°C	
	Body stainless steel	-60°C up to +350°C (+300°C for SFC)	
	Body (short)	up to +230°C	
Leakage (% of Kvs)	Disc pair Carbon-stainless steel < 0,0001	Disc pair SFC < 0,0005	Disc pair STN 2 < 0,001

Admissible Differential Pressure (For temperatures of up to 120°C)

**For temperatures of 120°C and above:
obey application limits !**

DN	carbon/SFC- stainless steel	STN2
	max. differential pressures	
	bar	bar
15	40	40
20	40	40
25	40	40
32	40	40
40	40	27
50	40	40
65	40	38
80	40	22
100	25	13
125	16	9
150	16	11

Applications limits for GS1-Valves

PN 40

DN	Sliding unit: carbon/SFC - stainless steel, coated						Sliding unit: carbon - STN2					
	max. admissible pressures for GS1-valves						max. admissible pressures for GS1-valves					
	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	26	25	24	19	16	14
50	40	36	31	28	26	24	40	36	31	28	26	24
65	40	36	31	28	26	24	37	35	31	27	22	19
80	40	36	31	28	26	24	22	20	19	16	13	11
100	24	23	22	19	17	16	13	12	12	9	8	6
125	16	15	14	13	11	10	8	8	7	6	5	4
150	16	16	16	16	14	13	10	10	9	7	6	5

Limitation for SFC-sliding discs: 300°C

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Materials

Body	Carbon steel 1.0619	Stainless steel 1.4581 or 1.4408	
Packing	PTFE (Carbon filled), spring 1.4310		
Actuating stem	Stainless steel 1.4571, roller burnished		
Bellows	Stainless steel 1.4571		
Fixed disc	Stainless steel 1.4581, coated	STN2-disc	
Sliding disc	Special carbon material	SFC-disc	STN2-disc
Coupling ring for disc	Stainless steel 1.4581		
Handwheel	Aluminium		

Ordering Number System

8	0	5	0	/			V	B											M	

Type Size

1 2 3 4 5 6 7 8 9 10 11...16

Symbol: "V": Valve

"R": Repair kit (sealings)

1 - 5 : Please quote all 5 sections.
6 - 16: Quote only if required.

1. Type	2. Connection	3. Body material	4.	5. Actuator	6. Special versions
A GS manual valve type 8051 (short design) B GS manual valve type 8050 (long design)	0 Flangeless design acc. DIN 2632-2635 (PN10-PN40)	0 Carbon steel 1.0619 1 stainless steel 1.4581 or 1.4408	- without significance	5 manually operated	M Special versions
7.	8 Stem sealing	9. Moving disc	10. Fixed plate	11. Kvs-values	12. Characteristic
- without significance	- PTFE-packing self adjusting (standard) 1 additional bellows 1.4571	- Carbon material 9 STN2-disc S SFC-disc	- Stainless steel 1.4571, coated 1 STN2-plate	- 100% (Stand.) A red. to 63% 1 red. to 40% B red. to 25% 2 red. to 16% C red. to 10% 3 red. to 6,3% 4 red. to 2,5% 5 red. to 1% 6 red. to 20% 7 red. to 12% 8 red. to 2% 9 red. to 0,4%	- linear 1 equal percentage

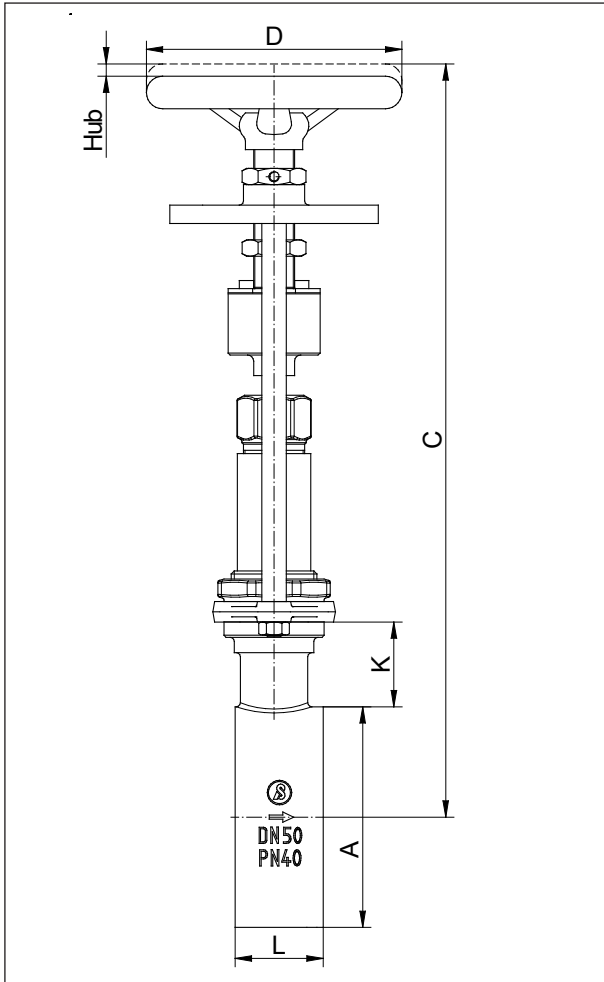
Ordering Example:

8050/125VB00 - 5M - 1:
GS manual control valve (long design), DN 125, PN 10/40, C-steel 1.0570, Actuator manual operating, additional stainless steel bellows 1.4571

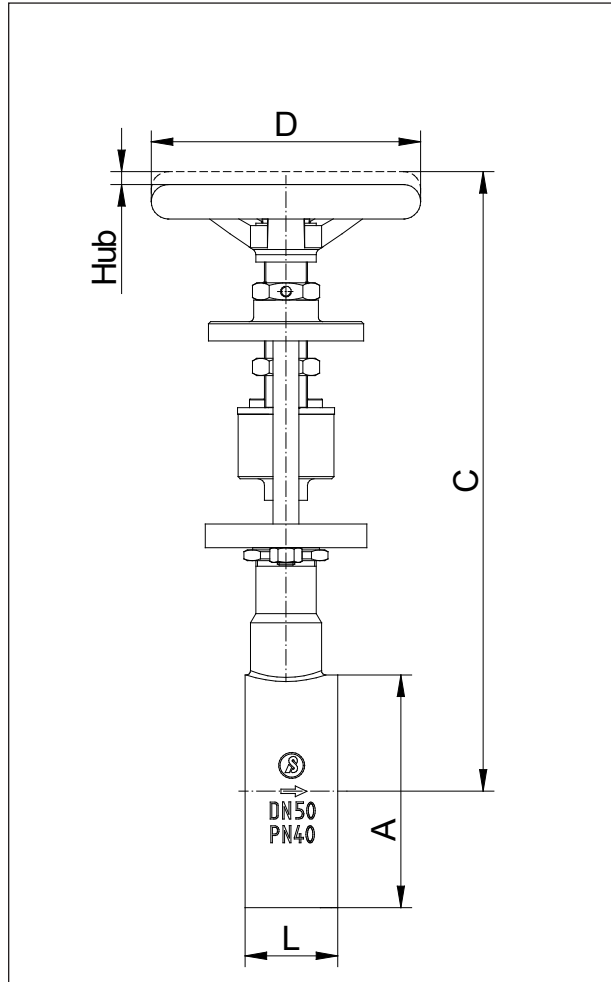
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Dimensions and Weights



Type 8050



Type 8051

DN	A	C max		D	L	Weight in kg		Stroke
		8050	8051			8050	8051	
15	53	332	240	125	33	3,5	2,8	6
20	62	337	245	125	33	3,6	2,9	6
25	72	342	250	125	33	3,7	3	6
32	82	344	255	125	33	3,8	3,1	6
40	92	347	260	125	33	3,9	3,2	6
50	108	362	285	125	43	5	4,3	8
65	127	372	295	125	46	5,5	4,8	8
80	142	377	300	125	46	6,2	5,5	8
100	164	392	315	125	52	7,4	6,7	8,5
125	194	407	330	125	56	9,4	8,7	8,5
150	219	422	-	125	56	11,2	-	8,5

Dimensions in mm