

Manual slide valve with hand actuator Series SG01/SG02



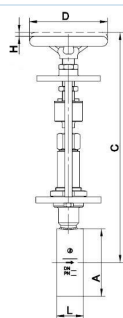
Design type	Manual slide valve with hand actuator, Actuation with handwheel, Sandwich mounting version
Overall length	according to EN558-1R20
Connection	Type SG01 Flanges DN15...DN150, according to EN1092-1 Form B, PN10-40 Type SG02 (short design) Flanges DN15...DN125, according to EN1092-1 Form B, PN10-40
Materials	Housing Galvanized steel or rather Stainless steel 1.4408, Package PTFE filled with carbon, Actuating rod stainless steel 1.4571, Driver for sealing disc Stainless steel 1.4581, Handwheel Aluminium
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
Application range	gaseous and liquid media that do not attack the materials used
Medium temperature	Housing Galvanized steel: SG01 -10...350°C, SG02 -10...230°C Housing Stainless steel 1.4408: SG01 -60...350°C (SFC -60...300°C), SG02 -20...230°C
Operating pressure	see tables



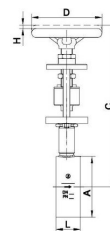
Type code

SG 01 - 15 - W WC - 01						
Type	long Design type	01				
	short design	02				
Connection	DN15	15				
	DN20	20				
	DN25	25				
	DN32	32				
	DN40	40				
	DN50	50				
	DN65	65				
	DN80	80				
	DN100	100				
	DN125	125				
	DN150	150				
Housing material	Steel galvanized		U			
	Stainless steel 1.4408		W			
Sliding pair	Stainless steel/special carbon			WC		
	Stainless steel/SFC			WF		
	STN2			WN		
Special version	described in the item text				01,02,03....	
	Kvs values reduced to					
	Characteristic curve linear/equal percentage					
	Handwheel nickel-plated for aggressive environments					
	Oxygen version					
	Bellows Stainless steel 1.4571					

Dimensions



SG01 (long Design type)



SG02 (short design)

Nominal size DN [mm]	A	C		D	L	Stroke H	Weight [approx. kg]	
		Type SG01	Type SG02				Type SG01	Type SG02
15	53	332	240	125	33	6	3,5	2,8
20	62	337	245	125	33	6	3,6	2,9
25	72	342	250	125	33	6	3,7	3
32	82	344	255	125	33	6	3,8	3,1
40	92	347	260	125	33	6	3,9	3,2
50	108	362	285	125	43	8	5	4,3
65	127	372	295	125	46	8	5,5	4,8
80	142	377	300	125	46	8	6,2	5,5
100	164	392	315	125	52	8,5	7,4	6,7
125	194	407	330	200	56	8,5	9,4	8,7
150	219	422	351	200	56	8,5	11,2	10,6



Application limits - maximum permissible inlet pressures in bar*

Nominal size DN [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	7,0
125	16,5	15,5	15	12,5	10,5	9,5	8,9	8,4	8,0	6,5	5,3	4,6
150	16	16	16	16	13	11,5	11	10,5	9,8	7,9	6,5	5,6

*SFC max. +300°C, Type SG02 (short design): max. +230°C

Permissible differential pressures in bar (for Temperatures up to 120°C)*

	Max. Permissible differential pressures in bar										
Nominal size DN [mm]	15	20	25	32	40	50	65	80	100	125	150
Stainless steel/special carbon - Stainless steel/SFC	40	40	40	40	40	40	40	40	25	16,5	16
STN2	40	40	40	40	27	40	38	22	13,5	8,9	11

*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	-	-	-	-	-	-	-	-	-	-	-	-
150	linear	338	212	-	-	-	-	-	-	-	-	-	-	-
	equal percentage	147	90	-	-	-	-	-	-	-	-	-	-	-

Illustrations non-binding

Design, dimensional and material changes reserved

Armatures / Special armatures / Sliding gate control valves / Manually operated sliding gate valve Series SG01/SG02

Version 8

148201 / Generated 2026/40 EN

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