

# Motor Valve

# 8035

## GS 3 series

## DN 15 up to DN 200

## Version NR2

## with safety spring return

SCHUBERT & SALZER  
**CONTROL  
SYSTEMS**

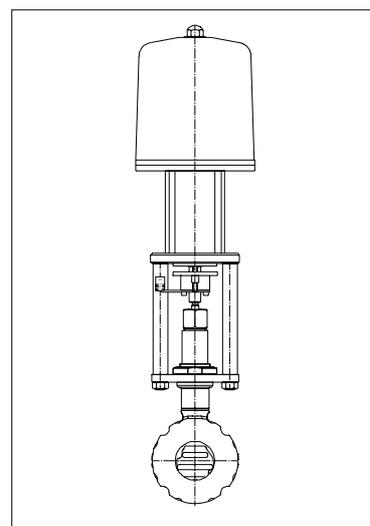
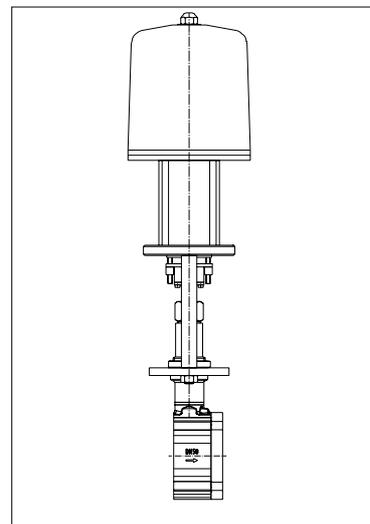
**TÜV-approval according DIN 32730**  
for the pressure ratings PN40, ANSI150 and  
ANSI 300



### Technical Information

Design	Flangeless design further versions see data sheet 8030-GS1	
Nominal size	DN 15 up 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	DN 15 - 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
Rangeability	30 : 1	
Leakage (% of Kvs)	Disc pair Carbon-stainless steel	Disc pair STN 2
	< 0,0001	< 0,001

K<sub>vs</sub>-values see data sheet 8001.



### Technical Information Motor Actuator

Actuating force	1,2 kN	3,0 kN
Type of duty acc. VDE 0530	S 1 - 100 % ED	S 1 - 100 % ED
Net connections	24 V AC	24 V AC
	110 V/120 V AC	110 V/120 V AC
	230 V AC	230 V AC
Mounting position	motor not top-down	motor not top-down
Protection class	IP 54 (IP65 optional)	IP 54 (IP65 optional)
Power consumption 24V	21 W	21 W
Power consumption 230V	21 W	21 W
Power consumption 110 V/120 V	21 W	21 W
Stroking time at line break	2,9 - 3,5 sec.	2,9 - 3,5 sec.
Manual operation	by push buttons (electrical power required)	

### 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, roller burnished	
Bellow	Stainless steel 1.4571	
Fixed plate	Stainless steel 1.4571, plated	STN2-disc
Sliding disc	Standard: special carbon material	STN2-disc
Coupling ring for discs	Stainless steel 1.4581	

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# Motor Valve 8035-GS3

with safety spring return



## Stroking Times

DN	Stroking times (sec.) with stroking speed	
	17,5 mm/min	3,4 mm/min
15	21	110
20	21	110
25	21	110
32	21	110
40	21	110
50	28	146
65	28	146
80	28	146
100	30	154
125	30	154
150	30	154
200	30	154

## Options

	actuating force	
	1,2 kN	3 kN
limit switches	max. 2	max. 2
potentiometer	max. 2*	max. 2*
positioner (analogue)	yes	yes

\* one potentiometer is required for positioner operation

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

DN	1,2 kN	3,0 kN	1,2 kN	3,0 kN
	max. differential pressures (bar)			
	sliding combination			
	carbon-stainless steel		STN 2	
15	100	100	76	100
20	93	100	58	100
25	78	100	44	100
32	64	100	32	86
40	48	100	22	59
50	31	84	13	35
65	26	70	11	29
80	17	45	6,5	17
100	10	28	4	10
125	7	19	2,5	7
150	5	14	2	5
200	3	8	-	-

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

	Upper limits for admissible pressures in bar					
	PN16	PN40	PN100	ANSI 150	ANSI 300	ANSI 600
P max.	16	40	100	16	40	80



# Motor Valve 8035-GS3

with safety spring return



## Application limitations for GS3 valves in stainless steel

These pressure must not be exceeded for GS-valves from the GS3-series made of stainless steel, even though the actuator power might allow it.

### PN 40

DN	Sliding unit: carbon - stainless steel, coated					
	max. admissible diff. pressures for GS3-valves					
	100°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					
	100°C	150°C	200°C	250°C	300°C	350°C
40	38	34	32	31	29	
36	34	33	26	22	19	
33	31	26	24	20	17	
22	21	17	16	13	11	
16	15	13	11	9	8	
-	-	-	-	-	-	-

### PN 100

DN	Sliding unit: carbon - stainless steel, coated					
	max. admissible diff. pressures for GS3-valves					
	100°C	150°C	200°C	250°C	300°C	350°C
15	100	95	87	82	77	72
20	100	95	87	82	77	72
25	100	95	87	82	77	72
32	100	95	87	82	77	72
40	100	95	87	82	77	72
50	100	95	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					
	100°C	150°C	200°C	250°C	300°C	350°C
100	95	87	82	77	72	
100	95	87	82	77	72	
100	95	87	82	77	72	
100	95	87	82	77	72	
100	95	87	82	69	60	
72	69	65	53	43	37	
77	73	70	56	46	40	
62	59	56	45	37	32	
36	34	33	26	22	19	

### ANSI #150

DN	Sliding unit: carbon - stainless steel, coated					
	max. admissible diff. pressures for GS3-valves					
	100°C	150°C	200°C	250°C	300°C	350°C
15 - 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					
	100°C	150°C	200°C	250°C	300°C	350°C
16	15	13	12	10	8	
16	15	13	11	9,5	8	
-	-	-	-	-	-	-

### ANSI #300

DN	Sliding unit: carbon - stainless steel, coated					
	max. admissible diff. pressures for GS3-valves					
	100°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					
	100°C	150°C	200°C	250°C	300°C	350°C
40	38	35	32	31	29	
36	34	33	26	22	19	
33	31	26	24	20	17	
22	21	17	16	13	11	
16	15	13	11	9	8	

### ANSI #600

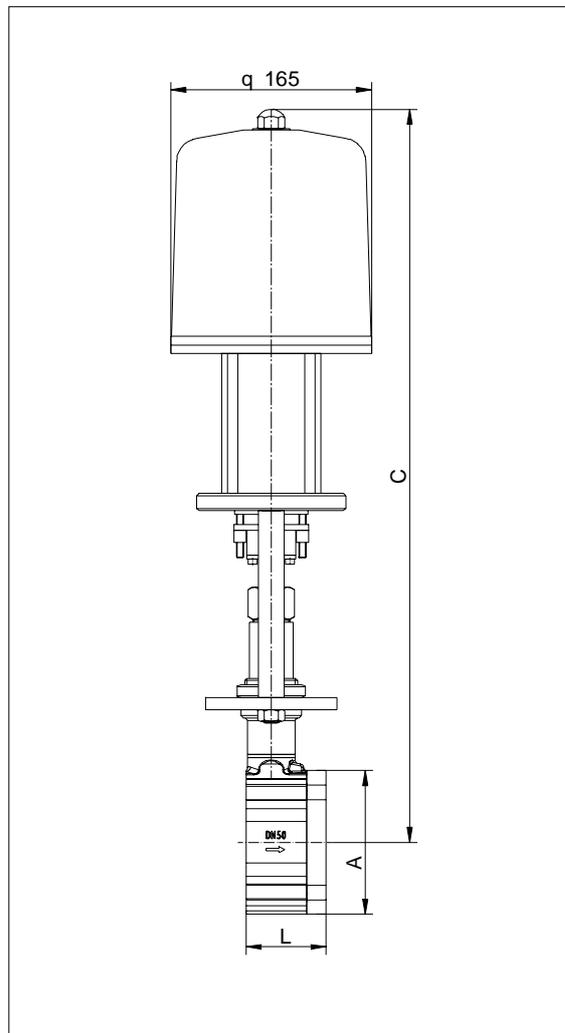
DN	Sliding unit: carbon - stainless steel, coated					
	max. admissible diff. pressures for GS3-valves					
	100°C	150°C	200°C	250°C	300°C	350°C
15 - 32	80	77	71	66	63	60
40	80	77	71	66	63	60
50	80	77	71	66	63	60
65	80	76	71	66	62	60
80	48	45	43	40	37	36

DN	Sliding unit: STN2					
	max. admissible diff. pressures for GS3-valves					
	100°C	150°C	200°C	250°C	300°C	350°C
80	77	71	66	63	60	
72	69	65	53	43	37	
77	73	70	56	46	40	
62	59	56	45	37	32	
36	34	33	26	22	19	

# Motor Valve 8035-GS3

with safety spring return

## Dimensions and Weights



DN	ØA	C*		L	weight kg	stroke
		1.2 kN	3.0 kN			
15	64	570	590	56	12,2	6
20	72	575	595	56	12,4	6
25	82	580	600	56	12,7	6
32	89	585	605	56	12,9	6
40	99	590	610	56	13,2	6
50	116	600	620	64	14,7	8
65	138	610	630	68	16,2	8
80	153	615	635	70	17,4	8
100	184	630	650	75	20,6	8,5
125	212	645	665	80	22,9	8,5
150	242	660	680	80	26,7	8,5
200	302	690	710	93	43,6	8,5

Dimensions in mm

\* For the motor actuator with integrated positioner C increases for 40 mm