

# Motor Valve 8038

## GS 3 series, 1/2" up to 10"

**Fast and high resolution motorvalve for control and switching of neutral through to highly aggressive media in process engineering, chemical industries and for plant equipment.**

- Space saving wafer type construction
- Lowest possible weight (especially in larger sizes)
- Low operation noise level (quiet operation)
- Control of high differential pressures with small actuators
- Fast stroking speed
- Small dead band
- Smooth start and slow down
- Metal body



### Technical Information of the Valve

Design	ANSI flange wafer (self-aligning) for flanges acc. ASME B16.5 RF or EN 1092-1 Form B		
Nominal size	1/2" up to 10"		
Nominal pressure acc. EN 1333	580 psi (fits also to 145-365 psi) 1450 psi 230 psi	1/2" - 6" 1/2" - 3" 8" - 10"	
Nominal pressure acc. ANSI	ANSI 150 ANSI 300 ANSI 600	1/2" - 10" 1/2" - 6" 1/2" - 3"	
Nominal pressure acc. JIS for flanges with raised face	10K 20K	1/2" - 2" 1/2" - 1 1/2"	
Media temperature	Versions from -76°F up to +660°F		
Rangeability	40:1		
Leakage	Disc pair Carbon-stainless steel	Disc pair SFC	Disc pair STN 2
% of Cv IEC 60534-4 EN 12266-1	< 0,0001 IV-S1 D	< 0,0005 IV-S1 E	< 0,001 IV E
Specific leakage rate shaft and body sealing	ISO FE-BH-CC3-SSA0-t(-40°C/+350°C)-PN40-ISO 15848-1		

\* With DN15 with reduction of less than 25%, different leakage rates possible.

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

### Fluid temperature

Rating	PN40	PN 16	PN 100	ANSI 150	ANSI 300	ANSI 600
Body material cpl. stainless steel						
Tmin [°F]	-76	-76	-76	-20	-20	-20
Tmax [°F]	662	662	662	662	662	662
Body material carbon steel						
Tmin [°F]	-76	-76	14	-4	-4	-4
Tmax [°F]	662	662	662	662	662	662
Body material cpl. Alloy C-276						
Tmin [°F]	-76	-76	-76	-20	-20	-20
Tmax [°F]	662	662	662	662	662	662

## Materials

Stainless steel version	
Valve body	stainless steel, CF8M
Bodycover	stainless steel, 316L
Valve stem	stainless steel 316Ti, roller burnished
coupling ring	Stainless steel 1.4581
Packing tube	Stainless steel CF8M
Packing	PTFE carbon filled (spring SST 301)
Body seal	Graphite with stainless foil
Fixed disc	stainless steel coated      STN2-disc      STN3-disc
Sliding disc	special carbon material      SFC-disc (max. +572°F)      STN2-disc      STN3-disc

carbon steel version	
Valve body	carbon steel, ASTM A216 WCB
Bodycover	stainless steel, 316L
Valve stem	stainless steel 316Ti, roller burnished
coupling ring	Stainless steel 1.4581
Packing tube	Stainless steel CF8M
Packing	PTFE carbon filled (spring SST 301)
Body seal	Graphite with stainless foil
Fixed disc	stainless steel coated      STN2-disc      STN3-disc
Sliding disc	special carbon material      SFC-disc (max. +572°F)      STN2-disc      STN3-disc

Version in Alloy C-276	
Valve body	Alloy C-276, 2.4819
Bodycover	Alloy C-276, 2.4819
Valve stem	Alloy C-276, 2.4819
coupling ring	Alloy C-276, 2.4819
Packing tube	Alloy C-276, 2.4819
Packing	PTFE carbon filled (spring Alloy C4, 2.4610)
Body seal	Pure graphite
Fixed disc	Alloy C-276, 2.4819      STN3-disc
Sliding disc	special carbon material      STN3-disc

For all versions	
Coupling	zinc die-cast or stainless steel
Mounting parts	stainless steel

## Technical Information of the Actuator

Driving force	450 lbf / 1100 lbf	
Power connections	24 V AC/DC 100 - 240 V 50/60Hz	
Ambient temperature	Standard:	+14°F up to +140°F
	Low temperature version:	-40°F up to +140°F
Storage Temperature	Standard:	-22°F up to +176°F (+140°F with Fail-Safe protection)
	Low temperature version:	-40°F up to +176°F (+140°F with Fail-Safe protection)
Mounting position	choice horizontal or vertical actuator only	
Protection class (EN 60529)	IP 67	
Max. power consumption	40 Watt	
Stroking speed	450 lbf-version:	19 s/inch up to 6350 s/inch (standard 38 s/inch)
	1100 lbf-version:	51 s/inch up to 6350 s/inch (standard 38 s/inch)
Stroking speed of the Fail-Safe protection	450 lbf-version:	19 s/inch up to 102 s/inch (standard 38 s/inch)
	1100 lbf-version:	51 s/inch up to 102 s/inch (standard 38 s/inch)
Set point range	adjustable 0(4) - 20 mA, 0(2) - 10 V optional binary input signal (24V DC)	
Feed back	adjustable 0(4) - 20 mA, 0(2) - 10 V	
cycles (Fail-Safe)	500.000	
life-time (Fail-Safe)	10 years	
duty cycle	100%	
Self Monitoring	monitoring of the driving power, set point, actuator temperature, temperature of the electronic etc.	
Diagnostic function	storage of motor and total service life, temperature- and way classes	
Valve adaptation	automatic stroke adjustment to suit valve limits	
additional inputs	binary input	
additonal outputs	2 alarm outputs	

## Stroking Times

DN	Stroke	Stroking time (sec.) for the complete stroke at a stroking speed of				
		19 s/inch	25 s/inch	38 s/inch	51 s/inch	102 s/inch
1/2" - 1 1/2"	0,25	4,7	6,3	9,4	12,5	25,0
2" - 3"	0,32	6,2	8,3	12,4	16,5	33,0
4" - 10"	0,34	6,6	8,8	13,1	17,5	35,0
				Standard 450 lbf-actuator	min. stroking time for 1100 lbf-actuator	Standard 1100 lbf-actuator

## Options

2 additional stroke limit switches	free adjustable volt free contacts (open/close)
Fail safe protection	Mounted in own body at actuator Safety position freely selectable
Communication software	with communication link, for parametrization and diagnosis of the actuator
Bluetoothmodul BT-1	Wireless connection to DeviceConfig configuration software (upgrade option)

## Actuator with fail-safe protection (Option)

- Safety function at power failure
- Power supply via high performance capacitors
- Safety position open, closed or in every other position selectable
- Automatic monitoring of the charge condition of the capacitors



### Admissible Pressures (For temperatures of up to 100°F for ANSI-classes and up to 250°F for PN-classes)

**For temperatures exceeding 100°F (ANSI) or 250°F (PN): consider operation limits**

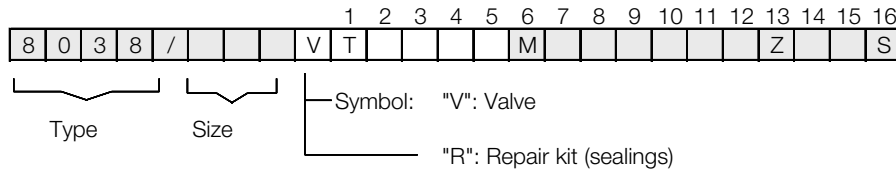
Size	driving force: 450 lbf		driving force: 1100 lbf	
	max. pressure (psi)			
	carbon/SFC - stainless steel coated	STN2	carbon/SFC - stainless steel coated	STN2
15**	1480	1480	1480	1480
3/4"	1480	1480	1480	1480
25**	1276 (1480)*	1105	1276 (1480)*	1276 (1480)*
1 1/4"	1480	820	1480	1480
40**	1220	565	1276 (1450)*	1055
50**	800	335	1450	870
2 1/2"	675	275	1160	710
80**	430	165	695	430
4"	275	105	480	265
5"	185	70	335	180
6"	140	50	230	130
8"	80	-	205	-
10"	50	-	130	-

\*: figures in brackets for bodys made of carbon steel

\*\* Size available in Alloy C-276 version

	Pressure limits ANSI and DIN in psi					
	ANSI150	ANSI 300	ANSI 600	PN16	PN40	PN100
P max. carbon steel / Alloy C276	284	741	1480	232	580	1450
P max. stainless steel	276	719	1440			

## Ordering Number System



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

1.	Function	2.	Body design	3.	Body material	4.	Security position	5.	Actuator	6.	Special versions	7.	Motor voltages
T	GS-motor valve (type 8038)	E	GS3-flangeless design acc. ANSI 150	0	carbon steel ASTM A216 WCB	-	without	A	450 lbf, position-electronic, IP67	M	to state, if some sections 7-19 are quoted	-	100 - 240V 50/60 Hz (Standard)
		F	GS3-flangeless design acc. ANSI 300	1	stainless steel CF8M	1	Fail Safe Function: Safety position closed in the case of power failure	B	1100 lbf, position-electronic, IP67			1	24V AC/DC
		K	GS3-flangeless design acc. ANSI 600	5	Alloy C-276			L	450 lbf actuator, low temperature version (to -40°F) with position-electronics, IP67				
		G	GS3-flangeless design acc. DIN, 145-580 psi			2	Fail Safe Function: Safety position opened in the case of power failure						
		H	GS3 - flangeless design acc. DIN, 1450 psi			3	Fail Safe Function: position in case of power failure according to customer specification						
8.	Stem sealing	9.	Moving disc	10.	Fixed disc	11.	Kvs-values			13.	Accessories	14.	Input signal
-	PTFE-packing self-adjusting (Standard)	-	carbon	-	stainless steel/ Stellite	-	100 % (Stand.)	-	linear	Z	to state, if further sections are quoted	-	standard 4-20 mA or 2-10 V
		9	STN2/STN3	1	STN2 - plate (only in comb. with the pos."9")	1	red. to 40 %	1	equal percentage			3	0-20mA or 0-10V
1	stainless steel bellow 316 Ti (max. press. 480 psi)	S	SFC	3	STN2 - plate (only in comb. with the pos."9")	2	red. to 16 %	2				A	binary control 24 V DC - 3-point
						3	red. to 6.3 %	3					
						4	red. to 2.5 %	4					
						5	red. to 1 %	5					
						6	red. to 20 %	6					
						7	red. to 12 %	7					
						8	red. to 2 %	8					
						9	red. to 0,4 %	9					
15.	Limit switches	16.	Special versions	17.	Stroking time	18.	Special treatment	19.	Feedback	20.	Adjustments	21.	Special additional version
-	without	S	other special versions/ accessory	-	Standard	-	standard	-	standard	-	standard death band ±0,2%	-	without
2	2 limit switches				(450 lbf=38s/inch; 1120 lbf=102s/inch)	1	for oxygen		(At control actuators like control signal)				
				1	19 s/inch	2	silicon-free						
				2	25 s/inch								
				3	51 s/inch								
				4	102 s/inch								

Ordering example:

8038/100VTE1 - AM - - - - - Z - 2

GS3-control valve with motor actuator, size 4", ANSI 150, stainless steel, actuator 450 lbf, 100 - 240 V 50/60 Hz, PTFE-packing, discs: carbon - stainless steel 1.4571 coated, seat characteristics linear, 2 limit switches

## 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.

### ANSI150

Size	Sliding unit: carbon/SFC - stainless steel, coated								Sliding unit: STN2							
	max. admissible pressures for GS3-valves in stainless steel								max. admissible pressures for GS3-valves in stainless steel							
	100°F	120°F	210°F	300°F	390°F	480°F	570°F	660°F	100°F	120°F	210°F	300°F	390°F	480°F	570°F	660°F
1/2" - 5"	275,0	265,0	235,0	215,0	200,0	175,0	150,0	120,0	275,0	265,0	235,0	215,0	200,0	175,0	150,0	120,0
6"	230,0	230,0	230,0	215,0	200,0	175,0	150,0	120,0	235,0	235,0	235,0	215,0	200,0	170,0	140,0	120,0
8"	230,0	230,0	230,0	215,0	200,0	175,0	150,0	120,0	-	-	-	-	-	-	-	-
10"	150,0	150,0	150,0	145,0	135,0	120,0	105,0	100,0	-	-	-	-	-	-	-	-

Limitation for SFC-sliding discs: 570°F

### ANSI300

Size	Sliding unit: carbon/SFC - stainless steel, coated								Sliding unit: STN2							
	max. admissible pressures for GS3-valves in stainless steel								max. admissible pressures for GS3-valves in stainless steel							
	100°F	120°F	210°F	300°F	390°F	480°F	570°F	660°F	100°F	120°F	210°F	300°F	390°F	480°F	570°F	660°F
1/2" - 2 1/2"	720,0	695,0	610,0	560,0	520,0	485,0	460,0	440,0	720,0	695,0	610,0	560,0	520,0	485,0	460,0	440,0
3"	695,0	695,0	610,0	560,0	520,0	485,0	460,0	440,0	530,0	530,0	530,0	505,0	480,0	390,0	320,0	275,0
4"	480,0	480,0	480,0	480,0	480,0	480,0	460,0	440,0	480,0	480,0	480,0	460,0	435,0	355,0	290,0	250,0
5"	335,0	335,0	335,0	335,0	335,0	335,0	335,0	335,0	320,0	320,0	320,0	305,0	290,0	235,0	190,0	165,0
6"	230,0	230,0	230,0	230,0	230,0	230,0	230,0	230,0	230,0	230,0	230,0	225,0	210,0	170,0	140,0	120,0

Limitation for SFC-sliding discs: 570°F

### ANSI600

Size	Sliding unit: carbon/SFC - stainless steel, coated								Sliding unit: STN2							
	max. admissible pressures for GS3-valves in stainless steel								max. admissible pressures for GS3-valves in stainless steel							
	100°F	120°F	210°F	300°F	390°F	480°F	570°F	660°F	100°F	120°F	210°F	300°F	390°F	480°F	570°F	660°F
1/2" - 3/4"	1440,0	1395,0	1225,0	1115,0	1035,0	970,0	915,0	880,0	1440,0	1395,0	1225,0	1115,0	1035,0	970,0	915,0	880,0
1"	1275,0	1275,0	1225,0	1115,0	1015,0	925,0	830,0	785,0	1275,0	1275,0	1225,0	1115,0	1015,0	925,0	830,0	785,0
1 1/4"	1440,0	1395,0	1225,0	1115,0	1035,0	970,0	915,0	880,0	1440,0	1395,0	1225,0	1115,0	1035,0	970,0	915,0	875,0
1 1/2"	1275,0	1275,0	1225,0	1115,0	1015,0	925,0	830,0	785,0	1050,0	1050,0	1050,0	1000,0	950,0	770,0	630,0	545,0
2"	1440,0	1395,0	1225,0	1115,0	1035,0	970,0	915,0	880,0	1125,0	1125,0	1125,0	1070,0	1020,0	825,0	675,0	585,0
2 1/2"	1160,0	1160,0	1160,0	1115,0	1035,0	970,0	915,0	880,0	905,0	905,0	605,0	865,0	820,0	665,0	545,0	470,0
3"	695,0	695,0	695,0	695,0	695,0	695,0	695,0	645,0	530,0	530,0	530,0	505,0	480,0	390,0	320,0	275,0

Limitation for SFC-sliding discs: 570°F

### PN40

Size	Sliding unit: carbon/SFC - stainless steel, coated							Paarung: STN 2					
	maximum pressures for GS3-valves in stainless steel							maximum pressures for GS3-valves in stainless steel					
	210°F	300°F	390°F	480°F	570°F	660°F	210°F	300°F	390°F	480°F	570°F	660°F	
1/2"-1 1/4"	580	580	580	580	580	580	580	580	580	580	580	580	
1 1/2"	580	580	580	580	580	580	580	580	580	580	580	535	
2"	580	580	580	580	580	580	580	580	580	580	580	580	
2 1/2"	580	580	580	580	580	580	580	580	580	580	535	465	
3"	580	580	580	580	580	580	520	495	480	375	320	275	
4"	480	480	480	480	480	480	465	450	435	350	290	245	
5"	335	335	335	335	335	335	305	305	275	230	190	160	
6"	230	230	230	230	230	230	220	220	205	160	130	115	
8" (only PN16)	230	230	220	190	175	160	-	-	-	-	-	-	
10" (only PN16)	145	130	130	115	100	85	-	-	-	-	-	-	

Limitation for SFC-sliding discs: 570°F

### PN100

Size	Sliding unit: carbon/SFC - stainless steel, coated							Paarung: STN 2					
	maximum pressures for GS3-valves in stainless steel							maximum pressures for GS3-valves in stainless steel					
	210°F	300°F	390°F	480°F	570°F	660°F	210°F	300°F	390°F	480°F	570°F	660°F	
1/2"	1450	1450	1450	1350	1220	1145	1450	1450	1450	1350	1220	1145	
3/4"	1450	1450	1290	1175	1060	985	1450	1450	1290	1175	1060	985	
1"	1275	1175	1015	915	825	785	1275	1175	1015	915	825	785	
1 1/4"	1450	1350	1160	1060	945	900	1450	1350	1160	1060	945	870	
1 1/2"	1275	1175	1015	915	825	785	1045	1000	945	770	625	535	
2"	1450	1450	1450	1450	1450	1365	1115	1060	1015	810	665	580	
2 1/2"	1160	1160	1160	1145	1030	970	900	855	810	655	535	465	
3"	695	695	695	695	695	640	520	495	480	375	320	275	

Limitation for SFC-sliding discs: 570°F

## Application limitations for GS3 valves in carbon steel

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

### ANSI150

DN	Paarung: Carbonwerkstoff/SFC - Edelstahl beschichtet							
	max. zulässige Drücke in bar für GS3-Ventile aus C-Stahl							
	38°C	50°C	100°C	150°C	200°C	250°C	300°C	350°C
15-125	19,6	19,2	17,7	15,8	13,8	12,1	10,2	8,4
150	16,0	16,0	16,0	15,8	13,8	12,1	10,2	8,4
200	16,0	16,0	16,0	15,8	13,8	12,1	10,2	8,4
250	10,5	10,5	10,5	9,9	9,4	8,4	7,4	6,0

Paarung: STN 2								
max. zulässige Drücke in bar für GS3-Ventile aus C-Stahl								
38°C	50°C	100°C	150°C	200°C	250°C	300°C	350°C	
19,6	19,2	17,7	15,8	13,8	12,1	10,2	8,4	
16,2	16,2	16,2	15,4	13,8	11,8	9,7	8,0	
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

Begrenzung für SFC-Dichtscheiben: 300°C

### ANSI300

DN	Paarung: Carbonwerkstoff/SFC - Edelstahl beschichtet							
	max. zulässige Drücke in bar für GS3-Ventile aus C-Stahl							
	38°C	50°C	100°C	150°C	200°C	250°C	300°C	350°C
15-50	51,1	50,1	46,6	45,1	43,8	41,9	39,8	37,6
65	51,1	50,1	46,6	45,1	43,8	41,9	39,8	37,6
80	48,0	48,0	46,6	45,1	43,8	41,9	39,8	37,6
100	33,0	33,0	33,0	33,0	33,0	33,0	33,0	33,0
125	23,0	23,0	23,0	23,0	23,0	23,0	23,0	23,0
150	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0

Paarung: STN 2								
max. zulässige Drücke in bar für GS3-Ventile aus C-Stahl								
38°C	50°C	100°C	150°C	200°C	250°C	300°C	350°C	
51,1	50,1	46,6	45,1	43,8	41,9	39,8	37,6	
41,7	41,7	41,7	39,7	37,6	33,5	37,6	33,0	
36,6	36,6	36,6	34,8	33,0	26,8	22,0	19,0	
33,0	33,0	33,0	31,7	30,1	24,4	20,0	17,5	
22,1	22,1	22,1	21,0	19,9	16,1	13,2	11,5	
16,0	16,0	16,0	15,4	14,6	11,8	9,7	8,4	

Begrenzung für SFC-Dichtscheiben: 300°C

### ANSI600

DN	Paarung: Carbonwerkstoff/SFC - Edelstahl beschichtet							
	max. zulässige Drücke in bar für GS3-Ventile aus C-Stahl							
	38°C	50°C	100°C	150°C	200°C	250°C	300°C	350°C
15-25	102,1	100,2	93,2	90,2	87,6	83,9	79,6	75,1
32	102,1	100,2	93,2	90,2	87,6	83,9	79,6	75,1
40	100,0	100,0	93,2	90,2	87,6	83,9	79,6	75,1
50	100,0	100,0	93,2	90,2	87,6	83,9	79,6	75,1
65	80,0	80,0	80,0	80,0	80,0	80,0	79,6	75,1
80	48,0	48,0	48,0	48,0	48,0	48,0	48,0	44,0

Paarung: STN 2								
max. zulässige Drücke in bar für GS3-Ventile aus C-Stahl								
38°C	50°C	100°C	150°C	200°C	250°C	300°C	350°C	
102,1	100,2	93,2	90,2	87,6	83,9	79,6	75,1	
102,1	100,2	93,2	90,2	87,6	83,9	69,6	60,0	
72,5	72,5	72,5	69,0	65,5	53,1	43,6	37,0	
77,7	77,7	77,7	73,9	70,2	56,9	46,7	40,0	
62,5	62,5	62,5	59,5	56,4	45,8	37,6	32,0	
36,6	36,6	36,6	36,8	33,0	26,8	22,0	19,0	

Begrenzung für SFC-Dichtscheiben: 300°C

### PN40

Size	Sliding unit: carbon/SFC - stainless steel, coated							Sliding unit: STN2						
	max. admissible pressures for GS3-valves in carbon steel							max. admissible pressures for GS3-valves in carbon steel						
	210°F	300°F	390°F	480°F	570°F	660°F		210°F	300°F	390°F	480°F	570°F	660°F	
1/2" - 2"	580	580	580	580	580	580		580	580	580	580	580	580	
2 1/2"	580	580	580	580	580	580		580	580	580	580	535	460	
3"	580	580	580	580	580	580		520	495	480	375	320	275	
4"	480	480	480	480	480	475		480	450	435	350	290	245	
5"	335	335	335	335	335	330		320	305	275	230	190	155	
6"	230	230	230	230	230	230		230	220	205	160	130	115	
8" (only 235 psi)	230	230	220	190	175	155		-	-	-	-	-	-	
10" (only 235 psi)	145	130	130	115	100	87		-	-	-	-	-	-	

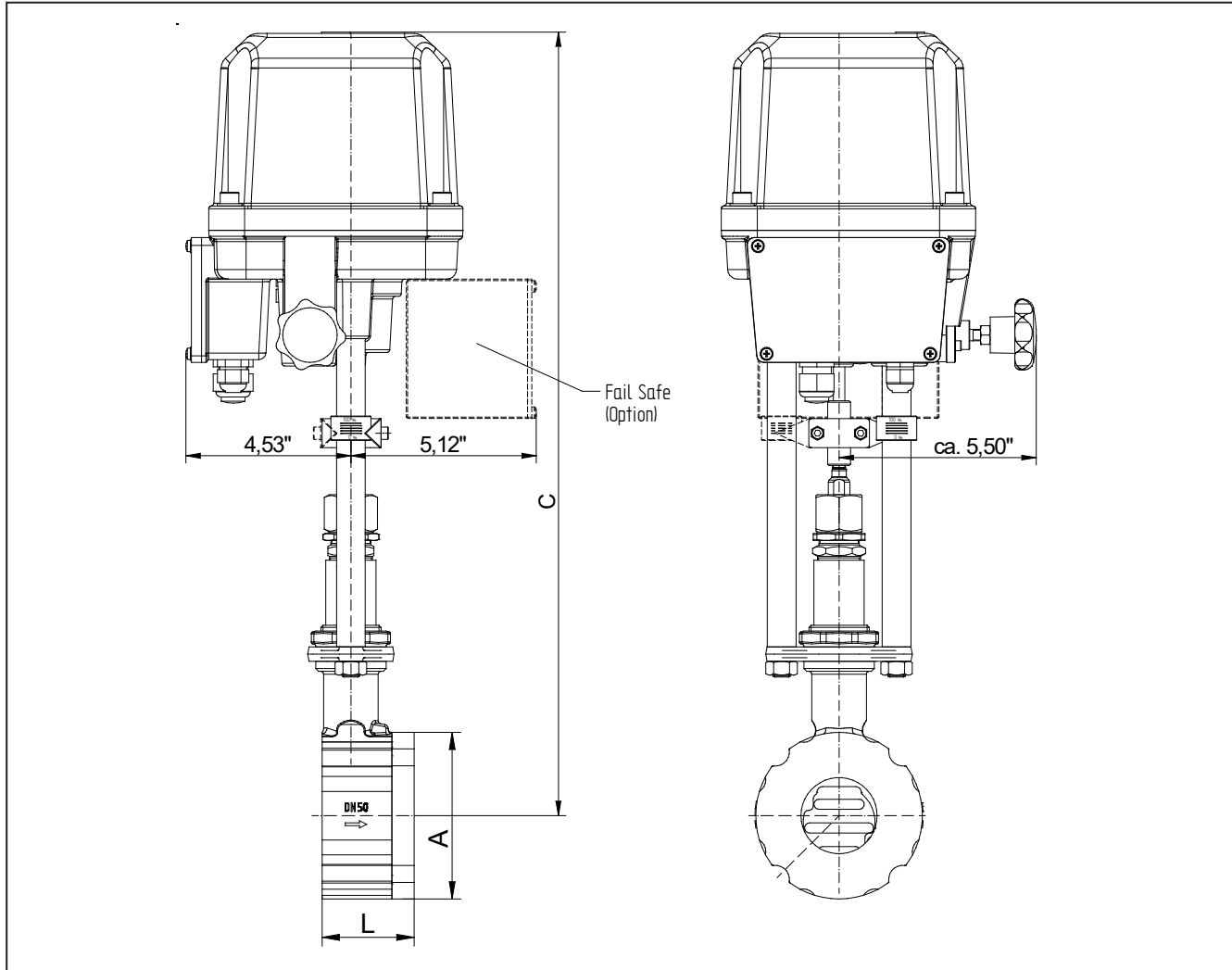
Limitation for SFC-sliding discs: 570°F

### PN100

Size	Sliding unit: carbon/SFC - stainless steel, coated							Sliding unit: STN2						
	max. admissible pressures for GS3-valves in carbon steel							max. admissible pressures for GS3-valves in carbon steel						
	210°F	300°F	390°F	480°F	570°F	660°F		210°F	300°F	390°F	480°F	570°F	660°F	
1/2" - 3/4"	1450	1450	1450	1450	1450	1450		1450	1450	1450	1450	1450	1450	
1"	1450	1450	1450	1450	1450	1365		1450	1450	1450	1450	1365	1260	
1 1/4"	1450	1450	1450	1450	1450	1435		1450	1450	1450	1220	1000	870	
1 1/2"	1450	1450	1450	1450	1450	1260		1045	1000	945	770	625	535	
2"	1450	1450	1450	1450	1450	1360		1115	1060	1015	810	665	580	
2 1/2"	1160	1160	1160	1160	1160	1100		900	855	810	655	535	460	
3"	695	695	695	695	695	635		520	495	480	375	320	275	

Limitation for SFC-sliding discs: 570°F

## Dimensions and Weights



DN	ØA	C		L	Stroke	Weight 450 lbf-actuator lbs		Weight 1100 lbf-actuator lbs	
		2kN	5kN			without Fail-Safe	with Fail-Safe	without Fail-Safe	with Fail-Safe
1/2"	2.5	20.6	21.8	2.2	0.2	23.8	27.8	25.8	29.8
3/4"	2.8	20.7	22	2.2	0.2	24.3	28.2	26.2	30.2
1"	3.2	20.9	22.2	2.2	0.2	25.4	29.3	27.3	31.3
1 1/4"	3.5	21.3	22.6	2.2	0.2	26.0	30.0	28.0	32.0
1 1/2"	3.9	21.5	22.8	2.2	0.2	26.9	30.9	28.9	32.8
2"	4.6	21.7	23	2.5	0.3	30.4	34.4	32.4	36.4
2 1/2"	5.4	22.1	23.4	2.7	0.3	34.6	38.6	36.6	40.6
3"	6	22.3	23.6	2.8	0.3	37.0	41.0	39.0	43.0
4"	7.2	22.9	24.2	3	0.3	44.5	48.5	46.5	50.5
5"	8.3	23.3	24.6	3.1	0.3	53.8	57.8	55.8	59.7
6"	9.5	24.1	25.4	3.1	0.3	61.9	65.9	63.9	67.9
8"	11.9	25.3	26.5	3.7	0.3	99.2	103.2	101.2	105.2
10"	14.2	26.3	27.5	3.8	0.3	110.7	114.6	112.7	116.6

Dimensions in inch



# Control Valve 8021-GS3



## Flow Coefficients - Cv-values

Ordering code	-	A	1	B	6	2	7	C	3	4	8	5	9	
Size	Charact.	100 %	63 %	40 %	25 %	20%	16 %	12 %	10 %	6,3 %	2,5 %	2 %	1 %	0,4%
1/2"	(mod.) linear	4.6	3	2	1.6	-	0.82	0.57	0.51	0.3	0.16	0.09	0.05	0.021
	eq. perc.	2	-	1.3	-	0.4	-	-	-	0.12	-	-	-	-
3/4"	(mod.) lin.	7.4	-	-	-	-	1.16	-	-	-	-	0.15	-	-
	eq. perc.	3.5	-	1.7	-	-	-	-	-	-	-	-	-	-
1"	(mod.) linear	13	7.4	4.6	-	-	1.9	-	1.08	0.72	0.3	-	0.16	0.05
	eq. perc.	5.8	-	2.8	-	1.3	-	-	-	-	-	-	-	-
1	(mod.) linear	19	12	-	-	-	-	-	-	-	-	-	-	-
1/4"	eq. perc.	9.3	-	-	-	-	-	-	-	-	-	-	-	-
1	(mod.) lin.	30	19	13	8.1	-	-	-	-	-	-	-	-	-
1/2"	eq. perc.	13	9.9	-	3.2	-	-	-	-	-	-	-	-	-
2"	(mod.) linear	52	32	23	14	12	-	-	-	-	-	-	-	-
	eq. perc.	22	14	-	-	-	-	-	-	-	-	-	-	-
2	(mod.) linear	60	41	-	17	-	-	-	-	-	-	-	-	-
1/2"	eq. perc.	35	-	-	9.3	-	-	-	-	-	-	-	-	-
3"	(mod.) linear	107	67	46	-	-	-	-	-	-	-	-	-	-
	eq.perc.	56	41	-	-	-	-	-	-	-	-	-	-	-
4"	(mod.) linear	179	110	72	-	-	-	-	-	-	-	-	-	-
	eq.perc.	89	56	-	-	-	-	-	-	-	-	-	-	-
5"	(mod.) linear	275	-	110	-	-	-	-	-	-	-	-	-	-
	eq.perc.	135	-	-	-	-	-	-	-	-	-	-	-	-
6"	(mod.) linear	392	246	-	-	-	-	-	-	-	-	-	-	-
	eq.perc.	171	104	-	-	-	-	-	-	-	-	-	-	-
8"	(mod.) linear	650	408	-	-	-	-	-	-	-	-	-	-	-
	eq.perc.	296	-	-	-	-	-	-	-	-	-	-	-	-
10"	(mod.) linear	1056	667	-	-	-	-	-	-	-	-	-	-	-
	eq.perc.	-	-	-	-	-	-	-	-	-	-	-	-	-