Low Temperature Sliding Gate Valve 8056

GS 3 series - 1/2“ up to 4“

Manually operated sliding gate valve for controlling or shutting off liquid and gaseous media for industrial low temperature applications

- Space-saving wafer-type design
- Lowest possible weight
- Quiet operation
- Precise control by hand
- Control of high differential pressures
- High Kvs-values
- Meets the requirements of TA-Luft 2021

Technical Information

Body design	ANSI flange wafer (self-aligning) for flanges acc. ASME B16.5 RF or DIN EN 1092-1 Form B	
Nominal Sizes	1/2“ - 4“	
Nominal pressure acc. DIN 2401 for flanges with facing type B	580 psi (fits also to 145 up to 365 psi)	1/2“ - 4“
Nominal pressure acc. ANSI for flanges acc. ASME B 16.5 RF	ANSI 150 ANSI 300	1/2“ - 4“ 1/2“ - 4“
Nominal pressure acc. JIS for „raiced face“ flanges	10K 20K	1/2“ -2“ 1/2“ - 1 1/2“
Flange gaskets (customer side)	ANSI B16.21 or DIN EN 1514-1 in the respective nominal pressure rating	
Fluid Temperature	down to -328°F	
Ambient temperature Leakage % of Kvs IEC 60534-4	-22°F up to +212°F Disc pair Carbon-stainless steel < 0,0001 IV-S1	
EN 12266-1	E	
Marking ATEX non electric	II 2G Ex h IIC T6...T1 X Gb II 2D Ex h IIIC 85°C...530°C X Db	
Spezific 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_{vs}-values see data sheet 8001.

Materials

Body	Stainless steel CF8M
Bodycover	Stainless steel 316 Ti or 316 L
Packing	PTFE (Carbon filled), spring SST 301
Actuating stem	Stainless steel 316 Ti, roller burnished
Bellows	Stainless steel 316 Ti or Inconel 625
Fixed disc	Stainless steel 316 Ti, coated
Sliding disc	Special carbon material
Guide ring for sliding disc	Stainless steel 316 Ti

Differential pressures for temperatures down to -328°F

Version	Standard bellows	PN100 bellows
Size	maximum pressure psi	
1/2“	479	719
3/4“	479	719
1“	479	719
1 1/4“	479	719
1 1/2“	479	719
2“	479	719
2 1/2“	479	719
3“	479	719
4“	479	719

Standard

	Pressure limits ANSI in psi		
	PN40	ANSI 150	ANSI 300
P max. stain-less steel	580	276	719

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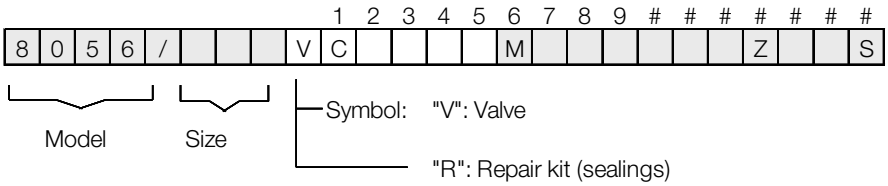
Ordering number system



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

1.	Function	2.	Design	3.	Body material	4.		5.	Actuator	6.	Special versions
H	sliding gate valve type 8056 (low temperature version)	G	GS3-flangeless design acc. DIN, 145 - 580 psi, (8“: 232 psi; 10“: 145-232 psi)	1	stainless steel CF8M	-	without significance	5	manually operated	M	Special versions
										A	groove and groove acc. DIN EN 1092-1
		E	GS3 flangeless design acc. ANSI 150							C	groove and tongue acc. DIN EN 1092-1
		F	GS3 flangeless design acc. ANSI 300							E	lowered face/ lowered face acc. DIN EN 1092-1
			GS3-flangeless design							H	lowered face/ raised face acc. DIN EN 1092-1
		N	acc. JIS-20K (suitable f. JIS-16K/-10K, DN50 only in JIS-10K)							P	sealing surface Ra 1.6
		Y	GS3-design								

7.		8.	Stem sealing	9.	Moving disc	10.	Fixed plate	11.	Cv-values	12.	Characteristic
-	without significance	-	Standard, Metall-Faltenbalg (aus 1.4571) + PTFE-Packung (max. Druck 33 bar)	-	carbon material	-	standard coating, stainless steel 316 Ti	-	100% (Stand.)	-	linear
								A	red. to 63 %		
								1	red. to 40 %	1	equal%
								B	red. to 25 %		
		2	additional metal bellows 4“					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 %		

Ordering Example:	8056/015VHG1-5M----11 sliding gate valve (low-temperature version), DN 15 (Kvs 1.1; Cv 1.3) GS3 intermediate flange design according to DIN, PN10-PN40, Standard coating, stainless steel 1.4571, red. to 40%, equal%

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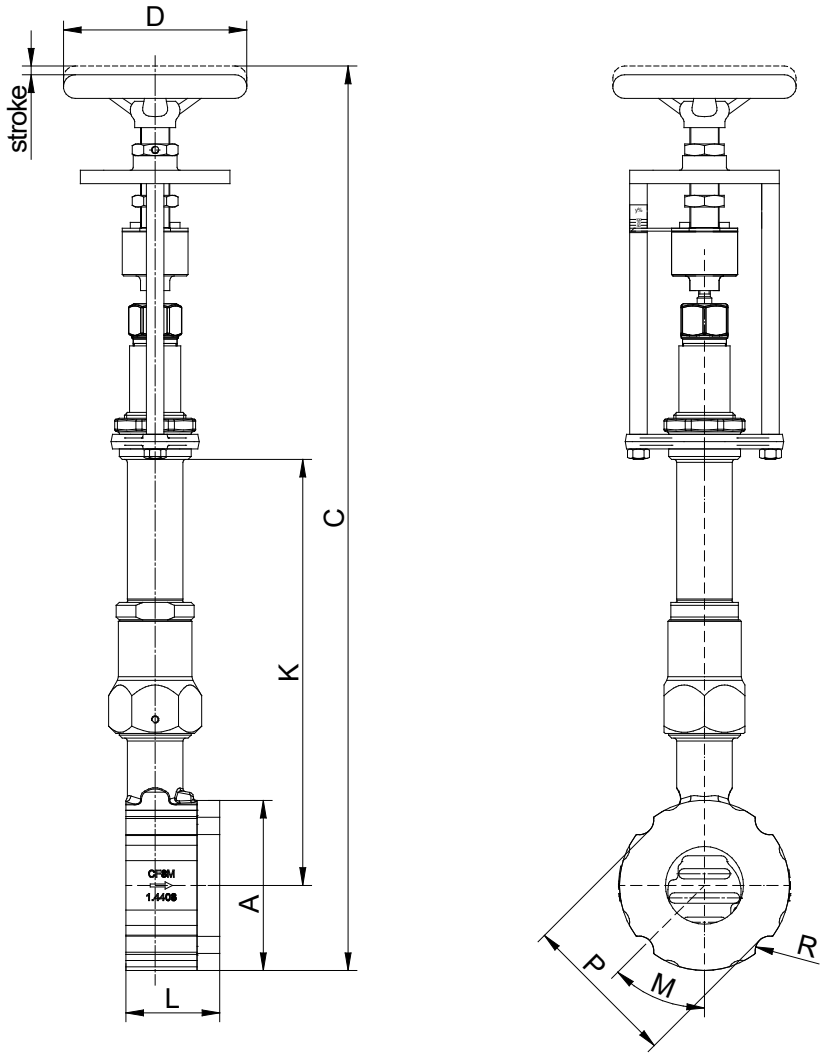
Dimensions and weights



Size	A inch	C inch	K inch	Ø D	PN 40			ANSI 150			ANSI 300			ANSI 600			L inch	Weight lbs	Stroke inch
					P	M	number of the jump	P	M	number of the jump	P	M	number of the jump	P	M	number of the jump			
1/2“	2.5	20.75	10.45	5,0	2.1	1.75	0.15	1.9	1.75	4	2.1	1.75	4	2,1	1,75	4	2.2	17.6	0.25
3/4“	2.85	20.95	10.6	5,0	2.5	1.75	0.15	2.3	1.75	4	2.7	1.75	4	2,7	1,75	4	2.2	22	0.25
1“	3.25	21.1	10.8	5,0	2.85	1.75	0.15	2.65	1.75	4	2.85	1.75	4	2,85	1,75	4	2.2	22	0.25
1 1/4“	3.5	21.2	10.9	5,0	3.25	1.75	0.15	3.05	1.75	4	3.25	1.75	4	3,25	1,75	4	2.2	22	0.25
1 1/2“	3.9	21.4	11.1	5,0	3.7	1.75	0.15	3.45	1.75	4	3.7	1.75	4	3,7	1,75	4	2.2	22	0.25
2“	4.55	21.75	11.45	5,0	4.55	1.75	0.15	4.15	1.75	4	4.4	0.9	8	4,4	0,9	8	2.5	22	0.3
2 1/2“	5.45	22.1	11.8	5,0	5.1	0.9	0.3	4.9	1.75	4	5.1	0.9	8	5,1	0,9	8	2.7	22	0.3
3“	6	22.45	12.15	5,0	5.65	0.9	0.3	5.45	1.75	4	5.9	0.9	8	5,9	0,9	8	2.75	22	0.3
4“	7.25	22.95	12.65	5,0	6.45	0.9	0.3	6.95	0.9	8	7.15	0.9	8	`-	`-	`-	2.95	22	0.35

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Cvs-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	-	-	-	0.41	-	-	-	-
1 1/4“	(mod.) linear	19	12	-	-	-	-							
	eq. perc.	9.3	5.45	-	-	-	-							
1 1/2“	(mod.) lin.	30	19	13	8.1	-	-							
	eq. perc.	13	9.9	-	3.2	-	-							
2“	(mod.) linear	52	32	23	14	12	-							
	eq. perc.	22	14	-	-	-	3.5							
2 1/2“	(mod.) linear	60	41	-	17									
	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	-										