Datasheet
Butterfly valve for Fire safe
FSV/VSS

Si-202 EN

Edition: 2023-02

- Advanced triple eccentric design
- Designed for manual and remote operated applications
- Tightness class in accordance with EN 60534-4 Class V as standard FSV/VSS
- PTFE seat with a backup seat in nickel alloy for FSV
- FSV Fire safe approved according to EN ISO 10497, API 607
- Solid seat made of stainless steel for VSS
- VSS Fire safe approved according to BS 6755-2



Type FSVW/VSS	**Wafer design**
Type FSVF	**Flanged design**
Type FSVL/VSSL	**Lugged design**
Type FSVG	**Wafer design with guiding lugs**
Nominal pressure	**PN 10-25 Class 150, PN 10-40 Class 300 (VSS)**
Nominal size	**DN 80-500 NPS 4 - 20 FSVW/FSVF/FSVL/FSVG** **DN 80-500 NPS 3 - 20 VSS/VSSL**
Material	**CF8M (316) FSV/VSS** **6Mo FSV/VSS** **22 Cr Duplex FSV** **25 Cr Duplex FSV** **Titanium FSV**

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Product information

FSV Fire safe

Somas butterfly valve, type FSV Fire safe is used as a control and on/off valve. The valve is designed to handle a wide range of liquids and gases.

The FSV valve can be supplied in wafer design (FSVW), in lugged design (FSVL), with 4 guiding lugs (FSVG) and in double flanged design (FSVF).

The valve has an advanced triple eccentric design including a unique shape of the disc which enables the use of a PTFE seat with a backup seat in nickel alloy. The Somas valves are ready units for installation and operation. The manual valves are delivered with levers or gear units and the remote operated valves can be supplied with hydraulic or pneumatic actuators on request.

The valves comply with EN ISO 10497 and API 607 standards.

Typical applications for these valves are found within the oil and gas industry.

VSS Fire safe

Somas butterfly valve, type VSS Fire safe is used as a control and on/off valve. The VSS valve is designed to handle a wide range of liquids, gases and steam within a broad temperature range.

The valve have an advanced triple eccentric design including a unique shape of the disc which allows the use of a solid stainless steel seat. The solid seat remains unaffected by high flow velocities and temperatures. A good valve function is achieved even on difficult applications.

The VSS valve is available in wafer or lugged design.

The Somas valves are ready for installation and operation.

The valve assemblies are delivered factory tested as complete units with actuators, positioners and accessories.

The valves comply with the fire testing standard BS 6755: Part 2.

Tightness class FSV

Standard leakage class	Optional leakage class
EN 60534-4	**EN 60534-4**
PTFE - Class V	PTFE - Class VI (≤DN400)
	EN 12266-1
	PTFE - Rate C
	PTFE - Rate B

Tightness class VSS

Standard leakage class	Optional leakage class
EN 60534-4	**EN 12266-1**
Metal - Class V	Metal - Rate D

Pressure and temperature rating

Pressure temperature relations from EN1092-1:2018. Max working pressure in bar (g) for Stainless Steel 1.4408/CF8M

		Working temperature										
		0 °C	**100 °C**	**150 °C**	**200 °C**	**250 °C**	**300 °C**	**350 °C**	**400 °C**	**450 °C**	**500 °C**	**550 °C**
Pressure class	PN10	10	10	9	8,4	7,9	7,4	7,1	6,8	6,7	6,6	6,5
	PN16	16	16	14,5	13,4	12,7	11,8	11,4	10,9	10,7	10,5	10,4
	PN25	25	25	22,7	21	19,8	18,5	17,8	17,1	16,8	16,5	16,3
	PN40	40	40	36,3	33,7	31,8	29,7	28,5	27,1	26,9	26,4	26

Minimum working temperature -60° C**.** If lower temperatures are needed contact Somas.

Note! FSV only applies up to 150° C.

VSS PN6 on request.

PN40 only applies to VSS.

Pressure temperature relations from ASME 16.5 - 2003. Max working pressure in bar (g) for Stainless Steel 1.4408/CF8M

	Working temperature									
	-29° C to 38°C	**100 °C**	**150 °C**	**200 °C**	**250 °C**	**300 °C**	**350 °C**	**400 °C**	**450 °C**	**500 °C**
Class 150	19	16,2	14,8	13,7	12,1	10,2	8,4	6,5	4,6	2,8
Class 300	50	42	40	36	35	33	32	31	31	30

NOTE! FSV only applies up to 150°C. FSV only applies to Class 150.

Max. allowable pressure drops/torque figures for FSV/VSS

Maximum allowable pressure drops are valid at 20° C (see below).

Valve DN	PN	Max. pressure drop. bar at opening angle 0°	60°	80°	Torque min. at ΔP bar	Nm	Torque min. at ΔP bar	Nm	Torque max. shaft Nm
80	25	25	13	4,4	≤ 10	100	> 10	120	150
100	25	25	13	4,4	≤ 10	120	> 10	165	220
125	25	25	15	5,8	≤ 10	165	> 10	180	220
150	25	25	9	2,7	≤ 10	200	> 10	250	300
200	25	25	4,3	1,1	≤ 10	250	> 10	290	350
250	25	25	3,6	1,05	≤ 10	400	> 10	500	600
300	25	20	3,6	0,93	≤ 10	500	> 10	620	750
350	25	20	3,6	1,09	≤ 8	800	> 8	1000	1200
400	25	20	4,7	1,43	≤ 8	1000	> 8	1350	1600
500	25	15	4,4	1,19	≤ 6	1900	> 6	2700	3250

Max. allowable pressure drops/torque figures PN 40/Class300 (VSS only)

Maximum allowable pressure drops are valid at 20° C (see below).

Valve DN	PN/Class	Max. pressure drop. bar at opening angle 0°	60°	80°	Torque min. at ΔP bar	Nm	Torque min. at ΔP bar	Nm	Torque max. shaft Nm
80	40/300	50	16	6	≤ 20	120	> 20	180	220
100	40/300	50	15	5	≤ 20	165	> 20	250	300
150	40/300	50	10	3	≤ 20	250	> 20	350	420
200	40/300	50	7,5	2	≤ 20	290	> 20	460	550
250	40/300	50	5	1,5	≤ 20	480	> 20	680	820
300	40/300	50	5	1,5	≤ 20	600	> 20	900	1080
350	40/300	50	5	1,5	≤ 20	950	> 20	1350	1620
400	40/300	50	5	1,5	≤ 20	1300	> 20	1750	2100
500	40/300	50	4	1,2	≤ 20	2600	> 20	3000	3600

Temperature range FSV

Seat	Max. temp.
F = PTFE (10 % carbon)	150° C

Temperature range VSS

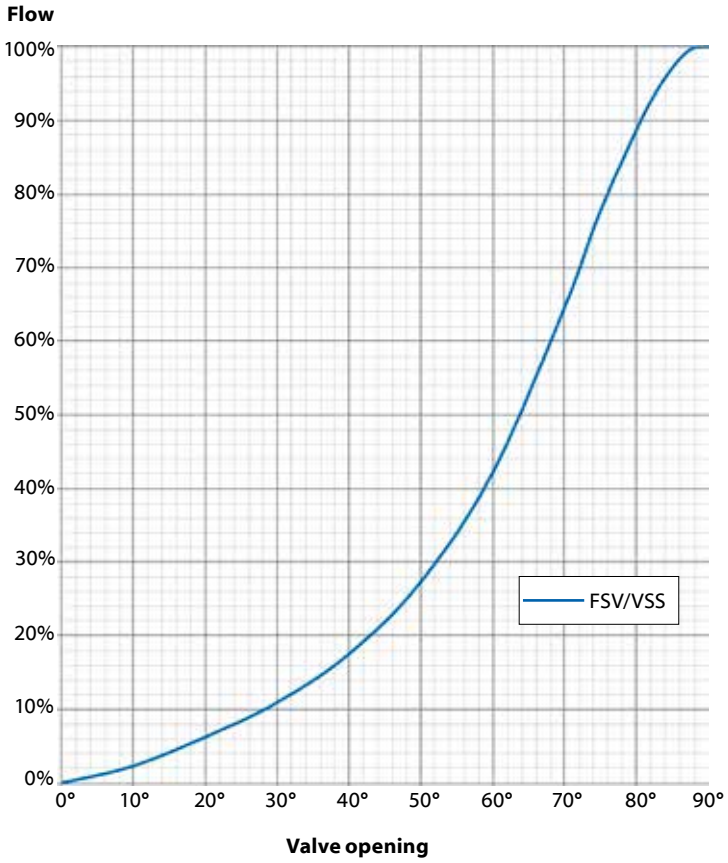
Seat	Max. temp
C = 1.4462 alt. 1.4470, (metal seat, 3 pcs.)	350° C[1]

Shaft	Max. temp.
A = 1.4460 alt. SS 2324-12	150° C
B = 1.4460 alt. SS 2324-12, hard chromed	350° C[1]
C = 1.4460 alt. SS 2324-12, HiCo Gr 6 coated	350° C[1]

Valve body	Max. temp.
A = 1.4408/CF8M	550° C
E = CK-3MCuN	400° C
F = 1.4458	400° C

[1] Check with Somas for temperatures above 350 ° C

Flow characteristics FSV/VSS



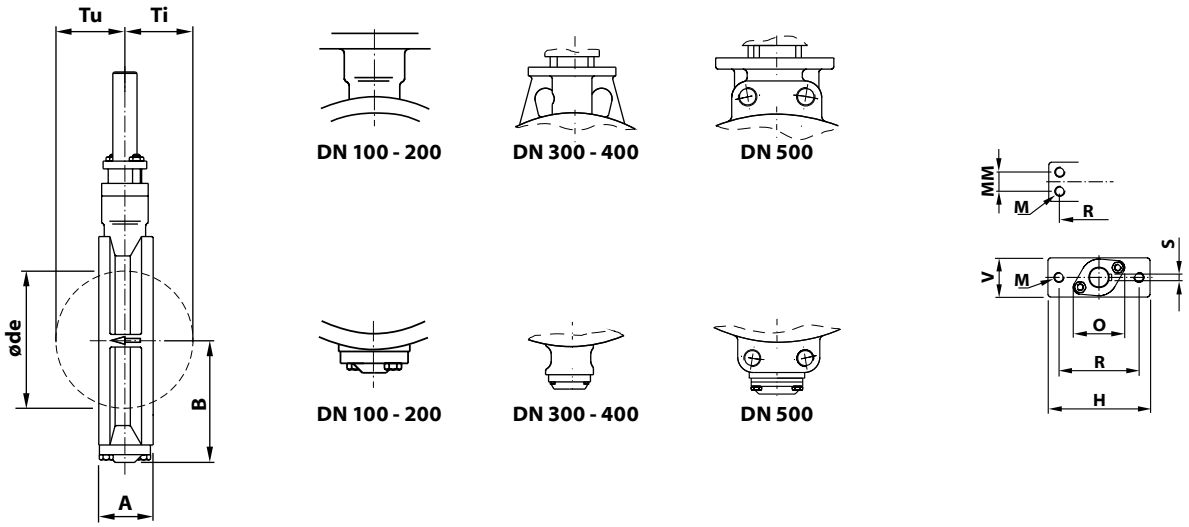
Capacity factor Kv and Resistance factor ζ FSV/VSS

	Opening angle									
DN	**10°**	**20°**	**30°**	**40°**	**50°**	**60°**	**70°**	**80°**	**90°**	**ζ 90°**
80	4	11	19	31	48	75	114	157	177	3,423
100	6	17	29	47	73	113	173	237	267	2,231
125	10	27	47	76	118	182	280	384	433	1,627
150	15	41	73	116	181	280	429	589	664	1,317
200	31	84	147	236	368	568	870	1195	1347	0,996
250	55	147	258	413	644	994	1524	2092	2358	0,830
300	87	233	408	653	1019	1574	2412	3311	3732	0,727
350	128	343	601	962	1501	2317	3551	4875	5495	0,656
400	178	478	839	1342	2094	3233	4954	6802	7666	0,605
450[1]	238	640	1122	1796	2802	4326	6630	9103	10260	0,565
500	309	828	1453	2325	3628	5600	8582	11783	13281	0,534

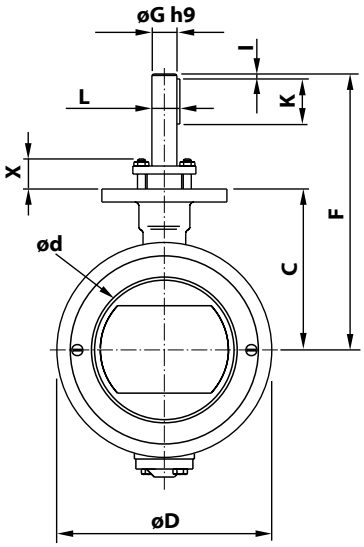
Relation between Kv and Cv: Kv = 0.86 x Cv

[1]DN450 only for VSS

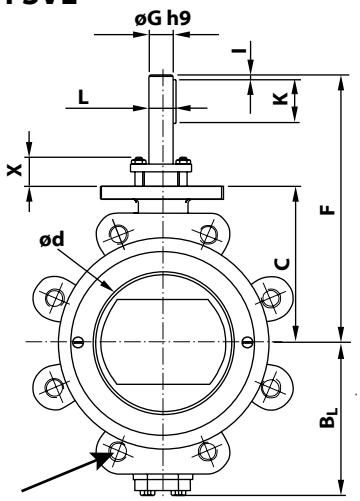
FSVW/FSVL/FSVG



FSVW

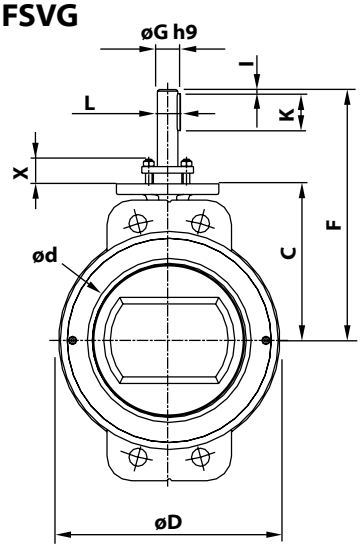


FSVL



Drilled and threaded according to the ordered flange standard

FSVG

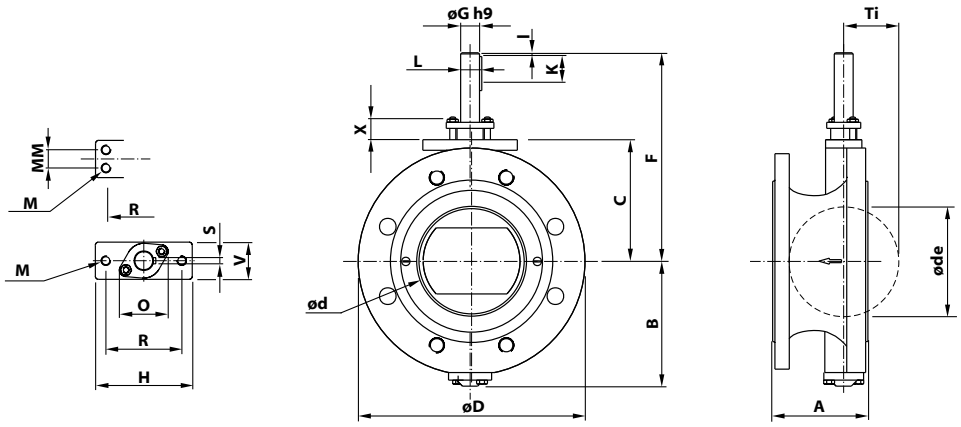


Butterfly valve type FSVW/FSVL/FSVG

DN	NPS	A	B	B_L	C	ød	øde	øD	F	øG	H	I	K	L	M	MM	O	R	S	V	X	Tu	Ti	Weight FSVW/FSVG	Weight FSVL
80	**3**	46	86	86	111	70	60	133	226	20	125	5	45	22.5	M12	-	61	98	6	40	30	41	38	5	10**/14
100	**4**	52	99	129	128	90	86	160	243	20	125	5	45	22.5	M12	–	61	98	6	44	30	52	48	6	11.5
125	**5**	56	113	137	146	116	110	188	261	20	125	5	45	22.5	M12	–	61	98	6	48	30	64	60	9	15.5
150	**6**	56	127	158	161	140	138	215	276	25	125	5	45	28	M12	–	66	98	8	48	30	77	73	11	18.5
200	**8**	60	153	191[1]	191	187	186	270	306	25	125	5	45	28	M12	–	66	98	8	48	30	100	96	17	31
250	**10**	68	188	226	225	236	235	324	360	30	150	5	60	33	M12	24	72	123	8	50	40	124	120	26	45
300	**12**	78	261	261	265	285	285	374	400	35	150	3	50	38	M12	24	75	123	10	60	40	149	145	39	70
350	**14**	78	287	287	294	331	330	432	449	40	150	3	70	43	M12	40	95	123	12	70	50	172	167	53	100
400	**16**	102	339	–	330	382	380	485	530	50	170	3	80	53.5	M16	55	105	136	14	87	50	199	194	82	–
500	**20**	127	396	–	395	479	475	590	605	60	210	3	90	64	M20	70	116	150	18	120	60	249	242	143	–

** PN 10/16/25=14 kg,
PN 20/Class 150=10 kg

FSVF

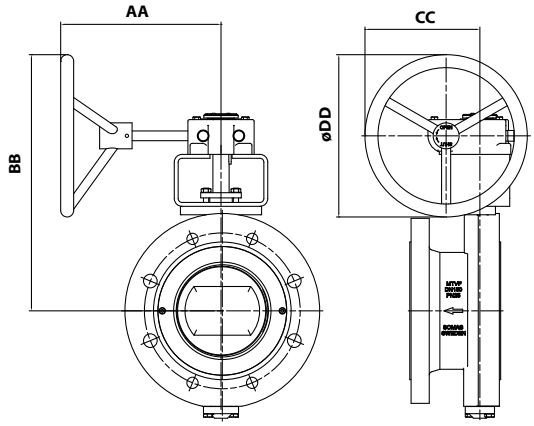


Butterfly valve type FSVF

DN	A	B	C	ød	øde	øD	F	øG	øH	I	K	L	M	MM	O	R	S	V	X	Ti	Weight
80	114	113	111	70	60	According to the flange standard	226	20	125	5	45	22.5	M12	-	61	98	6	40	30	38	14
100	127	130	128	90	86		243	20	125	5	45	22.5	M12	–	61	98	6	44	30	48	17.5
125	140	150	146	116	110		261	20	125	5	45	22.5	M12	–	61	98	6	48	30	60	24
150	140	165	161	140	138		276	25	125	5	45	28	M12	–	66	98	8	48	30	73	34
200	152	195	191	187	186		306	25	125	5	45	28	M12	–	66	98	8	48	30	96	42
250	165	224	225	236	235		360	30	150	5	60	33	M12	24	72	123	8	50	40	120	64
300	178	261	265	285	285		400	35	150	3	50	38	M12	24	75	123	10	60	40	145	100
350	190	297	294	331	330		449	40	150	3	70	43	M12	40	95	123	12	70	50	167	157
400	216	320	330	382	380		530	50	170	3	80	53.5	M16	55	105	136	14	87	50	194	171
500	229	375	395	479	475		605	60	210	3	90	64	M20	70	116	150	18	120	60	242	315

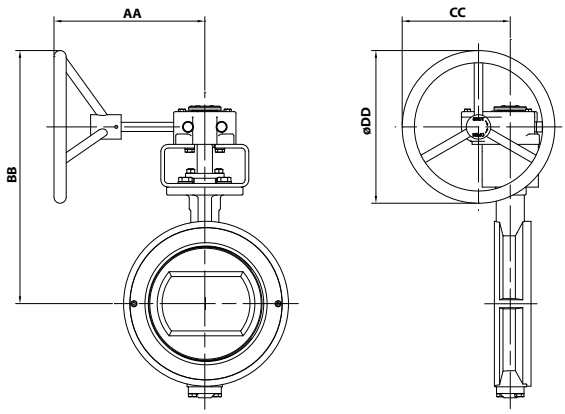
A = Face to face dimension according to EN 558 series 13
øde = Necessary free diameter for the disc under movement

FSV



Butterfly valve type FSVF with gear unit

DN	Type	AA	BB	CC	øDD	Weight
80	**AB215FS**	247	342	177	200	22
100	**AB215FS**	247	357	177	200	25
125	**AB215FS**	247	375	177	200	30
150	**AB215FS**	247	386	177	200	41
200	**AB215FS**	247	415	177	200	53
250	**AB550FS**	284	487	221	300	90
300	**AB550FS**	284	526	221	300	120
350	**AB550FS**	284	589	221	300	172
400	**AB880FS**	277	670	261	350	195
500	**AB2000FS**	320	866	320	500	348

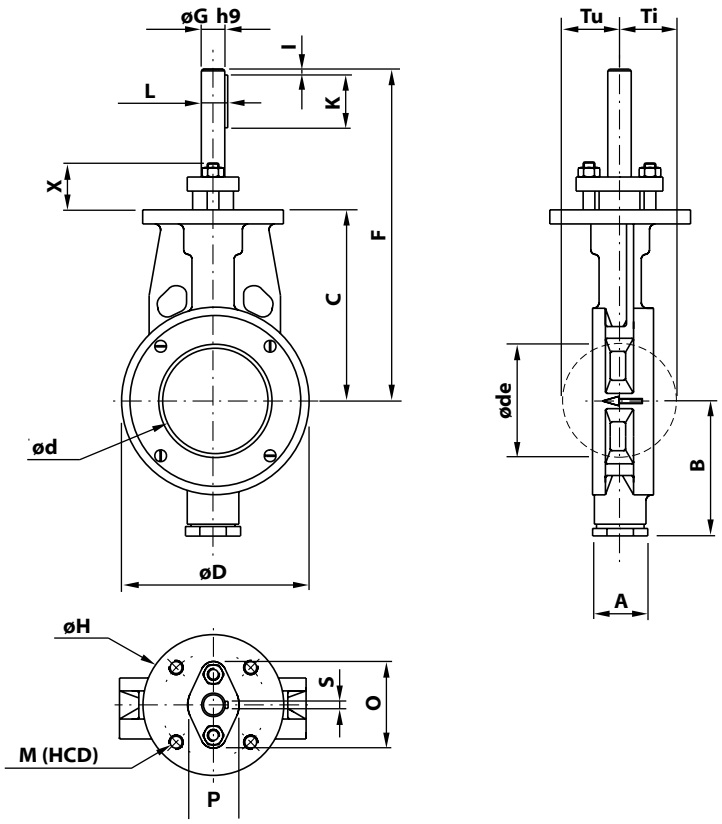


Butterfly valve type FSVW/FSVG/FSVL with gear unit

						Weight	
DN	Type	AA	BB	CC	øDD	FSVW/FSVG	FSVL
80	**AB215FS**	247	342	177	200	13	18**/22
100	**AB215FS**	247	357	177	200	14	20
125	**AB215FS**	247	372	177	200	17	24
150	**AB215FS**	247	386	177	200	19	26
200	**AB215FS**	247	414	177	200	25	39
250	**AB550FS**	284	487	221	300	39	58
300	**AB550FS**	284	526	221	300	52	83
350	**AB550FS**	284	589	221	300	65	110
400	**AB880FS**	277	667	261	350	102	-
500	**AB2000FS**	320	866	320	500	184	-

** PN 10/16/25=22 kg,
PN 20/Class 150=18 kg

VSS



Butterfly valve type VSS

DN	A	B	C	ød	øde	øD	F	øG	øH	I	K	L	M	(HCD)	O	P	S	X	Tu	Ti	Weight
80	50	120	150	70	60	133	270	20	120	5	45	22,5	M12	90	69	40	6	40	41	37	7
100	52	120	163	90	86	160	283	20	120	5	45	22,5	M12	90	69	40	6	40	52	48	9
125	56	135	175	116	110	190	295	20	120	5	45	22,5	M12	90	69	40	6	40	64	60	11
150	56	155	195	140	138	215	315	25	120	5	45	28	M12	90	69	45	8	40	77	73	14
200	60	180	235	187	186	270	355	25	120	5	45	28	M12	90	69	45	8	40	100	96	19
250	68	205	275	236	235	324	410	30	150	5	60	33	M12	120	80	50	8	50	124	120	30
300	78	240	290	285	285	375	425	35	150	5	50	38	M12	120	85	55	10	50	149	145	43
350	78	320	315	331	330	435	450	40	150	5	50	43	M12	120	108	70	12	50	172	167	56
400	102	360	340	382	380	490	540	50	150	10	80	53,5	M12	120	124	82	14	50	199	194	85
450	114	385	370	429	425	535	570	50	150	10	80	53,5	M12	120	124	82	14	50	223	217	109
500	127	415	400	479	475	590	610	60	200	10	90	64	M16	160	147	96	18	60	249	242	150

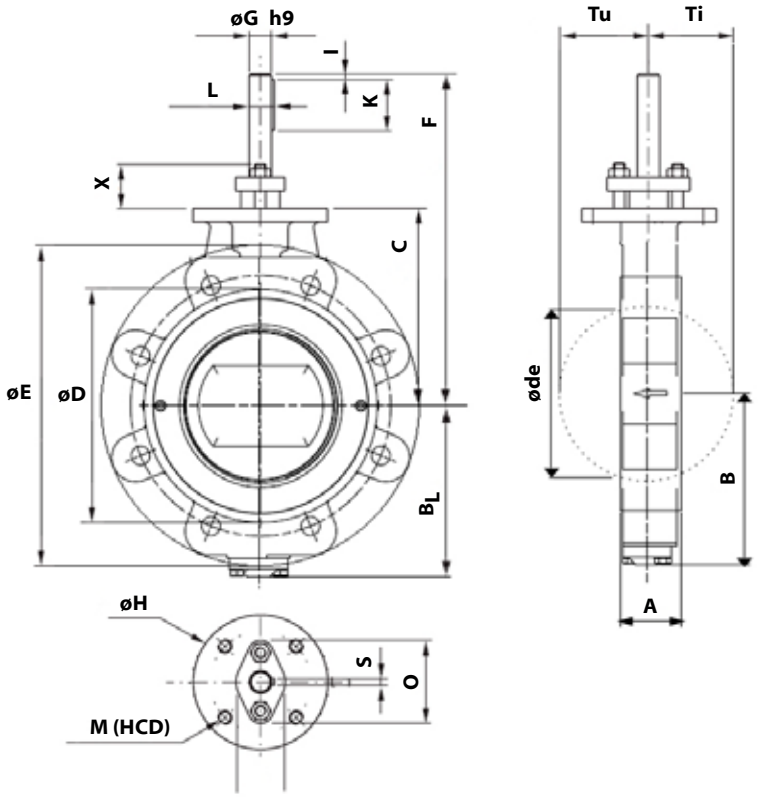
A = Face to face dimension according to EN 558 series 20 (valid for DN 100 - 500), series 49 (valid for DN80).
øde = Necessary free diameter for the disc under movement.

Butterfly valve type VSS PN 40 /Class 300

DN	A	B	C	ød	øde	øD	F	øG	øH	I	K	L	M	(HCD)	O	P	S	X	Tu	Ti	Weight
80	50	113	150	70	60	133	270	20	120	5	45	22.5	M12	90	74	44	6	40	18	6	8
100	64	148	165	90	86	162	285	25	120	5	45	28	M12	90	78	50	8	40	21	11	11
150	76	186	195	140	138	218	330	30	150	5	60	33	M12	120	92	58	8	44	38	31	20
200	89	220	225	187	186	280	360	35	150	5	50	38	M12	120	100	64	10	44	56	47	34
250	114	265	265	236	235	335	400	40	150	5	50	43	M12	120	108	70	12	48	64	62	55
300	114	295	295	285	285	395	505	50	150	10	80	53.5	M12	120	124	82	14	52	89	87	75
350	127	330	330	331	330	450	540	60	200	10	90	64	M16	160	147	96	18	68	105	103	108
400	140	375	370	382	380	512	595	70	200	10	110	74.5	M16	160	162	112	20	68	128	118	158
500	152	442	440	479	475	605	685	80	200	10	120	85	M16	160	183	120	22	78	167	164	250

A = Face to face dimension according to EN 558 series 16 (valid for DN 100 - 500)
øde = Necessary free diameter for the disc under movement

VSSL



Butterfly valve type VSSL

DN	A	B	C	ød	øde	øD	øE	F	øG	øH	I	K	L	M	(HCD)	O	P	S	X	Tu	Ti	Weight
80	48	148	150	70	60	133	204	270	20	120	5	45	22,5	M12	90	64	40	6	40	41	37	10,5
100	52	144	163	90	86	160	226	283	20	120	5	45	22,5	M12	90	64	40	6	40	52	48	12,5
125	56	163	175	116	110	190	260	295	20	120	5	45	22,5	M12	90	64	40	6	40	64	60	16,0
150	56	182	195	140	138	215	294	315	25	120	5	45	28	M12	90	69	45	8	40	77	73	19,0
200	60	217	235	187	186	270	337	355	25	120	5	45	28	M12	90	69	45	8	40	100	96	25,0
250	68	262	275	236	235	324	422	410	30	150	5	60	33	M12	120	80	50	8	50	124	120	46,0
300	78	280	290	285	285	375	485	425	35	150	5	50	38	M12	120	85	55	10	50	149	145	56,0
350 *)	78	320	315	331	330	432	524	450	40	150	5	70	43	M12	120	108	70	12	50	172	167	68,0
400	102	360	340	382	380	485	608	550	50	150	10	80	53,5	M12	120	124	82	14	50	199	194	129
450	114	385	370	429	425	535	670	580	50	150	10	80	53,5	M12	120	124	92	14	60	223	217	207
500	127	415	400	479	475	590	718	610	60	200	10	90	64	M16	160	147	96	18	60	249	242	198

*) Only Class 150
øde = Necessary free diameter for the disc under movement.

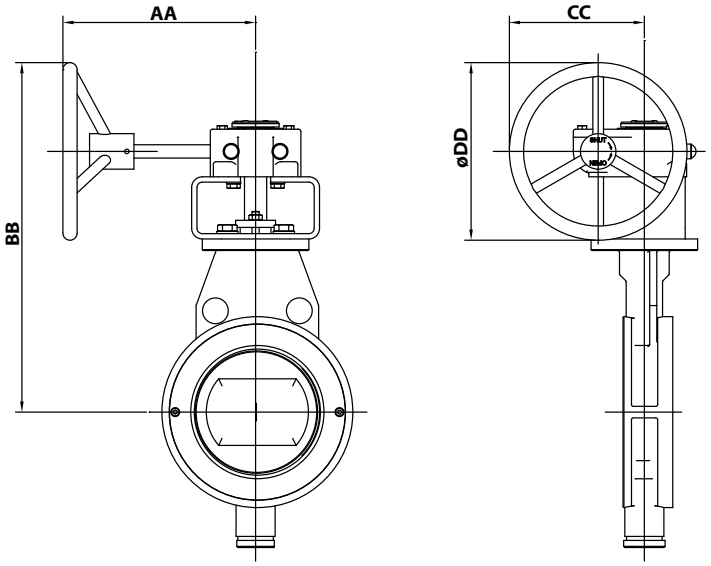
Butterfly valve type VSSL PN 40 /Class 300

DN	A	B	C	ød	øde	øD	øE	F	øG	øH	I	K	L	M	(HCD)	O	P	S	X	Tu	Ti	Weight
80	50	145	150	70	60	133	204	270	20	120	5	45	22,5	M12	90	74	44	6	40	18	6	11
100	64	150	165	90	86	162	238	285	25	120	5	45	28	M12	90	78	50	8	40	21	11	15
150	76	191	195	140	138	218	310	330	30	150	5	60	33	M12	120	92	58	8	44	38	31	29
200	89	225	225	187	186	280	373	361	35	150	5	50	38	M12	120	100	64	10	44	56	47	46
250	114	270	265	236	235	335	434	401	40	150	5	50	43	M12	120	108	70	12	48	64	62	74*/146**
300	114	300	295	285	285	395	504	496	50	150	10	80	53,5	M12	120	124	82	14	52	89	87	101
350	127	335	330	331	330	465	586	540	70	200	10	90	64	M16	160	147	96	18	68	105	103	146
400	140	378	370	382	380	512	626	610	70	200	10	110	74,5	M16	160	162	112	20	68	128	118	203

A = Face to face dimension according to EN 558 series 16 (valid for DN 100 - 400)
øde = Necessary free diameter for the disc under movement

* Class 300 Lugged DN 250
** PN 40 Ring body DN 250

VSS



Butterfly valve type VSS with gear unit

DN	Type	AA	BB	CC	øDD	Weight VSS	Weight VSSL
80	**AB215FS**	247	374	247	200	15	18,5
100	**AB215FS**	247	387	247	200	17	20,5
125	**AB215FS**	247	400	247	200	19	24
150	**AB215FS**	247	420	247	200	22	27
200	**AB215FS**	247	460	247	200	27	33
250	**AB550FS**	282	506	221	300	43	59
300	**AB550FS**	282	546	221	300	56	69
350	**AB550FS**	282	586	221	300	69	81
400	**AB880FS**	275	677	261	350	106	150
450	**AB880FS**	275	707	261	350	130	228
500	**AB2000FS**	318	810	303	500	184	232

Butterfly valve type VSS PN 40/ Class 300 with gear unit

DN	Type	AA	BB	CC	øDD	Weight VSS	Weight VSSL
80	**AB215N**	217	349	152	200	17	18
100	**AB215N**	217	364	152	200	20	22
150	**AB215N**	217	404	152	200	29	36
200	**AB550N**	282	496	221	300	45	60
250	**AB550N**	282	536	221	300	70	88*/160**
300	**AB880N**	275	612	261	350	88	120
350	**AB880N**	275	667	261	350	121	165
400	**AB2000N**	318	806	303	500	181	238
500	**AB2000N**	318	876	303	500	291	-

* Class 300 Lugged DN 250
** PN 40 Luggsring DN 250

Flange standard

Somas butterfly valves in this data sheet are fitted to be mounted between pipe flanges EN 1092-1 PN10-25 (PN10-40 for VSS) and ASME B16.5 Class 150 (Class 300 för VSS).

NOTE! Max. allowable pressure drop must not be exceeded. When ordering, please state the pressurerating of the counter flanges. See the valve specification system.

Seat design

VSS valves for Fire safe have 3 pcs metal seat according to code C. The FSV valves have PTFE seat (10% Carbon) and a backup seat in a nickel alloy code F.

Actuators, gears and accessories

The valves can be fitted with Somas manual, on/off or control actuators in accordance with the selection table. The valves will then be delivered as tested units ready for installation, valves with hand levers are only leakage tested without hand levers installed.

In the documents library on www.somas.se there is also information about positioners, limit switches and solenoid valves.

We can also fit other types of actuators and accessories in accordance with your specification.

Additional information

Technical data for the materials used in the Somas valves, flange standard, steam data, etc. can be found in documents library on www.somas.se.

See also our datasheets Si-203 type VSS and Si-205 type MTV, for other butterfly valves.

Flange gaskets

Flat gaskets shall be used. Spiralwounded gaskets shall not be used. **Note:** Use gaskets with the correct inside diameter to ensure that pressure is applied on the cover plate.

For mounting between flanges PN10-25 according to the standard EN 1514-1 type IBC.

Gaskets according to EN 1514-1

Valve	Max. Inside dia.	Outside dia. (dy) (mm)		
DN	di (mm)	PN10	PN16	PN25
80	89	142	142	142
100	115	162	162	168
125	141	192	192	194
150	169	218	218	224
200	220	273	273	284
250	273	328	329	340
300	324	378	384	400
350	356	438	444	457
400	407	489	495	514
500	508	594	617	624

For mounting between flanges according to Class 150 dimensions according to the standard ASME B 16.21.

Gaskets according to ASME B 16.21

Valve	Max. Inside dia.	Outside dia. (dy) (mm)
DN	di (mm)	Class 150
80	89	136
100	114	174
125	141	196
150	168	222
200	219	279
250	273	340
300	324	410
350	356	451
400	406	515
500	508	606

For mounting between flanges according to PN 40, the inside gasket diameter should not exceed the dimensions specified in the standard EN 1514-1.

Gaskets according to EN 1514-1 PN 40

Valve	Max. Inside dia.	Outside dia. (dy) (mm)
DN	di (mm)	
80	89	142
100	115	168
150	169	224
200	220	290
250	273	352
300	324	417
350	356	474
400	407	546
500	508	628

For mounting between flanges according to Class 300 dimensions according to the standard ASME B 16.21 RF are valid where the following dimensions refer to the gasket.

Gaskets according to ASME B 16.21 RF Class 300

Valve	Max. Inside dia.	Outside dia. (dy) (mm)
DN	di (mm)	
80	89	149
100	114	181
150	168	250
200	219	308
250	273	362
300	324	422
350	356	486
400	406	540
500	508	654

Valve specification system

FSVW - A 4 - E S F - J 1 1 - DN... - D... - B... - PN...
1 2 3 4 5 6 7 8 9 10 11 12 13

1 Type of valve
FSVW
Wafer design
FSVG
Wafer design with guiding lugs
FSVL
Lugged design
FSVF
Double flanged design

2 Valve body design
A = Wafer design
F = Lugged design
L = Double flanged design

3 Nominal pressure
2 = PN10
3 = PN16
4 = Class 150
5 = PN25

4 Material – valve body
A = CF8M/1.4408
E = CK-3MCuN
F = 1.4458
H = 1.4470
S = Titan Gr C-2 / Gr 2
Z = 1.4469

5 Material – disc
A = CF8M/1.4408 alt. 1.4401
H = 1.4462 alt. 1.4470
N = 1.4469 alt. 1.4410
S = CK-3MCuN
U = Titan Gr C-2 / Gr 2

6 Material – seat
F = PTFE (10% Carbon) + NO6625 (High Nickel Alloy)

7 Material – shaft
A = 1.4460 alt. SS 2324-12
F = 1.4404
J = CK3MCuN / 1.4547
S = 1.4469 alt. 1.4410
T = Titan Gr 5

8 Bearings – valve body/shaft
1 = Without bearing
7 = Stainless steel

9 Stuffing box
1 = Graphite

10 Valve size, DN/NPS

11 Shaft diameter

12 Actuator mounting flange drilling

13 Drilling, counter flanges PN/Class

Note: For valves according to NORSOK or equivalent, other materials may be present, see datasheet Si-208.

Other materials are available on request. Contact Somas for further information.

Valve specification system

VSS - A 5 - A A C - A 1 1 - DN... - D... - B... - PN...
1 2 3 4 5 6 7 8 9 10 11 12 13

1 Type of valve
VSS
Wafer design
VSSL
Lugged design

2 Valve body design
A =Wafer design
F =Lugged design

3 Nominal pressure
2 = PN10
4 = Class 150
5 = PN 25
6 = PN40/Class 300

4 Material – valve body
A = 1.4408/CF8M
E = CK-3MCuN
F = 1.4458

5 Material – disc
A = CF8M/1.4408 alt. 1.4401
B = CF8M/1.4408 alt. 1.4401, hard chromed
C = 1.4408/CF8M, alt. HiCo Gr 21 coated
F =1.4307 alt. 1.4309
M = 1.4458
S = CK-3MCuN alt. 1.4547

6 Material – seat
C = 1.4470/1.4462 (metal seat, 3 pcs)

7 Material – shaft
A = 1.4460 alt. SS 2324-12
B = 1.4460, alt. SS 2324-12 hard chromed
C = 1.4460 alt. SS 2324-12, HiCo Gr 6 coated

8 Bearing – valve body/shaft
1 = Without bearing
3 = HiCo Gr 6
6 = N06625 (High Nickel Alloy)
7 = 1.4462

9 Stuffing box
1 = Graphite

10 Valve size, DN

11 Shaft diameter

12 Actuator mounting flange drilling

13 Drilling, counter flanges, PN/Class

Other materials are available on request.
Contact Somas for further information.

Somas reserves the right to make improvements without prior notice.

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