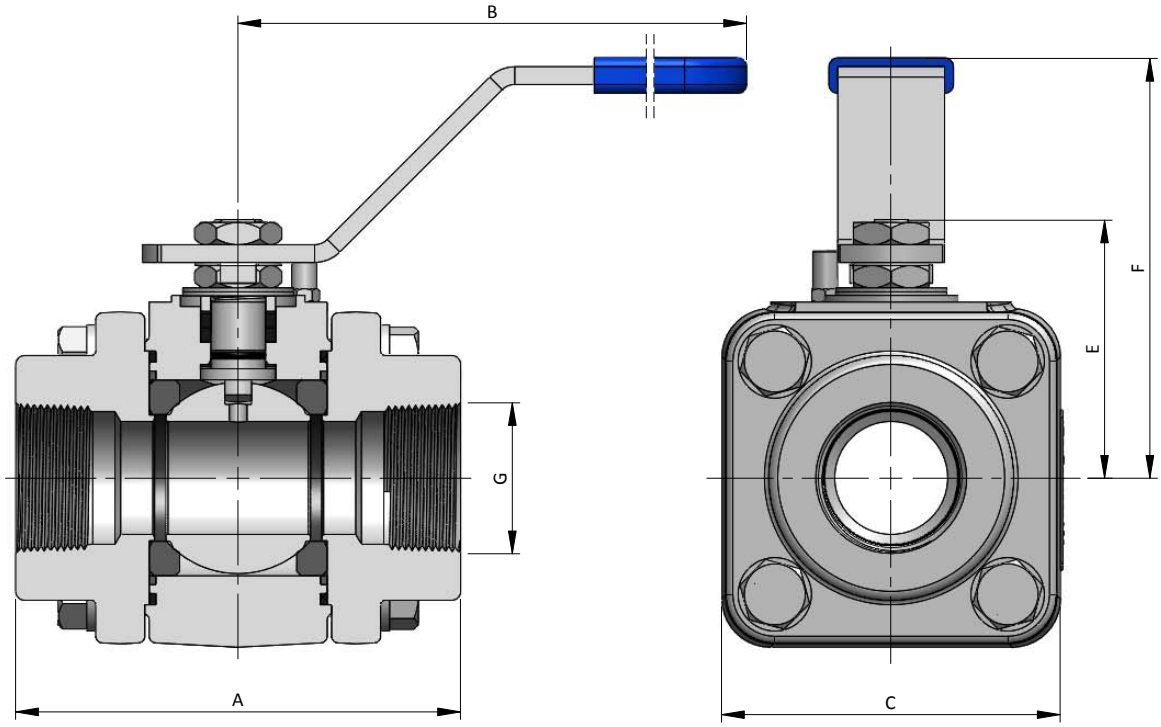
SF SERIES

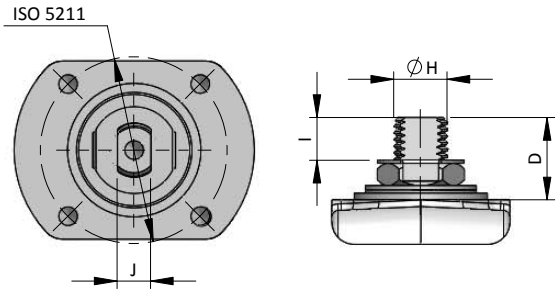
Cl800 - 2000 psi
FULL BORE - DN 10 (⅜") ÷ 40 (1½")
THREADED ENDS

DS: SF-F1DA3

CARBON STEEL A105N-LF2 VERSION



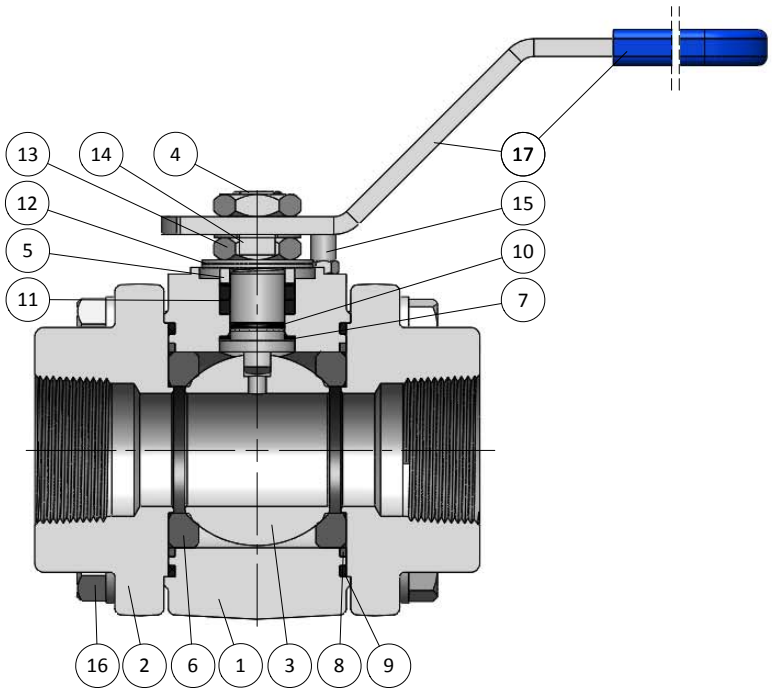
Threaded Ends
NPT according to ASME B1.20.1
BSP according to ISO 228-1
BSPT according to ISO 7-1



DN / Size		Dimensions								Automation						Cv	Weight Approx. [Kg]
FULL BORE		Ball Port	A	B	C	D	E	F	G	H	I	J	ISO 5211	BTO* [Nm]	MAST [Nm]		
mm	inch																
10	⅜"	11.9	70	140	50	10	41.0	67.5	NPT - BSP - BSPT	10	6.5	6.0	F03	6	16	8	1.0
15	½"	15.1	75	140	55	10	43.5	70.0		10	6.5	6.0	F03	8	16	13	1.5
20	¾"	20.6	90	170	66	13	54.0	89.0		12	9.5	7.5	F04	14	29	27	2.5
25	1"	25.4	100	170	74	19	58.0	92.5		12	9.5	7.5	F04	18	29	41	3.0
32	1¼"	34.0	115	200	90	24	72.0	113.5		16	13.5	11.0	F05	32	84	77	5.0
40	1½"	38.1	125	200	98	24	76.0	117.0		16	13.5	11.0	F05	46	84	96	6.0

*BTO - Break to Open Torque at full differential pressure

Revision 0

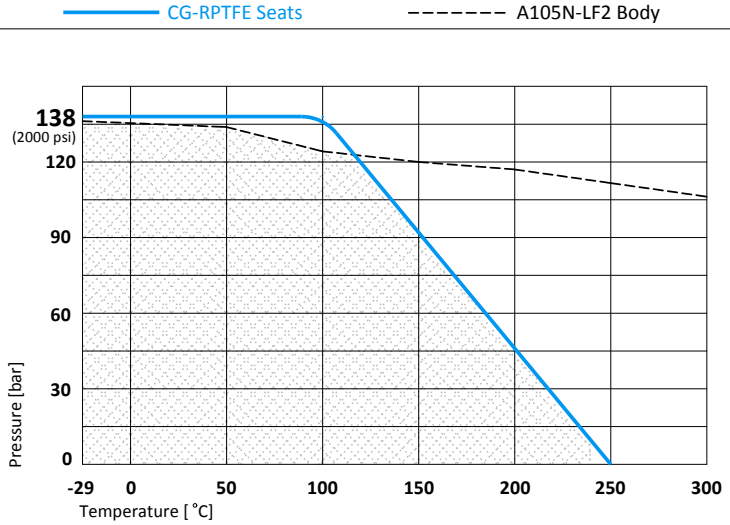


CARBON STEEL A105N-LF2 VERSION

Part	Qt.	Description	Materials	
1	1	Body	A105N-LF2	
2	2	End	A105N-LF2	
3	1	Ball	F316/CF8M	
4	1	Stem	A182 F316-316L	
5	1	Gland Packing	A182 F316-316L	
6	2	Seat	CG-RPTFE	↘
7	2	Stem Thrust Seals	CG-RPTFE + PEEK	↘
8	2	1st Body Seal	CG-RPTFE	↘
9	2	2nd Body Seal	GRAPHITE	↘
10	1	O'Ring	VITON	↘
11	1	Stem Packing Set	GRAPHITE + PEEK	↘
12	2	Disc Spring	STAINLESS ST. 316	
13	2	Stem Nut	STAINLESS ST. 316	
14	1	Locking Clip	STAINLESS ST. 316	
15	1	Stop Pin	STAINLESS ST. 304	
16	8	Bolt	A193 Gr. B7 ZINC.	
17	1	Handle	CARBON ST. ZINC. / VINYL	

↘ TYPICAL SPARE PARTS

Pressure - Temperature Rating



Seat Options

Material	mOT* [°C]	MOT* [°C]
PTFE	-29	200
TFM 1600	-29	200
CG-RPTFE	-29	240
PEEK	-29	280

*mOT - minimum Operating Temperature
*MOT - Maximum Operating Temperature at 10 bar

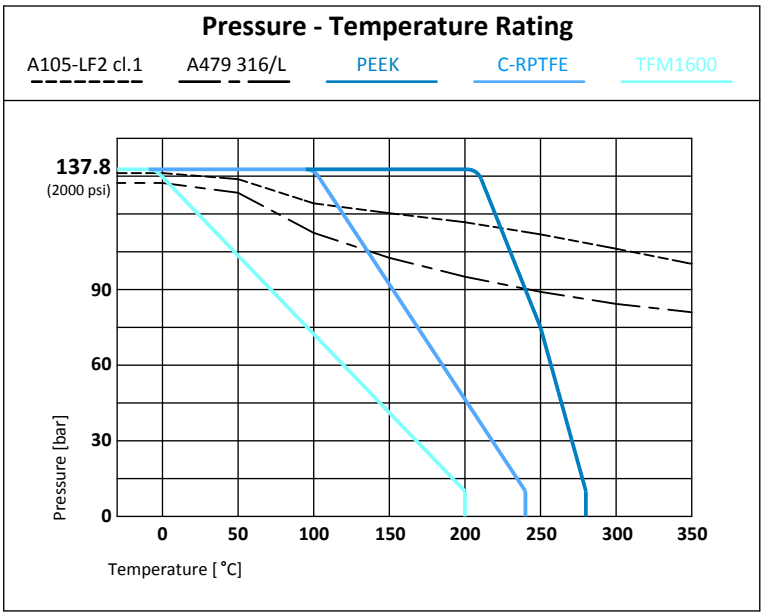
DN	Rating
DN 10 to 40 FB	138 bar / 2000 psi

CERTIFICATION	CONSTRUCTION STANDARDS	TEST STANDARDS
CE Certification acc. to PED 97/23/EC EAC Certification acc. to TR CU GOST 010 and 032 Fire Safe acc. to API 607 Ed.6 to ISO 10497 ATEX II 2GD Certification acc. to 94/9/EC Fugitive Emissions Class B acc. to ISO 15848 CO1 (-46 °C to RT) Company Quality System Certified acc. to ISO 9001	ASME B16.34 ISO 17292 MSS-SP-25 ISO 5211	All valves with *resilient seats*, are tested acc. to: EN 12266-1 Rate A and API 598 / ISO 5208. TESTS APPLIED: Hydrostatic and Pneumatic EN 10204 type 3.1 Certificate available for every valve

SF SERIES

CL800 (2000 psi)
FULL BORE - DN 15 (½'') ÷ 40 (1½'')
REDUCED BORE - DN 20 (¾'') ÷ 50 (2'')
TECHNICAL SPECIFICATIONS

Pressure - Temperature Rating



Seat Options

Material	mOT* [°C]	MOT* [°C]
TFM 1600	-101	200
C-RPTFE	-101	240
PEEK	-40	280

*mOT - minimum Operating Temperature.
Standard version recommended up to -46 °C
Extended version recommended up to -101 °C
*MOT - Maximum Operating Temperature at 10 bar

DN	Rating
FB 15 (½") to 40 (1½") RB 20 (¾") to 50 (2")	137.8 bar / 2000 psi

DN / Size				Torque Valve Figure [Nm]						Maximum Allowable Stem Torque [Nm]					Flow Coefficient Cv
FULL BORE		REDUCED BORE		C-RPTFE						316	F51	F55	17.4	718	
mm	inch	mm	inch	BTO	RTO	ETO	BTC	RTC	ETC	MAST					
15	½''	20	¾''	8	5	6	6	5	6	16	25	30	40	53.5	20
20	¾''	25	1''	14	8	10	10	8	11	29.5	45	55	71.5	98.5	45
25	1''	32	1¼''	18	10	12	12	10	14	29.5	45	55	71.5	98.5	75
32	1¼''	40	1½''	32	18	21	21	18	24	82.5	125	150	200	275	105
40	1½''	50	2''	46	26	30	30	26	35	82.5	125	150	200	275	175

CERTIFICATION	CONSTRUCTION STANDARDS	TEST STANDARDS
CE Certification acc. to **PED 2014/68/EU** **Fire Safe Design** acc. to **API 607Ed.6/ISO 10497** **ATEX II 2GD** Design acc. to **2014/34/EU** Fugitive Emissions Class B acc. to **ISO 15848 CO1 (-46 °C to RT)** Quality System Certified acc. to **ISO 9001**	ASME B16.34 | ISO 17292 ASME B1.20.1 | ISO 7-1 | ISO 228-1 ASME B16.25 | ASME B36.10M ASME B16.11 MSS-SP-25 ISO 5211	Pressure tests according to: EN12266-1 / API 598 / ISO 5208 Rate A Tests applied: Hydrostatic Shell Test Hydrostatic Seat Test Pneumatic Tightness Test Pneumatic Seat Test EN 10204 type 3.1 Certificate

Last revision available