

702-703 XS-F-V-PORT REGULATING VALVE

CARACTERISTIQUES

The 702 and 703 XS-F ball valves are dedicated to the automatic shut off of industrial fluid's lines up to 137 bar pressure and 220°C temperature. The construction type of this high performance valve is a full bore 3 pieces with body-integrated screws. The double tightness system for body and stem, the anti-static device and the fire safe design make the valve applicable for oil and gas uses. This valve is 97/23 CE, fire safe and ATEX certified. The ball is available in "V" 30 ° or in "V" 60 ° with different flow coefficients. The pad in stainless steel is graduated from 0 to 90 ° and allows the blocking in position of the lever.

AVAILABLE MODELS

702 XS-F: carbon steel body

703 XS-F: stainless steel body

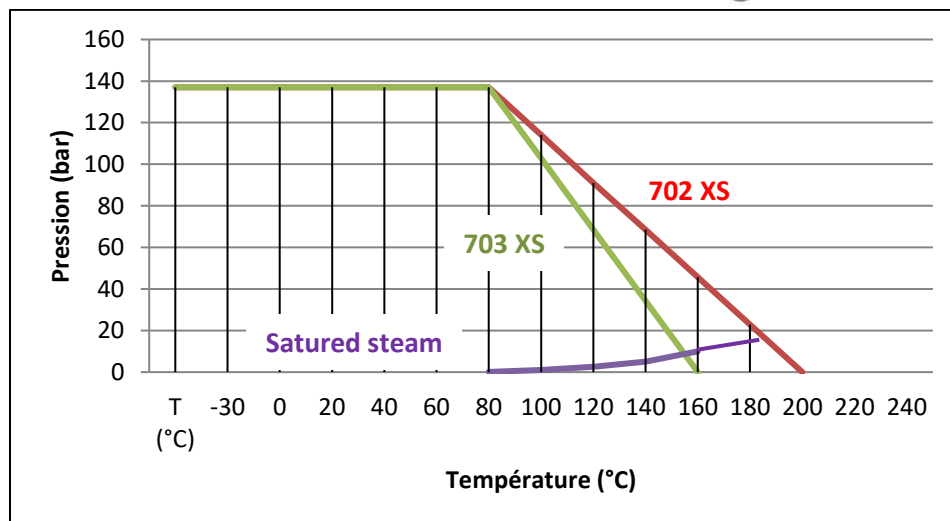
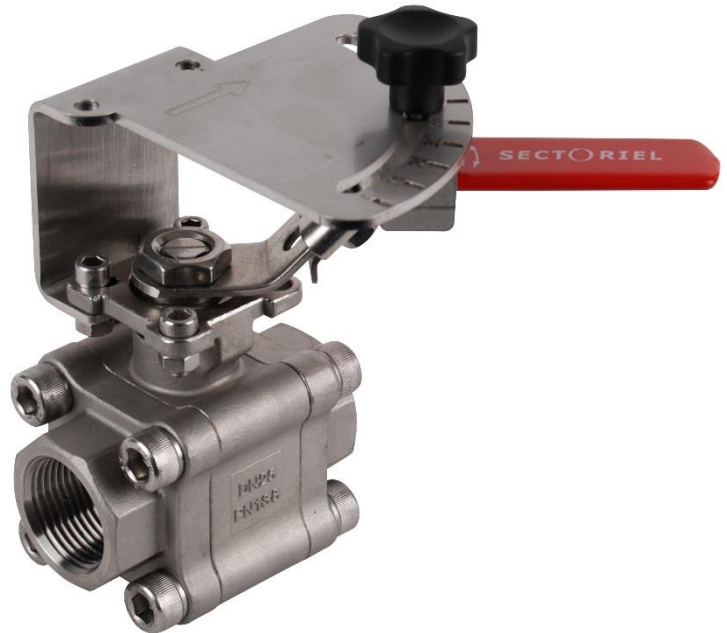
Sizes: 1/2 " to 2"

BSP and NPT threaded, SW and BW welded connections



LIMITS OF USE

Material	Carbon	Stainless steel
Pressure of fluid :	137 bar	
PS steam :	8 bar	Do not use
TS fluid mini :	-20°C	- 30°C
TS fluid maxi :	+220°C	+180°C



Informations données à titre indicatif et sous réserve de modifications éventuelles



SECTORIEL S.A.
45 rue du Ruisseau
38290 SAINT QUENTIN-FALLAVIER – FRANCE
Tél : +33 4 74 94 90 70 – Fax : +33 4 74 94 13 95
www.sectoriel.fr / Email : sectoriel@sectoriel.fr

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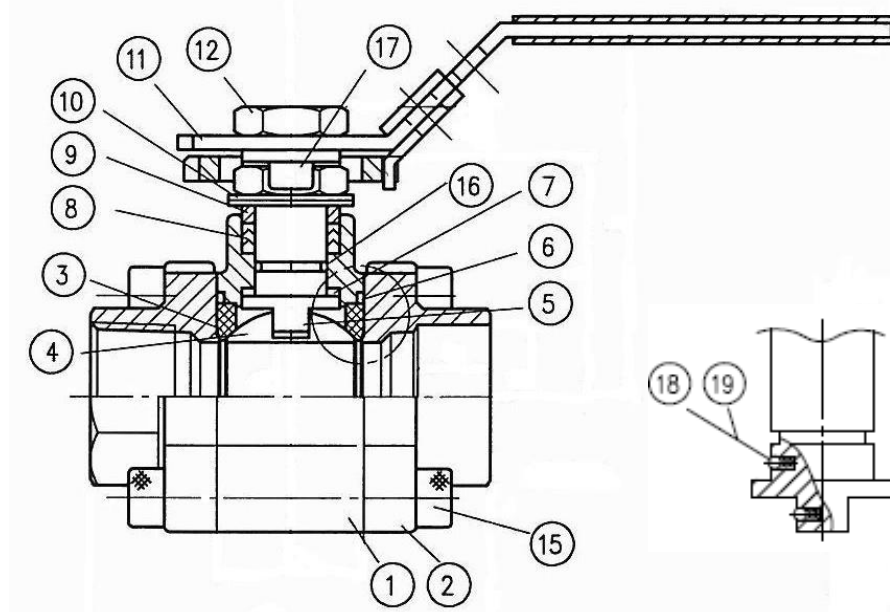
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REGULATIONS AND STANDARDS OF CONSTRUCTION

	Standard	NB		Standard
P.E.D CE 97/23	1/2" to 1" : not concerned		Final testing	API 598
	1"1/4 to 2" : category III	TÜV 0035	Material certificate	EN 10204
Conception	ANSI B16.34		Corrosion resistancy	NACE MR-0175
Body sizing	EN 12516-1		Fire safe	API 607/4
Materials	EN 1503-2		Motorization connection	ISO 5211
BSP threaded connection	ISO 228-1		Pilote solenoid valve connection	NAMUR
ATEX directive	II 2G/D Tx areas 1,2,21 et 22	SIRA 0518	NPT Threaded connection	ANSI B1.20
	EN 13463-1		LSB connection	VDI/VDE 3845

CONSTRUCTION

Item	Part	Carbon steel	Stainless steel	Item	Part	Carbon and stainless steel
1	Body	CS 1.0619	SS 1.4408	10	Belleville washer	Inox 301
2	Caps	CS 1.0619	SS 1.4408	11	Lever	SS 304
3	Seats	PTFE + 50% SS		12	Lever nut	SS 304
4	Ball	SS 316		13	Pin	SS 304
5	Stem	SS 316		14	Cover	PVC
6	Body gasket	Graphite		15	Screw	ISO 898 12.9
7	Ring	PTFE + 50% SS		16	O-ring	FPM
8	Packing	Graphite		17	Locking device	SS 304
9	Ring	SS 304		18	Anti-static ball	SS 316
				19	Spring	SS 316

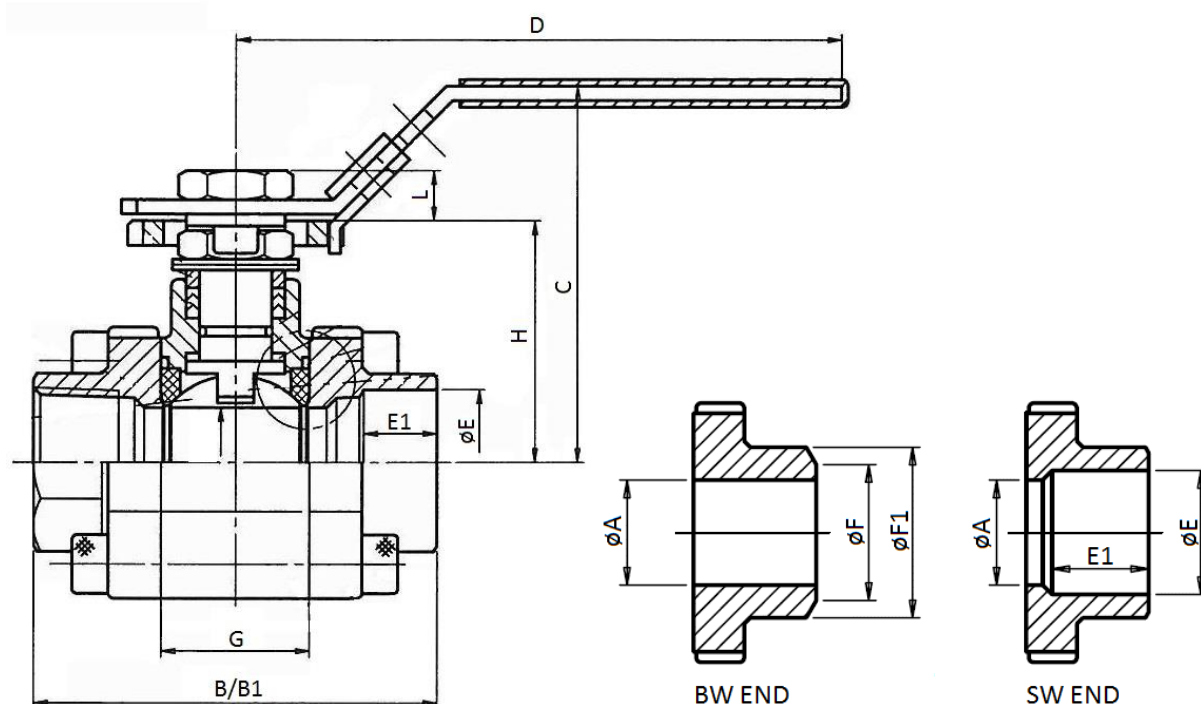


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DIMENSIONS (mm)



DN	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"
A	16	20	24,5	32	38	50
B (SW)	75	80	90	110	120	140
B1 (BW)	75	90	100	110	125	150
C	70.9	73.4	84.1	89.3	109.5	118.9
D	110	110	135	135	165	165
E	21.8	27.2	33.9	42.7	48.8	61.2
E1	11.2	14.3	15.8	17.5	19.1	21.3
F (BW)	17	22	28	37	43	54
F1 (BW)	21.3	26.9	33.7	42.4	48.3	60.3
G	25.2	27.7	33	41.2	49.3	63.6
H	42.3	44.8	54	59.2	73.5	82.9
L	8	8	10	10	14.8	14.8

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FLOW-RATE COEFFICIENT (Kv)

The Kv (m3/h) values as a function of the degree of opening, are the following:

DN	Ball	Kv (m3/h) per opening angle																		
		0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°
15	30°	0	0	0	0	0	0	0	0.1	0.1	0.2	0.4	0.8	1.1	1.5	1.8	2.5	3.1	4.1	5.1
	60°	0	0	0	0	0	0	0	0.2	0.4	0.6	0.9	1.4	1.9	2.6	3.3	4.6	5.9	8.0	10.1
20	30°	0	0	0	0	0	0.1	0.2	0.4	0.6	0.9	1.2	1.6	1.9	2.5	3.1	3.8	4.6	5.7	6.8
	60°	0	0	0	0	0	0.2	0.3	0.6	0.9	1.3	1.8	2.4	2.9	4.0	5.0	6.7	8.4	11.5	14.5
25	30°	0	0.03	0.04	0.3	0.5	0.9	1.2	1.7	2.2	2.8	3.4	4.2	5.0	6.3	7.5	8.9	10.2	11.9	13.7
	60°	0	0.03	0.05	0.4	0.7	1.1	1.5	2.0	2.6	3.2	3.9	5.1	6.2	8.0	9.7	12.6	15.5	20.0	24.5
40	30°	0	0.01	0.02	0.4	0.7	1.3	2.0	2.7	3.4	4.7	5.9	7.4	8.9	11.3	13.7	16.3	18.8	22.1	25.3
	60°	0	0.01	0.02	0.5	0.9	1.7	2.4	3.8	5.2	6.4	7.6	10.1	12.6	15.7	18.8	24.7	30.6	39.3	47.9
50	30°	0	0.16	0.32	1.1	1.9	2.9	3.9	5.0	6.1	7.5	9.0	11.3	13.6	17.0	20.4	24.6	28.8	33.6	38.4
	60°	0	0.22	0.44	1.3	2.1	3.4	4.7	6.7	8.7	11.2	13.6	17.9	22.3	28.6	34.9	43.7	52.4	66.9	81.4
80	30°	0	0.30	0.60	1.7	2.9	5.1	7.4	10.4	13.5	18.2	22.9	29.0	35.1	43.4	51.8	62.6	73.4	85.4	97.4
	60°	0	0.41	0.82	2.1	3.4	6.4	9.3	14.4	19.5	26.6	33.8	45.1	56.3	73.7	91.0	114	137	176	216
100	30°	0	0.37	0.74	2.8	4.8	8.3	11.8	17.7	23.5	31.5	39.5	50.3	61.2	75.6	90	106	123	145	167
	60°	0	0.82	1.6	3.3	5.0	10.3	15.5	24.0	32.5	44.5	56.5	75.7	94.9	123	151	194	236	297	358

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