



Carbon reinforced seats with superior temperature and wear resistance

Series 55

3-pcs ball valve PN69/55

- Stainless steel "CF8M"
- Steel "WCB"
- High quality industrial 3-pcs ball valve
- Full bore
- Reliable stem seal that ensures long and trouble-free operation
- Carbon reinforced seats with superior temperature and wear resistance
- ISO5211 connection



Make it better.



MARS

Series 55

3-pcs ball valve PN69/55 • EU-1935/2004, PED, ATEX, TA-LUFT

Connection

Weld ends, ISO1127, EN12627 and BSPP threaded ends.

Usable for

Water, air, oil etc.

Options

Seat material: PTFE, Delrin ect.

Connections: NPT, socket weld, flange connection

Pressure rating

DN15-DN50: 69bar / 1000psi

DN65-DN100: 55bar / 800psi

Temperature

-20° C to 220° C

Accessories

- Coupling/bracket for mounting actuator
- MSB Mars Service and safety bracket

Spare parts

- Complete kit/set of gaskets
- Seat rings
- Joint gasket
- Ball

When ordering, please find information in regards to size of valve on the valve nameplate. Ex. Serie 55 DN20. It is also possible to scan the QR code on the valve body in order to obtain access to specific spare part information and relevant documentation.

Developed for your industry



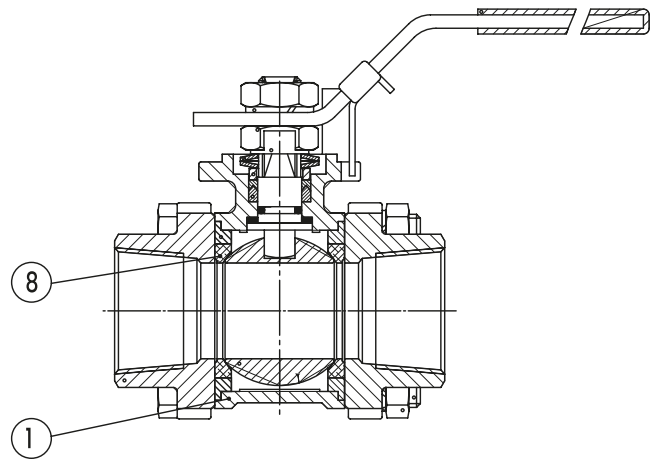
Additional specification can be requested.

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Parts description, excerpt

Pos	Description	Material
1	Body.....	Stainless steel CF8M or WCB
8	Seat.....	CPTFE (25%C 75%PTFE)



➤ Improve the quality

We help Engineers to improve the quality of your manufacturing process.

➤ Optimize total cost

We help Purchasing Officers to optimize total cost of production, prevent downtime and safeguard your brand.

➤ Work smarter

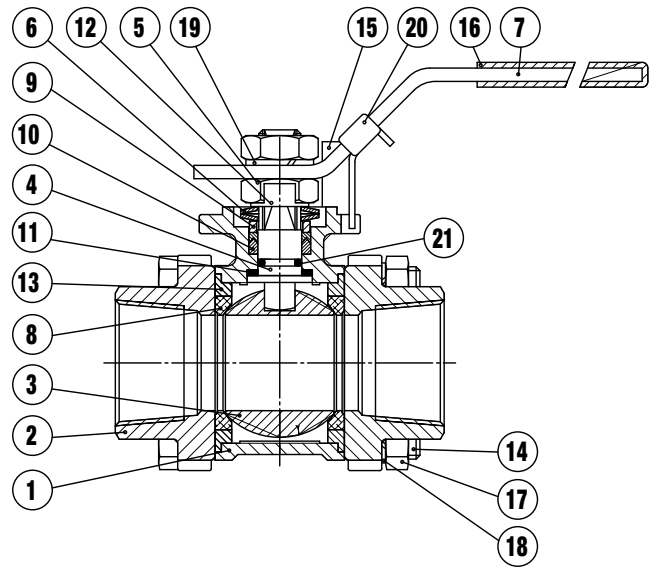
We help Maintenance Crews to work smarter, while preventing time-consuming mistakes.

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Materials

Pos	Description	Material
1	Body	Stainless steel CF8M or WCB
2	Connection	Stainless steel CF3M/ CF8M or WCB
3	Ball	Stainless steel CF8M/AISI316
4	Ball	Stainless steel AISI316
5	Stem nut	Stainless steel AISI304
6	Belleville washers	Stainless steel AISI301
7	Handle	Stainless steel AISI304
8	Seat	CPTFE (25%C 75%PTFE)
9	Bushing	Stainless steel AISI304
10	Stem seal	CPTFE (25%C 75%PTFE)
11	Stem gasket	CPTFE (25%C 75%PTFE)
12	Locking saddle	Stainless steel AISI304
13	Body gasket	PTFE
14	Body bolt	Stainless steel AISI304
15	Stop bolt	Stainless steel AISI304
16	Sleeve	Vinyl
17	Nut	Stainless steel AISI304
18	Spring washer	Stainless steel AISI304
19	Spring washer	Stainless steel AISI304
20	Locking plate	Stainless steel AISI304
21	O-ring	FPM



Welding	DIM Thread	*) Torque [Nm] No pressure	Weight [kg]	Kv-value [m ³ /t] 90°	Welding connection	
					WCB EN 12627 ØG x T (ØC)	CF3M ISO 1127 ØG x T (ØC)
	DN15 1/2"	5.6	0.6	10.3	21.7 x 3.35 (15.0)	21.3 x 1.6 (18.1)
	DN20 3/4"	6.3	0.8	27.5	27.2 x 3.35 (20.5)	26.9 x 1.6 (23.7)
	DN25 1"	11.9	1.1	48.2	34.0 x 4.15 (25.7)	33.7 x 2.0 (29.7)
	DN32 1 1/4"	12.6	1.7	70.5	42.7 x 4.15 (34.4)	42.4 x 2.0 (38.4)
	DN40 1 1/2"	21.0	2.6	103.2	48.6 x 4.15 (40.3)	48.3 x 2.0 (44.3)
	DN50 2"	27.3	3.2	207.0	60.5 x 4.6 (51.3)	60.3 x 2.6 (55.1)
	DN65 2 1/2"	42.7	7.4	275.0	76.3 x 4.6 (67.1)	76.1 x 2.6 (70.9)
	DN80 3"	59.5	11.2	499.0	88.9 x 4.45 (80.0)	88.9 x 2.6 (83.7)
	DN100 4"	74.9	20.3	877.	116 x 6.45 (103.1)	114.3 x 2.6 (109.1)

*) Torques are listed without safety factor at 20°C. See section for actuator dimensioning in the following pages.

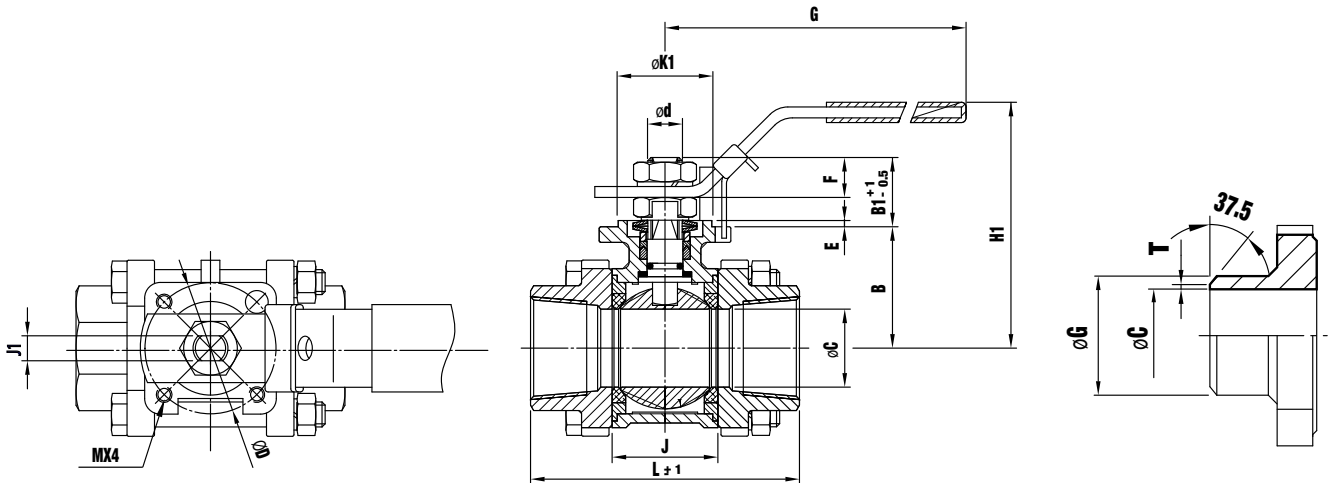
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Dimensions



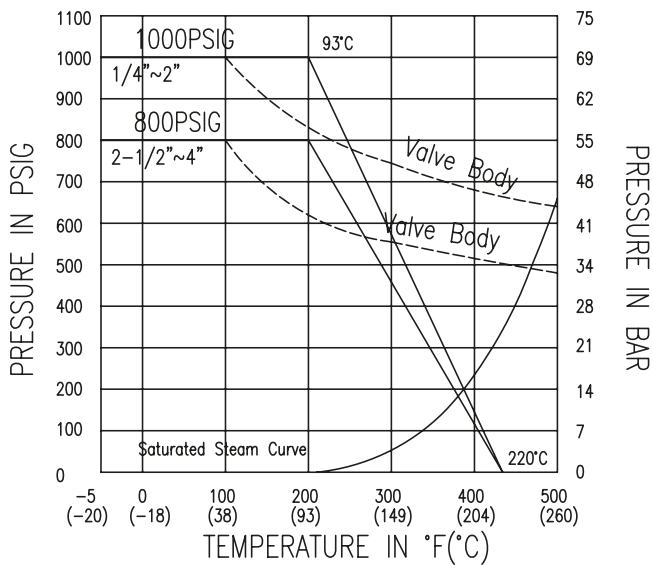
DIM	ØC [mm]	B [mm]	BI [mm]	ØD [mm]	E [mm]	Ød [mm]	F [mm]	G [mm]	H1 [mm]	J [mm]	J1 [mm]	ØK1 [mm]	L [mm]	M	ISO5211	
1/2"	DN15	15	29.1	19.8	36	2.0	9.5	7.4	130	75	23.6	6.5	25	65.7	M5	F03
3/4"	DN20	20	32.6	17.5	36	2.0	9.5	6.4	130	77	28.0	6.5	25	76.2	M5	F03
1"	DN25	25	38.9	20.7	42	2.0	11.0	12.3	160	85	33.9	8.0	30	86.2	M5	F04
1-1/4"	DN32	32	40.4	24.5	42	2.0	11.0	10.9	160	92	42.5	8.0	30	102.8	M5	F04
1-1/2"	DN40	38	46.2	31.0	50	2.0	14.0	13.7	185	102	53.2	9.7	35	119.4	M6	F05
2"	DN50	50	54.7	31.0	50	2.0	14.0	13.7	18	110	64.6	9.7	35	131.4	M6	F05
2-1/2"	DN65	65	71.5	42.6	70	2.5	19.0	23.2	260	150	87.0	12.0	55	164.0	M8	F07
3"	DN80	76	84.5	39.3	102	2.5	19.0	18.7	260	162	99.0	12.0	70	182.7	M10	F10
4"	DN100	100	106.5	52.3	102	3.0	24.0	34.2	260	190	127.0	15.0	70	235.6	M10	F10

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Temperature vs. pressure table for CTFE seats

Valid for fluids and gasses. For steam and similar services contact Mars Valve Europe A/S.



Actuator sizing

Media factor	Multiply by
Clean, particle free, lubricating (oil, hydraulic fluids etc)	1.00
Clean, particle free, non-lubricating (water, alcohol etc)	1.20
Moist gas or saturated steam	1.20
Dry gas or saturated steam	1.40
Gas, dirty unfiltered i.e. Natural gas	1.50
Particle filled, corrosive, solvents and polluted systems	2.00 #

Service factor	Multiply by
Simple on / off maneuvering	1.00
Regulating / Throttling	1.20
Maneuvering once per week	1.20
Maneuvering every second week or critical component	1.50

For actuator dimensioning:

Torque x Media factor x Service factor

Polluted systems will reduce the expected life span of the seat rings