



Direct monut
of actuators

MODU 33

3-way ball valve PN69/55/41

- Stainless steel "CF8M"
- "L" or "T" port
- Industrial 3-way ball valve in very high quality
- Full bore
- Patented stem seal system that ensures long and trouble-free operation
- Glass-reinforced seats with high temperature and wear resistance
- ISO5211 connection for direct actuator assembly
- 5 seats for optimal seal and support of ball
- ISO 14001 certification

Make it better.



MODU[®]

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3-way ball valve PN69/55/41 • SIL3, EU1935/2004, FDA, PED, ATEX, TA-LUFT

Connection

Butt weld end, ISO1127, SMS3008 and threaded connection BSPP.

Usable for

Water, air, steam, oil ect.

Options

Seat material: PTFE, CPTFE, Delrin I.a.
 Material: WCB
 Connection: NPT, socket weld, flange connection
 Flow pattern: 4-way, 5-way configuration

Pressure rating

DN08–DN25: 69bar / 1000psi
 DN32–DN50: 55bar / 800psi
 DN65–DN100: 41bar / 600psi

Temperature

-20° C to 220° C

Accessories

- Closed stem extension, TA-Luft approved stuffing box "TSM"
- Closed stem extension, without stuffing box
- Position indication, handle operated (inductive or mechanic)

Spare parts

- Complete gasket kit
- Seat rings
- Body gasket
- Ball

Developed for your industry



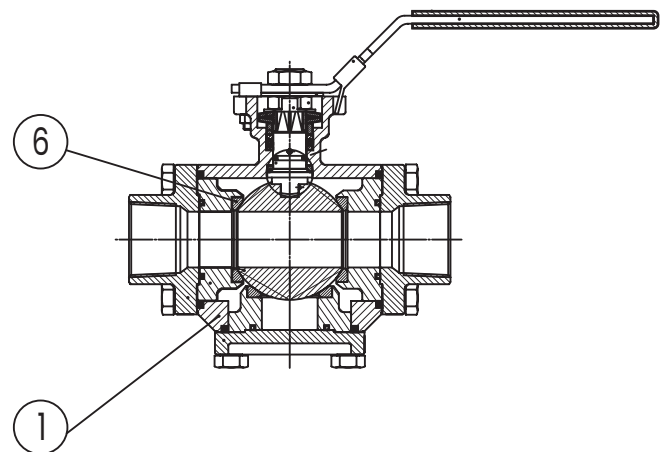
Additional specification can be requested.

Make it better.

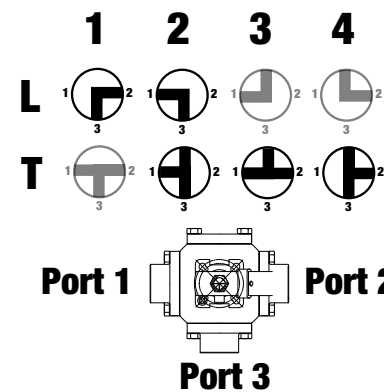
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Parts description, excerpt

Pos	Description	Material
1	Valve body	Stainless steel CF8M
6	Seat ring.....	RPTFE (15%Glass 85%PTFE)



Flow pattern



➤ 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

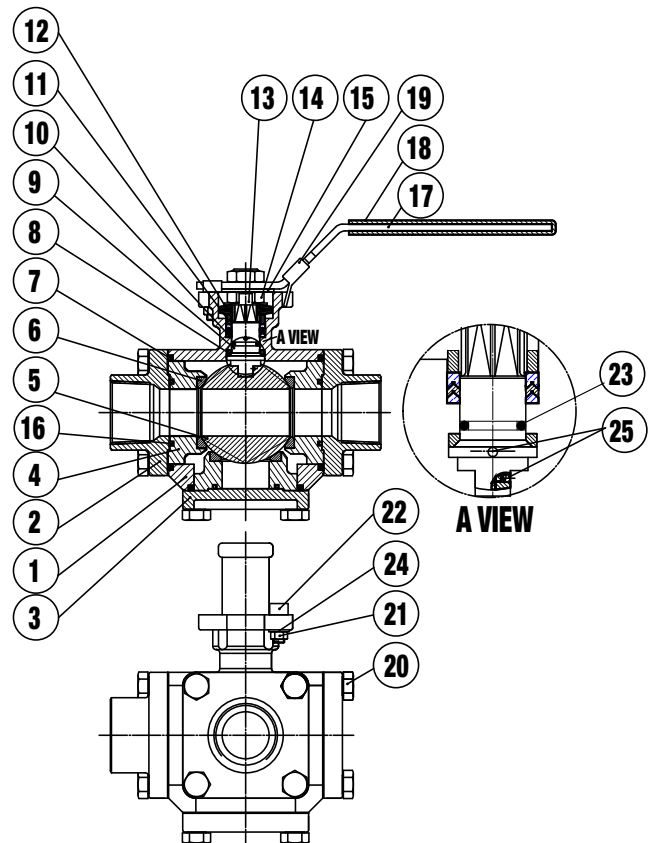
We help Maintenance Crews to work smarter, while preventing time-consuming mistakes.

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Materials

Pos	Description	Material
1	Valve body	Stainless steel CF8M
2	Connection flange	Stainless steel CF3M
3	Dead end flange	Stainless steel CF8M
4	Support ring	PTFE
5	Ball	Stainless steel CF8M/AISI316
6	Seat ring	RPTFE (15%Glass 85%PTFE)
7	Body gasket	PTFE
8	Stem gasket	RPTFE (15%Glass 85%PTFE)
9	Stem	Stainless steel AISI316
10	Stem seal	RPTFE (15%Glass 85%PTFE)
11	Bushing	Stainless steel AISI304
12	Spring washer	Stainless steel AISI301
13	Locking saddle	Stainless steel AISI304
14	Stem nut	Stainless steel AISI304
15	Stem washer	Stainless steel AISI304
16	Gasket support ring	PTFE
17	Handle	Stainless steel AISI304
18	Sleeve	Vinyl
19	Locking plate	Stainless steel AISI304
20	Body bolt	Stainless steel AISI304
21	Nut	Stainless steel AISI304
22	Stop blot	Stainless steel AISI304
23	O-ring	FPM
24	Locking washer	Stainless steel AISI304
25	Antistatic device	Stainless steel AISI316



Welding	DIM Thread	*) Torque [Nm] Without pressure	Weight [Kg]	Kv-value [m3/h] L-port	Kv-value [m3/h] T-port straight	Kv-value [m3/h] T-port angle	Butt weld connections		
							CF8M SMS3008 ØG x T (ØA)	CF8M ISO 1127 ØG x T (ØC)	
	DN08	1/4"	5.6	1.4	3.4	6.0	3.4	NA	13.5 x 1.6 (10.3)
	DN10	3/8"	5.6	1.4	4.3	7.7	3.4	NA	17.2 x 1.6 (14.0)
	DN15	1/2"	5.6	1.4	5.1	8.5	4.3	18.0 x 1.0 (12.7)	21.3 x 1.6 (18.1)
	DN20	3/4"	11.9	2.7	13.6	17.9	11.1	NA	26.9 x 1.6 (23.7)
	DN25	1"	20.3	4.7	26.4	30.6	18.7	25.0 x 1.2 (15,0)	33.7 x 2.0 (29.7)
	DN32	1 1/4"	24.5	5.7	27.2	49.3	21.3	NA	42.4 x 2,0 (38.4)
	DN40	1 1/2"	41.3	10.6	63.8	76.5	46.8	38.0 x 1.2 (32,0)	48.3 x 2.0 (44.3)
	DN50	2"	50.4	13.3	119.0	148.8	85.0	51.0 x 1.2 (38,0)	60.3 x 2.6 (55.1)
	DN65	2 1/2"	64.4	21.8	178.5	199.8	126.7	63.5 x 1.6 (50,0)	76.1 x 2.6 (70.9)
	DN80	3"	138.6	28.1	318.8	382.5	229.5	76.1 x 1.6 (65,0)	88.9 x 2.6 (83.7)
	DN100	4"	175.0	38.2	569.5	680.0	403.8	NA	114.3 x 2.6 (109.1)

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

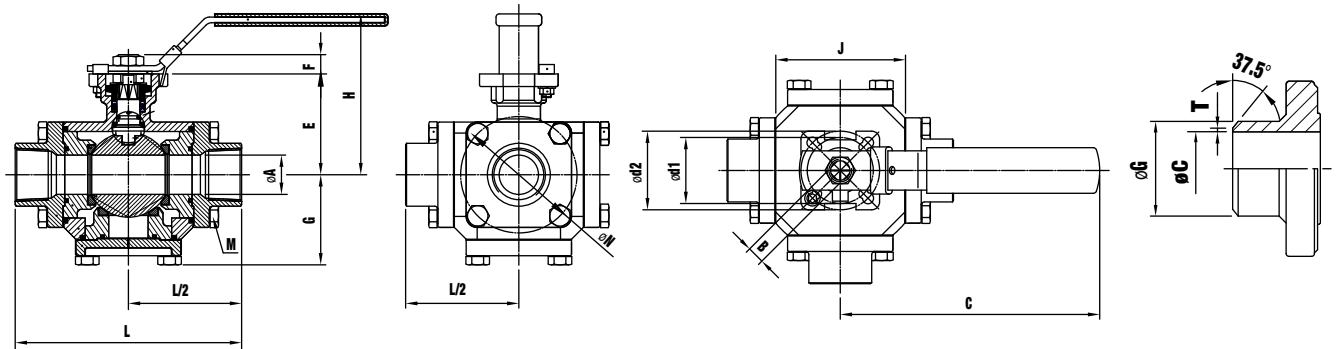
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Dimension



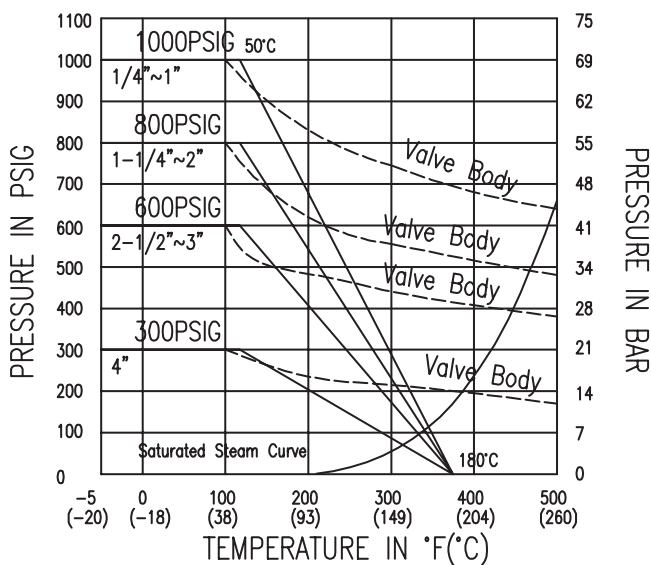
DIM	ØA [mm]	B [mm]	C [mm]	E [mm]	F [mm]	G [mm]	H [mm]	J [mm]	L [mm]	M	ØN [mm]	Ød1 [mm]	Ød2 [mm]	ISO5211	
1/4"	DN08	11.6	9	150	43.9	9.0	35.1	85	50.6	92	M6	45	36	42	F03/F04
3/8"	DN10	12.7	9	150	43.9	9.0	35.1	85	50.6	92	M6	45	36	42	F03/F04
1/2"	DN15	15.0	9	150	43.9	9.0	35.1	85	50.6	92	M6	45	36	42	F03/F04
3/4"	DN20	20.0	11	165	54.2	10.5	45.3	93	67.0	110	M6	59	42	50	F04/F05
1"	DN25	25.0	11	180	64.1	10.5	56.8	108	83.0	144	M8	74	42	50	F04/F05
1-1/4"	DN32	32.0	14	215	78.5	13.0	59.8	127	89.0	146	M8	83	50	70	F05/F07
1-1/2"	DN40	38.0	17	263	94.9	18.0	72.3	152	109.0	164	M10	101	70	102	F07/F10
2"	DN50	50.0	17	313	101.6	18.0	80.5	159	121.0	184	M12	116	70	102	F07/F10
2-1/2"	DN65	65.0	17	344	120.0	18.0	96.8	177	146.0	228	M14	142	70	102	F07/F10
3"	DN80	76.0	22	370	132.9	23.0	105.0	195	158.0	265	M16	160	102	125	F10/F12
4"	DN100	100.0	22	510	164.0	23.0	131.5	226	209.0	317	M20	206	102	125	F10/F12

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Temperature vs. pressure table for RTFE seats

Valid for fluids and gasses. For steam and similar services contact MODU Valves A/S.



Actuator sizing

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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	1.25
Dry gas or superheated 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