



Use in
cooling systems
with expanding
liquids / gases

MODU 83LT

3-pcs ball valve PN100 - Low temperature

- Stainless steel "CF8M"
- High quality industrial 3-pcs ball valve
- Suitable for cooling applications down to -60 °C
- Closed pin bolts for easy cleaning
- Unique patented stem seal system that ensures long and trouble-free operation
- "Groove and tongue" flanges ensuring tightness at large temperature variations.



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MODU[®]

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3-pcs ball valve PN100 • FDA, ATEX, TA-LUFT, SIL3

Connections

Butt weld, ISO1127, SMS3008 and threaded connection BSPP.

Field applications

Suitable for cooling systems, water, air, steam, oil etc.

Options

Body/ends: Duplex, hastelloy, titanium ect.
 Seat: PTFE, Delrin, PEEK ect.
 Connections: NPT, ISO11850, ASME Sch. and more.

Pressure rating

DN08F-DN40RB: 100bar / 1500psi
 DN40F-DN65RB: 100bar / 1500psi

Temperatur

-60°C to 220°C

Accessories

- V-ball (30°, 60°, 90°), for modulating service
- Precision coupling / bracket for modulating service
- Closed stem extension, TA-Luft approved stem seal "TSM"
- Closed stem extension, without stem seal
- Position handle, lockable in position
- Feed back, hand operated (inductive or mechanical)

Spare parts

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

Developed for your industry



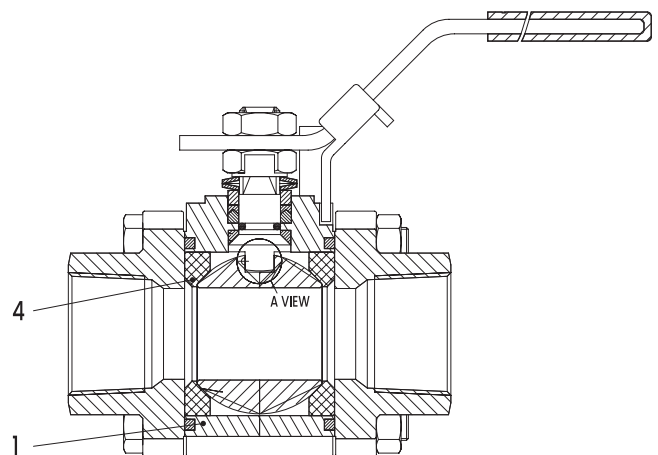
Additional specification can be requested.

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Parts description, excerpt

Pos	Description	Material
1	Body	Stainless Steel CF8M
4	Seat	CTFE



When ordering, please read the size of the ball valve name plate. Ex. MODU 83 DN20F / 25R = DN20 Full bore / DN25 Re

➤ 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

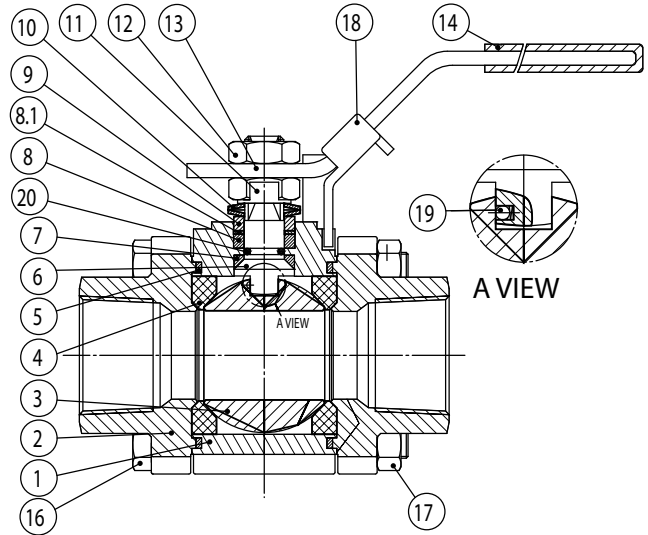
We help Maintenance Crews to work smarter, while preventing time-consuming mistakes.

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Materials

Pos	Description	Material
1	Body	Stainless Steel CF8M
2	Connection	Stainless Steel CF8M
3	Ball	Stainless Steel CF8M/AISI316
4	Seat	CTFE
5	Joint gasket	Graphit
6	Stem	Stainless Steel AISI316
7	Pyramid segment	RTFE
8	Stem seal	Graphit
8.1	Top gasket	RTFE
9	Bushing	Stainless Steel AISI304
10	Belleville washers	Stainless Steel AISI301
11	Lock saddle	Stainless Steel AISI304
12	Nut	Stainless Steel AISI304
13	Handle	Stainless Steel AISI304
14	Sleeve	Vinyl
15	Stop bolt	Stainless Steel AISI304
16	Bolt	Stainless Steel AISI304
17	Nut	Stainless Steel AISI304
18	Locking device	Stainless Steel AISI304
19	Antistatic device	Stainless Steel AISI316
20	O-ring	EPDM



DIM	Weld Thread	*) Torque [Nm]						Weight [kg]		Kv-value [m ³ /t]		Butt weld end [R=Reduce bore] [F=Full bore]		
		FB 10% Max bar	FB 50% Max bar	FB 100% Max bar	RB 10% Max bar	RB 50% Max bar	RB 100% Max bar	FB	RB	FB 90°	RB 90°	CF3M ISO 1127 ØG x T (ØD)	CF3M SMS3008** ØG x T (ØD)	
DN08	1/4"	6.2	6.2	6.9	-	-	-	0.80	-	6.9	-	13.5 x 1.6 (10.3)	F	10.0 x 1.0 (8.0)
DN10	3/8"	6.2	6.2	6.9	6.2	6.2	6.9	0.80	0.66	6.9	6.9	17.2 x 1.6 (14.0)	F	12.0 x 1.0 (10.0)
DN15	1/2"	6.9	6.9	10.0	6.2	6.2	6.9	0.82	0.66	12.7	6.9	21.3 x 1.6 (18.1)	R/F	18.0 x 1.0 (10.0)
DN20	3/4"	9.2	9.2	13.8	6.9	6.9	10	1.28	0.87	29.2	12.7	26.9 x 1.6 (23.7)	R/F	25.0 x 1.2 (15.0)
DN25	1"	12.3	12.3	18.5	9.2	9.2	13.8	2.07	1.36	48.2	29.2	33.7 x 2.0 (29.7)	R/F	25.0 x 1.2 (20.0)
DN32	1 1/4"	20.0	20.0	33.8	12.3	12.3	18.5	2.65	2.01	73.1	48.2	42.4 x 2.0 (38.4)	R/F	32.0 x 1.2 (20.0)
DN40	1 1/2"	26.2	26.2	46.9	20.0	20.0	33.8	3.79	2.69	107.5	73.1	48.3 x 2.0 (44.3)	R/F	38.0 x 1.2 (32.0)
DN50	2"	26.9	32.3	59.2	26.2	26.2	46.9	5.51	4.04	215.0	107.5	60.3 x 2.6 (55.1)	R/F	51.0 x 1.2 (38.0)
DN65	2 1/2"	-	-	-	26.2	32.3	59.2	-	6.78	-	215.0	76.1 x 2.6 (70.9)	R/F	63.5 x 1.6 (50.0)

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

**) For SMS butt weld ends please refer to the bore ØD when obtaining the Kv-value (i.e. Ø25x1,2mm (15) = DN15F/20R)

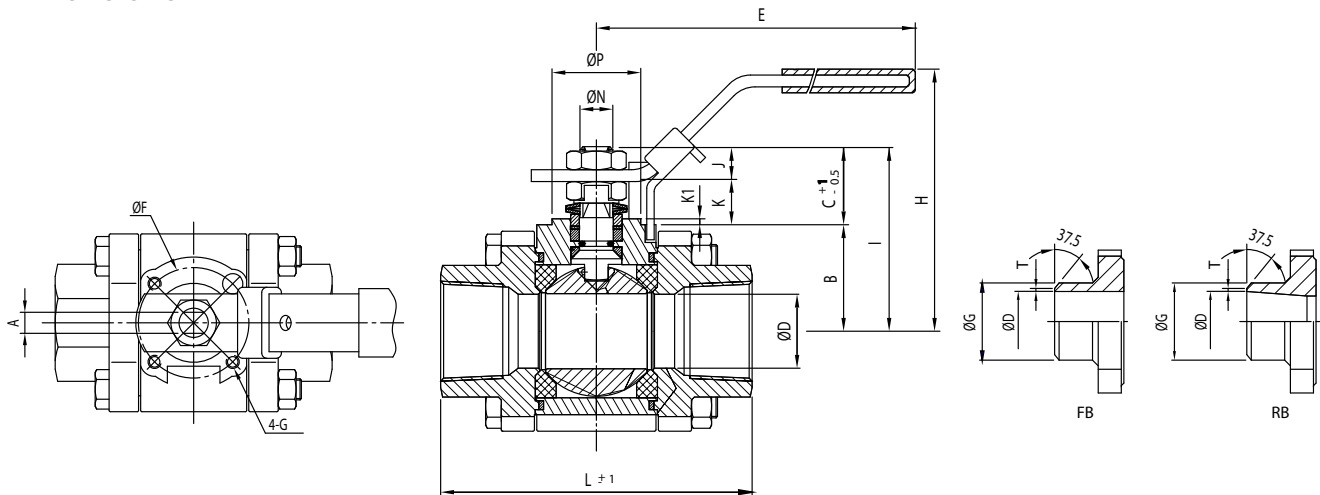
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Dimensions



DIM	DN		A		B		C		E		ØF		G		H		I	
	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R
1/4"	10	-	6.5	-	29.8	-	7.4	-	134	-	36	-	M5	-	64.3	-	37.2	-
3/8"	10	-	6.5	-	29.8	-	7.4	-	134	-	36	-	M5	-	64.3	-	37.2	-
1/2"	15	10	6.5	6.5	29	29.8	16.1	7.4	134	134	36	36	M5	M5	71.5	64.3	45.1	37.2
3/4"	20	15	6.5	6.5	33	29	18.1	16.1	134	134	36	36	M5	M5	76	71.5	51.1	45.1
1"	25	20	8	6.5	36	33	24.6	18.1	170	134	42	36	M5	M5	82.3	76	60.6	51.1
1-1/4"	32	25	8	8	40	36	24.3	24.6	170	170	42	42	M5	M5	87.3	82.3	64.3	60.6
1-1/2"	38	32	9.7	8	47.3	40	30.2	24.3	207	170	50	42	M6	M5	103.6	87.3	77.5	64.3
2"	50	38	9.7	9.7	69.5	47.3	26	30.2	207	207	50	50	M6	M6	121.6	103.6	95.5	77.5
2-1/2"	-	50	-	9.7	-	69.5	-	26	-	207	-	50	-	M6	-	121.6	-	95.5

DIM	J		K		K1		L		L2		ØP		ØN		ISO5211	
	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R
1/4"	6.1	-	1.3	-	0.5	-	64.8	-	20.5	-	25	-	9.5	-	F03	-
3/8"	6.1	-	1.3	-	0.5	-	64.8	-	20.5	-	25	-	9.5	-	F03	-
1/2"	7.3	6.1	8.8	1.3	2	0.5	72.5	64.8	24.5	20.5	25	25	9.5	9.5	F03	F03
3/4"	8.8	7.3	9.3	8.8	2	2	85.4	72.5	31.4	24.5	25	25	9.5	9.5	F03	F03
1"	11	8.8	13.6	9.3	2	2	105.3	85.4	41.3	31.4	30	25	11.1	9.5	F04	F03
1-1/4"	9.7	11	14.6	13.6	2	2	111	105.3	48.4	41.3	30	30	11.1	11.1	F04	F04
1-1/2"	12.2	9.7	18	14.6	2.2	2	127.3	111	56.3	48.4	35	30	14.3	11.1	F05	F04
2"	12.6	12.2	13.4	18	1.5	2.2	142.8	127.3	71.4	56.3	35	35	14.3	14.3	F05	F05
2-1/2"	-	12.6	-	13.4	-	1.5	-	145	-	71.4	-	35	-	14.3	-	F05

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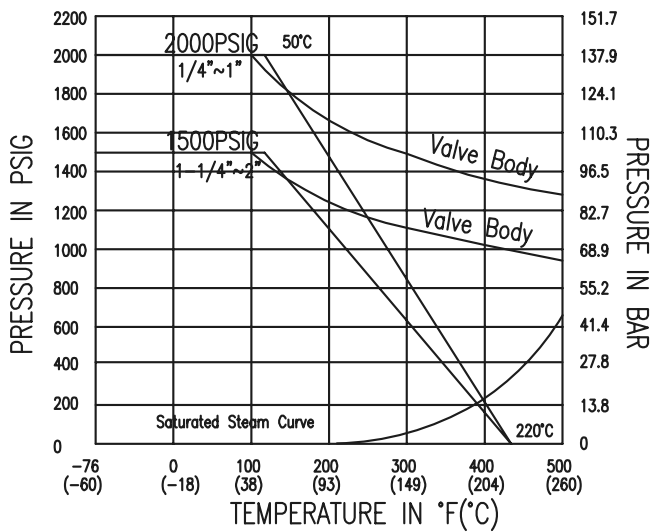
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Temperature vs. pressure table for CTFE seat ring

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

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