

LIV MONOBLOCK PROCESS TO INSTRUMENT BALL VALVES

SERIES MBT

Flanged inlet and threaded outlet

Principle

LIV Monoblock process to instrument ball valve is furnished in 3 different configurations: single block & bleed, double block & bleed, and double block. The LIV Monoblock ball valve has 1 or 2 ball valves for isolation and 0 or 1 needle valve for bleed. The LIV Monoblock ball valve solutions offer cost, weight, and space saving with isolation and venting valves incorporated into the process interface with simplified installation

Construction

- The valve body is machined from a round bar stock material.
- The valve body is machined from a round bar stock material or from forged material standard.
- The raw material of the valve can be supplied according to NORSOK M 630 or to customer's specific requirements.
- The valve spindle is anti-blow out design with PTFE back seat gaskets.
- The Monoblock valves have a ball or balls with 10 mm bore.
- The balls are polished for low friction. The ball valves have PEEK seats.
- The process connection is flanged, and outlet is ½" NPT int. (standard).
- The handle has a plastic sleeve for protection.
- The dust covers are coloured for application indication (vent)
- The valves are designed for PED 2014/68/EU.

Technical Data

Size	1/2 - 2"
Pressure rating	150 lbs - 2500 lbs
Flange facing	RF or RTJ to ANSI B 16.5
Material	AISI 316 (standard), A350LF2, 22Cr Duplex, 25Cr Duplex, 6Mo, Titanium, others on request.
Packing	PTFE, Graphite, PEEK
Temperature	÷40 to +260 °C
Operation	Handle, T-bar or Anti tamper.
Coating	Standard offshore, to customer's spec., or none

Testing and Documentation

- Material certificate to EN 10204-3.1
- Certificate of compliance to NACE MR 01-75 or EN 15156
- Optional: cleaned for oxygen and hydrogen
- PMI test
- Pressure test certificate.
- Fire safe tested acc. to EN 10497-2010
- Penetrant test on valve body to ASME BPV, ISO 3452-1 2021
- Fugitive emission to ISO 15848-1 2017

Accessories

- ¼" NPT plugs (for valves with bleed connection)
- Locking device for valve operation (only valves with handwheel)



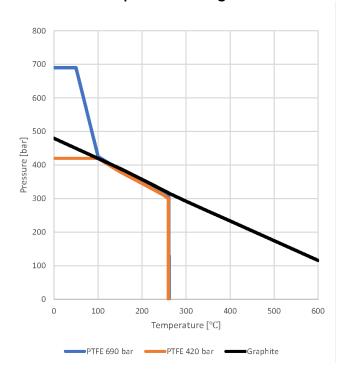






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Pressure and Temperature Rating



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HOW TO ORDER

Choose a code for each of the configuration steps. For special orders, please reach out to our sales team.

1 VALVE TYPE		2	2 VALVE SIZE			3 PRESSURE RATING				4 FLA	4 FLANGE FACING	
MBT12	Block and bleed (10 mm holes)		3	1/2"	C)1		150 lbs		F	Raised face	
MBT13	Double Block and blee (10 mm holes)	d .	4	3/4"	C)3		300 lbs		Т	Ring type joint	
MBT14	Double block		5	1" 06 600 lbs								
MBT22	(10 mm holes) Block and bleed		6 1½"		1	5		1500 lbs				
MBT23	(20 mm holes) Double block and blee	4	7	2"		25		2500 lbs				
	(20 mm holes) Double block		/	2	2	25		2500 IDS				
MBT24	(20 mm holes)											
5 MATERIAL												
	Body material		Trim material									
01	A350 LF2		AI:	SI 316								
02	A479 316 AISI 316											
04	A479 316 22Cr duplex 22Cr. Duplex											
06	A479 316 25Cr duplex 25Cr. Duplex											
08	A477 6Mo 6Mo											
10	Titanium Titanium											
11	Monel 400 Monel 400											
12	Hastelloy C-276 Hastelloy C-276											
13	Inconel 625 Inconel 625											
14	Inconel 825			conel 825								
-	NET TYPES		1110	201101 020								
1	OS&Y 2		Needle		3	Anti-tamper 4		4	Anti-tamper lockable			
7 BONN	NET COMBINATIONS											
	MBT12/MBT22		MBT13/MBT23			MBT14/MBT24						
	Primary Secondary	Vent	Primary	Secondary	Vent	Prim	Primary Secondary V		Vent			
01	1 2	-	1	1	2	1		1	-			
02	1 3	-	1	1	3	-		-	-			
03	1 4	-	1	1	4	-		-	-			
8 SEALS	5		9 BLEED CONNECTION			10 CONNECTION OUTLET						
Т	PTFE Solid		14 1/4" NPT Int.			1 ½" NPT Int.						
G			12 ½" NPT Int.			2		³¾" NPT Int.				
	•		13			3		½" BSPT Int.				
			00	None		2	1	¾" BSPT Int.				
						L						

Example: Type MBT13501.03F02T12.1

In line with ball valves double block & bleed, 10 mm balls, valve size 1", Lever, Lever, T-bar, 300 lbs rating with RF facing, body in 316, needle packing in PTFE, 1/2" NPT int. bleed connection, 1/2" NPT int. outlet.

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