

LIV DBB Sampling Ball Valve

Type SB13

Principle

The LIV DBB sampling ball valve extracts a sample of the process at full operating pressure and temperature. The LIV DBB sampling ball valve has 2 ball valves for isolation and 1 needle valve for bleed and a sampling probe. The size of the probe is ½" sch. 80. The length is determined by the customer, however it is recommended that the probe is inserted 1/3 of inner pipe diameter into the pipe.

Wake frequency calculations according to the latest standards can be performed. If necessary, probe support or probe profiling can be supplied to overcome high frequencies. The LIV DBB sampling ball valve solutions offers cost, weight, and space saving.

Construction

- 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 sampling valve has a ball with 10 mm bore.
- The balls are polished for low friction. The ball valves have PEEK seats.
- The process connection is flanged, and sample outlet is ½" NPT int. with probe.
- 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

Flange size	1 - 2"			
Pressure rating	150 lbs - 2500 lbs			
Outlet connection	½" NPT int.			
Material	AISI 316 (standard), A350LF2, 22Cr Duplex, 25Cr Duplex, 6Mo, Titanium, other materials on request.			
Packing & Seats	PTFE, PEEK.			
Temperature	÷ 40 to +260 °C			
Operation	Handle, T-bar, or Anti tamper.			
Coating	Standard offshore, to customer's spec., or none			



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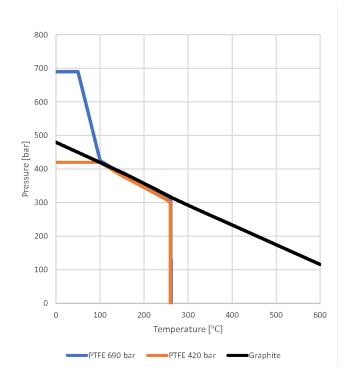
Testing and Documentation

- 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, API 607, BS 6755 part 2, ISO 5208
- Penetrant test on valve body to ASME BPV, ISO 3452-1 2021
- Fugitive emission to ISO 15848-1

Accessories

- Plugs for the bleed connection
- Lockable handles

Pressure and Temperature Rating



HOW TO ORDER

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

1 VALVE SIZE		2 VENT BONNET SELECTION		3 PRESSURE RATING (FLANGE)							
5	1"	2	Needle (SN)		01		150 lbs				
6	1 ½"	3	Anti	-tamper (AN)	03		300 lbs				
7	2"	4		edle, bolted	06		600 lbs				
		5	Anti-tamper		15		1500 lbs				
					25		2500 lbs				
4 MATERIAL											
	Body material		Trim material								
01	A350 LF2		AISI 316								
02	A182 316		AISI 316								
04	A182 22Cr. Duplex	x 22Cr. Duplex									
06	A182 25Cr. Duplex	25Cr. Duplex									
08	A182 6Mo		6Mo								
10	Titanium		Titanium								
11	Monel 400		Monel 400								
12	Hastelloy C-279		Hastelloy C-279								
13	Inconel 625		Inconel 625								
14	Inconel 825		Inconel 825								
5 FLANGE FACING			6 SEALS			7 BLEED CONNECTION		8 SAMPLE PROBE			
F	Raised face		Т	PTFE		14	1/4" NPT int.	1	½" sch. 80		
Т	Ring type joint		G	Graphite	.	12	½" NPT int.				
						13	½" BSPP int.				

Example: Type SB13-52.0302FT12.1-XXX

DBB sampling ball valve double block & bleed, valve size 1", Needle (SN T-bar), 300 lbs rating with RF facing, body in 316, needle packing in PTFE, 1/2" NPT int. bleed connection, 1/2" NPT sample probe, probe length in mm.

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