



**Offshore Design Section
Engineering Services
ISO – 9001:2008**

**DATA SHEET FOR
SUBSEA BALL VALVES
(SOUR SERVICE)
DS-BV-PRP-VII-RTR**

Spec. No.	2025 B-DS-BV-PRP-VII-RTR
Rev. No.	0
Discipline	Pipeline
Page: 1 OF 2	

1. Valve Manufacturer :
2. Valve Design & Manufacturing standard: API 6DSS read with 2025B Revision 2
3. Valve Size, inch : 4" & 2".
4. Spec. No. : 2025B
5. Service : Well Fluid (Sour Service)/ Gas Lift (Sour Service)
6. Installation Water Depth : 100 m
7. a) Bore : As per sl. No. 10 below
b) Type of Ends : Flanged RTJ
7. Operator Details : Hydraulic Actuator for sizes 4" and above
8. Valve Material Specification (or equivalent/superior)

Body : ASTM A216 Gr WCB/ A105/A516
Ball : SS316L/DSS
Body Seat Rings : SS316L/DSS
Secondary Seat Seal : PTFE
Stem : ASTM A182 F316L/ DSS
Stem seal : PTFE
Studs /Nuts : ASTM A193Gr B7 M/ A194 Gr 2HM (Xylan Coated)
9. Design life : 25 years
10. Valve Location : 4 No. 4" subsea ball valves in 4" branch pipeline for 2 Laterals on 8"dia. GL, B-22A to B147A Pipeline
: 4 No. 4" subsea ball valves in 4" branch pipeline for 2 Laterals on 8" dia. GL, B193A-P to B172-A Pipeline
: 8 No. 2" ball valves at four Laterals.

10. Quantities

Sl. No.	Size	Type	Rating	Quantity
1.	4"	RB	1500#	8 Nos.
2.	2"	RB	1500#	8 Nos.

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Page: 2 OF 2

11. Pipeline design conditions

- | | |
|------------------------|---------------------------------|
| a) Design Pressure | : Refer Process design criteria |
| b) Design Temperature | : Refer Process design criteria |
| c) Corrosion allowance | : 6mm |
| d) Design Factor | : 0.5 |
| e) Location | : Subsea |

Notes:

1. This valve data sheet shall be read in conjunction with specification no. 2025B Rev-2.
2. All valve material shall comply with the requirements of NACE standard MR-01-75.
3. All castings shall go 100% radiographic examination as per ANSI B 16.34.
4. Valve operation of 4" and above size shall be done by mobile HPU kept on a boat with the help of the diver by LSTK contractor. Providing of HPU and umbilical is not in the scope of this tender.
5. Contractor shall be responsible to make the valves functional, subsequent to installation of these assemblies and shall demonstrate the same to the Company Representative by suitably opening and closing the valves. For actuated valves, the opening and closing of 3 cycles of valves after offshore installation at subsea shall be demonstrated by use of portable nitrogen cylinders by divers. The demonstration shall be video recorded and submitted to the Company Representative.
6. For valves operated through umbilicals, Contractor shall demonstrate the valve function by operating the Hydraulic Power Unit (HPU).

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