

Annexure-II

DATA SHEET FOR BALL VALVES

MR Item no. : A.7

- 1.0 Valve Manufacturer :
- 2.0 Valve Size (NB) (inch): 300 (12") ANSI RATING : 600# Design Standard : **API 6D**
- 3.0 MECON's Technical Specification No.: **MEC/TS/05/21/002, Rev-1, Ed-1**
- 4.0 Design Pressure : **92 kg/cm2 (g)** Design Temperature, °C : **-29°C to + 65°C**
- 5.0 Connecting Pipe Specification: **N.A.**
- 5.1 Material
- 5.2 Diameter (OD)
- 5.3 Thickness
- 6.0 **Valve Construction Design**
- 6.1 Configuration : Reduced Bore Full Bore
- 6.2 End Connections : Flanged as per ASME B16.5 Butt Welded as per ASME B16.25
- 6.3 Flanges (wherever applicable) : a) RF RT NA
 b) Serrated Smooth (125 to 200 microinches AARH) NA
- 6.4 Ball Mounting : Trunnion mounted
- 6.5 Valve body type : Fully Welded Two/Three Piece Bolted Either
- 6.6 500 mm pup piece (integrally welded to the valve on each side) : Yes No
 (Material, Outer Diameter and Thickness of pup piece to be same as that of the connecting pipe mentioned above)

7.0 Valve Material Specification

Part	Specified Material	Material Offered (Equivalent or
7.1 Body	A 216 Gr. WCB/ A 105	
7.2 Ball	(A 216 Gr.WCB/ A 105)+75 µENP coating/AISI410	
7.3 Body Seat Rings	AISI 4140 + 75 micron ENP coating/AISI 410	
7.4 Seat Seal	VITON/DEVLON	
7.5 Stem (No casting)	AISI 4140 + 75 micron ENP coating/AISI 410	
7.6 Stem Seals	VITON/PTFE	
7.7 Trunnion	A 216 Gr. WCB/ A 105	
7.8 Stud Bolts/ Nuts	ASTM A 193 Gr. B7/ A194 Gr. 2H	

- 8.0 Corrosion Allowance : **1.5 mm** Service : **Natural Gas**
- 9.0 Location : Above Ground Buried
- 10.0 Stem Extension Requirement : Yes No
- 11.0 Gear Operator Requirement : Yes No
- 12.0 Actuator Requirement : Yes No
- 13.0 Fire Resistant Design Requirement : **Type test as per API 6 FA/607**

14.0 Valve Testing Requirement

		Test Pressure (min.),	Minimum Duration
		kg/cm ² (g)	(minutes)
14.1 Hydrostatic Test	Body	157	As per API 6D
	Seat	114	As per API 6D
14.2 Air Test		5.6 - 7	As per API 6D


15.0 Anti-Static Testing Requirement : **As per Standard API 6D (Latest Ed.)**

16.0 Valve Painting Specification

- 16.1 Surface preparation by Short Blasting as per grade SA 2 1/2, Swedish Standard SIS-055 909.
- 16.2 For above ground installation-Three coats of corrosion resistant paint shall be applied with minimum thickness of 300 micron (Permissible thickness in each coat shall be within 80 to 120 micron). Colour of paint shade shall be RAL-7038, however any change in colour shall be finalized during drawing approval stage.
- 17.0 Lock Open Requirement : **N.A.**

Notes:

- This Valve Data Sheet shall be read in conjunction with MECON's Technical Specification No. MEC/TS/05/21/002,Rev 1 ,Ed. 1
- Minimum thickness of valve body / adapter shall not be less than that specified in ASME B16.34 plus corrosion allowance specified in this datasheet .
- Inspection and Testing shall be as per attached QAP, this Data Sheet, MECON's T.S., API 6D and other relevant standards.
- Stops shall be provided for positive alignment of ball with ports and ensure proper installation of handle.
- Short pattern valves (as per API 6D or otherwise) are not permitted. Only long pattern valves are to be supplied.
- Charpy V-notch & Hardness test for body, body adaptor, end flanges, ball, body seat rings, stem & studs / nuts shall be conducted as per Cl. 3.4 & 3.6 of TS respectively or as per relevant material code.
- Compressed asbestos fibre (CAF) shall not be used for body sealing / gasket materials.
- For welding end, the out of roundness (i.e. difference between maximum and minimum ID at pipe end) shall not be more than 0.5% of pipe OD.
- Valves shall be inspected and approved by Purchaser before despatch.
- Support foot & lifting lugs shall be provided as per Cl. 4.16 of the TS for Ball Valves.
- Bidder shall clearly write valves material (equivalent or superior) offered by them against each part/material of valve in the space provided for. Wherever bidder agrees with valves material as mentioned above in MECON's data sheet, bidder shall clearly indicate "AGREED".

REV. NO.	DATE	ZONE	DESCRIPTIONS	BY	APPRD	REFERENCES	DRG. NO.
REVISIONS							
SECTION PROCESS & PIPING							
	PREPARED	CHECKED	APPROVED			 <p align="center">MECON LIMITED</p>	
NAME	SK	HK	I Sen				
DATE	28-Oct-20	28-Oct-20	28-Oct-20				
SIGN							
DATA SHEET FOR BALL VALVES						SCALE :	REV
(NB ≥ 2")						DATA SHEET NO.: MEC/23UU/05/21/M/001/DS/BV/08	0

