

Client : Engineers India Ltd.	Dept./Sect. : 16/43
Project : Std. Specification	
Location : New Delhi	Tag No: 56321 Sheet No. 1 of 2

BUTTERFLY VALVE SPECIFICATION			MANUF'S OFFER	
TAG NO. : 56321		PIPING CLASS : A3A	STANDARD:	
RATING : 150		STANDARD : BS-5155	MFGRS CAT/FIG:	
SIZE RANGE : 3.0" TO 24.0"		ENDS : WAFL TO B-16.5 WAF/125AARH	RATING: ENDS:	
DESCRIPTION	CONSTRUCTION	MATERIAL	CONSTRUCTION	MATERIAL
BODY	CAST	ASTM A 216 GR.WCB		
DISC	CAST(NOTE-17)	ASTM A 216 GR.WCB		
SHAFT	ANTI STATIC.	17-4PH/13%CR ST/SS316 (NO CASTING).		
DISK SEAL/LINER	REPLACEABLE	NITRILE RUBBER/EPDM		
SHAFT BUSHING		LEADED TIN-BRONZE/ PTFE LINED CS/EPDM		
BODY SCREWS/PIN		SS 316		
BODY SEATS		13% CR STEEL/ SS316		
SHAFT SEAL		NITRILE RUBBER/ BUNA N/ EPDM/ VITON		
CLAMPING RINGS(IF REQD.)		ASTM A 515 GR.70/13% CR.STEEL/SS316		
REQUIREMENT OF GEAR OPERATOR		REFER TECHNICAL NOTES FOR PURCHASE OF VALVES.		
SPECIAL SERVICE CONDITIONS		COOLING WATER; MAX TEMP 65 DEG.C. MAX. PRESS. 10.2 KG/CM2G.		
THRUST BEARING		SS316/PTFE		
HYDROSTATIC TEST PRESSURE	BODY : 220 PSIG	SEAT : 160 PSIG		
TEST PRESSURE WITH AIR	80 PSIG			

NOTES

- THIS VALVE SPEC SHEET SHALL BE READ IN CONJUNCTION WITH TECHNICAL NOTES FOR VALVES.
- BIDDER SHALL CLEARLY WRITE ALL/ ANY DEVIATION AGAINST EACH PART/ MATERIAL OF VALVE IN THE SPACE PROVIDED FOR. WHEREVER BIDDER AGREES WITH EIL'S SPEC BIDDER SHALL INDICATE "AGREED".
- NO CUTTING/ OVERWRITING BY BIDDER ON EIL'S SPEC IS ALLOWED.
- VALVE CAN ALSO BE SUPPLIED ALSO BE SUPPLIED AS PER API 609, CATEGORY-A.
- VALVE TESTING SHALL BE AS PER BS 5155/BS 6755(PART-I)/API 598.
- VALVES SHALL BE TIGHT SHUT-OFF TYPE AND BIDIRECTIONAL.
- VALVE SHALL BE LUGGED WAFER TYPE(WAFL) AND VALVE ENDS TO SUIT B16.5 RF/125AARH.
- FACE-TO-FACE DIMENSIONS SHALL BE AS PER WAFER SHORT/WAFER MEDIUM FOR BS-5155 VALVES AND AS PER CATEGORY-A VALVES FOR API 609 VALVES.
- VALVE SHALL BE SUITABLE FOR BOTH "ON-OFF" AS WELL AS "THROTTLING" APPLICATIONS UNDER MAXIMUM DIFFERENTIAL PRESSURE OF 10.2 KG/CM2G
- DISC STRENGTH TEST SHALL BE CONDUCTED AS PER CODE.
- GASKET USED, IF ANY, SHALL BE TO IS 2712 GR.W/3
- BOLTINGS FOR TAPPED HOLES IN BODY, IF ANY, SHALL BE SUPPLIED BY VENDOR IN MATERIAL ASTM A 193 GR.B7/A 194 GR.2H
- VALVES SHALL BE PROVIDED WITH POSITION INDICATOR AND LOCKING DEVICE AT ANY POSITION.
- CROSS-SECTIONAL DETAIL OF BODY SEAT/SEAL ARRANGEMENT SHALL BE SUBMITTED ALONG WITH THE OFFER.
- VENDOR SHALL SUBMIT VALVE DRAWING FOR APPROVAL.

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NOTES

- 16 VALVE AS WHOLE AND LINER/DISK SEAL IN PARTICULAR SHALL BE CERTIFIED SUITABLE FOR THE SERVICE AND SERVICE CONDITIONS SPECIFIED IN THE DATA SHEET FOR BUTTERFLY VALVES.
- 17 FOR LINER MATERIAL OF NITRILE RUBBER/EPDM, DISK MATERIAL SHALL BE SS316/13%CR.STEEL/ASTM A216 GR.WCB(WITH SS316 EDGE)
- 18 DISK SEALS SHALL BE PROVIDED FOR VALVES WITH METALLIC SEATS ONLY.
- 19 SPARK TESTING SHALL BE CARRIED OUT FOR LINER AS PER IS 4682 PART-I/BS 6374 PART-5.
- 20 BODY AND DISK MATERIAL IN DUCTILE IRON AS PER ASTM A 563 GR.65-45-12/60-40-18 OR DIN GGG40 ARE ALSO ACCEPTABLE.
- 21 RADIOGRAPHY OF VALVE CASTINGS NOT REQUIRED.
- 22 PN10 RATED VALVES AS PER BS EN 593 ARE ALSO ACCEPTABLE.

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