

BUTTERFLY VALVE
MODEL - 44 & 44L
TECHINICAL SPECIFICATION

REF.NO.	BFTS0005	04 REV.NO.
DATE	09 APR 2004	
SHEET	01	OF 03



SECTION - A

1. PRODUCT : BUTTERFLY VALVE, MODEL-44/44L
2. ENDS : WAFER (MODEL - 44)
LUGGED (MODEL - 44L)
3. PRESSURE RATING : PN10
4. VACUUM : UPTO 2 TORR
5. STANDARDS
a) DESIGN : EN593
b) FACE-TO-FACE DIMENSIONS : EN558 SERIES 20 - WAFER TYPE (BS 5155 WAFER SHORT)
: API : 609 LOW PRESSURE (CATEGORY 'A')
: ISO 5752
c) TESTING : BS 6755 (PART-1)
6. FLOW DIRECTION : BI-DIRECTIONAL

7.APPLICATIONS:

FOR HANDLING OF LIQUIDS, VAPOUR, GASES, STEM & FLUIDS IN THERMAL
POWER PLANTS AND OTHER PROCESS INDUSTRIES.

SECTION - B

1. VALVE SIZES : 200, 250, 300, 350, 400, 450, 500 & 600.

2. TYPES OF END CONNECTIONS:

- a) WAFER (MODEL - 44)
b) LUGGED (MODEL - 44L)

3. TYPES OF END DETAILS:

VALVES ARE SUITABLE TO SANDWICH BETWEEN FOLLOWING FLANGES (RF OR FF)

- ASME B 16.5 CLASS-150
ASME B 16.1 CLASS-125
EN 1092 PN-10
IS : 6392 TABLE-11
BS : 10 TABLE - 'D' & 'E'

4. VALVE OPERATIONS:

- a) WORM GEAR - WITH HANDWHEEL (BDK'S STANDARD UNLESS OTHERWISE SPECIFIED.)
b) WORM GEAR - WITH CHAIN WHEEL
c) ELECTRICAL ACTUATOR
d) PNEUMATIC ACTUATOR
e) HAND LEVER - (FOR SIZES DN200 TO DN300 ONLY)

PREPARED BY :

APPROVED BY :

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5. BODY MATERIAL:

<u>MATERIALS</u>	<u>SPECIFICATION</u>
CI	IS : 210 Gr. FG220
DI	ASTM A395 / A536 Gr. 60-40-18
SGI	IS : 1865 Gr. 500/7
WCB	ASTM A 216 Gr. WCB
CF8	ASTM A 351 Gr. CF8
CF8M	ASTM A 351 Gr. CF8M

ALL CI, DI, SGI & WCB BODIES ARE DULY P.U COATED/STOVINGENAMEL COATED/POWDER COATED.

6. DISC MATERIAL:

<u>MATERIALS</u>	<u>SPECIFICATION</u>
DI	ASTM A395 / A536 Gr. 60-40-18
SGI	IS : 1865 Gr. 500/7
CA15	ASTM A 217 Gr. CA15
CF8	ASTM A 351 Gr. CF8
CF8M	ASTM A 351 Gr. CF8M

FOR RUBBER LINED DISC'S, DI, SGI & WCB DISC INSERTS ARE USED.
 ALL DI & SGI UNLINED DISCS ARE DULY P.U. COATED / STOVING ENAMEL COATED / POWDER COATED.

7. ELASTOMER / SEAT & LINING MATERIALS:

SEAT	LINING-MATERIALS
NATURAL	EBONITE
NEOPRENE	NEOPRENE
NITRILE	NITRILE
EPDM	EPDM
HYPALON	HYPALON
BUTYL	BUTYL
VITON	VITON
SILICON	

8. STEM MATERIALS:

<u>MATERIALS</u>	<u>SPECIFICATION</u>
410	ASTM A276 TYPE 410
304	ASTM A276 TYPE 304
316	ASTM A276 TYPE 316

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9. STEM BEARING MATERIAL:

DELFIN (APPLICABLE FOR SIZES DN350 TO 600 ONLY)

10. O-RING MATERIALS:

- a) NITRILE (BDK'S STANDARD UNLESS OTHERWISE SPECIFIED)
- b) NEOPRENE
- c) VITON

11. FASTENERS:

- a) IS: 1367 Gr. 8.8/Gr. 8 (BDK'S STANDARD UNLESS OTHERWISE SPECIFIED.)
- b) ASTM A193 Gr. B7/ASTM A194 Gr. 2H

12. OPTIONAL FEATURES:

- a) STEM EXTENSIONS
- b) PADLOCK ARRANGEMENT
- c) LIMIT SWITCH ARRANGEMENT TO INDICATE EITHER "OPEN" OR "CLOSE" OR BOTH DIRECTIONS.

NOTES:

- 01. FOR OTHER COMPONENTS & ITS MATERIAL, REF RESPECTIVE SALES DRG. OR CUSTOMER'S REQUIREMENT.
- 02. WHEREVER MATERIAL OPTION ARE GIVEN IN SALES DRG. S.C. DEPARTMENT SHALL INDICATE THROUGH SALES DRG. TO PPC.
FOR ANY OTHER CLARIFICATION AND SPL. REQUIREMENT CONSULT DESIGN & DEVELOPMENT DEPT.

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APPROVED BY :