

JMH MONO-FLANGED BUTTERFLY VALVE DN 40 TO DN 300 mm

APSAD APPROVED

TYPICAL SPECIFICATION

A. GENERAL SPECIFICATION

- A.1 Butterfly valves shall be rubber lined type, with an elastomeric seat covering the whole internal body surface and extending over the body faces to act as flange gaskets. The elastomeric seat design shall ensure bi-directional bubble tight shut off (zero leakage) and full tightness against flange surfaces.
- A.2 Butterfly valves shall be Mono-Flanged type which provides dead end service (end of line service) at maximum working pressure.
- A.3 Butterfly valves shall comply with the applicable ISO standards:
- Face to face dimension in accordance with ISO 5752 series 20.
 - Flange drilling in accordance with **ISO 2084 PN 10,16***
 - Valves shall be APSAD approved (and listed) for **PN10,16***
- A.4 Valves working pressure shall be in full compliance with **ISO PN10, 16*** (Bars).
- A.5 Every single valve shall undergo hydraulic tests as per ISO 5208 standard, test certificates shall be submitted for approval.
- A.6 Manufacturer shall be ISO 9001 approved on its quality system.
- A.7 Manufacturers shall have of minimum 10 years of experience in the field. Relative Job References shall be submitted for approval.

B. VALVE BODY

- B.1 Body shall be made of iron A126.
- B.2 Body shall have an integrated Actuator plate in accordance with ISO 5211 standard, to adapt any type of actuators.

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C. ELASTOMERIC SEAT:

C.1. Seat shall be made of EPDM suitable for temperature from -15°C up to $+130^{\circ}\text{C}$.
For DN 350 mm and above, valve seat shall be replaceable.

C.2. Seat shall have concentric grooves located on the valve faces for perfect tightness against flanges.

D. DISC

D.1. Disc shall be made of ductile iron grade 400.15 with epoxy coating for fresh water or Stainless Steel grade 316 for heavy duty applications. Disc made in brass (forged) are also acceptable for DN 200 mm and below.

D.2. Discs shall have no internal attachments or cross elements (pins...) to avoid corrosion and internal leakage.

E. SHAFT

E.1. Shaft shall be made of stainless steel grade 420.

E.2. For valves DN 350 and above, shaft shall be guided with a minimum of 3 self lubricated bearings made in PTFE on a metallic support (DU type) to minimise friction and provide good ageing behaviour.

F. Manual operators:

F.1. All valves shall be provided with worm gears in compliance with APSAD requirements. Worm gears shall be equipped with 2 built-in monitor switches APSAD approved installed in the fully open position (activated when the valve is fully open). External switches will not be accepted.

F.2. Worm gears shall have a position indicator as per APSAD requirements.

G. MARKING

G.1. Valves shall have marked in accordance with ISO 5209 standard :
size and maximum working temperature,
Maximum working pressure,
Material of the body
Material of the stem and disc,
Material of the seat,
Figure number and year of manufacturing.

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