DelVal Flow Controls

Technical Bulletin
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Product Specification for Resilient Seated Centric Butterfly Valves

Valve Type: Series 50 Wafer or Series 52 Lugged

Body:
- Shall be one-piece wafer or lug design with extended neck to allow for 2” of piping insulation.
- Flange locating holes shall be provided on wafer bodies to allow for quick and precise alignment during valve installation.
- Flange hole drilling as per international flange standard as specified.
- A non-corrosive bushing and a self-adjusting stem seal shall be provided. No field adjustment shall be necessary to maintain optimum field performance.

Disc:
- High strength disc with hand polished disc edge and hub, for low torque and maximum sealing capability.

Stem:
- Shall be one-piece design.
- Disc to stem connection shall be and internal double “D” design with no possible leak paths in the disc-to-stem connection. External disc-to-stem connections such as disc screws or pins are not allowed.
- Stem shall be mechanically retained in the body neck and no part of the stem shall be exposed to the line media. The high strength, stainless steel one-piece stem provides maximum strength for high torque applications.

Seat:
- Unique “Center-Lock” seat design virtually eliminates any seat movement during the seating and unseating of disc.
- Heavy Duty square-grooved seat design has molded O-ring seals to serve as flange gasket.
- The seat shall totally encapsulate the body isolating it from the line media and no flange gaskets shall be required.

Bi-directional Service: (With downstream flanges and disc in closed position)
2”-12”(DN 50 – DN 300) 175 psi (12.0 barg)
14”-24”(DN 350 – DN 600) 150 psi (10.0 barg)
2”-24”(DN 50 – DN 600) 50 psi (3.5 barg)

Dead-End Service:
(No downstream flanges and disc in closed position)
2”-12” (DN 50 – DN 300) 175 psi (12.0 barg)
14”-24” (DN 350 – DN 600) 150 psi (10.0 barg)
2”-24” (DN 50 – DN 600) 50 psi (3.5 barg)

Design: BS EN 593

Testing: BS EN 12266-1 & ISO 5208

Approvals & Certifications:
- CE/PED Certification
- ATEX
- UL
- MARINE
- NSF/ANSI 61-2008 Certification

Material of Construction:

- **Body:** ASTM A126 Gr B / ASTM A395 Gr 60-40-18 / ASTM A216 Gr WCB / ASTM A351 Gr. CF8 / ASTM A351 Gr.CF8M / ASTM A995 Gr.4A / ASTM A995 Gr.5A / ASTM A995 Gr.6A

- **Disc:** ASTM A536 Gr. 65-45-12 + Nylon 12 Coated / ASTM A536 Gr. 65-45-12 + Aroxy Coated / AS351 Gr CF8 / ASTM A 351 Gr CF8M / ASTM A995 Gr.4A / ASTM A995 Gr.5A / ASTM A995 Gr.6A.

- **Seat:** EPDM / WHITE EPDM, BUNA – N / WHITE BUNA – N / VITON (FKM) / SILICONE.
  NOTE: OUR BUNA-N AND EPDM SEATS ARE SILICON FREE, PEROXIDE CURED AND ARE FOOD GRADE MATERIAL.

- **Stem:** ASTM A479 TYPE 410 / ASTM A564 TYPE 630 (17-4-PH)

Seat Temperature Range:

Seat Type	Temperature Range	
	Min.	Max.
EPDM / WHITE EPDM	-20° F (-29° C)	302° F (150° C)
BUNA - N / WHITE BUNA - N	0° F (-18° C)	212° F (100° C)
Viton® (FKM)	0° F (-18° C)	392° F (200° C)
Silicone*	-58° F (-50° C)	392° F (200° C)

*Max. pressure rating limited to 6 Bar.