

HIGH PERFORMANCE BUTTERFLY VALVE

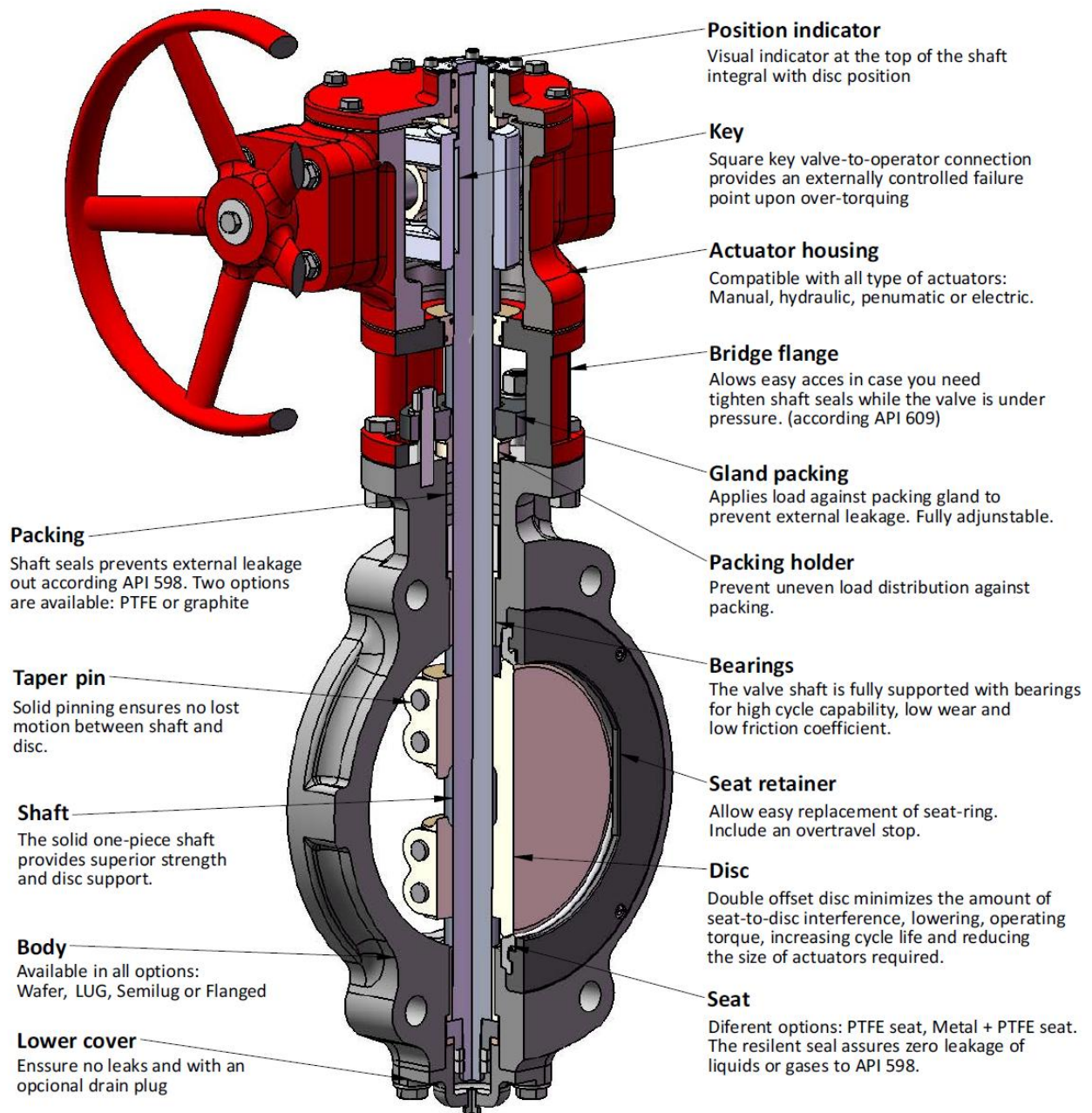


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DENNIS NAKAKITA high performance butterfly valves are a standard in many industries including: Topsides FPSO/FSO, Refineries, Petrochemical Plants, LPG, marine and commercial shipbuilding, water and waste water treatment.



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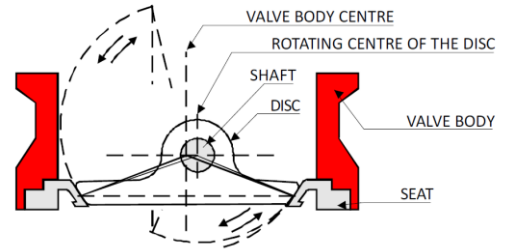
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DOUBLE ECCENTRICITY DESIGN:

This geometry ensures that the disc seal contacts the seat only at the final shut-off position, this guarantee no friction during all cycle open-close, except when the disc is in fully closed position. Thus, this design increases the lifetime of the seats and discs, minimize operating torque and reduce the size of actuators required.



GENERAL FEATURES:

- Simple and robust designs in all low-weight diameters.
- Full bidirectional sealing.
- Easy replacement of seat-ring.
- Same face to face distance for Wafer, LUG and Flanged type valves.
- Antistatic design.
- Shaft built in a single piece.
- Drain plug.
- Flange drilling options:
 - ISO / DIN / BS - PN10 / PN16 / PN25
 - ANSI / ASME - Class 150
 - JIS - 6K / 10K / 16K / 20K
- Test and inspection to API 598 / ISO 5208.
- Compatible with all type of actuators: hydraulic, manual, pneumatic and electric
- Fire-tested per API 607 standard.
- Fugitive emissions packing system.
- Valve shaft is fully supported with bearings for high cycle capability.



FIRE TESTING TO API 607, 6 TH EDITION:

High performance butterfly valve DN 8" class 150 was tested according API 607. The water filled valve was subjected to fire for 30 minutes at a temperature between 750°C and 1000°C and a pressure of 2.0 bar. After the burn period the through-seat-leakage was determined and after a cool down period the external leakage and the through-seat-leakage were measured. Then the valve was opened, and the external leakage was determined. American Bureau of Shipping (ABS), witnessed the fire test and certificate our fire block valve.



**Certificate Number:
14-GD1174028-PDA**



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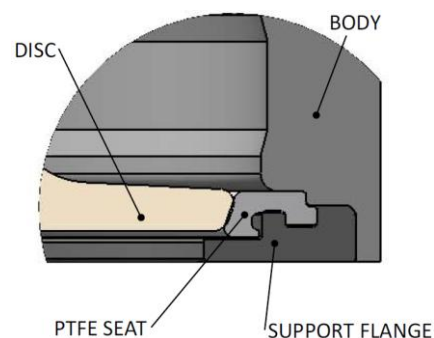
P.T.F.E. SEAT:

In this type of seat, the support flange protect the PTFE ring from the contact with the flange of the pipe, keeping the PTFE seat in a static position without any deformation. This support flange has a tangential which guarantees lock the disc in this position.

The PTFE seat can be used with all kinds of chemicals except fluorine or its compounds, or with certain other products beyond the specified temperature range. In general, its use is recommended in very aggressive chemical circuits and for those in which different kinds of products are going to be circulating.

The PTFE seat IS NOT fire safe.

Temperatures: from -100°C to +200°C



STANDARD CONSTRUCTION:

Sizes: 40 - 1000 mm (1.5'' - 60'')

Body: ASTM A216 WCB / ASTM A351 CF8, CF8M / ASTM A-536 / ASTM B-148-9D.

Disc: ASTM A216 WCB / ASTM A351 CF8, CF8M / 17-4 PH / ASTM B-148-9D.

Shaft: ASTM A182 F-316 / Monel K-500 / Duplex / Superduplex / 17-4 PH.

Bearings: ASTM A182 F-316 / PTFE with 25% of glass fibre.

Seat: PTFE

Packing: PTFE / Graphite.

Other materials possible upon request.

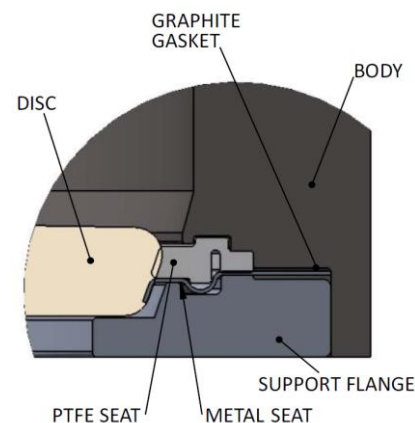


COMBINED SEAT, METAL + P.T.F.E., FIRE SAFE:

This seat combines soft seat as PTFE with a secondary ring, made of metal, complying with the fire safety standard as per BS 6755, API 607 6th edition.

Under normal functioning conditions, and with the disc in the closed position, PTFE seat will be the first ring that is working, sealing the valve to the passage of the fluid. But if a fire occurs the second seat, the metal one, will come into operation after the first seat has been destroyed by the effect of the heat, thereby completely stopping the passage of the fluid.

Temperatures: from -100°C to +200°C



STANDARD CONSTRUCTION:

Sizes: 40 - 500 mm (1.5'' - 20'')

Body: ASTM A 216 WCB / ASTM A-351 CF8, CF8M / ASTM B-148-9D.

Disc: ASTM A 216 WCB / ASTM A-351 CF8, CF8M / 17-4 PH / ASTM B-148-9D.

Shaft: ASTM A 182 F-316 / Monel K-500 / Duplex / Superduplex / 17-4 PH.

Bearings: ASTM A 182 F-316 / PTFE with 25% of glass fibre.

Seat: PTFE + ASTM A-351 CF8M

Packing: Graphite.

Other materials possible upon request.



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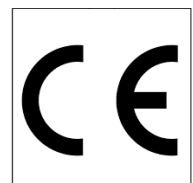
FACTORY SPAIN

Dennis Nakakita operate around the world in different markets as Oil & Gas, Marine & Shipbuilding, Navy, Energy & Water.

DENNIS NAKAKITA is accredited for ISO 9001:2008 by Det Norske Veritas and has also been awarded Worldwide Chamber Trust Seal certificate.



Our equipment has also the Type Approval Certificate from American Bureau of Shipping, Bureau Veritas, Lloyd's Registers, Det Norske Veritas, and also the CE.



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