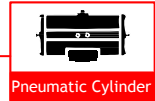
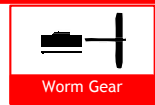


Chemically resistant butterfly valves

841T

842T



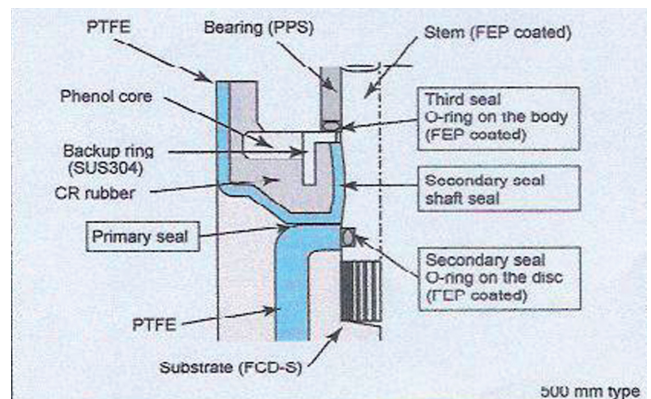
Features and benefits

Bubble tight seal and no leakage

Teflon®, or Tetrafluoroethylene, developed by Du Pont Inc, does not react to most of the chemicals used in modern chemical processing - even at high temperatures and high pressures. It is recognised as an ideal material for industrial valves that handle highly corrosive fluids. Teflon has a low friction coefficient and excellent lubricity when used in contact with metal surfaces. TOMOE's 841T and 842T butterfly valves take full advantage of the superior qualities of Teflon: it protects all wetted parts and guides all stems. The 841T and 842T valves have a proven record of excellent performance and long life in heavy duty applications requiring tight shut-off, low torque and smooth operation.

Triple seal prevents leakage

The special feature of TOMOE butterfly valves is the seat ring design. The interference between the disc and the raised central area of the seat ring shuts off the flow completely. The resilient elastomer seat cushion ensures reliable shut off for the life of the valve. TOMOE butterfly valves are bi-directional and withstand pressures to 0,7 MPa from either direction. The upper and lower positions of the seat ring, where the stem passes through, use a triple seal design to prevent leakage to the atmosphere as shown in the illustration.



841T 842T

General Description

Chemically resistant butterfly valves with a proven record of excellent performance and long life in heavy duty applications

Standard Specification

| Type | 841T | 842T | |
|--|--|--|--------------------|
| Body shape (centring method) | Concentric design, wafer type | | |
| Valve nominal size | 350, 400, 450, 500, 600mm | 350, 400, 450, 500, 600mm | |
| Applicable flange standard | JIS 10K, ANSI 125 lb/150 lb, DIN NP10, BS 4504 PN10, BS 10Table E | | |
| Face-to-face dimensions | Manufacturer standard | | |
| Max. working pressure | 0.7 MPa | | |
| Seat leakage | Tight shut-off | | |
| Flow direction | Bi-directional | | |
| Pressure | Body shell | 1.05 MPa (Hydraulic) | |
| | Seat leakage | 0.7 MPa (Pneumatic, 350mm and higher: Hydraulic) | |
| Working temperature range | - 10 to 100 degrees C | | |
| Working temperature in continuous use #1 | 0 to 90 degrees C | | |
| Standard materials | Body | FCD-S | |
| | Disc | SCS14 | FCD-S+ PTFE lining |
| | Stem | SUS316 | S45C+FEP coating |
| | Seat ring | PTFE (back-up rubber: CR) | |
| Top flange | Manufacturer standard | | |
| Applicable gaskets | Rubber gasket cannot be used. Moulded gaskets require special dimensions (refer to dimension chart). Off-the-shelf seat gaskets can be used for 250 to 400mm types. 450 to 600mm types require special inner diameter dimensions (refer to dimension chart). | | |
| Coating | 250mm and 300mm types: Epoxy resin coated (Munsell N7) 350mm and higher: Lacquer primer (Munsell N7) | | |

Teflon® is a registered trademark for a fluoride resin produced by Mitsui-Du Pont Fluorochemical Co. Ltd.

#1. "Working temperature in continuous use" stands for the temperature continuously kept exceeding one hour.