



1. General Description

Pesflow butterfly valves are designed for isolation and throttling service in pipeline systems handling water, air, gas and non-aggressive fluids. The valve utilizes a concentric disc design with an elastomer seat providing bubble-tight shut-off and low operating torque.

The valve body is suitable for installation between standard pipeline flanges and allows manual or automated operation.

2. Design Data

PARAMETER

Valve Type
Design
Size Range
Pressure Rating
Temperature Range
Operation
Mounting
Leakage Class

SPECIFICATION

Butterfly Valve
Centric, Double Eccentric, Triple Eccentric
DN50 – DN600
PN10 / PN16
–20°C to +120°C (depending on seat material)
Quarter Turn (90° Rotation)
Between Flanges
Metal to Metal, Soft Seated



3. Materials of Construction

PART

Body
Disc
Stem
Seat

STANDARD MATERIAL

Cast Iron/ Carbon Steel/ Stainless Steel
Carbon Steel/ Stainless Steel
AISI 410/ SS304 / SS316
NBR / PTFE / Viton/ EPDM

4. Seat Material Selection

SEAT MATERIAL

EPDM
NBR
Stem
Viton

TEMPERATURE RANGE

–20°C to +120°C
–20°C to +90°C
–40°C to +200°C
–20°C to +180°C

SERVICE MEDIA

Water, wastewater
Oils and hydrocarbons
Chemicals
Hydrocarbon fluids



5. Valve Operation Options

OPERATION

Lever Operated
Gear Operated
Pneumatic Actuator

DESCRIPTION

Manual operation for small sizes
Manual gearbox for larger valves
Automated control using air pressure

6. Pressure Testing

TEST

Body Test
Seat Leakage Test
Functional Test

TEST PRESSURE

1.5 × Rated Pressure
1.1 × Rated Pressure
Open/Close Cycle

All valves are tested according to API 598 before dispatch.

7. Typical Applications

INDUSTRY

Water Treatment
Power Plants
Chemical Plants
HVAC
Marine

APPLICATION

Distribution pipelines
Cooling water systems
Process pipelines
Chilled water lines
Service water



8. Product Advantages

FEATURE

Compact design
Low operating torque
Replaceable seat liner
Bubble tight shutoff
Lightweight construction

BENEFIT

Reduced installation space
Suitable for automation
Easy maintenance
Reliable sealing
Lower installation cost

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