

PENTAIR SÜDMO HYGIENIC PROCESS VALVES

F250P/F251P HYGIENIC SKI-JUMP BUTTERFLY VALVE (FOR DRY POWDER USE)

PRODUCT INFORMATION



F250P/F251P
Ski-Jump Butterfly Valve with Pneumatic Actuator F257
with travel stop and F783 Easymind Control Top



PRODUCT INFORMATION

Pentair offers a comprehensive range of butterfly valves for a wide range of applications on powder conveying systems for the food, dairy, pharmaceutical, and beverage industries.

The F250P/F251P Ski-Jump Valve features advanced butterfly valve seat technology based on many years development while working closely with powder handling specialists. As a result the valve provides optimized performance in this harsh abrasive environment.

The F250P/F251P Ski-Jump Valves are available in a number of executions, including wafer flanges, butt weld, RJT, clamp, and other end connections.

The F250P/F251P Ski-Jump Valve is also available in a USDA compliant variation that meets the most stringent requirements for the U.S. dairy market.

AUTOMATION

- Pentair F257 (Standard)
- F783E IEC Ex (Zone 22) certified control top (Optional)
- Pentair Industrial Rack and Pinion actuators (Optional)
- Manual handle (Optional)
- Travel stops (Optional)
- Positioners (Optional)

ADVANTAGES

Innovative sealing solution

- Low wear through optimized material selection
- Unique seat stem bush technology to reduce torque and maximize seat life
- Powder tight shut-off
- Highest flow rates
- Low restriction

Long life

- Low wear
- High cycle life (up to 3 x that of standard butterfly valves)
- Deflection zone (Ski-Jump) minimizes direct impingement of high velocity product particles on the sealing surfaces.

Top quality

- Bodies machined from solid bar stock.
- FDA compliant elastomers

Service

- Simple, fast maintenance
- No special tools needed

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TECHNICAL SPECIFICATION

TECHNICAL SPECIFICATIONS

MATERIAL

Product contact area

1.4404 (AISI 316L) Standard
1.4307 (AISI 304L) Min. grade

Seals

NBR / UHMWPE

OPERATING TEMPERATURES

For Seals

90°C (194°F) continuous

SURFACES

Product contact area Ra ≤ 0.8 µm (32 µin.)

Non product contact Ra ≤ 1.6 µm (64 µin.)

SIZES

F251 - Metric: DN 100, DN 125, DN 150

F250 - Inch OD: DN 4.0", DN 5.0", DN 6.0"

CONNECTIONS

Wafer flanges (Pentair custom)

Clamp – ISO 2852

Thread – BS 4825

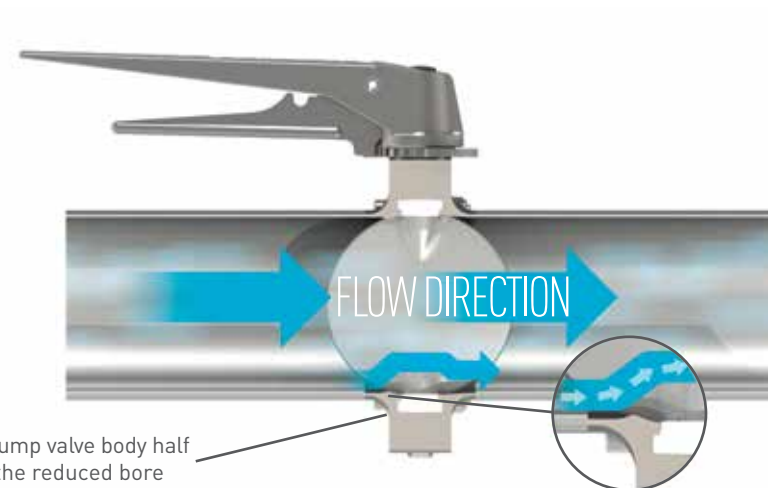
Butt weld – ISO 2037

CERTIFICATIONS

FDA

USDA (Special Configuration)

FUNCTION



Ski-Jump valve body half with the reduced bore

Detailed view of the deflection zone that the Ski-Jump feature creates.

The powder particles are deflected over the seat at velocity, avoiding/reducing the amount of powder that directly impinges the seal thereby reducing wear and extending seat life.



F250/F251 Powder Valve

with Pentair Südmö F257

Actuator and F783E

Control Top.



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