

# PENTAIR HYGIENIC PROCESS VALVES (FORMERLY KEYSTONE)

## 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

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##### MATERIAL

###### Product contact area

1.4404 (AISI306L) Standard  
1.4307 (AISI 304L) Min. grade

###### Seals

NBR / UHMWPE

##### OPERATING TEMPERATURES

###### For Seals

90°C (194°F) continuous

##### SURFACES

**Product contact area**  $R_a \leq 0.8 \mu\text{m}$  (32  $\mu\text{in.}$ )

**Non product contact**  $R_a \leq 1.6 \mu\text{m}$  (64  $\mu\text{in.}$ )

##### 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

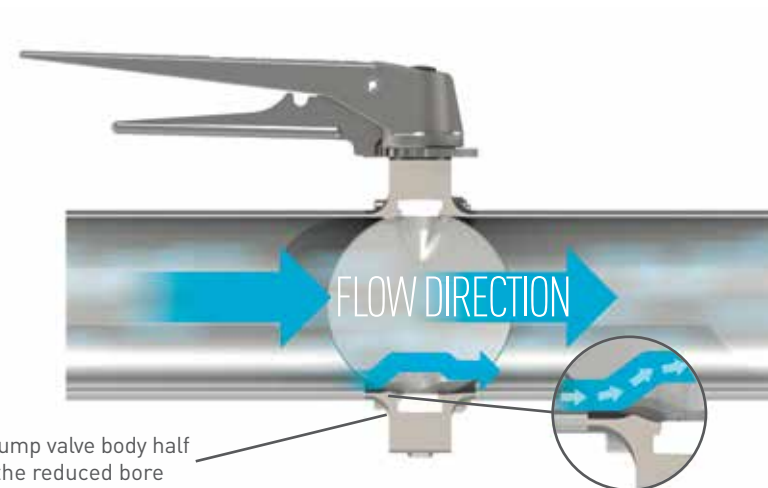
Butt weld – ISO 2037

##### 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 rack and pinion  
pneumatic actuator and positioner fitted



#### PENTAIR FLOW CONTROL PACIFIC PTY LTD

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