Wey Knife Gate Valve MF

PN 10/16
The Wey wafer mono-flange Knife Gate Valve model MF – a product based on decades of experience

Wey Knife Gate Valve – features

Sealing system
- The Wey Knife Gate valve is practically maintenance-free. The unique transverse seal permits repacking under full pressure and without valve disassembly
- Mechanically retained resilient seat along the gate sides
- Bi-directional bubble tight shut-off

Self-cleaning effect
- The self-cleaning effect is promoted by:
  - grooved gate seat
  - large contoured aero-dynamic/hydrodynamic interior body design
  - special formed gate cutting edges
  - no seat pockets

End-of line valve
- The MF valve can be used as an end-of line valve in pipelines. No need for plant shut-down when pumps or vessels must be maintained.

User benefit
- exceptional high reliability of operation
- low maintenance resulting in reduced loss of production
- fully open bore passage which enables use of any type of pipe cleaning tools
- minimal pressure loss to save energy cost
- the full bore opening permits the use of all known pigging devices (e.g. spherical, cylindrical and brush pigs, etc.)
Service

Municipal
Raw Sewage, Sewer, Sludge, Waste Water with solids, etc.

Pulp and Paper
Paper stock thru all consistencies, Pulp/Water mixtures, Black Liquor, Waste Paper, Rags, Wood Pulp

Power Generation and Mining
Mill Scale, Coal Dust and Slurry, Mine Slurry, Lime Slurry, Cement Dust

Process
Viscous Paste, Colloids, Granulates, Chemical Sludge, Textiles Slurry, Pellets, Powders

Sugar
Beet and Cane Sugar, Syrup, Juice

Food and Beverage
Fruit Pulps, Grain Mash and Spent Grain Mash, Corn Slurry, Waste Water

Design details

Specifications

<table>
<thead>
<tr>
<th>Size DN</th>
<th>Nominal pressure PN</th>
<th>Pressure test</th>
<th>Flange drilling</th>
<th>Face-to-face</th>
</tr>
</thead>
<tbody>
<tr>
<td>50–300</td>
<td>10 bar</td>
<td>Test acc.</td>
<td>PN 10/16</td>
<td>EN 558</td>
</tr>
<tr>
<td>350–400</td>
<td>6 bar</td>
<td>EN 12266-1,</td>
<td>EN 1092</td>
<td>ISO 5752</td>
</tr>
<tr>
<td>450–1600</td>
<td>4 bar</td>
<td>rate A</td>
<td>ISO 7005</td>
<td>part 20</td>
</tr>
</tbody>
</table>

Corrosion protection

Standard acc. SL 29125
Chemical degrease, epoxy - scale plating primer, polyurethane - top coat, RAL 9005/3020 black/red. Internal bolts stainless steel 304, cylinder tie rods chrome steel 430F

Other coatings on request

Temperature

−40°C to 400°C with adequate material- and construction adaption.

Materials

<table>
<thead>
<tr>
<th>Item</th>
<th>Standard</th>
<th>Option</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body</td>
<td>DN 50–400</td>
<td></td>
<td>V-port insert for throttling service</td>
</tr>
<tr>
<td></td>
<td>DN 450–1600</td>
<td></td>
<td>Wear ring for abrasive applications</td>
</tr>
<tr>
<td>Gate</td>
<td>304SS</td>
<td></td>
<td>Heavy-duty transverse seals for special applications Limit switches</td>
</tr>
<tr>
<td>Seal</td>
<td>NBR</td>
<td>316L</td>
<td>mechanical or inductive type</td>
</tr>
<tr>
<td>4-Post topwork</td>
<td>Steel</td>
<td>316L</td>
<td>Solenoid valve</td>
</tr>
<tr>
<td>Stem</td>
<td>430F</td>
<td>316L</td>
<td></td>
</tr>
</tbody>
</table>

Actuator options

Handwheel
Wey Knife Gate Valve MFA

Pneumatique cylinder
Wey Knife Gate Valve MFC

Electric actuator
Wey Knife Gate Valve MFE

All actuator units are interchangeable without dismantling valve from pipe system
Large valve body milling on horizontal twin table machining center

Further products

- Wey Sluice Gates
- Wey Check Valves (dirty water)
- Wey Off-center Butterfly Valves
- Wey Check Valves (clean water)
- Centric Butterfly Valves
- Wey Dismantling pieces

Your contact