Through conduit knife gate valve

Nominal diameter options (DN) 50-1000
Nominal pressure options (PN) 6-25
Maximum working pressure 2-10 bar

Applications:
- Pulp and Paper
- Power plants
- Etc.
- Wastewater treatment plants
- Chemical plants

Sizes: DN 50 to DN 1000 (larger diameters on request)

Working pressure:
- DN 50 to DN 125: 10 bar
- DN 150 to DN 250: 8 bar
- DN 300 to DN 400: 6 bar
- DN 450: 5 bar
- DN 500 to DN 600: 4 bar
- DN 700 to DN 1000: 2 bar

Standard flange connection:
- DIN PN 10 and ANSI B16.5 (class 150)
- Other flange connections available on request:
  - DIN PN 6
  - DIN PN 16
  - DIN PN 25
  - BS “D” and “E”
  - ANSI 125

Part | Cast iron | Stainless steel
--- | --- | ---
1. + 2. Body | GJL250(GG25) | CF8M
3. Gate | AISI 304 | AISI 316
4. Seat | Metal or EPDM | Metal or EPDM
6. Gland follower | Aluminium (DN50-300) | CF8M
| Ductile Iron (DN350-1000) | CF8M
7. Seat retainer ring | AISI 304 | -
8. Yoke | Carbon Steel - Epoxy Coated | Carbon Steel - Epoxy Coated
9. Stem | AISI 304 | AISI 304
10. Stem nut | Brass | Brass
11. Friction washer | Brass | Brass
12. Handwheel | GJS400 (GGG40) | GJS400 (GGG40)
13. Stem protector | Epoxy-coated Carbon Steel | Epoxy-coated Carbon Steel
15. Gasket | Aramid fibres | Aramid fibres
16. Nut | Zinc plated Carbon Steel | Zinc plated Carbon Steel
FEATURES:

BODY:
Wafer style cast two-part bolted body, both internally machined, with reinforcing ribs in larger diameters for ex body strength. The stainless steel version valves include internal high density polyethylene sliders (HMWPE) that ensure smoother gate traveling. Full port design to allow a greater flow capacity and to guarantee a minimal pressure drop.

SELF CLEANING GATE:
Stainless steel as standard. One piece through-going gate with o-port design. When closing, the gate cuts and moves a disc of material downwards, which is again returned to the flow when opening. Gate is polished on both sides to avoid jamming and to ensure a greater seal between the gate with both packing and seat. The thickness and/or the material of the gate can be changed on request for higher pressure requirement.

SEAT: (resilient)
Unique design that mechanically locks the seal in the interior of the valve body with a stainless steel retainer ring. Standard EPDM also available in different materials such as Viton, PTFE, etc.

PACKING:
Double stuffing box with several layers of braided fibre plus an EPDM o-ring, with an easy access and adjusting packing gland ensuring a tight seal. Long-life braided packing is available in a wide range of materials.

STEM:
The standard stainless steel stem offers a long corrosion resistant life. For rising stem handwheel actuators only, a stem protector is provided for additional protection against dust while the valve is in the open position.

ACTUATORS:
All actuators supplied are interchangeable, and supplied with an standard mounting kit for installation purposes on site.

YOKE or ACTUATOR SUPPORT:
Made of EPOXY coated steel (stainless steel available on request). Compact design makes it extremely robust even under the most severe conditions.

EPOXY COATING:
The epoxy coating on valve bodies and components is electrostatically applied making the valves to be corrosion resistant with a high quality finished surface.

GATE SAFETY PROTECTION:
Automated valves are provided with gate guards in accordance with EU Safety Standards. The design feature prevents any objects from being caught accidentally while the gate is moving.
Through conduit knife gate valve
SERIE 02 - 02396

WORKING TEMPERATURES:

<table>
<thead>
<tr>
<th>SEAT / SEALS</th>
<th>PACKING</th>
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<tbody>
<tr>
<td><strong>Material</strong></td>
<td><strong>Max. T (ºC)</strong></td>
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<tr>
<td>Metal/Metal</td>
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<td>EPDM</td>
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<tr>
<td>Nitril (N)</td>
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<td>Viton (V)</td>
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<td>Silicon (S)</td>
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<td>PTFE (T)</td>
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</table>

More details and materials under request.

Note: all types include an elastomere O-ring (same material as seal), excl. TH, GR, FC.

SEAT TYPES:

**Casted iron**

**METAL / METAL**

Used for applications with high temperature or applications where tight shutoff is not required. The stainless steel version includes HMW polyethylene seat sliders that ensure a smoother gate traveling

**METAL / METAL, TYPE “B”**

Two replaceable reinforced “B” type rings (available in AISI 316, Ni-hard, CA15,...) protect the seat in abrasive services. HMW polyethylene seat sliders for smoother gate traveling (stainless steel version only)

**RESILIENT, TYPE “A”**

The standard resilient seat design consists of an elastomer seal fixed to the valve body with a replaceable stainless steel retainer ring. Temperature limitations according to seat material selected. Verify the above chart or contact our technical department for more information. HMW polyethylene seat sliders for smoother gate traveling (stainless steel version only)

**RESILIENT, TYPE “B”**

Resilient seat design with an elastomer seal fixed to the valve body with two replaceable reinforced seal retainer rings (available in AISI 316, Ni-hard, CA15,...) that protect the seat in abrasive services. Temperature limitations according to seat material selected. Verify the above chart or contact our technical department for more information. HMW polyethylene seat sliders for smoother gate traveling (stainless steel version only)

**DEFLECTION CONE “C”**

Deflects the media away from any valve internal exposed parts such as gate guides, seats, etc. Different types of material available such as AISI 316, CA15, Ni-Hard, etc. Installed at flow inlet, deflection cones protect the seat. They slightly reduce the inlet bore and the face-to-face dimensions also increase:

DN 50 to DN 250 X = 9mm
HANDWHEEL (rising stem)

- Standard manual actuator

- Consists of:
  - Handwheel: Epoxy coated Cast Iron
  - Floor stand
  - Stem
  - Stem nut
  - Stem protector

- Available from DN 50 to DN 600

- Options (on request):
  - Locking Device
  - Extensions

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<th>DN</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>øG</th>
<th>H</th>
<th>O max.</th>
<th>Weight (kg)</th>
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