

# TH KNIFE GATE VALVE

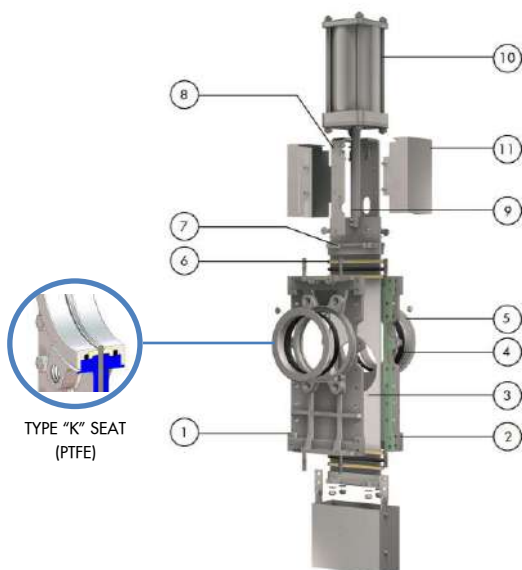
The TH model knife gate valve is a bi-directional wafer type through-conduit high pressure valve designed for media with high consistency. The double seat design assures a non-clogging shut off on suspended solids in both flow directions. The valve is used in a wide range of demanding applications in industries such as Pulp & Paper, Wastewater Treatment Plants, Chemical Plants, Power Plants, etc.

## Product description:

- Bi-directional wafer type through-conduit high pressure knife gate valve
- Size range of DN300-1000 (larger sizes upon request). See Dimension Charts for pressure rating
- Rising & non-rising stem configurations available
- Standard flange connection: DIN PN10 (EN 1092-2) and ANSI B16.5 (class 150)  
Others available upon request
- Manual (handwheel, chainwheel, lever and bevel gear), pneumatic (single and double-acting), electric and hydraulic actuation options available
- For EU Directives and other Certificates, please see the document: Directives and Certificates Compliance - Knife Gate Valves - Catalogues and Datasheets

## Features:

- Wafer type cast two-part bolted stainless steel body with internal HMWPE sliders for a smoother gate traveling
- Full port design for greater flow capacity and minimal pressure drop
- Stainless steel o-port design through-going gate, polished both sides to avoid jamming and seat damage
- Cast stainless steel seat ring, easily replaceable, that mechanically locks the seal. Standard EPDM seat, also available in other materials (PTFE,...). Metal-to-metal seat and deflection cones available
- Dual packing with easy access and adjustable packing glands. Long life multiple graphite imp. PTFE & aramid yarn combination with elastomeric core and EPDM o-ring. Wide range of materials available
- Automated valves provided with gate guards in accordance with EU Safety Standards
- Other options: bonnets, flush ports, special materials, fabricated valves, etc.
- Actuation accessories: limit & proximity switches, mechanical stops, positioners, solenoid valves, manual overrides, locking devices, fail safe systems, stem extensions and floor stands



## STANDARD PARTS LIST

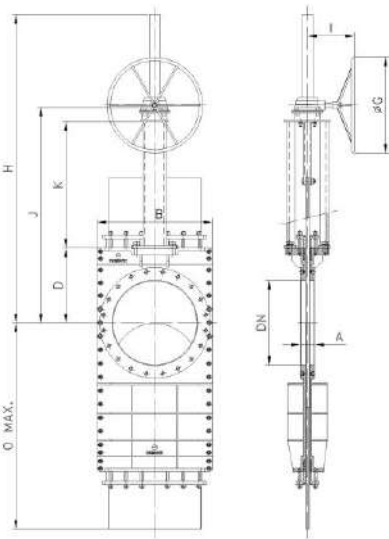
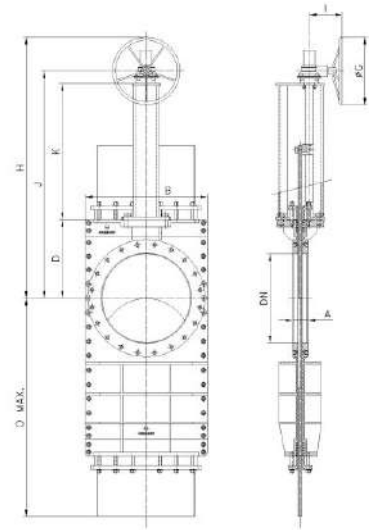
| Part             | Stainless steel        |
|------------------|------------------------|
| 1 Body           | CF8M / AISI 316        |
| 2 Body           | CF8M / AISI 316        |
| 3 Gate           | AISI 316               |
| 4 Seat           | PTFE                   |
| 5 "K" ring       | AISI 316               |
| 6 Packing        | Dynapack + EPDM O-ring |
| 7 Gland Follower | CF8M / AISI 316        |
| 8 Yoke           | AISI 304 (1.4301)      |
| 9 Piston Rod     | AISI 304 (1.4301)      |
| 10 Cylinder      | Aluminum               |
| 11 Gate Guards   | AISI 304 (1.4301)      |

# TH KNIFE GATE VALVE

## DIMENSIONS (mm) Bevel Gear Non Rising Stem

| DN   | Pressures | X   | A   | B    | D   | J    | K    | ØG  | H    | O max. |
|------|-----------|-----|-----|------|-----|------|------|-----|------|--------|
| 300  | 10 bar    | 302 | 78  | 410  | 280 | 810  | 420  | 310 | 822  | 905    |
| 350  | 10 bar    | 332 | 78  | 473  | 300 | 900  | 490  | 410 | 897  | 1047   |
| 400  | 10 bar    | 380 | 89  | 538  | 350 | 1000 | 540  | 410 | 997  | 1171   |
| 450  | 10 bar    | 420 | 89  | 588  | 420 | 1125 | 595  | 550 | 1120 | 1301   |
| 500  | 10 bar    | 490 | 114 | 740  | 490 | 1215 | 655  | 550 | 1210 | 1575   |
| 600  | 10 bar    | 540 | 122 | 754  | 530 | 1395 | 755  | 550 | 1389 | 1711   |
| 700  | 10 bar    | 665 | 128 | 860  | 650 | 1615 | 855  | 650 | 997  | 2005   |
| 800  | 10 bar    | 760 | 128 | 964  | 740 | 1805 | 955  | 650 | 1120 | 2295   |
| 900  | 6 bar     | 880 | 128 | 1070 | 845 | 2010 | 1055 | 650 | 1210 | 2585   |
| 1000 | 6 bar     | 970 | 128 | 1180 | 955 | 2220 | 1155 | 650 | 1389 | 2875   |

\* For higher pressures, please contact us



## DIMENSIONS (mm) Bevel Gear Rising Stem

| DN   | Pressures | X   | A   | B    | D   | J    | K    | ØG  | H    | O max. |
|------|-----------|-----|-----|------|-----|------|------|-----|------|--------|
| 300  | 10 bar    | 302 | 78  | 410  | 280 | 810  | 420  | 310 | 1102 | 905    |
| 350  | 10 bar    | 332 | 78  | 473  | 300 | 900  | 490  | 410 | 1286 | 1047   |
| 400  | 10 bar    | 380 | 89  | 538  | 350 | 1000 | 540  | 410 | 1386 | 1171   |
| 450  | 10 bar    | 420 | 89  | 588  | 420 | 1125 | 655  | 550 | 1583 | 1301   |
| 500  | 10 bar    | 490 | 114 | 740  | 490 | 1395 | 755  | 550 | 1673 | 1575   |
| 600  | 10 bar    | 540 | 122 | 754  | 530 | 1615 | 855  | 550 | 1963 | 1711   |
| 700  | 10 bar    | 665 | 128 | 860  | 650 | 1615 | 855  | 650 | 2300 | 2005   |
| 800  | 10 bar    | 760 | 128 | 964  | 740 | 1805 | 955  | 650 | 2640 | 2295   |
| 900  | 6 bar     | 880 | 128 | 1070 | 845 | 2010 | 1055 | 650 | 2980 | 2585   |
| 1000 | 6 bar     | 970 | 128 | 1180 | 955 | 2220 | 1155 | 650 | 3310 | 2875   |

\* For higher pressures, please contact us

## DIMENSIONS (mm) Pneumatic Actuator (D/A)

| DN   | Pressures | X   | A   | B    | D   | O max. | E    | F    | G   | H    | Standard Cyl. | Connect. |
|------|-----------|-----|-----|------|-----|--------|------|------|-----|------|---------------|----------|
| 300  | 10 bar    | 302 | 78  | 410  | 280 | 905    | 414  | 478  | 220 | 1172 | C200/320      | 3/8" G   |
| 350  | 10 bar    | 332 | 78  | 473  | 300 | 1047   | 510  | 535  | 277 | 1344 | C200/375      | 3/8" G   |
| 400  | 10 bar    | 380 | 89  | 538  | 350 | 1171   | 560  | 585  | 277 | 1494 | C250/425      | 3/8" G   |
| 450  | 10 bar    | 420 | 89  | 588  | 420 | 1301   | 608  | 665  | 382 | 1693 | C250/475      | 1/2" G   |
| 500  | 10 bar    | 490 | 114 | 740  | 490 | 1575   | 754  | 715  | 382 | 1959 | C300/525      | 1/2" G   |
| 600  | 10 bar    | 540 | 122 | 754  | 530 | 1711   | 796  | 880  | 444 | 2206 | C350/625      | 3/4" G   |
| 700  | 10 bar    | 665 | 128 | 960  | 650 | 1820   | 855  | 980  | 444 | 2485 | C350/725      | 3/4" G   |
| 800  | 10 bar    | 760 | 128 | 964  | 740 | 1930   | 955  | 1080 | 444 | 2775 | C350/825      | 3/4" G   |
| 900  | 6 bar     | 880 | 128 | 1070 | 845 | 2040   | 1055 | 1180 | 444 | 3080 | C400/925      | 3/4" G   |
| 1000 | 6 bar     | 970 | 128 | 1180 | 955 | 2135   | 1155 | 1280 | 444 | 3390 | C400/1025     | 3/4" G   |

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