

## WAFER STYLE KNIFE GATE VALVE

The Series 10 (EX) model knife gate is an uni-directional wafer valve designed for general industrial service applications. The design of the body and seat assures non-clogging shut off on suspended solids in industries such as:

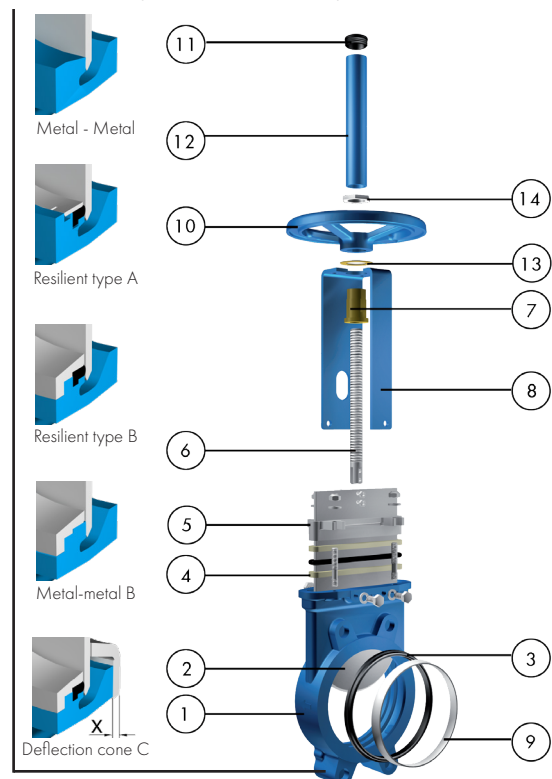
- Pulp and Paper
- Wastewater treatment plants
- Food and Beverage
- Mining
- Power plants
- Chemical plants
- Bulk handling
- Etc.

### Product description

- Uni-directional wafer type knife gate valve
- Size range of DN 2in-48in (larger upon request). See Dimension Charts for pressure rating
- Rising and non-rising stem configurations available
- Standard flange connection: ASME B16.5 (class 150) and EN-1092 PN10. Others upon request
- Manual (handwheel, chainwheel, lever and bevel gear), pneumatic (single and double-acting), electric and hydraulic actuation options available
- Directives: For specific EU Directives and other Certificates requirements, please see the Directives and Certificates Compliance - Knife Gate Valves – Catalogues and Datasheets

### Features

- Wafer cast monoblock body with internal cast-in gate wedges and guides for tighter shut-off
- Full port design for greater flow capacity and minimal pressure drop
- Stainless steel gate polished both sides to avoid jamming and seat damage
- Standard EPDM resilient seat. Metal-to-metal seat, as well as high performance rings and deflection cones available
- Long life PTFE impregnated synthetic fibre plus EPDM o-ring packing with easy access and adjustable gland follower. Wide range of packing materials available
- RAL-5015 blue epoxy-coating on all cast iron/carbon steel components
- Automated valves provided with gate guards in accordance with EU Safety Standards. Only in EU
- Other options: bonnets, V-ports, 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



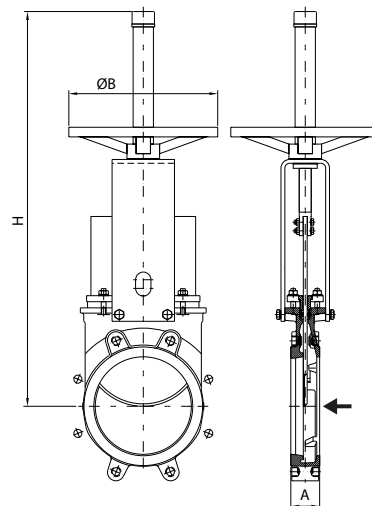
### STANDARD PARTS LIST

| Part | Description     |                                                                                              |
|------|-----------------|----------------------------------------------------------------------------------------------|
| 1    | Body            | EN-GJL250 / EN-GJS400 / CF8M <sup>1</sup>                                                    |
| 2    | Gate            | AISI 304 / AISI 316 <sup>1</sup>                                                             |
| 3    | Seat            | Metal-Metal / EPDM / NBR                                                                     |
| 4    | Packing         | PTFE Impreg. Synth. Fibre (With a EPDM O-Ring)                                               |
| 5    | Gland follower  | Al. (DN 2in/50mm - 12in/300mm) / EN-GJS400 (DN 14in/350mm - 48in/1200mm) / CF8M <sup>1</sup> |
| 6    | Stem            | Stainless Steel                                                                              |
| 7    | Stem nut        | Brass                                                                                        |
| 8    | Yoke            | Epoxy-coated Carbon Steel                                                                    |
| 9    | "A" ring        | AISI 304 / AISI 316 <sup>1</sup>                                                             |
| 10   | Handwheel       | EN-GJS400                                                                                    |
| 11   | Cap             | Plastic                                                                                      |
| 12   | Stem protector  | Epoxy-coated Carbon Steel                                                                    |
| 13   | Friction washer | Brass                                                                                        |
| 14   | Nut             | Zinc Plated Carbon Steel                                                                     |

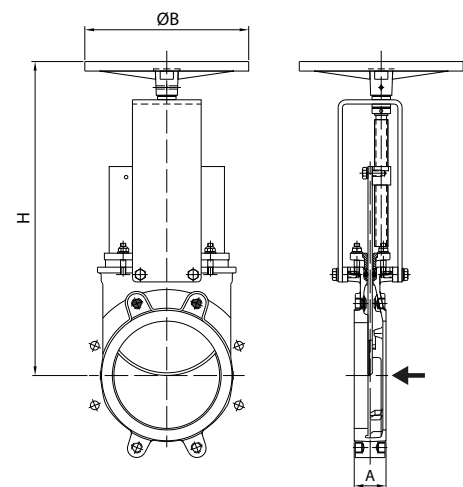
<sup>1</sup> Stainless steel configuration

## Handwheel Rising Stem

| DN (in) | W. pressure | A (in) | ØB (in) | H (in) | Weight (lbs.) |
|---------|-------------|--------|---------|--------|---------------|
| 2       | 150 psi     | 1,57   | 8,86    | 16,53  | 25            |
| 2,5     | 150 psi     | 1,57   | 8,86    | 17,71  | 27            |
| 3       | 150 psi     | 2,00   | 8,86    | 18,70  | 28            |
| 4       | 150 psi     | 2,00   | 8,86    | 20,47  | 31            |
| 5       | 150 psi     | 2,00   | 8,86    | 23,62  | 38            |
| 6       | 150 psi     | 2,36   | 8,86    | 25,67  | 47            |
| 8       | 150 psi     | 2,36   | 12,20   | 32,36  | 75            |
| 10      | 150 psi     | 2,75   | 12,20   | 40,23  | 101           |
| 12      | 90 psi      | 2,75   | 12,20   | 44,17  | 142           |
| 14      | 90 psi      | 3,78   | 16,14   | 52,08  | 208           |
| 16      | 90 psi      | 3,93   | 16,14   | 56,18  | 276           |
| 18      | 75 psi      | 4,17   | 21,65   | 62,75  | 356           |
| 20      | 60 psi      | 4,33   | 21,65   | 67,20  | 440           |
| 24      | 60 psi      | 4,33   | 21,65   | 79,60  | 630           |
| 28      | 60 psi      | 4,33   | 31,50   | 109,37 | 893           |
| 30      | 30 psi      | 4,33   | 31,50   | 114,17 | 1003          |
| 32      | 30 psi      | 4,33   | 31,50   | 117,32 | 1129          |
| 36      | 30 psi      | 4,33   | 31,50   | 126,57 | 1499          |
| 40      | 30 psi      | 4,33   | 31,50   | 133,86 | 1907          |



## Handwheel Non Rising Stem



| DN (in) | W. pressure | A (in) | ØB (in/mm) | H (in/mm) | Weight (lbs.) |
|---------|-------------|--------|------------|-----------|---------------|
| 2       | 150 psi     | 1,57   | 8,86       | 12,28     | 22            |
| 2,5     | 150 psi     | 1,57   | 8,86       | 13,34     | 25            |
| 3       | 150 psi     | 2,00   | 8,86       | 14,33     | 27            |
| 4       | 150 psi     | 2,00   | 8,86       | 15,94     | 29            |
| 5       | 150 psi     | 2,00   | 8,86       | 17,28     | 33            |
| 6       | 150 psi     | 2,36   | 8,86       | 19,29     | 40            |
| 8       | 150 psi     | 2,36   | 12,2       | 23,42     | 70            |
| 10      | 150 psi     | 2,75   | 12,2       | 27,36     | 99            |
| 12      | 90 psi      | 2,75   | 12,2       | 31,30     | 132           |
| 14      | 90 psi      | 3,78   | 16,14      | 37,20     | 204           |
| 16      | 90 psi      | 3,93   | 16,14      | 41,30     | 278           |
| 18      | 75 psi      | 4,17   | 21,65      | 44,92     | 395           |
| 20      | 60 psi      | 4,33   | 21,65      | 49,37     | 457           |
| 24      | 60 psi      | 4,33   | 21,65      | 57,44     | 615           |
| 28      | 60 psi      | 4,33   | 31,50      | 68,38     | -             |
| 30      | 30 psi      | 4,33   | 31,50      | 73,07     | -             |
| 32      | 30 psi      | 4,33   | 31,50      | 76,34     | -             |
| 36      | 30 psi      | 4,33   | 31,50      | 85,59     | -             |
| 40      | 30 psi      | 4,33   | 31,50      | 93,74     | -             |

## Pneumatic Cylinder

| DN (in) | W. pressure | A (in) | B (in) | H (in) | Connect. | Weight (lbs.) |
|---------|-------------|--------|--------|--------|----------|---------------|
| 2       | 150 psi     | 1,57   | 4,53   | 16,22  | 1/4" G   | 23            |
| 2,5     | 150 psi     | 1,57   | 4,53   | 17,87  | 1/4" G   | 27            |
| 3       | 150 psi     | 2,00   | 4,53   | 19,56  | 1/4" G   | 29            |
| 4       | 150 psi     | 2,00   | 4,53   | 21,96  | 1/4" G   | 34            |
| 5       | 150 psi     | 2,00   | 5,51   | 24,88  | 1/4" G   | 47            |
| 6       | 150 psi     | 2,36   | 5,51   | 27,87  | 1/4" G   | 56            |
| 8       | 150 psi     | 2,36   | 6,89   | 34,33  | 1/4" G   | 91            |
| 10      | 150 psi     | 2,75   | 8,66   | 41,02  | 3/8" G   | 133           |
| 12      | 90 psi      | 2,75   | 8,66   | 46,93  | 3/8" G   | 166           |
| 14      | 90 psi      | 3,78   | 10,90  | 54,6   | 3/8" G   | 283           |
| 16      | 90 psi      | 3,93   | 10,90  | 60,67  | 3/8" G   | 344           |
| 18      | 75 psi      | 4,17   | 15,03  | 67,32  | 1/2" G   | 516           |
| 20      | 60 psi      | 4,33   | 15,03  | 73,74  | 1/2" G   | 589           |
| 24      | 60 psi      | 4,33   | 15,03  | 85,71  | 1/2" G   | 737           |
| 28      | 60 psi      | 4,33   | 17,48  | 100,24 | 3/4" G   | 1146          |
| 30      | 30 psi      | 4,33   | 17,48  | 107,28 | 3/4" G   | 1290          |
| 32      | 30 psi      | 4,33   | 17,48  | 112,2  | 3/4" G   | 1433          |
| 36      | 30 psi      | 4,33   | 20,27  | 126,06 | 3/4" G   | 1874          |
| 40      | 30 psi      | 4,33   | 20,27  | 137,32 | 3/4" G   | 2334          |

