

## Quality

- ISO 9001 Certified Company
- Company and Product Certified and Qualified CRCC Petrobras

## Main Features

- Function: On/Off
- Construction: MSS-SP 135
- Type: Wafer and Total LUG
- Size: 3" (80mm) to 24" (600mm)
- Flow: Bidirectional
- 100% watertight
- High performance with full and coated passage

## General Application

- Abrasive processes/liquids, ore slurry, solids in general and similar;

## Maximum pressure (Temperature between 0°C to 30°C)

| DN       | Pol. | 3"   | 4"   | 6"   | 8"   | 10"  | 12"  | 14"  | 16"  | 18"  | 20"  | 24"  |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|
|          | mm   | 80   | 100  | 150  | 200  | 250  | 300  | 350  | 400  | 450  | 500  | 600  |
| CWP(bar) |      | 20,6 | 20,6 | 20,6 | 20,6 | 20,6 | 20,6 | 20,6 | 20,6 | 20,6 | 20,6 | 20,6 |

## Maximum temperature

| EPDM (°C) | VITON (°C) | BORRACHA NATURAL (°C) |
|-----------|------------|-----------------------|
| 110       | 200        | 72                    |

## Internal Testing and Inspection

**Hydrostatic:** ISO 5208 / EN 12266 / MSS SP 151

**Performance:** 1 (one) Complete Cycle (Open and Close)

**Painting:** NBR 14847

**Visual:** NBR 15185

**Fixation:** NBR 7675 / EN 1092 / ANSI B16.5 / ANSI B16.47

**Dimensional:** Approved Drawing / EN 558 / MSS SP81 / MSS SP135

## Flange / Connection

- ANSI B16.5 - 300lbs
- DIN PN25 / PN40 / PN50
- Others on request

## Types of Drives

- Steering wheel manual
- Gear Reducer
- Pneumatic Actuator
- Hydraulic Actuator
- Electric Actuator

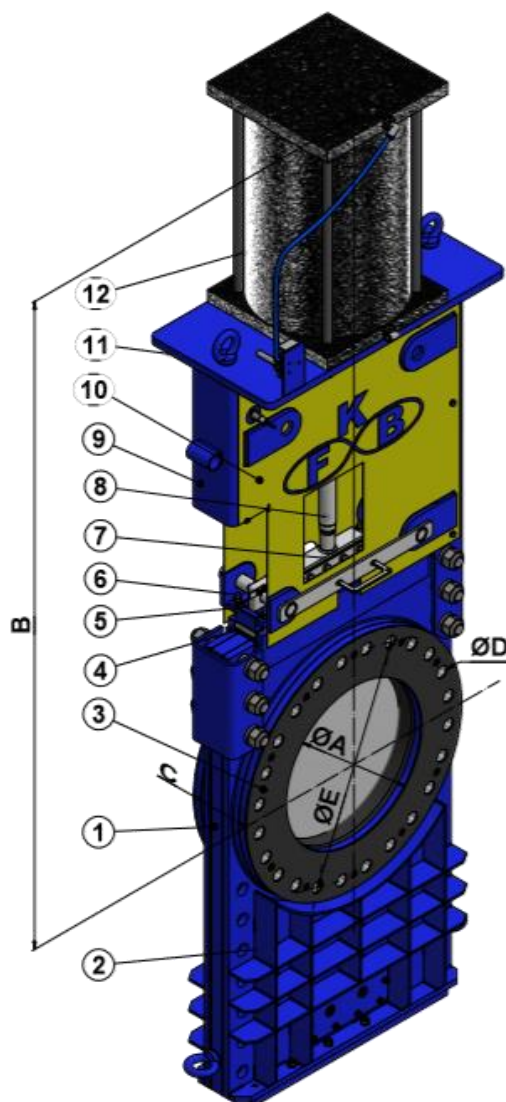
## Optional Accessories

- Solenoid valve
- End of Course Key
- Lubrifil kit
- Others

## Material Table

| Pos. | Description                     | Material                                       |
|------|---------------------------------|------------------------------------------------|
| 1    | Bipartite Body                  | ASTM A36                                       |
| 2    | Retention Box and Cleaning Caps | ASTM A36                                       |
| 3    | Interchangeable Sleeves         | Natural Rubber / EPDM / Viton / Clorobutyl (*) |
| 4    | Top Sealing                     | Synthetic Fiber with PTFE                      |
| 5    | Knife                           | AISI 316                                       |
| 6    | Packing Preme Screw             | Carbon Steel                                   |
| 7    | Fork / Cursor                   | Stainless Steel                                |
| 8    | Stem                            | AISI 410                                       |
| 9    | Support / Column                | AISI A36                                       |
| 10   | External Protection of Stem     | Carbon Steel Sheet                             |
| 11   | Table                           | ASTM A36                                       |
| 12   | Drive                           | Manual or Automatic                            |

(\*) other options on request



## Dimensions Table

|     |     |       |     | DIN PN 25 |     | ANSI B16.5 300 lbs |        |
|-----|-----|-------|-----|-----------|-----|--------------------|--------|
| A   |     | B (*) | C   | ØD        | ØE  | ØD                 | ØE     |
| In. | mm  | mm    | mm  | Nº - M-1  | mm  | Nº - M-1           | Inches |
| 3"  | 80  | 646   | 51  | 08 - M16  | 160 | 08 - ¾" UNC        | 6.¾"   |
| 4"  | 100 | 716   | 51  | 08 - M20  | 190 | 08 - ¾" UNC        | 7. ⅞"  |
| 6"  | 150 | 869   | 57  | 08 - M24  | 250 | 12 - ¾" UNC        | 10. ⅝" |
| 8"  | 200 | 1.002 | 70  | 12 - M24  | 310 | 12 - ¾" UNC        | 13"    |
| 10" | 250 | 1.131 | 70  | 12 - M27  | 370 | 16 - 1" UNC        | 15. ¼" |
| 12" | 300 | 1.258 | 76  | 16 - M27  | 430 | 16 - 1. ½" UNC     | 17. ¾" |
| 14" | 350 | 1.479 | 76  | 16 - M30  | 490 | 20 - 1. ½" UNC     | 20. ¼" |
| 16" | 400 | 1.650 | 89  | 16 - M33  | 550 | 20 - 1.¾" UNC      | 22.½"  |
| 18" | 450 | 1.839 | 89  | 20 - M33  | 600 | 24 - 1.¾" UNC      | 24. ¾" |
| 20" | 500 | 1.988 | 114 | 20 - M33  | 660 | 24 - 1.¾" UNC      | 27"    |
| 24" | 600 | 2.535 | 114 | 20 - M36  | 770 | 24 - 1. ¾" UNC     | 32"    |

## Notes:

1. (\*) Measure "B" under consultation for other types of drives;
2. Measures subject to change without notice.