

# ROTARY VALVE - AL/BL

Technical data standard configuration

## GENERAL DATA

|                                         |                                                                                                                                                 |     |     |      |     |     |     |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|------|-----|-----|-----|
| FLANGE CONNECTION                       | PN 10 or ANSI 150 lbs. (Size AL100 PN 6)                                                                                                        |     |     |      |     |     |     |
| MAXIMUM ALLOWABLE WORKING PRESSURE      | up to 2 barg                                                                                                                                    |     |     |      |     |     |     |
| ALLOWABLE CONVEYING PRODUCT TEMPERATURE | up to 150°C                                                                                                                                     |     |     |      |     |     |     |
| ATEX 2014/34/EU                         | 1D/2DG Equipment<br>Protective system St.2 (10 bar P <sub>max</sub> )<br>Flameproof in both directions<br>(If required please specify on order) |     |     |      |     |     |     |
| SIZE AL/BL                              | 100                                                                                                                                             | 150 | 175 | 200  | 250 | 300 | 350 |
| CAPACITY LTR/REV.                       | 0.8                                                                                                                                             | 2.5 | 5.5 | 10.5 | 19  | 34  | 58  |

\* Capacity per revolution at 100% filling

Vent holes in housing Standard pre-drilled in cast iron

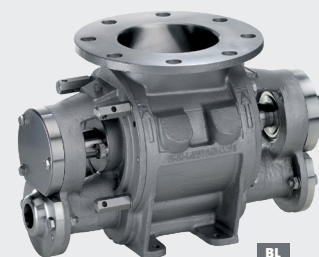
|                      |      |      |     |         |         |
|----------------------|------|------|-----|---------|---------|
| SIZE AL/BL           | 100  | 150  | 175 | 200-250 | 300-350 |
| VENT HOLE CONNECTION | 1/2" | 3/4" | 1"  | 1 1/4"  | 1 1/2"  |

Air purge connection in end covers

|                      |      |         |         |         |
|----------------------|------|---------|---------|---------|
| SIZE AL/BL           | 100  | 150-175 | 200-250 | 300-350 |
| AIR PURGE CONNECTION | 1/8" | 1/4"    | 1/4"    | 3/8"    |



AL



BL

## MATERIAL SPECIFICATIONS

|                                                |                                          |                                  |
|------------------------------------------------|------------------------------------------|----------------------------------|
| CAST HOUSING/END COVERS                        | Stainless steel 316                      | DIN 1.4408                       |
|                                                | Cast iron EN-GJL-250                     | DIN 0.6025                       |
|                                                | Aluminium LM25 TF7                       | DIN 3.2371                       |
| ROTOR FIXED 9 VANES                            | (Size AL100 rotor fixed 6 vanes)         |                                  |
| ROTOR WITH REPLACEABLE AND ADJUSTABLE BLADES 9 |                                          |                                  |
| ROTOR FABRICATED                               | Stainless steel 316L DIN 1.4404          | Mild steel                       |
| ROTOR BLADES                                   | Thickness blade 3mm                      | Steel                            |
|                                                |                                          | Steel hardened                   |
|                                                |                                          | Stainless steel                  |
|                                                |                                          | Polyurethane (90° Shore)         |
| SCRAPER BLADES                                 | Thickness blade 3mm                      | Steel hardened                   |
|                                                |                                          | Stainless steel with PVD coating |
| KNIVES                                         | Stainless steel hardened                 | DIN 1.4112 55-57 HRC             |
| SHAFT SEAL                                     | Gland packing (Depending on application) |                                  |
|                                                | Air purge by means of lip seal/gland     |                                  |
| OPTIONAL COATINGS                              | Hard chromium plated internally          | Thickness 0.03mm                 |
|                                                | Electroless nickel plated internally     | Thickness 0.04mm                 |
|                                                | Tungsten carbide wear layer              | Thickness 0.2mm                  |
|                                                | Anodising                                |                                  |
| BEARING                                        | Outrigged ball-bearing sealed for life   |                                  |

## DRIVE SPECIFICATIONS

\* Minimum advised Torque [Nm] required.

|                                |     |     |     |     |     |     |     |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|
| SIZE AL/BL                     | 100 | 150 | 175 | 200 | 250 | 300 | 350 |
| 50Hz                           | 70  | 110 | 150 | 210 | 285 | 410 | 560 |
| FREQUENCY CONTROLLED (10-60Hz) | 95  | 150 | 205 | 285 | 385 | 555 | 755 |