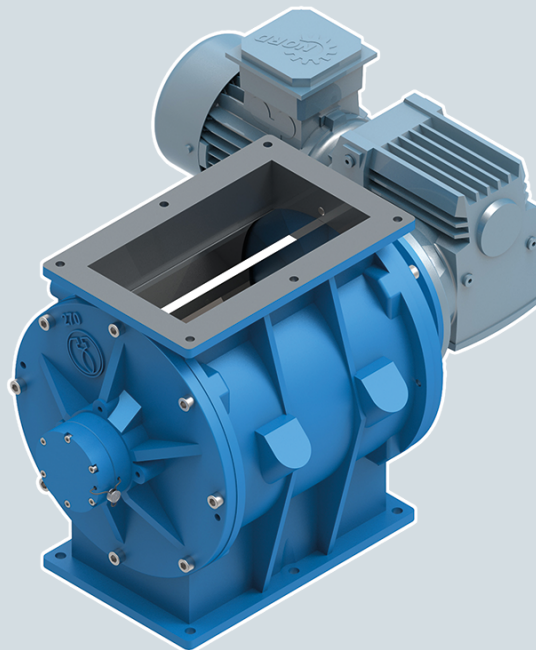




## RS/ex ROTARY VALVES



The rotary valve "RS" in "ex" version allow installation of this component in potential explosive atmosphere, where is requested shock-resistance and flameproof certification for to avoid propagation risk. Rotary valve "RS/ex" is in accordance with restrictive European norms "Explosion Isolation System EN 15089", with resistance certified until 10 bars.

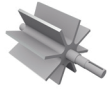
### CHARACTERISTICS

- Many rotor varieties
- Standard with ball-bearings
- Indirect or direct drive
- Suitable for dosing large quantities
- Standard with GS400 cast iron housing and covers
- External supports with external ball bearings possible
- Small gaps
- Available in SS 316
- Open rotor (steel or SS)
- Many options and extra's possible

### TECHNICAL INFORMATION

| Type                                                    | 180                                          | 230 | 270 | 300 | 350 | 450 |
|---------------------------------------------------------|----------------------------------------------|-----|-----|-----|-----|-----|
| Volumetric capacity (liters/rev. at 100% filling ratio) | 3                                            | 7   | 12  | 18  | 34  | 71  |
| Rotorblades                                             | 11                                           | 11  | 11  | 11  | 12  | 12  |
| Max. diff. pressure                                     | -0,2 up to +0,1 bar                          |     |     |     |     |     |
| Working temperature                                     | -20 up to 40 °C (+80 °C process temperature) |     |     |     |     |     |
| Sock resistance                                         | 10 bar                                       |     |     |     |     |     |
| MIE (minimum ignition energy)                           | ≥ 10 mJ                                      |     |     |     |     |     |

### ROTOR VARIETIES

| Rotor types                                                                         |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| A                                                                                   | C *                                                                                 | E*                                                                                  |
|  |  |  |
| Straight blades standard                                                            | Straight blades with chamfered tips on all sides                                    | Straight blades with exchangeable rotor tips on all sides                           |

\* Available up to size RS/ex300



### RS/ex VERSION: FLAMEPROOF AND PRESSURE SURGE-RESISTANT

RS rotary valves are available in certified versions suited for explosion isolation. RS/ex versions with steel or SS blades are flameproof and pressure surge-resistant till 10 bar in accordance with restrictive European norms "Explosion Isolation System EN 15089"

## MEASUREMENTS, RPM AND WEIGHT

| Measurements (mm) |              |               |               |                |     |              |               |              |
|-------------------|--------------|---------------|---------------|----------------|-----|--------------|---------------|--------------|
| Type              | A<br>(inlet) | A<br>(outlet) | B1<br>(inlet) | B1<br>(outlet) | B   | C<br>(inlet) | C<br>(outlet) | D<br>(inlet) |
| RS180             | 190x118      | 190x118       | 155           | 155            | 115 | 250x178      | 250x178       | 6xM8         |
| RS230             | 238x135      | 235x135       | 172           | 172            | 135 | 298x200      | 298x200       | 6xM8         |
| RS270             | 276x148      | 276x158       | 194           | 194            | 155 | 342x222      | 342x222       | 6xM10        |
| RS300             | 340x198      | 340x198       | 250           | 250            | 195 | 428x278      | 428x278       | 6xM12        |
| RS350             | 470x238      | 476x220       | 300           | 300            | 180 | 580x352      | 580x332       | 8xM12        |
| RS450             | 570x285      | 570x285       | 185(2x)       | 370            | 215 | 710x436      | 710x425       | 10xM14       |

| Measurements (mm) |               |    |     |     |     |     |     |     |     | RPM        | Gross weight (kg)* |
|-------------------|---------------|----|-----|-----|-----|-----|-----|-----|-----|------------|--------------------|
| Type              | D<br>(outlet) | E  | F   | F2  | H   | H*  | H** | I   | I** |            |                    |
| RS180             | 6x Ø10        | 11 | 270 | 140 | 276 | 352 | 313 | 380 | 286 | max 25 *** | 73                 |
| RS230             | 6x Ø10        | 12 | 330 | 174 | 314 | 394 | 347 | 401 | 352 | max 25 *** | 103                |
| RS270             | 6x Ø12        | 12 | 390 | 213 | 339 | 422 | 372 | 421 | 352 | max 25 *** | 145                |
| RS300             | 6x Ø13        | 13 | 447 | 248 | 374 | 472 | 452 | 497 | 383 | max 25 *** | 202                |
| RS350             | 8x Ø14        | 15 | 530 | 290 | 476 | 577 | 549 | 540 | 404 | max 25     | 330                |
| RS450             | 8x Ø15        | 22 | 677 | 339 | 560 | 670 | 685 | 635 | 503 | max 25     | 600                |

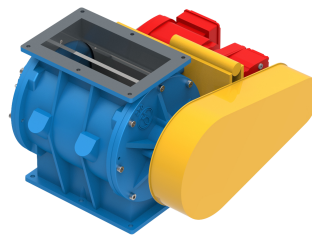
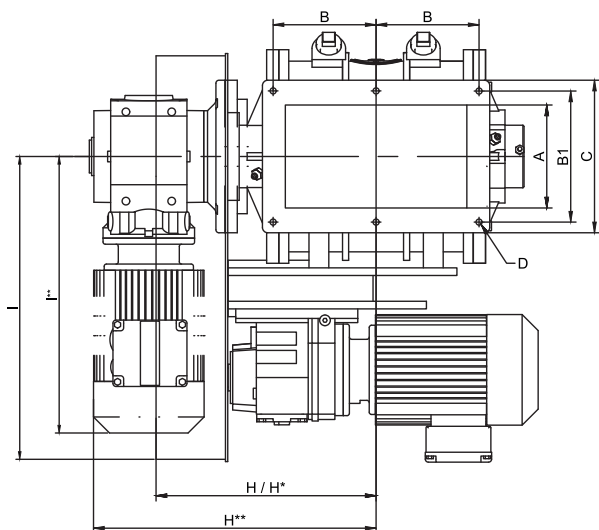
\* Chain transmission

Column H + column I: chain transmission

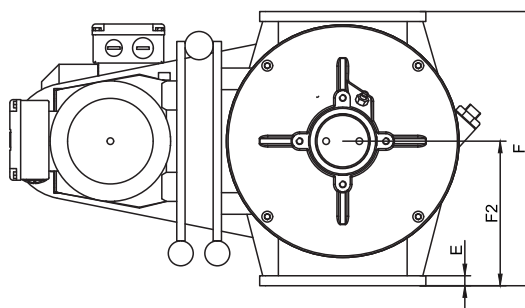
Column H\*: total length with external supports

Column H\*\* + Column I\*\*: helical worm direct drive

\*\*\* Max 21 rpm with C or E rotor



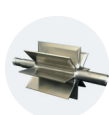
More information  
about rotary valves in  
the **catalogue**  
**Rotary valves**



## OPTIONS AND ACCESSORIES



Housing treatments



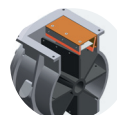
Rotor treatments



External bearings



Revolution control



Slip off

### Others:

- Different RAL colour
- Nickel plating
- Polishing (for SS only)