

## MD Series with Quick-Clean RotorRail™

### Rotary Valve for Metering, Feeding and Airlock Applications

Tool-less, single-step access to rotor and internal surfaces; simplifying cleaning, validation, and inspection.



**SECTOR INDUSTRIES:**



Plastics



Pet Food



Construction



Food



Pharmaceutical  
and Cosmetics



Chemical

### FEATURES

- Tool-less, single-step access to rotor and internal surfaces; simplifying cleaning, validation, and inspection.
- RotorRail™ feature maintains rotor and endplate alignment during disassembly; ensures fast and accurate rotor and endplate re-alignment during re-assembly.
- Available in 7 heights, from 10 5/8"H to 18 3/8"H; and 7 flange inside diameters from 4" to 15".
- CNC-machined components and housing provide precision tolerances; eliminates axial shaft movement, extends maintenance cycles.
- Outboard bearing design protects bearings in high-temperature and high-PSIG applications; removes bearings from direct path of damaging contaminants.
- Easily manages pressure differentials up to 15 PSIG.
- Excellent performance in high-temperature applications up to 500°F.
- 8-vane rotor with beveled tips and sides.
- Direct-drive motor package.

**SPECIFICATIONS:**

INLET/OUTLET  
FLANGE SIZES:

7 sizes from 4" to 15"

MATERIAL OF  
CONSTRUCTION:

Cast Iron,  
Stainless Steel

PRESSURE  
DIFFERENTIAL:

Up to 15 PSIG

HIGH TEMPERATURE  
RANGE:

500°F

# MD Series

with Quick-Clean RotorRail™

Rotary Valve for Metering,  
Feeding and Airlock Applications



## OPTIONS

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• 304, 304L, 316, 316L, or 2205 cast stainless steel valve housing.</li> </ul>  | <ul style="list-style-type: none"> <li>• Shaft seal types: ACST-4™ glandless Teflon® shaft seal, and packing gland.</li> </ul>   |
| <ul style="list-style-type: none"> <li>• No. 4 finish on internal product contact surfaces of housing, and all rotor surfaces.</li> </ul>                        | <ul style="list-style-type: none"> <li>• Valve housing vent ports.</li> </ul>  |
| <ul style="list-style-type: none"> <li>• Interior coatings: hard chrome, tungsten, nickel, and epoxy.</li> </ul>   | <ul style="list-style-type: none"> <li>• Shaft seal and rotor pocket air purge.</li> </ul>   |
| <ul style="list-style-type: none"> <li>• Rotor types: closed-end, metering, shallow-pocket, adjustable-tip, and Teflon®-coated.</li> </ul>                       | <ul style="list-style-type: none"> <li>• 6-vane, 10-vane, or 12-vane rotor.</li> </ul>   |
| <ul style="list-style-type: none"> <li>• Adjustable rotor tip types: EPDM rubber, polyurethane, mild steel, AR400 steel, stainless steel, and bronze.</li> </ul> | <ul style="list-style-type: none"> <li>• Custom drive packages.</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>• Application-specific accessories: blow-through adapter, shear plate deflector, surge hopper, motion speed switch assembly.</li> </ul> |

## ROTARY VALVE CAPACITY (cubic feet/hour)

|                            |                           |           |            |            |            |             |             |             |             |             |             |
|----------------------------|---------------------------|-----------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>VALVE SIZE (INCHES)</b> | <b>4</b>                  | <b>2</b>  | <b>8</b>   | <b>12</b>  | <b>15</b>  | <b>18</b>   | <b>21</b>   | <b>24</b>   | <b>27</b>   | <b>30</b>   | <b>33</b>   |
|                            | <b>6</b>                  | <b>6</b>  | <b>30</b>  | <b>48</b>  | <b>60</b>  | <b>72</b>   | <b>84</b>   | <b>96</b>   | <b>108</b>  | <b>120</b>  | <b>132</b>  |
|                            | <b>8</b>                  | <b>12</b> | <b>60</b>  | <b>96</b>  | <b>120</b> | <b>144</b>  | <b>168</b>  | <b>192</b>  | <b>216</b>  | <b>240</b>  | <b>264</b>  |
|                            | <b>10</b>                 | <b>24</b> | <b>120</b> | <b>192</b> | <b>240</b> | <b>288</b>  | <b>336</b>  | <b>384</b>  | <b>432</b>  | <b>480</b>  | <b>528</b>  |
|                            | <b>12</b>                 | <b>45</b> | <b>225</b> | <b>360</b> | <b>450</b> | <b>540</b>  | <b>630</b>  | <b>720</b>  | <b>810</b>  | <b>900</b>  | <b>990</b>  |
|                            | <b>14</b>                 | <b>66</b> | <b>330</b> | <b>528</b> | <b>660</b> | <b>792</b>  | <b>924</b>  | <b>1056</b> | <b>1188</b> | <b>1320</b> | <b>1452</b> |
|                            | <b>16</b>                 | <b>84</b> | <b>420</b> | <b>672</b> | <b>840</b> | <b>1008</b> | <b>1176</b> | <b>1344</b> | <b>1512</b> | <b>1680</b> | <b>1848</b> |
|                            | <b>1</b>                  | <b>5</b>  | <b>8</b>   | <b>10</b>  | <b>12</b>  | <b>14</b>   | <b>16</b>   | <b>18</b>   | <b>20</b>   | <b>22</b>   |             |
|                            | <b>ROTARY SPEED (RPM)</b> |           |            |            |            |             |             |             |             |             |             |

Capacities shown are based on 100% pocket-fill efficiency. Pocket-fill efficiencies vary by application. To ensure optimal efficiency, contact ACS Valves.