# Rotary Valve Selector Guide

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Product Specifications

AN-X Series Valve

Dust Collector Valve for airlock applications

The AN-X Valve is an NFPA compliant dust collector valve for any application. Complete with steel rotor tips and outboard bearings, this valve is great for easy, drop-in replacements for FT or AN dust collection valves.

**FEATURES**

- Mild Steel construction
- Rotor with steel rotor tips
- Heavy-duty construction
- Direct-drive operation
- Tight internal clearances
- ACST-4™ glandless Teflon® shaft seal

**BENEFITS**

- NFPA compliant
- Outboard bearings
- Steel tips
- Easy drop-in replacements

**VALVE ROTARY VALVE CAPACITY (CUBIC FEET/HOUR)**

<table>
<thead>
<tr>
<th>SIZE</th>
<th>CAPACITY</th>
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<tbody>
<tr>
<td>8”</td>
<td>0.64</td>
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<tr>
<td>10”</td>
<td>1.34</td>
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<tr>
<td>12”</td>
<td>2.46</td>
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</table>

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

**SPECIFICATIONS:**

<table>
<thead>
<tr>
<th>INLET/OUTLET FLANGE SIZES:</th>
<th>MATERIAL OF CONSTRUCTION:</th>
<th>PRESSURE DIFFERENTIAL:</th>
<th>HIGH TEMPERATURE RANGE:</th>
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</thead>
<tbody>
<tr>
<td>3 sizes from 8”, 10”, 12”</td>
<td>Mild Steel, Stainless Steel</td>
<td>Up to 15” psi</td>
<td>500°F</td>
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</tbody>
</table>

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CI Series
Rotary Valve for Metering, Feeding and Airlock Applications

The CI Series rotary valves are also available in sanitary 304 or 316 cast stainless steel models. Sanitary CI Series models also offer the ACS RotorRail™ quick-clean feature.

FEATURES

- Available in 11 heights, from 10"H to 44"H; and 11 square-flange sizes from 6" to 26".
- Valve housing cast in North America; ensures superior strength and solidification of housing’s metallurgy.
- 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.

SPECIFICATIONS:

<table>
<thead>
<tr>
<th>INLET/OUTLET FLANGE SIZES:</th>
<th>MATERIAL OF CONSTRUCTION:</th>
<th>PRESSURE DIFFERENTIAL:</th>
<th>HIGH TEMPERATURE RANGE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 sizes from 6&quot; to 26&quot;</td>
<td>Cast Iron, Stainless Steel</td>
<td>Up to 20 PSIG</td>
<td>750°F</td>
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</tbody>
</table>

UNIFORM FEED OPTION

- Easily manages pressure differentials up to 15 PSIG; with super-duty series up to 22 PSIG.
- Excellent performance in high-temperature applications up to 750°F.
- 8-vane rotor with beveled tips and sides.

Staggered Rotor Pocket

- 16 offset pockets ensure a continuous and uniform flow rate to the conveying line.
- More accurate rate of material flow.
OPTIONS

• 304, 304L, 316, 316L, or 2205 cast stainless steel valve housing.

• No. 4 finish on internal product contact surfaces of housing, and all rotor surfaces.

• Interior coatings: hard chrome, tungsten, nickel, and epoxy.

• Rotor types: closed-end, metering, shallow-pocket, adjustable-tip, and Teflon®-coated.

• Adjustable rotor tip types: EPDM rubber, polyurethane, mild steel, AR400 steel, stainless steel, and bronze.

• Shaft seal types: ACST-4™ glandless Teflon® shaft seal, and packing gland.

• Valve housing vent ports.

• Shaft seal and rotor pocket air purge.

• 6-vane, 10-vane, or 12-vane rotor.

• Custom drive packages.

• Application-specific accessories: blow-through adapter, shear plate deflector, surge hopper, motion speed switch assembly.

ROTARY VALVE CAPACITY (cubic feet/hour)

<table>
<thead>
<tr>
<th>VALVE SIZE (INCHES)</th>
<th>6</th>
<th>6</th>
<th>30</th>
<th>48</th>
<th>60</th>
<th>72</th>
<th>84</th>
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</tbody>
</table>

Rotary Valve for Metering, Feeding and Airlock Applications

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

CI 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.

FEATURES

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

- RotorRail™ feature maintains rotor and endplate alignment during dis-assembly; ensures fast and accurate rotor and endplate realignment during re-assembly.

- Available in 9 heights, from 10”H to 44”H; and 9 flange inside diameters from 6” x 6” to 22” to 22”.

- 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:

<table>
<thead>
<tr>
<th>INLET/OUTLET FLANGE SIZES:</th>
<th>MATERIAL OF CONSTRUCTION:</th>
<th>PRESSURE DIFFERENTIAL:</th>
<th>HIGH TEMPERATURE RANGE:</th>
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<tbody>
<tr>
<td>9 sizes from 6” to 22”</td>
<td>Cast Iron, Stainless Steel</td>
<td>Up to 15 PSIG</td>
<td>500°F</td>
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</table>

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Product Specifications

CI Series

with Quick-Clean RotorRail™

Rotary Valve for Metering, Feeding and Airlock Applications

OPTIONS

• 304, 304L, 316, 316L, or 2205 cast stainless steel valve housing.

• No. 4 finish on internal product contact surfaces of housing, and all rotor surfaces.

• Interior coatings: hard chrome, tungsten, nickel, and epoxy.

• Rotor types: closed-end, metering, shallow-pocket, adjustable-tip, and Teflon®-coated.

• Adjustable rotor tip types: EPDM rubber, polyurethane, mild steel, AR400 steel, stainless steel, and bronze.

• Shaft seal types: ACST-4™ glandless Teflon® shaft seal, and packing gland.

• Valve housing vent ports.

• Shaft seal and rotor pocket air purge.

• 6-vane, 10-vane, or 12-vane rotor.

• Custom drive packages.

• Application-specific accessories: blow-through adapter, shear plate deflector, surge hopper, motion speed switch assembly.

ROTARY VALVE CAPACITY (cubic feet/hour)

<table>
<thead>
<tr>
<th>VALVE SIZE (INCHES)</th>
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</table>

| ROTARY SPEED (RPM) | 1   | 5   | 8   | 10  | 12  | 14  | 16  | 18  | 20  | 22  |

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

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Sanitary CI Series
with Quick-Clean RotorRail™
Rotary Valve for Metering, Feeding & Airlock Applications

The sanitary CI Series valves, with ACS RotorRail™ quick-clean design, also have multiple Run-Clean™ features that reduce material buildup inside the housing during operation.

FEATURES

• 304 or 316 stainless steel valve housing, cast in North America, ensures superior housing solidification and metallurgy; eliminates pits and dimples where contaminants could accumulate.

• Product contact surfaces of the housing, and all rotor surfaces, are a No. 4 finish.

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

• Easily manages pressure differentials up to 15 PSIG.

• RotorRail™ feature maintains rotor and endplate alignment during dis-assembly; ensures fast and accurate rotor and endplate re-alignment during re-assembly.

• CNC-machined components and housing provide precision tolerances; eliminates axial shaft movement, extends maintenance cycles.

• Available in 9 heights, from 10”H to 44”H; and 9 square-flange sizes from 6” to 22”.

• 8-vane rotor with beveled tips and sides.

• Run-Clean™ features include: angled surfaces, rounded edges, and factory-applied internal coatings to reduce material buildup in the housing during operation.

• Outboard bearing design protects bearings in high-temperature and high-PSIG applications; removes bearings from direct path of damaging contaminants.

• Excellent performance in applications up to 500°F.

SPECIFICATIONS:

<table>
<thead>
<tr>
<th>INLET/OUTLET FLANGE SIZES:</th>
<th>MATERIAL OF CONSTRUCTION:</th>
<th>PRESSURE DIFFERENTIAL:</th>
<th>HIGH TEMPERATURE RANGE:</th>
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</thead>
<tbody>
<tr>
<td>9 sizes from 6” to 22”</td>
<td>Stainless Steel</td>
<td>Up to 15 PSIG</td>
<td>500°F</td>
</tr>
</tbody>
</table>

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Product Specifications

Sanitary CI Series
with Quick-Clean RotorRail™

OPTIONS

- 304, 304L, 316, 316L, or 2205 cast stainless steel valve housing.
- No. 4 finish on internal product contact surfaces of housing, and all rotor surfaces.
- Rotor types: closed-end, metering, shallow-pocket, and Teflon®-coated.
- Shaft seal types: ACST-4™ glandless Teflon® shaft seal, and packing gland.
- Valve housing vent ports.
- Shaft seal and rotor pocket air purge.
- 6-vane or 10-vane.
- Custom drive packages.
- Application-specific accessories: blow-through adapter, shear plate deflector, surge hopper, motion speed switch assembly.

ROTARY VALVE CAPACITY (cubic feet/hour)

<table>
<thead>
<tr>
<th>VALVE SIZE (INCHES)</th>
<th>6</th>
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<th>30</th>
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<th>72</th>
<th>84</th>
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Capacities shown are based on 100% pocket-fill efficiency. Pocket-fill efficiencies vary by application. To ensure optimal efficiency, contact ACS Valves.
Product Specifications

XTR-CI Series

Corrosion-resistant Rotary Valve for Abrasive or Acidic Materials

The XTR-CI Series valve boasts high corrosion resistance with the same efficient, high-performance design of our popular square-flange CI Series rotary valve. It is specially outfitted to excel in any pressure pneumatic conveying system that requires food-grade product contact.

Need it in round flange? Check out our XTR-MD.

SECTOR INDUSTRIES:
- Plastics
- Pet Food
- Construction
- Food
- Pharmaceutical and Cosmetics
- Chemical

FEATURES

- Cast iron housing and endplates coated with XTR-Coat, a chemically-resistant coating.
- Resists wear and corrosion from chemicals, acid and abrasive material.
- XTR-Coat also prevents material sticking and buildup on valve surfaces.
- USDA and FDA compliant.
- 304 stainless steel rotor machined with precision for tight tolerances.
- Rated for great performance in operating temperatures up to 500°F.
- Handles pressure differentials up to 15 PSIG.

ACS now offers XTR-Coat synergistic coatings to maximize performance in a variety of applications. XTR-Coat finishes provide wear and corrosion protection, reduced friction and non-stick performance. XTR-Coat finishes are a high-performance, non-toxic and FDA-compliant alternative to industrial chrome plating.

- Available sizes: Square flange 8” through 16”.
- Expedites cleaning and sanitation operations; works well in washdown duty environments.
- Non-stick, food-grade properties for sugar, flour, pet food and other food processing applications.
- Dry-lubricity.
- Non-porous, moisture-proof surfaces and mold release.

SPECIFICATIONS:

<table>
<thead>
<tr>
<th>INLET/OUTLET FLANGE SIZES:</th>
<th>MATERIAL OF CONSTRUCTION:</th>
<th>PRESSURE DIFFERENTIAL:</th>
<th>HIGH TEMPERATURE RANGE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Square flange 8” to 16”</td>
<td>Cast Iron, XTR-Coat</td>
<td>Up to 15 PSIG</td>
<td>500°F</td>
</tr>
</tbody>
</table>

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Product Specifications

**MD Series**

Rotary Valve for Metering, Feeding and Airlock Applications

The MD Series valves, with ACS RotorRail™ quick-clean design, provide tool-less, single-step access to rotor and internal surfaces.

### FEATURES

- Available in 7 heights, from 7 3/8”H to 23 1/2”H; and 7 flange diameters from 4” to 16”.

- Valve housing cast in North America; ensures superior strength and solidification of housing’s metallurgy.

- 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; with super-duty series up to 22 PSIG.

- Excellent performance in high-temperature applications up to 750°F.

- Cast iron housing.

- 8-vane rotor with beveled tips and sides.

### SPECIFICATIONS:

<table>
<thead>
<tr>
<th>INLET/OUTLET FLANGE SIZES:</th>
<th>MATERIAL OF CONSTRUCTION:</th>
<th>PRESSURE DIFFERENTIAL:</th>
<th>HIGH TEMPERATURE RANGE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 sizes from 4” to 16”</td>
<td>Cast Iron, Stainless Steel</td>
<td>Up to 22 PSIG</td>
<td>750°F</td>
</tr>
</tbody>
</table>

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Product Specifications

MD Series
Rotary Valve for Metering, Feeding and Airlock Applications

OPTIONS

• 304 or 316 cast stainless steel valve housing.

• RotorRail™ feature provides tool-less access to rotor and internal surfaces; speeds cleaning and inspection; ensures fast, accurate rotor and endplate re-alignment.

• No. 4 finish on internal product contact surfaces of housing, and all rotor surfaces.

• Interior coatings: hard chrome, tungsten, nickel, and epoxy.

• Rotor types: closed-end, metering, shallow-pocket, adjustable-tip, and Teflon®-coated.

• Adjustable rotor tip types: EPDM rubber, polyurethane, AR400 steel, stainless steel, and bronze.

• Shaft seal types: ACST-4™ glandless Teflon® shaft seal, and packing gland.

• Valve housing vent ports.

• Shaft seal and rotor pocket air purge.

• 6-vane, 10-vane, or 12-vane rotor.

• Custom drive packages.

• Application-specific accessories: blow-through adapter, shear plate deflector, surge hopper, motion speed switch assembly.

ROTARY VALVE CAPACITY (cubic feet/hour)

<table>
<thead>
<tr>
<th>VALVE SIZE (INCHES)</th>
<th>4</th>
<th>2</th>
<th>8</th>
<th>12</th>
<th>15</th>
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<th>24</th>
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| ROTARY SPEED (RPM) |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|
| 1                  | 5 | 8 | 10| 12| 14| 16| 18| 20| 22|

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

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.

FEATURES

SECTOR INDUSTRIES:
- Plastics
- Pet Food
- Construction
- Food
- Pharmaceutical and Cosmetics
- Chemical

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

- 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.
Product Specifications

MD Series
with Quick-Clean RotorRail™

Rotary Valve for Metering, Feeding and Airlock Applications

OPTIONS

- 304, 304L, 316, 316L, or 2205 cast stainless steel valve housing.
- No. 4 finish on internal product contact surfaces of housing, and all rotor surfaces.
- Interior coatings: hard chrome, tungsten, nickel, and epoxy.
- Rotor types: closed-end, metering, shallow-pocket, adjustable-tip, and Teflon®-coated.
- Adjustable rotor tip types: EPDM rubber, polyurethane, mild steel, AR400 steel, stainless steel, and bronze.
- Shaft seal types: ACST-4™ glandless Teflon® shaft seal, and packing gland.
- Valve housing vent ports.
- Shaft seal and rotor pocket air purge.
- 6-vane, 10-vane, or 12-vane rotor.
- Custom drive packages.
- Application-specific accessories: blow-through adapter, shear plate deflector, surge hopper, motion speed switch assembly.

ROTARY VALVE CAPACITY (cubic feet/hour)

<table>
<thead>
<tr>
<th>VALVE SIZE (INCHES)</th>
<th>4</th>
<th>5</th>
<th>8</th>
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Capacity shown are based on 100% pocket-fill efficiency. Pocket-fill efficiencies vary by application. To ensure optimal efficiency, contact ACS Valves.
Sanitary MD Series
with Quick-Clean RotorRail™
Rotary Valve for Metering, Feeding and Airlock Applications

The MD Series valves, with ACS RotorRail™ quick-clean design, provide tool-less, single-step access to rotor and internal surfaces.

FEATURES

- Stainless steel valve housing, cast in North America, ensures superior housing solidification and metallurgy; eliminates pits and dimples where contaminants could accumulate.
- Product contact surfaces of the housing, and all rotor surfaces, are a No. 4 finish.
- Tool-less, single-step access to rotor and internal surfaces; simplifying cleaning, validation, and inspection.
- RotorRail™ feature maintains rotor and endplate alignment during dis-assembly; ensures fast and accurate rotor and endplate re-alignment during re-assembly.
- Available in 7 heights, from 7 3/8”H to 23”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:

<table>
<thead>
<tr>
<th>INLET/OUTLET FLANGE SIZES:</th>
<th>MATERIAL OF CONSTRUCTION:</th>
<th>PRESSURE DIFFERENTIAL:</th>
<th>HIGH TEMPERATURE RANGE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 sizes from 4” to 15”</td>
<td>Stainless Steel</td>
<td>Up to 15 PSIG</td>
<td>500°F</td>
</tr>
</tbody>
</table>
Product Specifications

Sanitary MD Series
with Quick-Clean RotorRail™

OPTIONS

- 304, 304L, 316, 316L, or 2205 cast stainless steel valve housing.
- No. 4 finish on internal product contact surfaces of housing, and all rotor surfaces.
- Rotor types: closed-end, metering, shallow-pocket, and Teflon®-coated.
- Shaft seal types: ACST-4™ glandless Teflon® shaft seal, and packing gland.
- Valve housing vent ports.
- Shaft seal and rotor pocket air purge.
- 6-vane or 10-vane.
- Custom drive packages.
- Application-specific accessories: blow-through adapter, shear plate deflector, surge hopper, motion speed switch assembly.

ROTARY VALVE CAPACITY (cubic feet/hour)

<table>
<thead>
<tr>
<th>VALVE SIZE (INCHES)</th>
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<th>VALVE SIZE (INCHES)</th>
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</table>

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

- Plastics
- Pet Food
- Construction
- Food
- Pharmaceutical and Cosmetics
- Chemical

PRODUCT SPECIFICATIONS

**XTR-MD Series**

**Corrosion-resistant Rotary Valve for Abrasive or Acidic Materials**

The XTR-MD Series valve boasts high corrosion resistance with the same efficient, high-performance design of our popular round-flange MD Series rotary valve. Its unique properties are ideal for any pressure pneumatic conveying system that requires food-grade product contact.

**Need it in square flange? Check out our XTR-CI.**

**INLET/OUTLET FLANGE SIZES:** Round flange 4” to 16”

**MATERIAL OF CONSTRUCTION:** Cast Iron, XTR-Coat

**PRESSURE DIFFERENTIAL:** Up to 15 PSIG

**HIGH TEMPERATURE RANGE:** 500°F

**FEATURES**

- Cast iron housing and endplates coated with XTR-Coat, a chemically-resistant coating.
- Resists wear and corrosion from chemicals, acid and abrasive material.
- XTR-Coat also prevents material sticking and buildup on valve surfaces.
- USDA and FDA compliant.
- Rated for great performance in operating temperatures up to 500°F.
- Handles pressure differentials up to 15 PSIG.
- Available sizes: Round flange 4” through 16”.

ACS now offers XTR-Coat synergistic coatings to maximize performance in a variety of applications. XTR-Coat finishes provide wear and corrosion protection, reduced friction and non-stick performance. XTR-Coat finishes are a high-performance, non-toxic and FDA-compliant alternative to industrial chrome plating.

- Expedites cleaning and sanitation operations; works well in washdown duty environments.
- Non-stick, food-grade properties for sugar, flour, pet food and other food processing applications.
- Dry-lubricity.
- Non-porous, moisture-proof surfaces and mold release.
Product Specifications

12” Multi-Port Series

Multi-compartment rotary valve for higher-volume applications or split-line conveying feeds

Separate airlock compartments for improved efficiency, uptime and NFPA compliance. Ideal for high volumes of free-flowing granular material or situations where multiple independent feeds are needed.

FEATURES

- Trough-style openings can be designed to fit dust collectors, hoppers, bins, silos and screw conveyors.
- Higher capacity with a smaller overall height for tight space engineered solutions.
- Tighter clearances enable NFPA compliance despite larger capacity outputs (since NFPA clearances can be challenging in larger airlocks).
- With independent drives, issues or a breakdown in one compartment can be contained and allow other compartments to continue operating.
- Common parts in a unique housing mean no special maintenance requirements. Spare parts are readily available (whereas spares for larger airlocks can have a longer lead time).
- Separate airlock compartments allow for intermittent feeds — two, three or four rotors can run simultaneously or independently for multi-line feeds.
- More compact design than other valves of its kind, which reduces stack-up in silos and dust collectors.
- Direct drives in each compartment allow for independent operation.
- Use to break up large pneumatic conveying systems into smaller, more manageable systems.
- Can be equipped with one elongated blow-through adapter to feed one system or multiple blow-through adapters for different line feeds.
- Equip with one large pressure blower package or several smaller ones for multiple systems.

OPTIONS

SECTOR INDUSTRIES:

- Plastics
- Pet Food
- Construction
- Food
- Pharmaceutical and Cosmetics
- Chemical

SPECIFICATIONS:

<table>
<thead>
<tr>
<th>INLET/OUTLET 3 FLANGE SIZES:</th>
<th>MATERIAL OF CONSTRUCTION:</th>
<th>PRESSURE DIFFERENTIAL:</th>
<th>HIGH TEMPERATURE RANGE:</th>
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<tbody>
<tr>
<td>Multi-Port 12 x 24 RAL, 1.42 C.F.R.</td>
<td>Cast Iron, Stainless Steel</td>
<td>Up to 20 PSIG</td>
<td>450°F Max.</td>
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<td>Multi-Port 12 x 36 RAL, 2.13 C.FR.</td>
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<tr>
<td>Multi-Port 12 x 48 RAL, 2.84 C.F.R.</td>
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DR-S Series

Rotary Valve for Metering, Feeding and Airlock Applications

The DR-S Series valves are built to application-specific requirements, including: custom rotor configurations, factory-applied internal coatings, and sanitary materials of construction.

FEATURES

- Pre-fit Performance™ housings provide all of the in-use advantages built into every ACS valve, plus the assurance of precise alignment and fast installation when replacing competitive valves.
- Available in 4 heights, from 12"H to 24"H; and 4 flange sizes from 7 5/8"H to 16"H.
- Valve housing cast in North America; ensures superior strength and solidification of housing’s metallurgy.
- 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.
- Large shaft diameter eliminates rotor deflection; reduces rotor tip wear and bearing seal leakage.
- Easily manages pressure differentials up to 15 PSIG; super-duty series up to 22 PSIG.
- Excellent performance in high-temperature applications up to 750°F.
- Cast iron housing.
- 8-vane rotor with beveled tips and sides.

SPECIFICATIONS:

<table>
<thead>
<tr>
<th>INLET/OUTLET FLANGE SIZES:</th>
<th>MATERIAL OF CONSTRUCTION:</th>
<th>PRESSURE DIFFERENTIAL:</th>
<th>HIGH TEMPERATURE RANGE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 sizes from 7 5/8” to 16”</td>
<td>Cast Iron, Stainless Steel</td>
<td>Up to 22 PSIG</td>
<td>750°F</td>
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</tbody>
</table>
Product Specifications

DR-S Series
Rotary Valve for Metering, Feeding and Airlock Applications

OPTIONS

- 304 or 316 cast stainless steel valve housing.
- No. 4 finish on internal product contact surfaces of housing, and all rotor surfaces.
- Interior coating: hard chrome tungsten.
- Rotor types: closed-end, shallow-pocket, and adjustable-tip.
- Adjustable rotor tip types: EPDM rubber, polyurethane, AR400 steel, and stainless steel.
- Shaft seal types: ACST-4™ glandless Teflon® shaft seal, and packing gland.

ROTARY VALVE CAPACITY (cubic feet/hour)

<table>
<thead>
<tr>
<th>VALVE SIZE (INCHES)</th>
<th>8</th>
<th>10</th>
<th>51</th>
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</table>

ROTARY SPEED (RPM)

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

Aero-Flow™ Series

Improve consistency. Optimize energy consumption.

The Aero-Flow Series valves are built to application-specific requirements, including: custom rotor configurations, factory-applied internal coatings, and sanitary materials of construction.

FEATURES

- **SECTOR INDUSTRIES:** Plastics, Pet Food, Construction, Food, Pharmaceutical and Cosmetics, Chemical

- **INLET/OUTLET FLANGE SIZES:**
  - 4 sizes from 6 5/8" x 6 3/4" to 25 1/4" x 12".

- **MATERIAL OF CONSTRUCTION:**
  - Cast Iron, Stainless Steel

- **PRESSURE DIFFERENTIAL:**
  - Up to 20 PSIG

- **HIGH TEMPERATURE RANGE:**
  - 750°F

- **SPECIFICATIONS:**
  - For high bulk density materials; a proprietary, dual-induction endplate design introduces pressurized air from both endplates into rotor pockets to provide highly efficient, air-assisted material introduction.
  - Available in 4 heights, from 17 1/2"H to 21 1/8"H; and 4 flange sizes from 6 5/8" x 6 3/4" to 25 1/4 x 12".
  - Valve housing cast in North America; ensures superior strength and solidification of housing’s metallurgy.
  - Cast iron housing.
  - CNC-machined components and housing provide precision tolerances; eliminates axial shaft movement, extends maintenance cycles.
  - Air-sealed shaft extends bearing life; reduces maintenance.
  - Valve housing vent ports.
  - Easily manages pressure differentials up to 20 PSIG.
  - Excellent performance in high-temperature applications up to 500°F.
  - 12-vane rotor with beveled tips and sides.
Product Specifications

DC Series
Rotary Valve for Dust Collection, Feeding, & Metering Applications

The DC Series valves are built to application-specific requirements, including: custom rotor configurations, factory-applied internal coatings, and sanitary materials of construction.

FEATURES

SECTOR INDUSTRIES:
- Plastics
- Pet Food
- Construction
- Food
- Pharmaceutical and Cosmetics
- Chemical

- DC Series
  - Rotary Valve for Dust Collection, Feeding, & Metering Applications
  - Built to application-specific requirements, including: custom rotor configurations, factory-applied internal coatings, and sanitary materials of construction.

INLET/OUTLET FLANGE SIZES:
- 3 sizes from 8" to 12"

MATERIAL OF CONSTRUCTION:
- Cast Iron
- Stainless Steel

PRESSURE DIFFERENTIAL:
- -

HIGH TEMPERATURE RANGE:
- 250°F

SPECIFICATIONS:

- Available in 3 heights, from 10 1/2"H to 15 1/2"H; and 3 square-flange sizes from 8" to 12".
- Valve housing cast in North America; ensures superior strength and solidification of housing's metallurgy.
- CNC-machined components and housing provide precision tolerances; eliminates axial shaft movement, extends maintenance cycles.
- Excellent performance in high-temperature applications up to 250°F.
- Cast iron housing.
- 6-vane rotor with beveled tips and sides.
- Compact, direct-drive motor package.

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# Product Specifications

## DC Series
Rotary Valve for Dust Collection, Feeding, & Metering Applications

### ROTARY VALVE CAPACITY (cubic feet/hour)

<table>
<thead>
<tr>
<th>VALVE SIZE (INCHES)</th>
<th>8</th>
<th>12</th>
<th>60</th>
<th>96</th>
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<table>
<thead>
<tr>
<th>VALVE SIZE (INCHES)</th>
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</table>

**ROTARY SPEED (RPM)**

Capacities shown are based on 100% pocket-fill efficiency. Pocket-fill efficiencies vary by application. To ensure optimal efficiency, contact ACS Valves.
S-Pellet Series
Rotary Valve for Metering, Feeding, and Airlock Applications

For handling of material such as pellets, beads, and granules that require protection from shearing; side inlet with adjustable material flow control ensures accurate rotor pocket filling without material shearing.

FEATURES

- Available in 6 heights, from 14”H to 26”H; and 6 flange diameters from 6” to 16”.

- Valve housing fabricated of mild steel.

- 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 750°F.

- Cast iron housing.

- 8-vane rotor with beveled tips and sides.

SPECIFICATIONS:

<table>
<thead>
<tr>
<th>INLET/OUTLET FLANGE SIZES:</th>
<th>MATERIAL OF CONSTRUCTION:</th>
<th>PRESSURE DIFFERENTIAL:</th>
<th>HIGH TEMPERATURE RANGE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 sizes from 6” to 16”</td>
<td>Cast Iron, Stainless Steel</td>
<td>Up to 15 PSIG</td>
<td>750°F</td>
</tr>
</tbody>
</table>
Product Specifications

**S-Pellet Series**

**OPTIONS**

- 304 or 316 cast stainless steel valve housing.
- 6 square-flange sizes from 6” to 15”.
- RotorRail™ feature provides tool-less access to rotor and internal surfaces; speeds cleaning and inspection; ensures fast, accurate rotor and endplate re-alignment.
- Interior coatings: hard chrome and tungsten.
- Rotor types: closed-end, shallow-pocket, adjustable-tip, and Teflon®-coated.
- Adjustable rotor tip types: EPDM rubber, polyurethane, hardened steel, stainless steel, and bronze.
- Shaft seal types: ACST-4™ glandless Teflon® shaft seal, and packing gland.
- Valve housing vent ports.
- Shaft seal and rotor pocket air purge.
- 10-vane, 12-vane, and custom rotor designs.
- Custom drive packages.
- Application-specific accessories: blow-through adapter, shear plate deflector, surge hopper, motion speed switch assembly.

**ROTOR VALVE CAPACITY** (cubic feet/hour)

<table>
<thead>
<tr>
<th>VALVE SIZE (INCHES)</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
<th>18</th>
<th>20</th>
<th>22</th>
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<tbody>
<tr>
<td>6</td>
<td>14</td>
<td>21</td>
<td>264</td>
<td>317</td>
<td>370</td>
<td>422</td>
<td>475</td>
<td>528</td>
<td>581</td>
</tr>
<tr>
<td>8</td>
<td>26</td>
<td>132</td>
<td>211</td>
<td>264</td>
<td>317</td>
<td>370</td>
<td>422</td>
<td>475</td>
<td>528</td>
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<tr>
<td>10</td>
<td>54</td>
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<td>540</td>
<td>648</td>
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<td>972</td>
<td>1080</td>
</tr>
<tr>
<td>12</td>
<td>84</td>
<td>420</td>
<td>672</td>
<td>840</td>
<td>1008</td>
<td>1176</td>
<td>1344</td>
<td>1512</td>
<td>1680</td>
</tr>
<tr>
<td>14</td>
<td>144</td>
<td>570</td>
<td>912</td>
<td>1140</td>
<td>1368</td>
<td>1596</td>
<td>1824</td>
<td>2052</td>
<td>2280</td>
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<tr>
<td>16</td>
<td>186</td>
<td>930</td>
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<td>1860</td>
<td>2232</td>
<td>2604</td>
<td>2976</td>
<td>3348</td>
<td>3720</td>
</tr>
</tbody>
</table>

**ROTARY SPEED (RPM)**

1  5  8  10  12  14  16  18  20  22

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

**S-Pellet Series**
with Quick-Clean RotorRail™
Rotary Valve for Metering, Feeding and Airlock Applications

**FEATURES**

- For handling of material such as pellets, beads, and granules that require protection from shearing; side-inlet with adjustable material flow control ensures accurate rotor pocket filling without material shearing.

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

- RotorRail™ feature maintains rotor and endplate alignment during dis-assembly; ensures fast and accurate rotor and endplate re-alignment during re-assembly.

- Available in 5 heights, from 14"H to 26"H; and 5 flange diameters from 6" to 14".

- Valve housing fabricated of mild steel.

- 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 750°F.

- Cast iron housing.

- 8-vane rotor with beveled tips and sides.

**SPECIFICATIONS:**

<table>
<thead>
<tr>
<th>INLET/OUTLET FLANGE SIZES:</th>
<th>MATERIAL OF CONSTRUCTION:</th>
<th>PRESSURE DIFFERENTIAL:</th>
<th>HIGH TEMPERATURE RANGE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 sizes from 6&quot; to 14&quot;</td>
<td>Cast Iron, Stainless Steel</td>
<td>Up to 15 PSIG</td>
<td>750°F</td>
</tr>
</tbody>
</table>
## Product Specifications

### S-Pellet Series

with Quick-Clean RotorRail™

#### OPTIONS

- 304 or 316 cast stainless steel valve housing.
- 5 square-flange sizes from 6” to 14”.
- Interior coatings: hard chrome and tungsten.
- Rotor types: closed-end, shallow-pocket, adjustable-tip, and Teflon®-coated.
- Adjustable rotor tip types: EPDM rubber, polyurethane, AR400 steel, stainless steel, and bronze.
- Shaft seal types: ACST-4™ glandless Teflon® shaft seal, and packing gland.
- Valve housing vent ports.
- Shaft seal and rotor pocket air purge.
- 10-vane, 12-vane, and custom rotor designs.
- Custom drive packages.
- Application-specific accessories: blow-through adapter, shear plate deflector, surge hopper, motion speed switch assembly.

### ROTARY VALVE CAPACITY: FLANGE DESIGN (cubic feet/hour)

<table>
<thead>
<tr>
<th>VALVE SIZE (INCHES)</th>
<th>6</th>
<th>14</th>
<th>71</th>
<th>114</th>
<th>142</th>
<th>171</th>
<th>199</th>
<th>228</th>
<th>256</th>
<th>284</th>
<th>313</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>8</td>
<td>26</td>
<td>132</td>
<td>211</td>
<td>264</td>
<td>317</td>
<td>370</td>
<td>422</td>
<td>475</td>
<td>528</td>
<td>581</td>
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<tr>
<td></td>
<td>10</td>
<td>54</td>
<td>270</td>
<td>432</td>
<td>540</td>
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<td>756</td>
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<tr>
<td></td>
<td>12</td>
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<td></td>
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<td>1596</td>
<td>1824</td>
<td>2052</td>
<td>2280</td>
<td>2508</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ROTARY SPEED (RPM)</th>
<th>1</th>
<th>5</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
<th>18</th>
<th>20</th>
<th>22</th>
</tr>
</thead>
</table>

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

Rotary Valve for Metering and Airlock Applications

The BT Series valves ensure optimal bulk density and throughput of hard-to-convey material; a return-side vent vents leaked air, maximizing air flow through the rotor, improving material flow.

**FEATURES**

- 12-vane rotary valve and return-side vent port design significantly reduce air leakage and ensure optimal bulk density and material feed efficiency of hard-to-convey materials.

- Steep-angled inlet flange aids material infeed; improves material flow performance.

- Available in 2 heights, 16.14"H and 18.50"H; and 2 flange diameters, 8" to 10".

- Valve housing cast in North America; ensures superior strength and solidification of housing’s metallurgy.

- 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 20 PSIG.

- Excellent performance in high-temperature applications up to 500°F.

**SPECIFICATIONS:**

<table>
<thead>
<tr>
<th>INLET/OUTLET FLANGE SIZES:</th>
<th>MATERIAL OF CONSTRUCTION:</th>
<th>PRESSURE DIFFERENTIAL:</th>
<th>HIGH TEMPERATURE RANGE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 sizes, 8&quot; and 10&quot;</td>
<td>Cast Iron, Stainless Steel</td>
<td>Up to 20 PSIG</td>
<td>500°F</td>
</tr>
</tbody>
</table>
## OPTIONS

- 304 or 316 cast stainless steel valve housing.
- No. 4 finish on all rotor surfaces.
- Interior coating: hard chrome.
- Adjustable rotor tips.
- Custom drive packages.
- Application-specific accessories: motion speed switch assembly.
**Product Specifications**

**SD Series**
Rotary Valve for Metering and Airlock Applications

**FEATURES**

- Available in 4 heights, from 10"H to 18 1/4"H; and 4 square-flange sizes from 6" to 12".
- This ACS Valves Pre-fit Performance™ Series valve enables simple and fast drop-in replacement of Meyer® type SD rotary valves.
- Valve housing cast in North America; ensures superior strength and solidification of housing’s metallurgy.
- CNC-machined components and housing provide precision tolerances; eliminates axial shaft movement, extends maintenance cycles.
- Excellent performance in high-temperature applications up to 250°F.
- Cast iron housing.
- 6-vane or 8-vane rotor with beveled tips and sides.
- Direct-drive motor package.

**SPECIFICATIONS:**

<table>
<thead>
<tr>
<th>INLET/OUTLET FLANGE SIZES:</th>
<th>MATERIAL OF CONSTRUCTION:</th>
<th>PRESSURE DIFFERENTIAL:</th>
<th>HIGH TEMPERATURE RANGE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 sizes from 6&quot; to 12&quot;</td>
<td>Cast Iron, Stainless Steel</td>
<td>-</td>
<td>250°F</td>
</tr>
</tbody>
</table>

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# Product Specifications

## SD Series

Rotary Valve for Metering and Airlock Applications

### ROTARY VALVE CAPACITY (cubic feet/hour)

<table>
<thead>
<tr>
<th>VALVE SIZE (INCHES)</th>
<th>6</th>
<th>6</th>
<th>30</th>
<th>48</th>
<th>60</th>
<th>72</th>
<th>84</th>
<th>96</th>
<th>108</th>
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<td>8</td>
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<td>122</td>
<td>143</td>
<td>163</td>
<td>184</td>
<td>204</td>
<td>224</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>20</td>
<td>102</td>
<td>163</td>
<td>204</td>
<td>245</td>
<td>286</td>
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<td>367</td>
<td>408</td>
<td>449</td>
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</tr>
<tr>
<td>12</td>
<td>37</td>
<td>183</td>
<td>293</td>
<td>366</td>
<td>439</td>
<td>512</td>
<td>586</td>
<td>659</td>
<td>732</td>
<td>805</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>5</td>
<td>8</td>
<td>10</td>
<td>12</td>
<td>14</td>
<td>16</td>
<td>18</td>
<td>20</td>
<td>22</td>
<td></td>
</tr>
</tbody>
</table>

### ROTARY SPEED (RPM)

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

**FT Series**
Rotary Valve for Feeding and Metering Applications

**SECTOR INDUSTRIES:**
- Plastics
- Pet Food
- Construction
- Food
- Pharmaceutical and Cosmetics
- Chemical

**FEATURES**

- Available in 9 heights, from 13” to 61 1/2”; and 10 flange diameters from 4” to 30”.
- Rotor with flex-tip wiper vanes produces static pressures up to 18” WG.
- EPDM synthetic wiper vanes resist material abrasion; extend maintenance cycles.
- Industrial-duty housing constructed of mild steel; housing sideplate removes for easy access.
- Direct-drive, right-angle gearmotor provides reliable operation.
- Excellent performance in applications up to 200°F.

**SPECIFICATIONS:**

<table>
<thead>
<tr>
<th>INLET/OUTLET FLANGE SIZES:</th>
<th>MATERIAL OF CONSTRUCTION:</th>
<th>PRESSURE DIFFERENTIAL:</th>
<th>HIGH TEMPERATURE RANGE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 sizes from 4” to 30” or custom</td>
<td>Mild Steel, Stainless Steel</td>
<td>Up to 18” WG</td>
<td>500°F</td>
</tr>
</tbody>
</table>

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Product Specifications

FT Series
Rotary Valve for Feeding and Metering Applications

OPTIONS

- Square flange design: available in 9 sizes from 4” to 30”; custom sizes available.
- 304 or 316 stainless steel housing construction.
- Wiper types: polyurethane or EPDM; standard or extended tip; dual-rotor wiper blades.
- High-temperature performance, up to 500°F.
- Custom motor types and configurations.

ROTARY VALVE CAPACITY (cubic feet/hour)

<table>
<thead>
<tr>
<th>VALVE SIZE (INCHES)</th>
<th>4</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
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<tr>
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<td>.64</td>
<td>1.34</td>
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<td>6.2</td>
<td>12.6</td>
<td>21.0</td>
<td>42.4</td>
<td>42.4</td>
</tr>
</tbody>
</table>
Product Specifications

**DTFV Series**
(Discharge Trough Feeder Valve)

Rotary Valve for Feeding and Metering Applications

---

**FEATURES**

- For high-volume material handling applications where short-length screw conveyors or conventional rotary valve material handling capacities are not sufficient.
- Valve housing cast in North America; ensures superior strength and solidification of housing’s metallurgy, prevents housing distortion.
- 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.
- Large shaft diameter eliminates rotor deflection; reduces rotor tip wear and bearing seal leakage.
- ACST-4™ glandless Teflon® shaft seal; reduces maintenance and protects bearings from wear.
- Cast iron housing.
- 6-vane or 8-vane rotor with beveled tips and sides.
- TEFC geared motor, side-wall mounted to valve body; with chain drive and safety enclosure.

---

**SPECIFICATIONS:**

<table>
<thead>
<tr>
<th>INLET/OUTLET FLANGE SIZES:</th>
<th>MATERIAL OF CONSTRUCTION:</th>
<th>PRESSURE DIFFERENTIAL:</th>
<th>HIGH TEMPERATURE RANGE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 sizes, 12” x 24” to 12” x 48”</td>
<td>Cast Iron, Stainless Steel</td>
<td>-</td>
<td>450°F</td>
</tr>
</tbody>
</table>
Product Specifications

**DTFV Series**
(Discharge Trough Feeder Valve)

**OPTIONS**

- Valve housing material types: 304 or 316 cast stainless steel.
- Interior coating: hard chrome.
- Rotor material types: 304 or 316 stainless steel.
- Adjustable rotor tip types: AR400 steel, 304 or 316 stainless steel.
- Direct-drive motor package.

---

**ROTARY VALVE CAPACITY (cubic feet/hour)**

<table>
<thead>
<tr>
<th>VALVE SIZE (INCHES)</th>
<th>12&quot;x24&quot;</th>
<th>12&quot;x36&quot;</th>
<th>12&quot;x48&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>78</td>
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<td></td>
<td>390</td>
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<td>816</td>
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<td>780</td>
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<td>1404</td>
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<td>2700</td>
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<td>1716</td>
<td>2244</td>
<td>2970</td>
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</table>

|                     | 1       | 5       | 8       |
|                     | 10      | 12      | 14      |
|                     | 16      | 18      | 20      |
|                     | 22      |         |         |

<table>
<thead>
<tr>
<th>ROTARY SPEED (RPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>8</td>
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<tr>
<td>18</td>
</tr>
<tr>
<td>20</td>
</tr>
<tr>
<td>22</td>
</tr>
</tbody>
</table>
Gravity Diverter Valve
Y-style Series
For Feeding and Metering Applications

**SECTOR INDUSTRIES:**
- Plastics
- Pet Food
- Construction
- Food
- Pharmaceutical and Cosmetics
- Chemical

**FEATURES**

- 2-way, Y-style, gravity diverter valve provides automated control of bulk material flow direction; improves efficiency of material feeding and loading operations.
- Available in 4 heights, from 16 5/16"H to 24"H, and 4 square-flange sizes from 6" to 12".
- Available in 30-degree or 45-degree outlet angles.
- 10 ga. carbon steel housing construction; heavy-duty carbon steel flappers with neoprene seal strips and carbon steel seats.
- Air control package includes solenoid, fittings, and tubing; pre-assembled and ready for start-up.
- Excellent performance in high-temperature applications up to 500°F.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>INLET/OUTLET FLANGE SIZES:</th>
<th>MATERIAL OF CONSTRUCTION:</th>
<th>PRESSURE DIFFERENTIAL:</th>
<th>HIGH TEMPERATURE RANGE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 sizes from 6&quot; to 12&quot; or custom</td>
<td>Carbon Steel, Stainless Steel</td>
<td>Up to 30&quot; WG</td>
<td>500°F</td>
</tr>
</tbody>
</table>
# Gravity Diverter Valve

For Feeding and Metering Applications

## OPTIONS

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Round flange design</td>
<td>Available in 4 heights, from 24 7/16”H to 31 7/16”H, and 4 flange diameters from 6” to 12”.</td>
</tr>
<tr>
<td>Custom outlet angle construction, specific to application requirement.</td>
<td></td>
</tr>
<tr>
<td>Valve housing and flapper construction: 304 or 316 stainless steel, carbon steel, or aluminum.</td>
<td></td>
</tr>
<tr>
<td>Abrasion-resistant steel flappers.</td>
<td></td>
</tr>
<tr>
<td>Manual actuator.</td>
<td></td>
</tr>
<tr>
<td>Dual, side-access panels for easy reach into internal housing areas; or single, removable back panel.</td>
<td></td>
</tr>
<tr>
<td>NEMA 4 timer; 115-50/60-1 electrical; power-on light; on/off switch; timer configuration to operate up to 6 valves.</td>
<td></td>
</tr>
</tbody>
</table>
CI-RPV Series
Rotary Valve for Feeding and Metering Applications

Rotary plug valve (RPV) design provides highly accurate, controlled feeding of very free-flowing, abrasive, and high bulk density materials; excellent dust control design.

FEATURES

- Rotary plug valve (RPV) design provides highly accurate, controlled feeding of very free-flowing, abrasive, and high bulk density materials; excellent dust control design.

- Air-actuated clam-style rotor enables rapid material flow control and exceptional air handling efficiency in high-pressure differential applications.

- Air control package includes solenoid, fittings, and tubing; pre-assembled and ready for start-up.

- Available in 5 heights, from 10”H to 19”H; and 5 square-flange sizes from 6” to 14”.

- Valve housing and endplates cast in North America; ensures superior strength and solidification of metallurgy; air cylinder mount fabricated of mild steel.

- CNC-machined components and housing provide precision tolerances; eliminates axial shaft movement.

- Heavy-plate chrome interior.

SPECIFICATIONS:

<table>
<thead>
<tr>
<th>INLET/OUTLET FLANGE SIZES:</th>
<th>MATERIAL OF CONSTRUCTION:</th>
<th>PRESSURE DIFFERENTIAL:</th>
<th>HIGH TEMPERATURE RANGE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 sizes from 6” to 14”</td>
<td>Cast Iron, Stainless Steel</td>
<td>-</td>
<td>750°F</td>
</tr>
</tbody>
</table>
CI-RPV Series
Rotary Valve for Feeding and Metering Applications

OPTIONS

- 304 or 316 cast stainless steel valve housing.
- Interior coating: hard chrome.
- Actuator types: electrical or manual.
# Mini 19 Series

Rotary Valve for Feeding and Metering Applications

The Mini 19 Series valves are built to application-specific requirements, including: custom rotor configurations, factory-applied internal coatings, and sanitary materials of construction.

## Features
- Available in 2 heights of 5" and 6"; and 2 square-flange sizes of 2" and 3".
- CNC-machined components and housing provide precision tolerances; eliminates axial shaft movement, extends maintenance cycles.
- 6-vane rotor with beveled tips and sides.
- Metering ranges available for all sizes: .0006 through .0233 CFR.

## Options
- 304 or 316 stainless steel valve housing.
- 2 round-flange diameters of 2" and 3".
- Rotor types: closed-end, metering, shallow-pocket.
- Valve housing vent ports.
- Shaft seal and rotor pocket air purge.
- 4-vane, 8-vane, metering-style rotors.
- Custom drive packages.
- Application-specific accessories:
  - blow-through adapter
  - shear plate deflector
  - surge hopper
  - motion speed switch assembly

## Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Inlet/Outlet Flange Sizes:</th>
<th>Material of Construction:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 sizes, 2&quot; and 3&quot; round or square</td>
<td>Carbon Steel, Stainless Steel</td>
</tr>
</tbody>
</table>
## Double-Flap Valve Series

Rotary Valve for Feeding and Metering Applications

### FEATURES

- **SECTOR INDUSTRIES:**
  - Plastics
  - Pet Food
  - Construction
  - Food
  - Pharmaceutical and Cosmetics
  - Chemical

- **INLET/OUTLET FLANGE SIZES:**
  - 6 sizes from 6" to 16"

- **MATERIAL OF CONSTRUCTION:**
  - Carbon Steel, Stainless Steel

- **PRESSURE DIFFERENTIAL:**
  - Up to 30" WG

- **HIGH TEMPERATURE RANGE:**
  - 500°F

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>VALVE SIZE (INCHES)</th>
<th>ROTARY VALVE CAPACITY (cubic feet/hour)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>50</td>
</tr>
<tr>
<td>8</td>
<td>100</td>
</tr>
<tr>
<td>10</td>
<td>200</td>
</tr>
<tr>
<td>12</td>
<td>350</td>
</tr>
<tr>
<td>14</td>
<td>600</td>
</tr>
<tr>
<td>16</td>
<td>790</td>
</tr>
</tbody>
</table>

- **OPTIONS:**
  - 304 or 316 stainless steel, or special heavy-duty valve housing and flapper construction.
  - Single-flap design.
  - Abrasion-resistant steel flappers
  - NEMA 4 timer; 115-50/60-1 electrical; power-on light; on/off switch; timer configuration to operate up to 6 valves

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

**CDC-CI Series**

Rotary Valve for Metering, Feeding, and Airlock Applications

**Features**

- Available in 3 heights, from 16 1/2” to 25”; and 3 flange diameters from 8” to 12”.
- This ACS Valves Pre-fit Performance™ Series valve enables simple and fast drop-in replacement of Carter Day® type CI rotary valves.
- Large housing barrel enables 3-times more material throughput (CFR) than conventional valve housings with same flange opening.
- Valve housing cast in North America; ensures superior strength and solidification of housing’s metallurgy.
- CNC-machined components and housing provide precision tolerances; eliminates axial shaft movement, extends maintenance cycles.
- Easily manages pressure differentials up to 15 PSIG.
- Excellent performance in high-temperature applications up to 500°F.
- Cast iron housing.
- 8-vane rotor, complete with beveled tips and sides.
- Unique shaft seal design results in lowered maintenance and downtime costs.
- Round flanges aid material flow, improve cleaning.

**Specifications**

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Inlet/Outlet Flange Sizes:</th>
<th>Material of Construction:</th>
<th>Pressure Differential:</th>
<th>High Temperature Range:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 sizes from 8” to 12”</td>
<td>Cast Iron, Stainless Steel</td>
<td>Up to 15 PSIG</td>
<td>500°F</td>
<td></td>
</tr>
</tbody>
</table>

acsvalves.com  •  905-765-2004  •  611 Argyle Street, North  •  Caledonia, Ontario N3W 1M1  •  Canada  ©Copyright 2024 ACS Valves
## Options

<table>
<thead>
<tr>
<th>CDC-CI Series Options</th>
<th>Other Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>- 304 or 316 cast stainless steel valve housing.</td>
<td>- Valve housing vent ports.</td>
</tr>
<tr>
<td>- Interior coatings: hard chrome, tungsten, and nickel.</td>
<td>- 6-vane, 10-vane, or 12-vane rotor.</td>
</tr>
<tr>
<td>- Rotor types: closed-end, shallow-pocket, adjustable-tip, and Teflon®-coated.</td>
<td>- Direct-drive and custom drive packages.</td>
</tr>
<tr>
<td>- Shaft seal types: ACST-4™ glandless Teflon® shaft seal, and packing gland.</td>
<td></td>
</tr>
</tbody>
</table>
**Sanitary CDC-CI Series**

**Rotary Valve for Metering/Feeding and Airlock Applications**

The Sanitary CDC-CI series drop-in valve is designed for applications that require very high-volume material throughput. It features an enlarged housing barrel and comes in cast-iron, 304 or 316 stainless steel for increased sanitation.

### FEATURES

- **304 or 316 stainless steel valve housing, cast in North America, ensures superior housing solidification and metallurgy; eliminates pits and dimples where contaminants could accumulate.**

- **This ACS Valves Pre-fit Performance™ Series valve enables simple and fast drop-in replacement of Carter Day® type CI rotary valves.**

- **Large housing barrel enables 3-times more material throughout (CFR) than conventional valve housings with same flange opening.**

- **Product contact surfaces of the housing, and all rotor surfaces, are a No. 4 finish.**

- **Available in 3 heights, from 16 1/2" to 25"; and 3 flange diameters from 8" to 12".**

- **Valve housing cast in North America; ensures superior strength and solidification of housing’s metallurgy.**

- **CNC-machined components and housing provide precision tolerances; eliminates axial shaft movement, extends maintenance cycles.**

- **Easily manages pressure differentials up to 15 PSIG.**

- **Excellent performance in high-temperature applications up to 500°F.**

- **8-vane rotor, complete with beveled tips and sides.**

- **Unique shaft seal design results in lowered maintenance and downtime costs.**

- **Round flanges aid material flow, improve cleaning.**

### SPECIFICATIONS:

<table>
<thead>
<tr>
<th>INLET/OUTLET FLANGE SIZES:</th>
<th>MATERIAL OF CONSTRUCTION:</th>
<th>PRESSURE DIFFERENTIAL:</th>
<th>HIGH TEMPERATURE RANGE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 sizes from 8&quot; to 12&quot;</td>
<td>Stainless Steel</td>
<td>Up to 15 PSIG</td>
<td>500°F</td>
</tr>
</tbody>
</table>
## Sanitary CDC-CI Series

### OPTIONS

- No. 4 finish on internal product contact surfaces of housing, and all rotor surfaces.
- Rotor types: closed-end, shallow-pocket, and Teflon®-coated.
- Shaft seal types: ACS T-4™ glandless Teflon® shaft seal, and packing gland.
- Valve housing vent ports.
- 6-vane, 10-vane, or 12-vane rotor.

- Direct-drive and custom drive packages.
- Application-specific accessories: blow-through adapter, shear plate deflector, surge hopper, motion speed switch assembly.
Micro-ingredient Valve

Low capacity metering for bulk ingredients

The micro-ingredient valve from ACS Valves is designed for testing pilot conveying equipment, and for accurately metering small amounts of fine-grained material into larger batches.

FEATURES

- Mild Steel, 4140, Aluminum or Stainless construction
- Round inlet & outlets standard
- Metering style rotors only
- Lip seal type shaft seal
- 0.16 HP Direct drive package
- Rotor pocket purge connection
- Rounded rotor pockets
- Metering ranges available for all sizes: .0005 through .00238 CFR
- Airlock
- Direct-drive arrangement
- Compact design
- Accurate rates
- Easy installation

SPECIFICATIONS:

<table>
<thead>
<tr>
<th>INLET/OUTLET FLANGE SIZES:</th>
<th>MATERIAL OF CONSTRUCTION:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5&quot; to 3&quot;</td>
<td>Aluminium, Stainless Steel</td>
</tr>
</tbody>
</table>
# Micro-ingredient Valve

Low capacity metering for bulk ingredients

## OPTIONS

| • High temperature designs, bearings, seals & clearances |
| • Housing vent port |
| • 1 1/2", 2", 2 1/2" and 3" inlet and outlet available |
| • Tungsten-coated rotor |

| • Square inlet |
| • Sanitary grade |
| • Open-pocket rotor |
| • Chain drive for 20 RPM output |
| • Tungsten-coated interior |

## VALVE SIZE (inches)

| 1.5" |
| 2" |
| 2.5" |
| 3" |
Iris Gravity Valve

Manual control for gravity-flow applications

Control the flow of powders, granules, flakes, crystals and more in production equipment like bulk bag unloaders, hoppers, bins, dryers, blenders and vertical pipe lines.

**Features**

- Available in 8 sizes, from 4” to 18”.
- Double-locking diaphragm rotates 180 degrees for added security.
- Fixed bottom flange allows for easy use in down-line equipment.
- Polyurethane-coated nylon diaphragm.

**Options**

- Available in aluminum alloy and stainless steel.

**SPECIFICATIONS:**

<table>
<thead>
<tr>
<th>DIAPHRAGM MATERIAL:</th>
<th>MATERIAL OF CONSTRUCTION:</th>
<th>SIZE RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PU-coated Nylon</td>
<td>Aluminum Alloy, Stainless Steel</td>
<td>8 sizes from 4” to 18”</td>
</tr>
</tbody>
</table>