Use a Morse Drum Cone to Control Dispensing of Dry Materials

Replace your drum lid with a properly sized Morse Drum Cone and Clamp Collar to control dispensing operation by turning your drum into a precise pouring instrument. Morse Drum Cones are designed for controlled dispensing of dry powdered or granulated material, and to reduce dust while discharging. Dispensing can be controlled and stopped with a slide gate or iris valve. Attaching a Morse drum cone to your drum extends the reach of the pour by up to 15.5” (39.4 cm). This can be critical when you need to reach beyond obstructions to reach your container.

Morse Drum Cones have a 6” (15.24 cm) discharge opening, and are available for standard 30 and 55-gallon (114 and 210 liter) steel drums, and various diameter fiber drums. Specify 45°, 60° angle, or asymmetric drum cone. Choose cone made of carbon steel, or finished type 304 stainless steel. 45° and 60° carbon steel cones for 55-gallon (210 liter) drum are seamless. All other sizes, and asymmetric and all stainless steel cones are welded. Welds are not ground or polished. Each cone has a neoprene gasket on the flange that comes in contact with the drum rim. Carbon steel cone interior is treated with a rust inhibitor.

Drum Cones with valve flange allow you to attach an Iris Valve or Slide Gate. You may also select a Drum Cone with just a 6” discharge opening to suit the type of product dispensed. See model # selection guide on page 2, and Full list of model numbers online.

Asymmetric Drum Cones
- Only Asymmetric (off-center) Drum Cones can be used with standard Kontrol-Karriers.
Recommended for powdered material, but NOT for coarse granulated products.

Install Slide Gate Kit # SG on carbon steel Drum Cone valve flange.
Install Stainless Steel Slide Gate Kit # SG-SS on Stainless Steel Drum Cone valve flange.

Install aluminum bodied Iris Valve Kit # IV for controlling the flow of fine and coarse materials. The operator revolves the handle around the valve to open and close the flexible sleeve. A wide range of fine to coarse materials can be handled without clogging the iris valve.

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Drum Cone Selection Guide

Select a Drum Cone

1. **Cone Material**: Choose stainless steel (SS), or leave blank for regular steel painted blue.

2. **Valve Flange**: Choose Valve Flange (VF), leave blank for 6" (15.24 cm) opening with NO flange.

3. **Angle of Cone**: Choose 45° or 60° based on flow characteristics of material in your drum and height restrictions within your application. Choose 90° for Asymmetric drum cones with off-center 6" discharge opening.

4. **Size #**: Determine Cone Size #
   A. Identify drum type (steel or fiber).
   B. Measure the top rim outside diameter of your drum.
      I. Remove your drum lid before measuring.
      II. Measure outside diameter across the rim at several points.
      III. Calculate the average rim outside diameter.
   C. Select the Cone Size # for your drum type and rim diameter.

Steps to Select Drum Cone Model #

<table>
<thead>
<tr>
<th>Cone Model #</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cone Model #</td>
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<td></td>
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Key to Cone Model Numbers

<table>
<thead>
<tr>
<th>Cone Series #</th>
<th>Cone Material</th>
<th>Valve Flange?</th>
<th>Angle of Cone</th>
<th>Size #</th>
</tr>
</thead>
</table>

Example: 5 SS - VF - 45 - 23

Clamp Collar Selection Guide

Select the Matching Clamp Collar

1. **Collar Material**: Choose stainless steel (SS) or regular steel.
2. **Size #**: Select Size # corresponding to the Size # of your cone.

Steps to Select Clamp Collar Model #

<table>
<thead>
<tr>
<th>Clamp Collar Model #</th>
<th>1</th>
<th>2</th>
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<tbody>
<tr>
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Key to Clamp Collar Model #

<table>
<thead>
<tr>
<th>Drum Type</th>
<th>Drum Rim Diameter (You Measure)</th>
<th>Collar Series #</th>
<th>Collar Material</th>
<th>Size #</th>
</tr>
</thead>
</table>

Example: 7 SS - 23

Valves to Fit Drum Cone with Valve Flange
- Kit # IV = Aluminum Bodied Iris Valve
- Kit # SG = Slide Gate
- Kit # SG-SS = Stainless Steel Slide Gate

 NOTE: Customized cones to fit a non-standard drum size or type can be ordered as Model SS, but are not in this chart. Custom Clamp Collars are available as Model 7S.
Drum Cones and Clamp Collars

Drum Cone Dimensions
Each Morse Drum Cone has a 6” (15.24 cm) diameter discharge opening.

45° or 60° Cone with Valve Installed

Asymmetric Drum Cone with Valve Installed

<table>
<thead>
<tr>
<th>Approximate Height of Drum Cones</th>
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<tbody>
<tr>
<td>Size #</td>
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<tr>
<td>17</td>
</tr>
<tr>
<td>15.5</td>
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</tbody>
</table>

Measure Drum Rim Outside Diameter

Please contact your Morse dealer

morsedrum.com
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