

Drum Cones and Clamp Collars

Control Dispensing of Dry Materials from Your Drum

Model # 5-VF-45-23 with Kit # IV installed

Drum Cone with 45° angle, size # 23 for 23-3/8" (59.4 cm) drum rim O.D., and Iris Valve (kit # IV) installed. Clamp Collar (model # 7-23) secures cone to drum.



- Use your drum for controlled dispensing
- Greatly reduce dust when discharging dry materials
- Quickly start and stop dispensing with slide gate or iris valve
- Extend the reach of pour

Use a Morse Drum Cone to Control Dispensing 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. Add a Morse Fork-Lift Karrier or Vertical-Lift Drum Pourer (shown right) and you're ready to pour. Morse Drum Cones are designed for controlled dispensing of dry powdered or granulated material and to reduce dust while discharging. Dispensing can be stopped almost instantly 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 at the receiving container.



Applications for Drum Cones

Drum Cones and Clamp Collars are ideal for use with several different series of Morse drum handlers. Stainless steel drum cone with Iris Valve and Clamp Collar (model # 5SS-VF-45-23)

with Iris Valve (kit # IV) and Clamp Collar (model # 7SS-23)

is shown below on a fiber drum being lifted with Model 520-114 Vertical-Lift Drum Pourer. Drum Cones can be used with all Morse Vertical-Lift Drum Pourers, Fork-Lift Karriers, and also with Hydra-Lift Karriers.

Only asymmetric drum cones can be used with standard Morse below-hook drum karriers. Custom model # 185S-LA Below-Hook Kontrol-Karrier is available with longer arms to provide the increased clearance required for rotating a drum with cone attached.

Morse Drum Cones have a 6" (15.24 cm) discharge opening, and are available for standard 30 and 55-gallon steel drums, and various diameter fiber drums. Specify 45°, 60° angle, or asymmetric drum cone. Choose cone made of carbon steel, or electro-polished type 304 stainless steel. 45° and 60° carbon steel cones for 55-gallon drum (size 23) are seamless. Asymmetric and all stainless steel cones, all other sizes are welded. Welds are not ground or polished. Each cone is supplied with 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 (kit # IV), Slide Gate (kit # SG), or Stainless Steel Slide Gate (kit # SG-SS). Or select a Drum Cone with just a 6" discharge opening to suit the type of product dispensed. Model # selection guide on side 2. [Full list of model numbers online.](#)



Asymmetric Drum Cones

Asymmetric drum cones can be used with many standard Morse models, including [Below-Hook Kontrol-Karriers](#), that lack sufficient clearance within the frame for a 45° or 60° cone.



Stainless Steel Drum Cone (model # 5SS-VF-60-23) with Iris Valve (kit # IV) installed.

Cone size # 23 fits drum rim of 23-3/8" (59.4 cm) outside diameter.



Stainless Steel Asymmetric Drum Cone (model # 5SS-VF-90-23) with Slide Gate (kit # SG-SS) installed.



Stainless Steel Asymmetric Drum Cone (model # 5SS-VF-90-23) with Iris Valve (kit # IV) installed. Clamp Collar (model # 7-23) secures cone to drum.

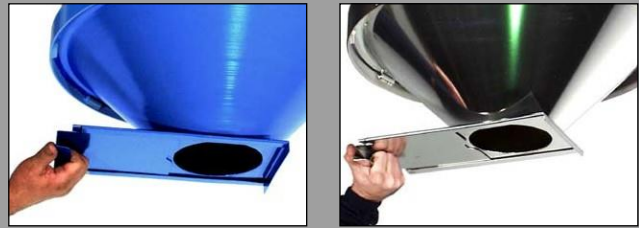
Drum Cones and Clamp Collars

Iris Valve Kit



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.

Slide Gate Valve Kits



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.

Extension Tubes



Asymmetric Drum Cone - Model 5-VF-90-23

Clamp Collar to secure cone to drum - Model 7-23

Iris Valve to control material flow - Model IV

5" (12.7 cm) Extension Tube - Model XT

Also available: 5" Stainless Steel Extension Tube as model XT-SS (not shown).

Note: Extension Tubes ONLY fit onto a valve flange or an Iris Valve. They are NOT for use with a Slide Gate.

Morse Clamp Collars to secure the Drum Cone to your drum



Model 7-23 Clamp Collar carbon steel painted blue, size # 23



Model 7SS-20 Clamp Collar made of type 304 stainless steel, size # 20

Order a Clamp Collar to secure the cone in position onto the top of your drum. When ordering cones or clamp collars, please specify the outside diameter of the top drum rim. Remove the drum lid and take several measurements across the rim at various points and calculate the average. See selection guide below.

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Drum Cones and Clamp Collars

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Drum Cone Selection Guide

Select a Drum Cone

- Cone Material:** Choose stainless steel (SS), or leave blank for regular steel painted blue.
- Valve Flange:** Choose Valve Flange (VF), leave blank for 6" (15.24 cm) opening with NO flange.
- 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.
- Size #:** Determine Cone Size #
 - Identify drum type (steel or fiber).
 - Measure the top rim outside diameter of your drum.
 - Remove your drum lid before measuring.
 - Measure outside diameter across the rim at several points.
 - Calculate the average rim outside diameter.
 - Select the Cone Size # for your drum type and rim diameter.

Steps to Select

Drum Cone Model # → 1 2 3 4
Cone Model # - - -

Clamp Collar Selection Guide

Select the Matching Clamp Collar

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

Steps to Select

Clamp Collar Model # → 1 2
Clamp Collar Model # -

Key to Cone Model Numbers

	Cone Series #	Cone Material	Valve Flange?	Angle of Cone	Size #
Example:	5	SS	- VF	- 45	- 23
		SS = Stainless Steel Blank = Regular Steel	VF = Valve Flange Blank = No Flange	45 = 45° Angle 60 = 60° Angle 90 = Asymmetric	23
					21.5
					20
					19
					18.5
					17
					15.5

NOTE: Customized cones to fit a non-standard drum size or type can be ordered as Model 5S, but are not in this chart. Custom Clamp Collars are available as Model 7S.

Fits Drum

Drum Type	Drum Rim Diameter (You Measure)
55-Gal. Steel or Fiber	23-3/8" (59.5 cm)
Fiber	21-7/8" (55.6 cm)
Fiber	20-3/8" (51.75 cm)
30-Gal. Steel	19-1/8" (48.6 cm)
Fiber	18-7/8" (47.9 cm)
Fiber	17.375" (44.1 cm)
Fiber	15-7/8" (40.3 cm)

Key to Clamp Collar Model

Collar Series #	Collar Material	Size #
Example: 7	SS	- 23
	SS = Stainless Steel Blank = Regular Steel	23
		21.5
		20
		19
		18.5
		17
		15.5

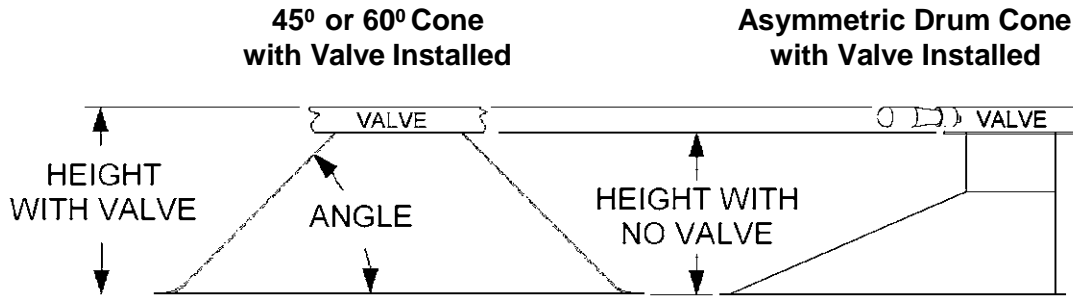
Valves to Fit Drum Cone with Valve Flange

- Kit # IV = Aluminum Bodied Iris Valve
- Kit # SG = Slide Gate
- Kit # SG-SS = Stainless Steel Slide Gate

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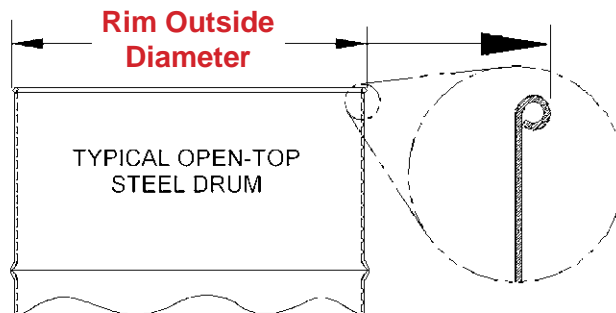
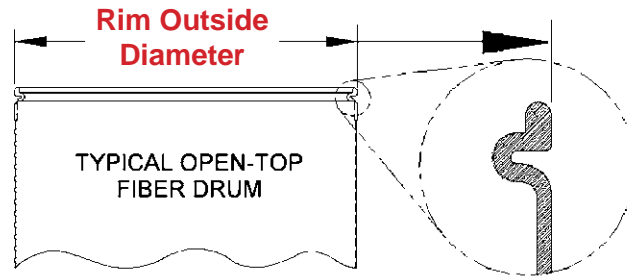
Drum Cone Dimensions

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



Approximate Height of Drum Cones						
Size #	45° Angle Drum Cone		60° Angle Drum Cone		Asymmetric Drum Cone	
	Height with No Valve	Height with Valve	Height with No Valve	Height with Valve	Height with No Valve	Height with Valve
23	8" (20.3 cm)	9.5" (24.1 cm)	14" (35.6 cm)	15.5" (39.4 cm)	11" (27.9 cm)	12.5" (31.75 cm)
21.5	7.5" (19.1 cm)	9" (22.9 cm)	12.5" (31.75 cm)	14" (35.6 cm)	11" (27.9 cm)	12.5" (31.75 cm)
20	7" (17.8 cm)	8.5" (21.6 cm)	11.5" (29.2 cm)	13" (33 cm)	11" (27.9 cm)	12.5" (31.75 cm)
19	6" (15.24 cm)	7.5" (19.1 cm)	10.5" (26.7 cm)	12" (30.5 cm)	11" (27.9 cm)	12.5" (31.75 cm)
18.5	6" (15.24 cm)	7.5" (19.1 cm)	10" (23.5 cm)	11.5" (29.2 cm)	11" (27.9 cm)	12.5" (31.75 cm)
17	5.5" (14 cm)	7" (17.8 cm)	9" (22.9 cm)	10.5" (26.7 cm)	11" (27.9 cm)	12.5" (31.75 cm)
15.5	4.5" (11.4 cm)	6" (15.24 cm)	7.5" (19.1 cm)	9" (22.9 cm)	11" (27.9 cm)	12.5" (31.75 cm)

Measure Drum Rim Outside Diameter



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