

HOPPERS

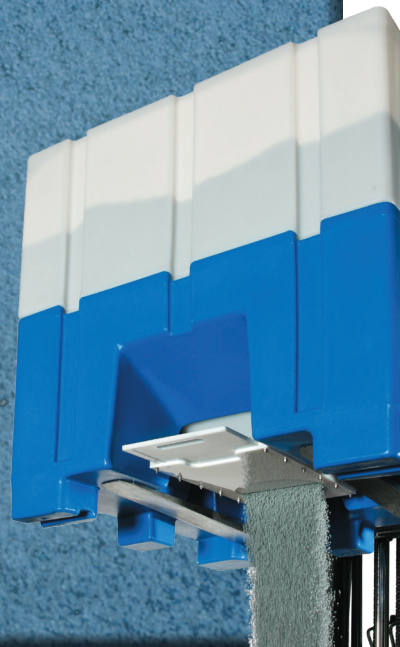


*High Performance Hoppers
for the Food and
Pharmaceutical Industries*



 **BONAR**[®]
PLASTICS
MATERIAL HANDLING SOLUTIONS

www.bonarplastics.com



Different products have different flow characteristics. Our versatile line of bottom and side discharge hoppers provide a large variety of flow options. Constructed of FDA compliant, chemical-resistant polyethylene, these rugged hoppers are impressively durable yet less expensive than stainless steel. Smooth bottle interiors allow for easy material flow. Lightweight designs are easy to move and transport. Ergonomically-convenient slidegate allows access without having to reach under hopper. Our lightweight, 2-piece design is easy to move and transport, even with large loads.



Bottom Discharge Hoppers

All plastic, one-piece molded hoppers with separate double-wall base for foods, chemicals and pharmaceuticals. All plastic construction is much lighter than conventional metal hoppers and eliminates metal corrosion. Top-filling opening and bottom discharge allows fast filling and dispensing of bulk powders, granulars and tablets. Rotomolded of heavy duty polyethylene for toughness, durability and weight advantages.

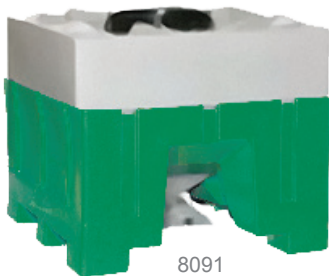
8090, 8091, 8092

Bottom Discharge Hopper – 45° Discharge Angle

- All plastic hopper with separate, double-wall base
- Lighter weight than conventional metal hoppers
- Eliminates metal corrosion
- Top-fill opening and bottom discharge allow fast filling and dispensing
- Innovative design permits access to valve without reaching under hopper
- Optional built-in label holder
- 4-way forklift or pallet truck entry
- Removable top allows easy loading and clean-up
- Closed top prevents moisture absorption
- Extra thick corners and floor resist impact and wear
- Stackable 2-high with maximum 2,000 lbs / 907 kg



8090 – Open, removable Top



8091



8092 – Closed Top



8095 – Closed Top

8091 – Open or Closed Top		
DIMENSIONS (INCHES/CENTIMETERS)		METRIC
Length	44	112
Width	44	112
Height	40	102
Inlet	Open or Closed Top w/16"	
Outlet	6	15.24
Volume	Cubic feet	20
	Lbs / kg	2,000 / 907
Tare weight (Lbs / Kg)	140	64

8090 – Open Top		
DIMENSIONS (INCHES/CENTIMETERS)		METRIC
Length	44	112
Width	44	112
Height	50	127
Inlet	Open top	
Outlet	10	25.4
Volume	Cubic feet	32
	Lbs / kg	2,000 / 907
Tare weight (Lbs / Kg)	195	88.5

8095 – Closed Top		
DIMENSIONS (INCHES/CENTIMETERS)		METRIC
Length	44	112
Width	44	112
Height	60	152.4
Inlet	Closed top w/22"	
Outlet	10	25.4
Volume	Cubic feet	46
	Lbs / kg	2,000 / 907
Tare weight (Lbs / Kg)	250	113.4

8092 – Closed Top		
DIMENSIONS (INCHES/CENTIMETERS)		METRIC
Length	44	112
Width	44	112
Height	50	127
Inlet	Closed top 16"	
Outlet	6	15.24
Volume	Cubic feet	27
	Lbs / kg	2,000 / 907
Tare weight (Lbs / Kg)	175	79

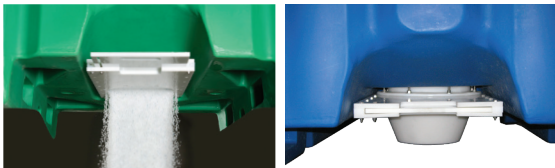


Solving specific applications depends upon correctly analyzing the material to be handled, the capacity needed and the slope and size of opening required. Consult our sales representatives for assistance in selecting the correct hopper for your application.

8096 Bottom Discharge Hopper – 45° Discharge Angle

- 8"-12" Discharge opening
- Larger 48 x 48 footprint
- Increased capacity, 35 or 45 cu.ft.
- 45° Slope
- Stackable 2-high
- 4-way forklift / pallet jack entry
- Single-wall bottle, double-wall base
- Eliminates metal corrosion
- Reduces tare weight
- Replaceable parts

8096-1		
DIMENSIONS (INCHES/CM)		METRIC
Length	48	122
Width	48	122
Height	52	132
Inlet	Open top	
Outlet diameter	12	30.5
Volume	Cubic feet	35
	Lbs / kg	2,000 / 907
Tare weight	235	106.6
8096-2		
Length	48	122
Width	48	122
Height	64	162
Inlet	Open top	
Outlet diameter	12	30.5
Volume	Cubic feet	45
	Lbs / kg	2,000 / 907
Tare weight	285	129.25



Standard 12" adjustable flow discharge

Optional 8" discharge

New - 45 Degree One Piece Hopper



Features:

- 8" Discharge opening.
- Smooth interior has no seams or ledges.
- Easy to sanitize.
- 4 way forklift -2 way pallet jack entry.
- Stacks up to 4 high.
- Replaceable abrasion resistant polypropylene wear pads.
- Rounded corners.
- 5" x 7" acrylic card holder on 2 sides.
- Stainless steel slide gate accessible from 2 sides.
- Optional casters available.
- Manufactured with FDA compliant LLDPE polyethylene.



Smooth interior



Optional casters

Specification:

Dimension: 48" x 48" x 52"
Capacity: 35 cubic ft., 2000 lbs. stacked 2 high
Tare Weight: 201 lbs. w/lid

Sanitary Hopper Bins

Ideal for Food and Pharmaceutical Applications



- All plastic HDPE construction.
- Seamless, smooth interior surface provides excellent flow characteristics and is easy to clean.
- Large, non-threaded 22" opening for container access.
- HDPE cover with lever lock clamp ring design and full food grade gasket.
- Translucent bin enables users to monitor material usage through the tank wall without ancillary equipment.
- Unique sanitary seamless discharge bottom outlet is compatible with a variety of sanitary valves.



Smooth, clean top provides a more sanitary surface.



Unique sanitary lid offers a simple, lever-lock clamp ring design.



Snyder provides multiple fitting options to satisfy all your discharge requirements, including Iris, Butterfly, Slide Gates, and Sanitary Valves.

Sanitary Viscous Liquid Handling

Sanitary Viscous Liquid Handling for a Variety of Industries that handle viscous liquids in a sanitary environment.



- All Plastic HDPE construction.
- Complies with applicable FDA, NSF and USDA standards.
- Seamless, smooth interior surface provides excellent flow characteristics and is easy to clean.
- Large, non-threaded 22" opening for container access.
- HDPE cover with lever lock clamp ring design and full food grade gasket.
- Translucent bin enables users to monitor material usage through the tank wall without ancillary equipment.
- Unique sanitary seamless discharge bottom outlet is compatible with a variety of sanitary valves.
- Ideal for food products, lotions, cremes, pigments, flavorings, toothpastes, and much more.
- Stackable Design.

Bin Size	Dimension A
190 Gal.	54.75"
300 Gal.	67"
375 Gal.	76.25"
450 Gal.	83.75"
600 Gal.	100.5"



Sanitary, quick removable, non-bolted type outlet.

Flowmaster

bin and silo systems



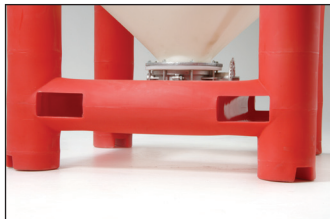
Multiple Top-Opening options
in sizes up to 22" or a complete open-top.

Lifting/Stacking Alignment Lugs
provide top lifting capability and enables containers to be stacked easily and safely.

Proprietary Company Logo or Product Information can be permanently embossed within the container sidewall.

1/2" Nominal Wall Thickness
in tank and base provides superior resistance to impacts and environmental stress cracking.

45° or 60° Standard Hopper Angles- other hopper angles available upon request.



Translucent Polyethylene Bottle
allows users to view material usage through tank wall without using level indicator.

Dimension "A" 45° Hopper
Dimension "B" 60° Hopper

HDPE Material Construction

- Eliminates corrosion and the associated maintenance costs.
- Complies with applicable FDA, NSF, and USDA standards

UN/DOT Certified IBCs
(pending) for use in the transportation of hazardous materials.

Multiple Discharge Openings - 4", 8" 10" 12" and other custom sizes.

Multiple Valve Options - including:

- Butterfly valve
- Sanitary Butterfly valve
- Iris valve
- Slide Gate
- Other

Bin Size	Dimension A 45°	Bin Size	Dimension B 60°
25 Cubic Feet	56.00"	30 Cubic Feet	70.25"
40 Cubic Feet	68.50"	48 Cubic Feet	82.75"
50 Cubic Feet	77.25"	58 Cubic Feet	91.50"
60 Cubic Feet	85.75"	68 Cubic Feet	100.00"
80 Cubic Feet	101.75"	-	-

Bin capacities are based on water-filled capacity.

Other custom sizes, hopper angles and dimensions available upon request.

Side Discharge Hoppers

8087, 8089

Side Discharge Hopper – Closed Top

Typically applicable to tableting operations

- 25° discharge angle and 6" opening
- Base design allows 2-way forklift / pallet jack entry
- Simplified valve system
- Stackable 3-high full
- Iris valve or slidegate discharge valve accessory available



8089 – Closed Top

8087 – Closed Top		
DIMENSIONS (INCHES/CENTIMETERS)		METRIC
Length	40	122
Width	48	107
Height	38	97
Inlet	Closed top 16"	
Outlet	6"	15.24
Volume	Cubic feet	18
	Lbs / kg	2,000 / 907
Tare weight (Lbs / Kg)	175	79

8089 – Closed Top		
DIMENSIONS (INCHES/CENTIMETERS)		METRIC
Length	40	122
Width	48	107
Height	40.5	102
Inlet	Closed top 16"	
Outlet	6"	15.24
Volume	Cubic feet	20
	Lbs / kg	2,000 / 907
Tare weight (Lbs / Kg)	175	79



Steel Material Handling Hopper Bins

Available in both Carbon and Stainless, Bonar offers steel hopper bins that are the perfect bulk handling solution for a variety of applications. Bonar's steel IBC hopper bins are fabricated with some of the most sophisticated manufacturing automation available. This state-of-the-art robotic manufacturing process ensures consistent high weld quality and assurance of container integrity. Steel bins can be configured to meet the most stringent design requirements.

Capacity	Overall Height	Hopper Angle
30 Cubic Feet	47.38"	45°
45 Cubic Feet	62.13"	45°
62 Cubic Feet	74.81"	45°
78 Cubic Feet	88.5"	45°

