



Control and Metering Limited

6500 Kestrel Road,
Mississauga, ON
L5T 1Z6
telephone: 1-800-736-5739
email: sales@controlandmetering.com
or visit us on the web at:
www.controlandmetering.com



Flo Series discharger with gum rubber dust membrane.

Discharge difficult flowing ingredients from bulk bags

FLO SERIES DISCHARGERS EMPTY DIFFICULT FLOWING INGREDIENTS FROM BULK BAGS AND PROVIDE A VERY HIGH LEVEL OF DUST CONTAINMENT.

Flo Series dischargers are suitable for poor flowing and dusty ingredients that require maximum flow inducement to completely empty bulk bags. Lined or unlined bags with outlet spouts, porthole outlets or plain bottoms can be emptied.

The Flo Series dischargers feature a 60°-sloped hopper with a vibrator. The combination of the steep sloped hopper and pulsed vibration is extremely effective in completely emptying poor flowing ingredients.

For example, various metal oxides, cocoa/chocolate mixes and TiO₂ are discharged from Flo Series dischargers with consistently excellent results.

The Flo Series dischargers feature a gum rubber dust membrane and two 4" diameter dust extraction vents. When the bag is lowered into the hopper it forms a seal with the dust membrane enclosing the bottom of the bag. The dust vents (150 cfm each port) keep the enclosed hopper area under negative pressure to

extract dust-laden air. The hopper outlet is designed to seal against the bag outlet spout preventing blowback into the hopper during discharge. These features provide an extremely high level of dust containment.

The Flo Series dischargers are easy to use, provide a high level of dust containment and can discharge any ingredient.

Feature	Function	Benefit
60° sloped hopper with vibration.	The bulk bag is held safely and is forced to take a conical shape. The vibrator is pulsed on and off during discharge.	The sloped hopper and pulsed vibration are very effective in discharging poor flowing ingredients.
Dust membrane, dust extraction vents, outlet sized to the bag outlet spout.	The dust membrane seals around the bag. The dust vents create a negative pressure in the hopper. The outlet spout seals with the discharger outlet.	The combination of features provides a very high level of dust containment.
Large hopper access door located at chest level.	The bottom of the bag is accessed through the large hopper door.	The bag is safely supported when untying and retying the outlet. The Flo Series dischargers are very easy to use.

Specifications

Available models:

Discharger Model	Outlet Spout	Liner	Comments
Flo Spout (FS)	✓		Unlined bag with outlet spout
Flo Liner (FL)	✓	✓	Lined bag with outlet spout
Flo Clean (FC)		✓	Lined bag with porthole outlet
Flo Knife (FK)			Unlined bag with plain bottom

Bag loading:

Dischargers can be loaded with a forklift, an in-plant hoist system or an integral I-beam (monorail) system.

Discharger support frame:

- Mild steel finished with STEEL IT® polyurethane over one coat of primer.
- 3" square tubing for forklift and hoist loaded frames.
- 4" square tubing for monorail style dischargers.

Discharger hopper:

- Mild steel painted with STEEL IT® polyurethane over one coat of primer. Stainless steel hoppers are available with a variety of finishes.
- Flo Series hoppers include a natural gum rubber dust membrane. A food grade white Nitrile membrane is available.

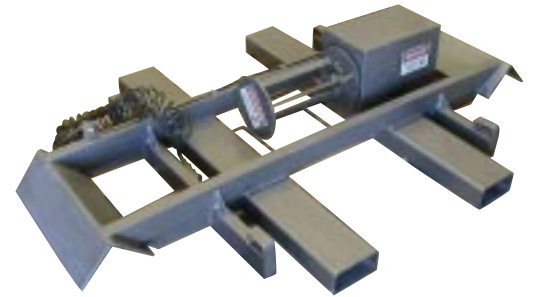
Bag rigging frame:

Mild steel painted with STEEL IT® polyurethane over one coat of primer. Stainless steel rigging frames are available.

Liner tensioners:

The Flo Liner and Flo Clean include the patented pneumatic rack and pinion liner tensioner that winds up 24" of liner during discharge to prevent the liner from discharging with the ingredient and to ensure that the liner is completely emptied.

Electrical: Vibrator: 460 or 575 VAC, 3 PH, 60 HZ, TENV.



Pneumatic liner tensioner



Flo Clean discharger