

B. W. SINCLAIR INFORMATION UPDATE

MASS-FLOW HOPPER FEEDER METERS LIGHTWEIGHT PLASTIC FLAKE

SINCLAIR has recently furnished a Mass-Flow Feeder Hopper Combination unit to an international plastics concern for one of their domestic facilities. The unit stores and meters 3-5 lb/cu. ft. flat plastic flake that is then recycled into the manufacturing process.



The hopper top is fitted with a tube-in-tube stainless expansion collar sheathed with a Pyratex™ high-temperature silicone-fiberglass flexible sleeve to accommodate unequal thermal expansion. The single offset round-to-rectangular hopper mates to a BWSI Series 200 Mass-Flow Volumetric Screw Feeder

The center band is the base of the lug support system, as the hopper hangs suspended between two floors at the job site. The six (6) nozzles shown on the side are for steam injection to prevent heat loss before the screw feeder discharges the product to an extruder. The top ports are fitted with flush-mount plugs for future use. Identical ports are located on the opposite side.

The entire assembly is constructed from AISI-304LSS. All product contact welds are continuous and ground to remove unusual ripples and crevices, and the module has been washed with an Oakite™ dilute acid solution to remove surface contamination and weld discoloration



A Counterweighted Overload Relief Door above the discharge provides system shutdown if the outlet becomes plugged with material. BWSI Air-Purged Packing Gland Seals prevent material leakage, and a Control Concepts™ Centrifugal Zero Speed Switch provides a shutdown alarm with loss of screw motion. The Outboard Bearing Pedestals support Dodge S-2000™ Spherical Roller Bearing pillow blocks. The hopper also features four tempered glass view ports for real-time monitoring of product level.



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