

Star Stainless Steel Drum Transfer Pumps

The use of a drum pump is a safer and more convenient way to empty a drum than having to hoist a drum into the air or place it onto a rack to provide a gravity feed at the point of use. Star transfer pumps are designed around a tandem air cylinder design joining two cylinders together with a common head and rod. The total pump unit is divided into two sections; the drive section and the pump section. By utilizing a Valve-In-Head cylinder as the air motor, the rod and pump piston will move in unison creating suction on the lower half of the piston and pressure on the upper half. On the down stroke the check piston moves freely through the fluid in the dip tube.

Features:

- No need for Forklift trucks to lift drums
- Drum pumps minimize the possibility of evaporation loss
- The Drum remains sealed
- Less than 2 % residue (in drums without liner)
- Fast cleaning & Maintenance
- Ease of assembly & disassembly
- Drum pumps are inserted through the opened bung in the drum head while the drum is in a vertical position, thus providing a safer, more flexible and economical way of discharging the drum contents
- Due to a wide selection of drive motor and Dip Tube combinations - a variety of output pressure and discharge rates are achieved.
- Cost-effective use of the product and with lower expenditure for waste disposal.
- High flexibility due to the modularity of the pump system
- Quick installation with few components for “Plug & Play” use





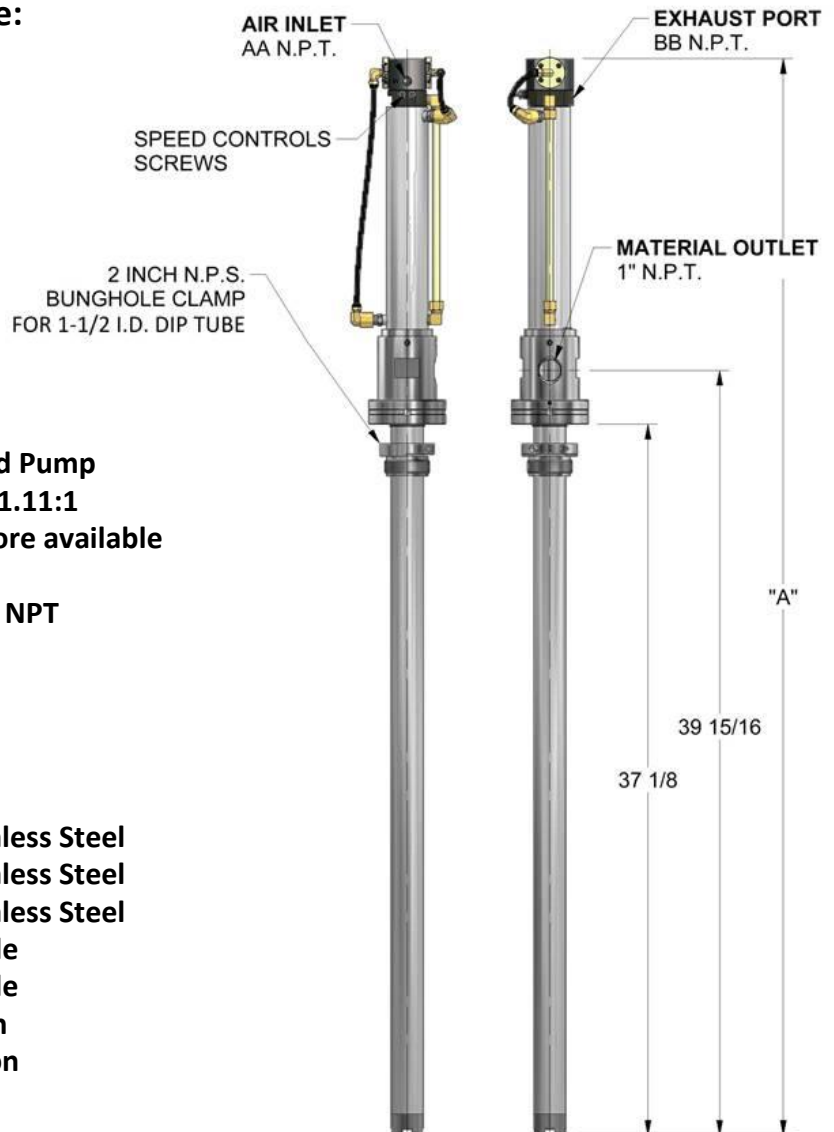
Stainless Steel 55 Gallon Drum Pump

Description:

Star transfer pumps are designed around our tandem cylinder design joining two cylinders together with a common head and rod. The total pump unit is divided into two sections; the drive section and the pump section. By utilizing our Valve-In-Head cylinder as the air motor, the rod and pump piston will move in unison, creating suction on the lower half of the piston and pressure on the upper half. On the down stroke the check piston moves freely through the fluid in the dip tube.

Drive size vs. GPM for 1.5" Dip Tube:

1.5" Drive	approx.	13 GPM
2.0" Drive	approx.	9.5 GPM
2.5" Drive	approx.	8.2 GPM
3.0" Drive	approx.	6.5 GPM
4.0" Drive	approx.	4.8 GPM



CONSTRUCTION DETAILS:

Model Series	DP55
Pump Type	Air Operated Pump
Ratio	0.359:1 to 11.11:1
Air Drive Cylinder	1.5" to 5" bore available
Stroke	8"
Air inlet (female)	1/4", 3/8", 1/2" NPT
Material Inlet	Immersed
Material Outlet (female)	1" NPT

MATERIALS:

Dip Tube	Stainless Steel
Piston	Stainless Steel
Piston Rod	Stainless Steel
Standard Packing	Nitrile
Lower Packing	Nitrile
Optional High temp packing	Viton
Optional Extended temp packing	Teflon

Model Identification:

Type-Size-Dip Tube-Stroke x Drive Cyl-special packing

Example 1: DPSS-55-1.5-2x8

Example 2: DPSS-55-1.5-2.5x8-V (High temp)

Example 3: DPSS-55-1.5-1.5x8-T (Extended temp)

Drive Cyl. Bore	DIM. A	DIM. AA	DIM. BB
1-1/2"	56-1/4"	1/4 N.P.T.	1/4 N.P.T.
2"	56-1/4"	1/4 N.P.T.	1/4 N.P.T.
2-1/2"	56-5/8"	3/8 N.P.T.	1/4 N.P.T.
3"	56-5/8"	3/8 N.P.T.	1/4 N.P.T.
4"	58-3/8"	1/2 N.P.T.	1/2 N.P.T.
5"	58-3/8"	1/2 N.P.T.	1/2 N.P.T.