

BULK TRANSFER PUMPS

Designed for the transfer of Motor Oil, Gear Oil, Transmission Fluid, Hydraulic Fluid and 100% Antifreeze, these versatile pumps offer flexibility, economy and simplicity. A unique patented gear and rotor design provides for efficient positive displacement pumping. This, in conjunction with a specially designed bypass allows for the transfer of a wide range of fluids up to a viscosity of 3,150 cps. Liquidynamics Bulk Transfer Pumps are designed to automatically minimize current draw by responding to increases in viscosity by limiting output flow, thus staying within the amperage limitations imposed by 115 VAC power sources. Other configurations available, contact Liquidynamics for more information. Any of the Transfer Pumps below may be fitted with the optional "PowerMaster" control by adding a 'P' suffix to the base number, i.e.; P/N 33280 with PowerMaster becomes P/N 33280P. See page 90 for features and benefits of the PowerMaster control option.



P/N 33280 shown

Three Speed Bulk Transfer Cart (Patent pending)

P/N **33280** and P/N **33280P**

A unique three speed gear box allows this pump to be used over a tremendous range of viscosities ranging up to 3,150 cps. By simply shifting gears you can pump "thin" fluids such as 100% Antifreeze or Hydraulic Oil at 40 GPM, medium viscosity fluids such as 10W30 Motor Oil at 20 GPM or "thick" fluids such as 120 wt Gear Oil at 10 GPM.

The mobile cart is constructed of heavy gauge 1" steel tubing for strength and powder coated for durability. The cart is supplied complete with 2" x 10' suction hose, 1 1/2" x 15' discharge hose, 1 1/2" manual nozzle and 12 ga. x 25' three wire power cord. An integral 2 1/2 gallon drip catch tank stores any drippage from the suction hose, stinger or discharge nozzle and has a convenient drain valve for draining. Cam-locks are provided on both ends of the suction and discharge hoses for easy removal of hoses and accessories. Dimensions, 24" W x 24" D x 48" H.

Single Speed Transfer Cart for Medium Viscosities

P/N **33267-20CG** and P/N **33267P-20CG**

This cart system is similar in design and function to P/N 33280 described above, except that it has a single speed gear reduction, which allows pumping of "light" and medium viscosities (max 625 cps) at 20 GPM. It is a more economical solution for applications where the versatility of the three speed gear reduction is not required.

High Volume Transfer Cart for Light Viscosities

P/N **33267** and P/N **33267P**

Ideal for high volume transfer of "light" (max 165 cps) viscosities such as 100% Antifreeze, Transmission Fluid, Hydraulic Fluid and Cutting Oils. It is similar in design and function to P/N 33280 described above, except that it does not utilize a gear reduction between the pump and motor, which allows transfer rates of 40 GPM. It is an excellent solution for applications where a fixed gear reduction or the versatility of the three speed gear reduction is not required.

Medium Viscosity 20 GPM Transfer Cart

P/N **33271** and P/N **33271P**

Designed for transfer of light Oils, Hydraulic Fluid, Transmission Fluid and Antifreeze, this versatile gear pump offers economy, reliability and simplicity. The Bronze construction allows this pump to be used for bulk transfer of pre-mixed antifreeze and other water based fluids up to 165 cps. 'C' face mountings ensure rigid and maintenance free alignment between pump and motor.

The system is equipped with a 1" x 10' suction hose, 1" x 20' discharge hose, ball control nozzle and a 30 mesh inlet strainer. Plumbing is constructed of bronze fittings and schedule 40 bronze piping for maximum compatibility with a wide range of fluids. The sturdy two wheel cart is constructed of heavy gauge 1" powder coated steel tubing and has large 10" pneumatic tires for ease of portability. A rotary on/off switch is provided for pump control along with 25' of 12 gauge, 3 wire power cord. An optional meter may be installed to monitor transfer quantities for inventory control purposes. Dimensions; 24"W x 16"D x 48"H



P/N 33271 shown

BULK TRANSFER CARTS

High Volume Transfer Pump Skid for Light Viscosities

P/N **33265**

An economical solution for the high volume transfer of "light" (max 165 cps) viscosities such as 100% Antifreeze, Transmission Fluid and Cutting Oils. The pump and motor are identical to the High Volume Transfer Pump Cart System P/N 33267, but utilizes a heavy duty skid frame to house the pump and motor. Order optional accessories shown below as necessary, to customize your skid configuration.



Single Speed Transfer Pump Skid for Medium Viscosities

P/N **33265-20SG**

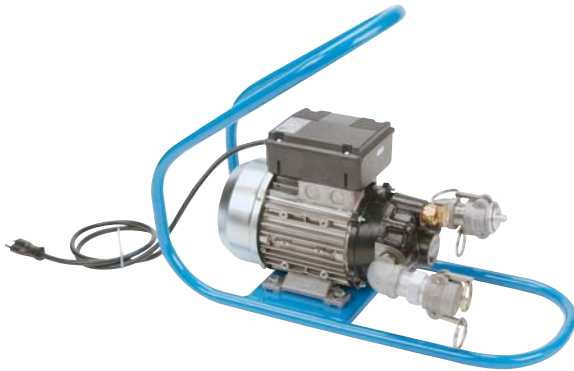
This versatile skid mounted gear pump offers an economical, reliable and simple solution for the transfer of "medium" viscosity fluids such as 10W30 Motor Oils (max 625 cps). The pump, motor and gear reduction are identical to the Single Speed Transfer Pump Cart system P/N 33267-20CG, but utilizes a skid frame to house the pump, motor and gear box. Order optional accessories shown below as necessary, to customize your skid configuration.

The skid cage is constructed of heavy gauge 1" steel tubing for strength and powder coated for durability. The pump is fitted with quick connect cam lock fittings to allow easy attachment of available accessories such as suction hose, stinger, discharge hose and nozzle.

Hand Carry 7 GPM Bulk Transfer Pump

P/N **33261**

Ideal for transfer of Motor Oils, Transmission Fluid, Hydraulic Fluid and 100% Antifreeze, this versatile vane pump offers economy, reliability and simplicity. The five vane rotor design provides efficient positive displacement pumping. This, in conjunction with the continuous rated, 1½ HP motor allows for transfer of a wide range of fluids up to 490 cps. The unique hand carry frame mount is extremely portable, yet the system can empty a 55 gallon drum of oil in less than 8 minutes. An integral on/off rocker switch, 6' grounded power cord and quick connect cam-lock fittings are provided for convenient pump connection and control. The use of a cast iron pump body bolted directly to the motor ensures a rigid and maintenance free alignment between pump and motor. Dimensions 14"W x 21"L x 12"H.



Part Number	33280	33267	33267-20CG	33265	33265-20SG	33271	33261
Nominal GPM	10/20/40	40	20	40	20	20	7
Max. Viscosity, cps	3,150	165	625	165	625	370	490
Fluid Inlet	2"	2"	2"	2"	2"	1"	1"
Fluid Outlet	1.5"	1.5"	1.5"	1.5"	1.5"	1"	.75"
Horsepower	2.0	2.0	2.0	2.0	2.0	2.0	1.6
Voltage	115/230 VAC Single Phase						
Amperage	16/8	16/8	16/8	16/8	16/8	12/6	8/4
Weight	220	160	140	88	140	160	25

Optional Accessories:

P/N **950084**

Suction 1½" x 4' Stinger w/ cam-lock



P/N **81291-10**
2" x 10' PVC
Suction Hose

P/N **81281-15**
1½" x 15' PVC
Discharge Hose



P/N **32108**
1½" High Flow Control
Valve

PURELUBE FILTER SYSTEMS

Liquidynamics PureLube Filter Systems offer excellent solutions for fluid filtering applications by providing a wide selection of filter carts, mini carts, portable hand carry systems and custom designed systems. These filter carts are designed to handle a broad range of viscosities and flow rates in order to efficiently and economically filter small, medium and large capacity gear boxes, reservoirs and storage tanks.

For high viscosity applications, Liquidynamics uses “Depth” type filters that provide efficient particulate removal via long flow paths which, achieves low micron filtration in the 1 to 3 micron range. These filters are also efficient for removing water at up to 1 gallon per element. Choose your filter element below to best fit your application.

High Viscosity Filter Cart:

P/N **33277**

For absolute filtration of high viscosity fluids up to and including ISO 680, this is the solution. Two Depth Filters plumbed in parallel provide a large surface area which allows very slow movement of fluid for effective filtration of particles in the 1 to 3 micron range along with water removal of up to 1 gallon of water per element.

The heavy gauge 1” steel tubing cart frame is powder coated for strength and durability, 10” pneumatic wheels provide easy control and movement. Standard equipment includes 5 GPM internal gear pump with 2 HP, 115 VAC motor, 1” x 10’ suction hose with 4’ probe, 1” x 15’ discharge hose with probe, cam-lock hose connections, filter pressure gauges and probe/discharge nozzle retainer/drip catch system.

High Viscosity Filter Cart w/PowerMaster Control:

P/N **33277-P**

Same as P/N 33277 but includes PowerMaster option. See page 90 for additional information on PowerMaster features and benefits.



REFERENCE INFORMATION:

Relative Sizes of Particles

Substance	Micron	Inches
Grain of table salt	100	.0039
Human hair	70	.0027
Lower limit visibility	40	.0016
Milled flour	25	.0010
Red blood cells	8	.0003
Bacteria	2	.0001

Replacement Filter Elements: For use with P/N 33277 and 33277-P High Viscosity Filter Carts.

P/N **71460-2**

Two element filter for use with light weight oils, ISO 10 through 32 such as hydraulic fluid, cutting oils, turbine oils, etc.

P/N **71460-4**

Four element filter for use with medium weight oils, ISO 32 through 68, such as mineral and synthetic hydraulic, dielectric, turbine oil, lubricating oils and cutting oils.

P/N **71460-6**

Six element filter for use with medium weight lube oils, ISO 68 through 150.

P/N **71460-8**

Eight element filter for use with heavy weight lube oils, ISO 150 through 680.