

Sethco

P90 DRUM PUMP

For Safe And Fast
Transfer Of Chemicals

- Corrosive Liquids In Hazardous Or Non Hazardous Environments
- Solvents

- **SEALLESS**
- **EMPTIES 55 GALLON DRUMS IN LESS THAN 2 MINUTES**
- **SELF PRIMING**
- **HIGH POWER DOUBLE INSULATED 1150 WATT MOTOR**
- **EASY MAINTENANCE, FIELD REPAIRABLE**
- **ONE PIECE TUBE INSURES SAFE, LEAKPROOF OPERATION**
- **CHOICE OF POLYPROPYLENE, KYNAR®, OR STAINLESS STEEL PUMPS**



SETHCO MODEL P-90 DRUM PUMPS

THE RIGHT CHOICE FOR TRANSFERRING CORROSIVE LIQUIDS FROM CARBOYS, DRUMS, VATS, TANKS OR ANY OTHER CONTAINER

Pump Tube Features:

- **Polypropylene, Kynar or stainless steel pump construction**
Choose from 3 materials of construction to transfer most corrosive liquids.
- **Sealless construction**
Eliminates the major cause of pump failure.
- **1.66" (42mm) tube diameter**
Designed to fit any bung to empty any drum or carboy around the world.
- **More effective vapor seal**
- **High quality design**
One piece tube construction, fewer pump parts and bearing cup ensure reliability and extends pump life.
- **Self priming**
A flip of the switch and pumping action begins immediately.
- **Quick draining**
Pump drains quickly when removed from liquid.
- **Wide vane axial impeller**
Efficiently moves high viscosity and specific gravity liquids up to 4000 ssu.
- **High flow**
Empties a 55 gallon drum in less than 2 minutes. Empties a 500 gallon tank in less than 13 minutes.
- **Easy to maintain**
Bearing cup design allows fast, inexpensive, easy to do repairs. No special tools needed.



Motor Features:

- **High power, double insulated 1150 watt motor**
Protected in a corrosion resistant, high-strength, impact resistant case.
- **Large handle grip**
Ensures grasp when wearing bulky safety rubber gloves.
- **Impact resistant housing**
Holds up to rough handling.
- **15 foot cord**
Motor is equipped with a heavy duty oil and acid resistant electrical cord and molded plug.
- **On/Off switch with safety reset circuit breaker**
Unlike hazardous automatic restart units, the motor will not restart until on/off switch resets the circuit breaker.
- **Continuous duty rated**
The powerful electric motor will pump liquids continuously drum after drum without overloading the motor, even when pumping high specific gravity solutions.
- **Hazardous duty air motors available**
For safe transfer of hazardous, flammable or combustible liquids.
- **Lightweight**
Weights only 9 pounds.

SELECT FROM HIGH POWER INTERCHANGEABLE MOTORS

High-Power Double Insulated 1150 Watt Motor

Lightweight, impact resistant and easy to handle, this motor is the most widely used. Select this motor when transferring liquids that are non-hazardous. Can be used with any P90 pump tube.

THREE INTERCHANGEABLE PUMP TUBE ASSEMBLIES

POLYPROPYLENE

Economical and Dependable

Wetted Parts

Polypropylene, Hastelloy C®, Tefzel®, Viton®, Kynar®.

Typical Applications

Hydrochloric acid, sulfuric acid, nitric acid, most electroplating solutions mild alkaline solutions, chromic acid and other non flammable solutions.

Temperature Limits

32° to 130°F (0° to 55°C)

STAINLESS STEEL

Heavy Duty design for extended life

Wetted Parts

Stainless Steel, Teflon®, Kynar®.

Typical Applications

Alkalies, aqueous caustic, light oils, and solvents.

Temperature Limits

0° to 250°F (-18° to 121°C)

KYNAR®

Superior corrosion resistance, withstands higher temperature.

Wetted Parts

Kynar®, Hastelloy C, Tefzel®, Viton®.

Typical Applications

Strong mineral and oxidizing acids, alkalies, metal etchants, chlorine, aqueous caustic, organic and nonflammable solvents.

Temperature Limits

0° to 250° F (-18° to 121°C)

Hazardous Duty Air Motor

Can be used in place of electric motor when desired. Completely interchangeable on any P90 pump. Recommended for use in areas where flammable vapors or other hazardous duty conditions exist.

30", 40" 50" and 60" Standard Pump Tube Lengths



ACCESSORIES



Bottom Inlet Strainer

Fits over pump tube to prevent debris from entering pump. Stainless steel pump tube has built in strainer. (Supplied with each complete P90 pump and motor).



Bung Adapter

Holds pump tube securely in the bung opening (optional).

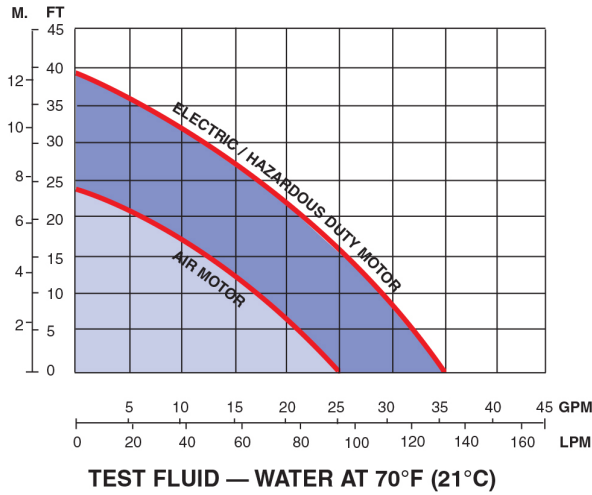


Bonding Wire

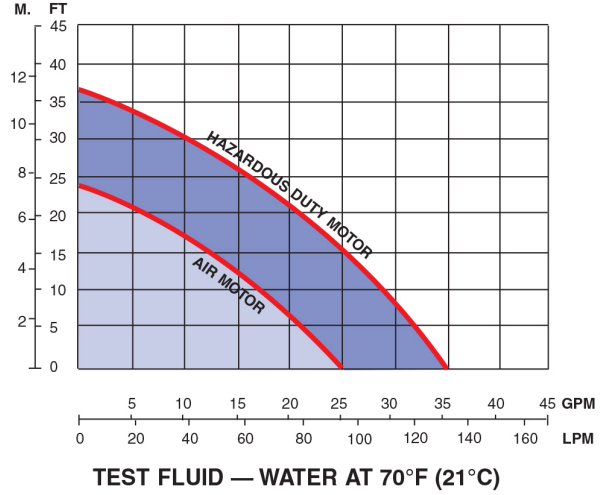
Required when pumping flammables to bond and ground equipment.

HIGH VOLUME PUMPING TO 35 GPM (132 LPM)

Flow curve for **Polypropylene or Kynar Pump Tube** with standard 1150 watt electric motor, air motor or hazardous duty motor.



Flow curve for **Stainless Steel Pump Tube** with electric motor, air motor and hazardous duty electric motor.



PUMP AND MOTOR SPECIFICATIONS

PUMP TUBES

| MODEL | Tube Length (in / cm) | Wetted Materials | Tube Diameter (at widest point) (in / cm) | Discharge (in / cm) | Maximum Flow (water at 70°F / 21°C) | Maximum Head Gravity** | Maximum Specific Gravity (reduced flow and pressure) | Maximum Viscosity** | Net Weight (lbs. / kg) | Shipping Weight w/o Hose (lbs. / kg) |
|----------------------------------|--------------------------|---|---|---|--|------------------------|---|-----------------------|---------------------------|--|
| POLYPROPYLENE PUMP TUBE | | | | | | | | | | |
| P90H-30 | 30 / 76 | Polypropylene, Tefzel [†] , Hastelloy C [®] , Viton [®] , Kynar [®] | 1-2/3" / 4.2 cm | for 1" I.D. Hose | 35 GPM / 132 LPM | 39 ft. / 1189 cm | 1.86 | 4000 SSU (850 cks) | 1.75 / .80 | 5 / 2.3 |
| P90H-40 | 40 / 101 | | | | | | | | 2.75 / 2 | 5.5 / 2.5 |
| P90H-50 | 50 / 127 | | | | | | | | 2.75 / 1.25 | 6 / 2.7 |
| P90H-60 | 60 / 152 | | | | | | | | 3.25 / 1.5 | 6.5 / 2.9 |
| PVDF PUMP TUBE | | | | | | | | | | |
| P90H-30K | 30 / 76 | PVDF Tefzel [†] , Hastelloy C [®] , Viton [®] , Kynar [®] | 1-2/3" / 4.2 cm | for 1" I.D. Hose | 35 GPM / 132 LPM | 39 ft. / 11.5 m | 1.86 | 4000 SSU (850 cks) | 2.75 / 1.25 | 5 / 2.3 |
| P90H-40K | 40 / 101 | | | | | | | | 3.25 / 1.5 | 6.5 / 2.9 |
| P90H-50K | 50 / 127 | | | | | | | | 3.75 / 1.7 | 6 / 2.7 |
| P90H-60K | 60 / 152 | | | | | | | | 4.25 / 1.9 | 7.5 / 3.4 |
| STAINLESS STEEL PUMP TUBE | | | | | | | | | | |
| P90S-40S | 40 / 101 | SS-316, Carp. 20, PVDF Teflon [®] , Kynar [®] | 1-3/4" / 4.4 cm | Both 3/4" (1.9 cm) FNPT & 1-1/4" ID Hose | 35 GPM / 132 LPM | 40 ft. / 11.5 m | 1.86 | 4000 SSU (850 cks) | 8 / 3.6 | 11.5 / 5.2 |

† Available with Nylon in place of Teflon for nuclear service.

MOTORS

| Motor | Description | Net Weight (lbs. / kg.) | Shipping Weight lbs. / kg.) |
|-------|--|----------------------------|--------------------------------|
| A | Air Drive-100 PSI @ 18 CFM With inlet air valve for motor speed and flow control, and muffler for quiet operation | 2 lbs. / .9 kg. | 5 lbs. / 2.2 kg. |
| B | Electric - 115V, 50/60Hz, 1 ph, ODP, double-insulated with 15 feet of line cord, plug and on/off switch with built-in safety manual reset circuit breaker. Motor cannot accidentally restart after breaker trips. Switch must be manually turned back on to reset breaker. | 7 lbs. / 3.2 kg. | 9 lbs. / 4 kg. |
| C | Electric - 230V, 50/60Hz, 1 ph. ODP, as per "B" above. Plug is not provided. | 7 lbs. / 3.2 kg. | 9 lbs. / 4 kg. |