



®

**SAMSON**



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## PM 2

### OIL PUMP, PRESSURE RATIO 1:1



Double acting air operated pumps for transferring lubricants and other non-corrosive fluids. Pump includes bung adapter.

**New Model 351 120**

**Old Model 214**

PM 2, 1:1 ratio stub pump only with bung adapter.

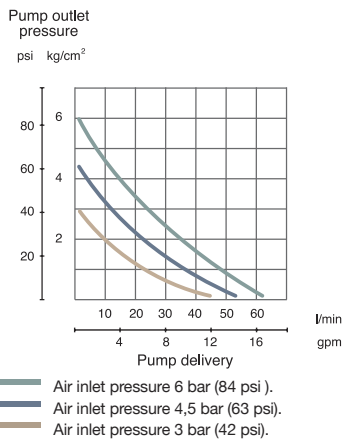
**Model 216**

PM 2, 1:1 ratio pump for 16 gallon keg with bung adapter.

**New Model 352 120**

**Old Model 218**

PM 2, 1:1 ratio pump for 55 gallon drum with bung adapter.



#### Technical data

Pressure ratio	1:1
Pump tube diameter	2" (48 mm)
Air piston diameter	2" (51 mm)
Air piston stroke	3" (75 mm)
Maximum free flow capacity <sup>1</sup>	16 gpm (62 l/min)
Minimum air pressure	40 psi (3 bar)
Maximum air pressure	140 psi (10 bar)
Maximum fluid pressure	140 psi (10 bar)
Air inlet	1/4" NPSM (F)
Fluid outlet	3/4" NPSM (F)
Fluid inlet (stub pump only)	1" NPT (F)

<sup>1</sup> Free delivery at 100 psi air inlet pressure, using SAE 20 oil at 70° F.

## PM 2

### OIL PUMP, PRESSURE RATIO 3:1



Double acting air operated medium pressure pumps for dispensing lubricants from portable units or in medium size installations including multiple dispensing points with no simultaneous use. Will pump all types of lubricants, even those of higher viscosity. Pump includes bung adapter.

Typically used in workshops, service stations, fast lube centers, etc.

**New Model 353 120**

**Old Model 200**

PM 2, 3:1 ratio stub pump only with bung adapter.

**New Model 358 120**

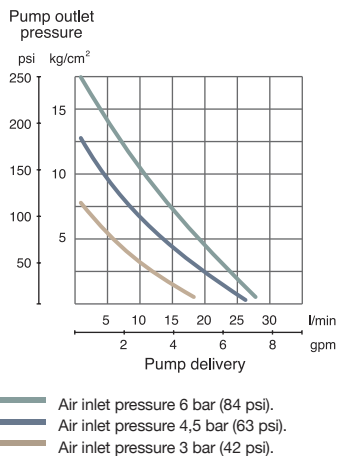
**Old Model 206**

PM 2, 3:1 ratio 16 gallon keg pump with bung adapter.

**New Model 354 120**

**Old Model 208**

PM 2, 3:1 ratio 55 gallon pump with bung adapter.



#### Technical data

Pressure ratio	3:1
Pump tube diameter	1.33" (30 mm)
Air piston diameter	2" (51 mm)
Air piston stroke	3" (75 mm)
Maximum free flow capacity <sup>1</sup>	7.8 gpm (30 l/min)
Minimum air pressure	40 psi (3 bar)
Maximum air pressure	140 psi (10 bar)
Maximum fluid pressure	420 psi (30 bar)
Air inlet	1/4" NPSM (F)
Fluid outlet	3/4" NPSM (F)
Fluid inlet (stub pump only)	3/4" NPT (F)

<sup>1</sup> Free delivery at 100 psi air inlet pressure, using SAE 20 oil at 70° F.

## PM 4

### OIL PUMP, PRESSURE RATIO 3:1



Double acting air operated medium pressure pumps for dispensing lubricants in medium size installations including multiple dispensing points with simultaneous operation. Will pump all types of lubricants, even those of higher viscosity. Includes bung adapter.

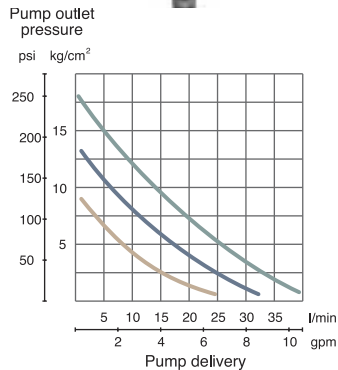
Typically used in workshops, service stations, fast lube centers, fleet maintenance, mining, agriculture, armed forces, construction, trains, etc.

#### Model 340 120

PM 4 3:1 ratio stub pump with bung adapter.

#### Model 341 120

PM 4 3:1 ratio 55 gallon drum pump with bung adapter.



— Air inlet pressure 6 bar (84 psi).  
 — Air inlet pressure 4,5 bar (63 psi).  
 — Air inlet pressure 3 bar (42 psi).

#### Technical data

Pressure ratio	3:1
Pump tube diameter	2" (52 mm)
Air piston diameter	3.55" (90 mm)
Air piston stroke	4" (100 mm)
Maximum free flow capacity <sup>1</sup>	11.8 gpm (45 l/min)
Minimum air pressure	40 psi (3 bar)
Maximum air pressure	140 psi (10 bar)
Maximum fluid pressure	420 psi (30 bar)
Air inlet	3/8" NPSM (F)
Fluid outlet	3/4" NPSM (F)
Fluid inlet (stub pump only)	1" NPT (F)

<sup>1</sup> Free delivery at 100 psi air inlet pressure, using SAE 20 oil at 70° F.

## PM 4

### OIL PUMP, PRESSURE RATIO 5:1



Double acting air operated high pressure pumps for dispensing lubricants in large size installations including multiple dispensing points with simultaneous operation. Will pump all types of lubricants, even those of higher viscosity. Pump includes bung adapter.

Typically used in workshops, service stations, fast lube centers, fleet maintenance, mining, agriculture, armed forces, construction, trains, etc.

#### New Model 347 120

#### Old Model 400

PM 4 5:1 ratio stub pump with bung adapter.

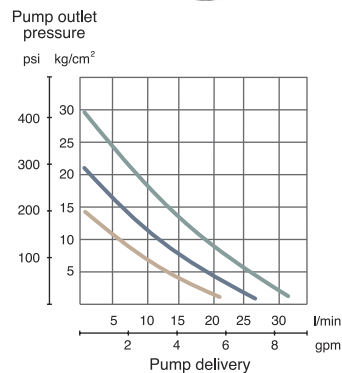
#### Model 406

PM 4, 5:1 ratio 16 gallon keg pump with bung adapter.

#### New Model 348 120

#### Old Model 408

PM 4 5:1 ratio 55 gallon drum pump with bung adapter.



— Air inlet pressure 6 bar (84 psi).  
 — Air inlet pressure 4,5 bar (63 psi).  
 — Air inlet pressure 3 bar (42 psi).

#### Technical data

Pressure ratio	5:1
Pump tube diameter	1.65" (42 mm)
Air piston diameter	3.55" (90 mm)
Air piston stroke	4" (100 mm)
Maximum free flow capacity <sup>1</sup>	9.1 gpm (35 l/min)
Minimum air pressure	40 psi (3 bar)
Maximum air pressure	140 psi (10 bar)
Maximum fluid pressure	700 psi (50 bar)
Air inlet	3/8" NPSM (F)
Fluid outlet	3/4" NPSM (F)
Fluid inlet (stub pump only)	1" NPT (F)

<sup>1</sup> Free delivery at 100 psi air inlet pressure, using SAE 20 oil at 70° F.

## PM 4



### OIL PUMP, PRESSURE RATIO 8:1

Double acting air operated high-pressure pump for dispensing lubricants in medium to large size installations including multiple dispensing points with no simultaneous use. Will pump all types of lubricants, even those of higher viscosity and may also be used for rustproofing applications.

Typically used in workshops, service stations, fast lube centers, fleet maintenance, mining, agriculture, armed forces, construction, trains, etc.

#### New Model 349 120

#### Old Model 480

PM 4 8:1 ratio stub pump with bung adapter.

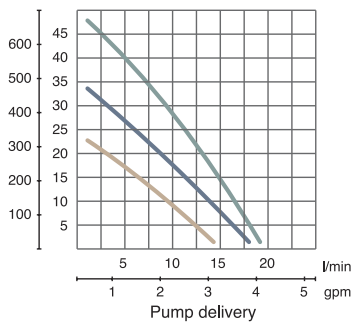
#### Model 349 820

PM 4 8:1 16 gallon keg pump with bung adapter.

#### Model 349 220

PM 4 8:1 ratio pump for 55 gallon drum or 30" workbench tank. Includes bung adapter.

Pump outlet pressure  
psi kg/cm<sup>2</sup>



— Air inlet pressure 6 bar (84 psi).  
— Air inlet pressure 4.5 bar (63 psi).  
— Air inlet pressure 3 bar (42 psi).

#### Technical data

Pressure ratio	8:1
Pump tube diameter	1.33" (34 mm)
Air piston diameter	3.55" (90 mm)
Air piston stroke	4" (100 mm)
Maximum free flow capacity <sup>1</sup>	7.25 gpm (28 l/min)
Minimum air pressure	40 psi (3 bar)
Maximum air pressure	140 psi (10 bar)
Maximum fluid pressure	1120 psi (80 bar)
Air inlet	3/8" NPSM (F)
Fluid outlet	3/4" NPSM (F)
Fluid inlet	3/4" NPT (F)

<sup>1</sup> Free delivery at 100 psi air inlet pressure, using SAE 20 oil at 70° F.

## PM 6



### OIL PUMP, PRESSURE RATIO 10:1

Double acting air operated high-pressure pump for dispensing lubricants in very large installations including multiple dispensing points with simultaneously operating outlets. Will pump all types of lubricants, even those of higher viscosity. Recommended for use when low air pressure would limit the performance of a lower ratio pump.

Typically used in workshops, service stations, fast lube centers, fleet maintenance, mining, agriculture, armed forces, construction, trains, etc.

#### Model 600

PM 6 10:1 ratio flange-mounted stub pump.

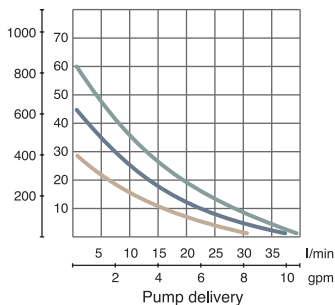
#### Model 602

PM 6 10:1 ratio flange-mounted 16 gallon keg pump.

#### Model 604

PM 6 10:1 ratio flange-mounted pump 55 gallon drum pump.

Pump outlet pressure  
psi kg/cm<sup>2</sup>



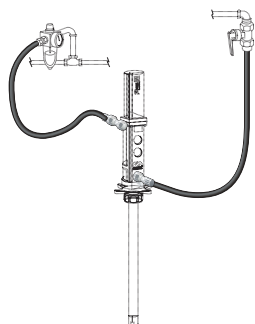
— Air inlet pressure 6 bar (84 psi).  
— Air inlet pressure 4.5 bar (63 psi).  
— Air inlet pressure 3 bar (42 psi).

#### Technical data

Pressure ratio	10:1
Pump tube diameter	2" (54 mm)
Air Piston Effective Diameter	4.3" (110 mm)
Air piston stroke	4 1/4" (110 mm)
Maximum free flow capacity <sup>1</sup>	11.2 gpm (40 l/min)
Minimum air pressure	40 psi (3 bar)
Maximum air pressure	140 psi (10 bar)
Maximum fluid pressure	1400 psi (100 bar)
Air inlet	1/2" NPSM (F)
Fluid outlet	3/4" NPSM (F)
Fluid inlet (stub) pump only)	1 1/2" NPT (F)

<sup>1</sup> Free delivery at 100 psi air inlet pressure, using SAE 20 oil at 70° F.

### PUMP CONNECTION KITS



#### Model 904 - PM 2 pump connection kit

Includes:

- 2088: 1/2" LP ball valve.
- 2062: 1/4" F x 1/2" M bushing.
- 802: 1/4" x 5' air hose.
- 857: 3/4" x 5' oil hose.
- 2511: 3/4" F x 1/2" M adapter.

Recommended options:

- 955: Air filter + regulator, 0-250 psi. 1/4" NPT (FF).
- 609 007: Pressure relief valve.
- 2074: 1/2" NPT-FBE medium pressure ball valve.



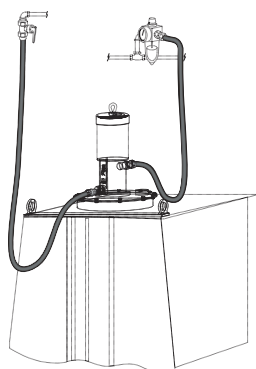
#### Model 906 - PM 4 pump connection kit

Includes:

- 2088: 1/2" LP ball valve.
- 2061: 3/8" F x 1/2" M bushing.
- 813: 3/8" x 5' air hose.
- 857: 3/4" x 5' oil hose.
- 2511: 3/4" F x 1/2" M adapter.

Recommended options:

- 957: Air filter + regulator, 0-250 psi. 3/8" NPT (FF).
- 609 007: Pressure relief valve.
- 2083: 3/4" NPT-FBE medium pressure ball valve.



#### Model 913 - PM 6 pump connection kit

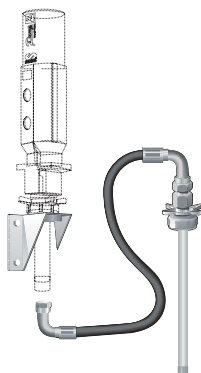
Includes:

- 2088: 1/2" LP ball valve.
- 823: 1/2" x 5' air hose.
- 857: 3/4" x 5' oil hose.

Recommended options:

- 985: Air filter/Regulator/Lubricator combo, 0-250 psi. 1/2" NPTF.
- 362 912: Pressure relief valve.
- 2083: 3/4" NPT-FBE medium pressure ball valve.

### SUCTION KITS FOR WALL-MOUNTED PUMPS



#### Model 912 - Suction kit for 55 gallon drums and 250 gallon IBC Tote

Includes:

- 900: Wall bracket for PM 2 and PM 4 pumps.
- 910: Suction assembly fits 55 gallon drums and 250 gallon IBC totes.

#### Model 367 104 - Suction kit for 55 gallon drums and 250 gallon IBC Tote

Includes:

- 360 109: Wall bracket for PM 6 pumps.
- 367 016: Suction assembly fits 55 gallon drums and 250 gallon IBC totes.

### BUNG BUSHING ADAPTERS



**Model 360 001** PM 2 1:1 and PM 4 3:1

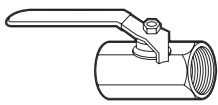
**Model 366 000** PM 2 3:1 and PM 4 8:1

**Model 366 002** PM 4 5:1

**Model 360 006** PM 6 10:1

**Model 360 133** PM 6 10:1 cover to bung adapter plate, mounts to flange type drum cover. Converts flange mount to standard bung opening.

### MEDIUM PRESSURE BALL VALVE



2,000 PSI

**Model 2074** 1/2" NPTFBE ball valve

**Model 2083** 3/4" NPTFBE ball valve

**Model 2090** 1" NPTFBE ball valve

### ACCESSORIES

**Model 900**



**Model 900** Wall mount bracket fits PM 2 and PM 4.

**Model 360 106** Tote bracket.

**Model 360 107** Tote bracket..

**Model 360 108** Tote bracket..



**Model 360 108**

**Model 360 107**



**Model 360 109** Wall mount bracket for PM6.

**Model 368 200** 3/4" NPTM low level shut off. Prevents air from entering lines when product level is low.

**Model 368 201** 1" NPTM low level shut off. Prevents air from entering lines when product level is low.

**Model 94112003** Vertical ball check for drop tube: 1 1/2" NPTF. Works with any length downtube.

**Model 362 912** 900 psi pressure relief valve with return tubing (36") and fittings. Valve: 3/4" NPTFBE. Return fittings: 1/4" NPTM.

**Model 362 913** 1500 psi pressure relief valve with return tubing (36") and fittings. Valve: 3/4" NPTFBE. Return fittings: 1/4" NPTM.

**Model 609 007** 900 psi pressure relief valve for new style PM2 and PM4 pumps. Relief valve screws into pump body; includes return tube (36") and fittings; 1/4" NPTM.

**Model 734 416** remote exhaust manifold for PM6 55:1 and 10:1 only.



**Model 360 109**



**Model 94112003**



**Model 368 200**



**Model 362 913**



**Model 609 007**



## HEAVY DUTY DELUXE DRUM COVERS



1936



418 026



360 106



360 107



360 108

**Model 1934** Cover for 35 lb. pail. Fits PM3 and PM 3+3.

**Model 1936** Cover for 120 lb. keg. Fits PM3 and PM 3+3.

**Model 1938** Cover for 400 lb. drum. Fits PM3 and PM 3+3.

**Model 418 025** Flange mount cover for 120 lb. keg. Fits PM6.

**Model 418 026** Flange mount cover for 400 lb. drum. Fits PM6.

**Model 360 133** Cover to bung adapter plate for PM6. Converts flange mount to bung mount.

**Model 360 106** Top mount tote bracket. 1400, 1600, 506, 507 and 7500 reels bolt directly to bracket. PM2 and PM4 mount horizontally to bracket with 912 suction kit (optional).

**Model 360 107** Side mount tote bracket. 1400, 1650 and 506 and 507 reels mount directly to bracket, PM2 or PM4 mount with 900 wall mount or 912 suction kit (optional).

**Model 360 108** Side mount tote bracket. PM2 or PM4 pumps mount to bracket with 900 wall mount or 912 suction kit (optional). Includes control handle hanger hook.

## PM3

## 55:1 PRESSURE RATIO GREASE PUMPS

- Air inlet pressure 84 psi (6 bar).
- Air inlet pressure 63 psi (4,5 bar).
- Air inlet pressure 42 psi (3 bar).



Double acting air operated pumps for high pressure greasing. Primarily recommended for use in portable greasing units.

Typically used in portable applications in workshops, service stations and fleet maintenance.

Pump includes bung adapter.

### Model 300

5 Gallon (35 lb) pail

### Model 302

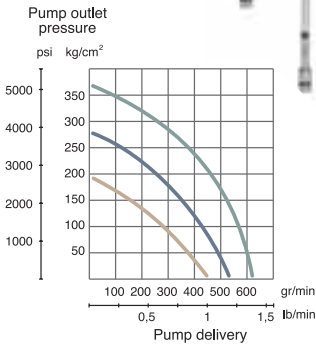
16 Gallon (120 lb) keg.

### Model 304

55 Gallon (400 lb) drum.

<sup>1</sup> Free delivery at 100 psi air inlet pressure, using NLGI II grease at 70° F.

Technical data	
Pressure ratio	55:1
Pump tube diameter	1" (26 mm)
Air piston diameter	3" (70 mm)
Air piston stroke	1.5" (35 mm)
Maximum free flow capacity <sup>1</sup>	21 oz/min (600 gr/min)
Minimum air pressure	40 psi (3 bar)
Maximum air pressure	140 psi (10 bar)
Maximum fluid pressure	7700 psi (550 bar)
Air inlet	1/4" NPSM (F)
Fluid outlet	1/4" NPSM (F)



## PM 3+3

## 60:1 PRESSURE RATIO GREASE PUMPS

- Air inlet pressure 84 psi (6 bar).
- Air inlet pressure 63 psi (4,5 bar).
- Air inlet pressure 42 psi (3 bar).



Double acting air operated pumps with reinforced foot and pressure valves for high pressure greasing. Recommended use in portable units when a greater delivery is required, and in installations with multiple dispensing points.

Typically used in workshops, service stations, fast lube centers, fleet maintenance, mining, agriculture, armed forces, construction, trains, etc.

Pump includes bung adapter.

### Model 402 050

5 Gallon (35 lb) pail

### Model 332

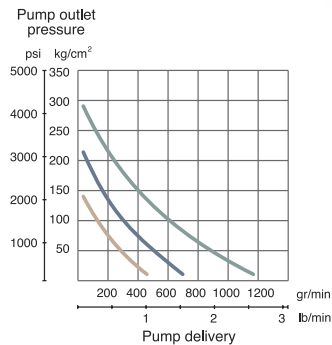
16 Gallon (120 lb) keg.

### Model 334

55 Gallon (400 lb) drum.

<sup>1</sup> Free delivery at 100 psi air inlet pressure, using NLGI II grease at 70° F.

Technical data	
Pressure ratio	60:1
Pump tube diameter	1.2" (30 mm)
Air piston diameter	3" (75 mm)
Air piston stroke	3" (75 mm)
Maximum free flow capacity <sup>1</sup>	42 oz/min (1,200 gr/min)
Minimum air pressure	40 psi (3 bar)
Maximum air pressure	140 psi (10 bar)
Maximum fluid pressure	7700 psi (550 bar)
Air inlet	3/8" BSP (F)
Fluid outlet	3/8" BSP (F)



## PM 6

## 55:1 PRESSURE RATIO GREASE PUMP

- Air inlet pressure 84 psi (6 bar).
- Air inlet pressure 63 psi (4,5 bar).
- Air inlet pressure 42 psi (3 bar).



Double acting air operated pump for high pressure greasing. Recommended use in installations with multiple dispensing points and simultaneous operation outlets. Designed for flange mounting to container cover.

Typically used in workshops, service stations, fleet maintenance, mining, agriculture, armed forces, construction, trains, etc.

### Model 622

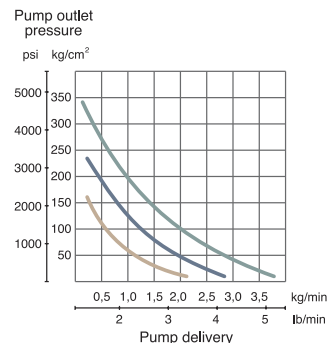
16 Gallon (120 lb) keg.

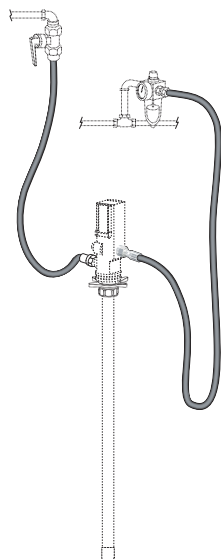
### Model 624

55 Gallon (400 lb) drum.

<sup>1</sup> Free delivery at 100 psi air inlet pressure, using NLGI II grease at 70° F.

Technical data	
Pressure ratio	55:1
Pump tube diameter	1.33" (35 mm)
Air Piston Effective Diameter	4.3" (110 mm)
Air piston stroke	4 1/4" (110 mm)
Maximum free flow capacity <sup>1</sup>	7.25 lbs / min (3200 gr/min)
Minimum air pressure	42 psi (3 bar)
Maximum air pressure	140 psi (10 bar)
Maximum fluid pressure	7100 psi ( )
Air inlet	1/2" NPSM (F)
Fluid outlet	3/8" NPSM (F)





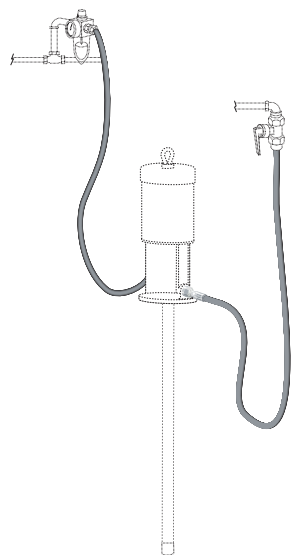
### Model 901 000 - PM 3+3 pump connection kit for stationary pumps

Includes:

- 813: 5' x 3/8" air hose with 3/8" NPTM x 3/8" NPTSM fittings
- 884 : 5' x 3/8" grease connecting hose with 3/8" NPTM x 3/8" NPTSM fittings
- 2088: 1/2" air shut off ball valve
- 2061: 1/2" NPTM x 3/8" NPTF bushing

Recommended Options

- 957: Air regulator with gauge and air filter combo unit; 3/8" NPTF fittings
- 2077: High pressure shut off valve; 1/2" NPTFBE
- 2061: 1/2" NPTM x 3/8" NPTF bushing



### Model 915 000 - PM 6 pump connection kit for stationary pumps

Includes:

- 823: 5' x 1/2" air hose with 1/2" NPTM x 1/2" NPTSM fittings
- 884: 5' x 3/8" grease connecting hose with 3/8" NPTM x 3/8" NPTSM fittings
- 2088 : 1/2" air shut off ball valve

Recommended Options

- 985: Air regulator with gauge filter and lubricator; 1/2" NPTF fittings
- 2077: High pressure shut off valve; 1/2" NPTFBE
- 2061: 1/2" NPTM x 3/8" NPTF bushing

### STEEL FOLLOWER PLATES: RUBBER GROMMET AND WIPER



**Model 962** Follower for 35 lb. pail. Fits PM 3, 3+3 pumps.

**Model 964** Follower for 120 lb. keg. Fits PM 3, 3+3, and 6 pumps.

**Model 966** Follower for 400 lb. drum. Fits PM 3, 3+3, and 6 pumps.



1936

**Model 1934** Cover for 35 lb. pail. Fits PM3 and PM 3+3.

**Model 1936** Cover for 120 lb. keg. Fits PM3 and PM 3+3.

**Model 1938** Cover for 400 lb. drum. Fits PM3 and PM 3+3.



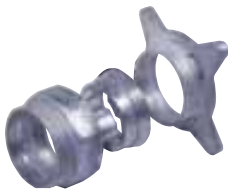
418 026

**Model 418 025** Flange mount cover for 120 lb. keg. Fits PM6.

**Model 418 026** Flange mount cover for 400 lb. drum. Fits PM6.

**Model 360 133** Cover to bung adapter plate for PM6. Converts flange mount to bung mount.

### BUNG ADAPTERS

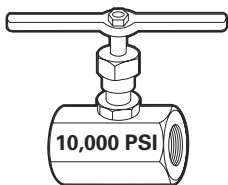


**Model 2028** Fits PM3 55:1 pump.

**Model 410 002** Fits PM3+3 60:1 pump.

**Model 410 001** Fits PM6 55:1 pump.

### HIGH PRESSURE NEEDLE VALVES



**Model 2077** 1/2" NPTF

**Model 2089** 3/4" NPTF

**Model 2093** 1" NPTF

### GREASE PUMP AIR LIFT



**Model 111**

Single arm air lift for pumps having eye bolt attachments. Includes air valve #4451 001 for raising and lowering pump. Works on kegs or drums.



### PM 2, 1:1 STAINLESS STEEL PUMP



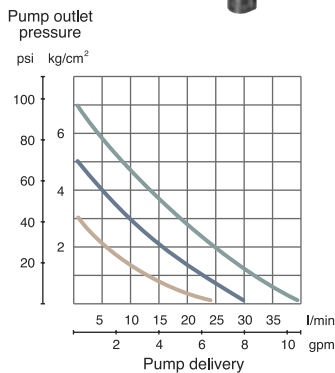
#### Model 331 120 Old Model 296 SS

Double acting, low pressure and high delivery air operated pumps manufactured in AISI 316 stainless steel. Pumps can be used as transfer pumps or in systems that include pipelines and several outlets even with simultaneous operation. The air motor is divorced from the pump to avoid fluid contamination inside the motor, making this pump compatible with slightly corrosive, low viscosity fluids such as paint solvents, cleaning fluids, anti-freeze (glycol), detergents, grease removers, alcohols, turpentine, petrochemical products, anticorrosion products, light inks, lacquer, wood varnish, etc.

Pumps include bung adapter and a 28" PVC suction tube for use with 55 gallon drums.

Technical data	
Pressure ratio	1:1
Pump tube diameter	2" (52 mm)
Air piston diameter	2" (50 mm)
Air piston stroke	3" (100 mm)
Maximum free flow capacity <sup>1</sup>	11.5 gpm (41 l/min)
Minimum air pressure	40 psi (3 bar)
Maximum air pressure	140 psi (10 bar)
Maximum fluid pressure	140 psi (10 bar)
Air inlet	1/4" NPSM (F)
Fluid outlet	3/4" BSP (F)
Fluid inlet	1" BSP (F)
Wetted parts	AISI 316 stainless steel, PTFE and Viton®

<sup>1</sup> Free delivery at 100 psi air inlet pressure, using water.



- Air inlet pressure 84 psi (6 bar).
- Air inlet pressure 63 psi (4,5 bar).
- Air inlet pressure 42 psi (3 bar).

### PM 4, 3:1 STAINLESS STEEL PUMP



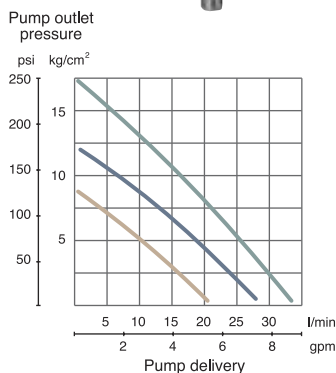
#### Model 333 120 Old Model 496 SS

Double acting, medium pressure and high delivery air operated pumps manufactured in AISI 316 stainless steel. Pumps can be used in large systems that include pipelines and several outlets even with simultaneous operation. The air motor is divorced from the pump to avoid fluid contamination inside the motor, making this pump compatible with slightly corrosive, low viscosity fluids such as paint solvents, cleaning fluids, anti-freeze (glycol), detergents, grease removers, alcohols, turpentine, petrochemical products, anticorrosion products, light inks, lacquer, wood varnish, etc.

Pumps include bung adapter and a 28" PVC suction tube for use with 55 gallon drums.

Technical data	
Pressure ratio	3:1
Pump tube diameter	2" (52 mm)
Air piston diameter	3.55" (90 mm)
Air piston stroke	4" (100 mm)
Maximum free flow capacity <sup>1</sup>	9.8 gpm (35 l/min)
Minimum air pressure	40 psi (3 bar)
Maximum air pressure	140 psi (10 bar)
Maximum fluid pressure	420 psi (30 bar)
Air inlet	3/8" NPSM (F)
Fluid outlet	1" NPT (F)
Fluid inlet	1" NPT (F)
Wetted parts	AISI 316 stainless steel, PTFE and Viton®

<sup>1</sup> Free delivery at 100 psi air inlet pressure, using water.



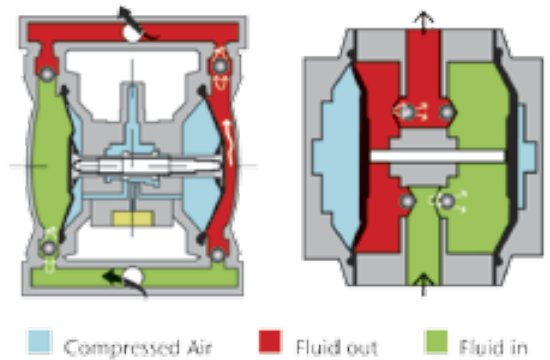
- Air inlet pressure 84 psi (6 bar).
- Air inlet pressure 63 psi (4,5 bar).
- Air inlet pressure 42 psi (3 bar).



**directflo®**

**ClassicFlo®**

**DirectFlo®**



Air operated double diaphragm pumps are air-powered, reciprocating positive displacement pumps with two pumping chambers. Two diaphragms, centrally located in the chambers, separate the compressed air (dry side) from the fluid being pumped (wet side). A shaft transmits the reciprocating motion of one diaphragm to the other. A valve (air motor) alternatively distributes the air from one chamber to the other; thus a reciprocating movement of the diaphragms is created. With each stroke fluid is discharged by one of the diaphragms while the opposite diaphragms sucks new fluid into the expanding chamber. Check valves, two on the discharge side and two on the suction side, control and direct the fluid flow.

### MAIN DirectFlo® PUMP FEATURES

In most conventional design diaphragm pumps, the wet side of each diaphragm is on the outside and the dry side is on the inside. This means that manifolds, which create added friction and pressure loss, are required for collecting the fluid into the pump and for its delivery. Traditional diaphragm pump designs result in negative consequences such as high air consumption, highly pulsating flow, complicated maintenance, etc. DirectFlo® pumps work differently. The pumped fluid follows a straight and direct flow path, through the interior of the pump body. This way, DirectFlo® pumps avoid using manifolds. As consequence of their innovative design, DirectFlo® pumps present the following advantages when compared with traditional external flow pumps:

- Compact design.
- Reduced air consumption.
- Reduced flow pulsation.
- Superior performance against back pressure.
- Improved suction capacity.
- Increased diaphragm and shaft life.
- Reduced number of components.
- Lubricant free air motor.
- Extremely easy maintenance.
- In-line installation.

### High value innovations for the market

DirectFlo® pumps are designed to be used as both transfer and system pumps. As system pumps, they can work on demand, for example starting immediately once a delivery valve is opened and stopping once it is closed. In the stalled condition the pump has no air leaks, a common issue with conventional diaphragm pumps.



In addition to the central ball-valves fluid path technique DirectFlo® pumps feature two significant innovations: the Flexible Diaphragm Suspension (FDS) and the Frictionless Pivoting Air Valve (FPV).

### Flexible diaphragm suspension

One of the innovations behind the pump's smooth operation is the patented FDS technology (Flexible Diaphragm Suspension). The diaphragms are not fixed to the shaft and they can move independently of each other and work with soft, overlapping movements. This minimizes pulsations, increases time between services and enables a central flow.

Flexible Diaphragm Suspension reduces fatigue on the diaphragms, contributing to extend their service life. Also, shaft life is significantly increased especially with heavy suction delivery loads, since the diaphragm only pushes the shaft and does not transmit any non-axial loads.

### Frictionless pivoting air valve

The FDS principle is complemented with the use of short stroke diaphragms that reciprocate very quickly thanks to a unique and patented pivoting air mechanism concept. Short strokes dramatically reduces the fatigue on the diaphragms and this contributes to extend their life. A traditional sliding air valve could not be used as the friction in this kind of air valves is too high to allow the extremely fast reversing action required. Therefore a new friction free air valve, the Frictionless Pivoting Air Valve, was developed.

This air valve is the heart of the drive system and ensures very high operational reliability. The air motor, including the power valve module, the end of stroke signal valve sensors and the castings, is self-cleaning and withstands oily, dry, humid or dirty compressed air.

This patented pivot type air valve switches faster than any other diaphragm pump air valve. Switching time is about 3 to 4 milliseconds, while a conventional air valve requires at least 20 times longer switching time.

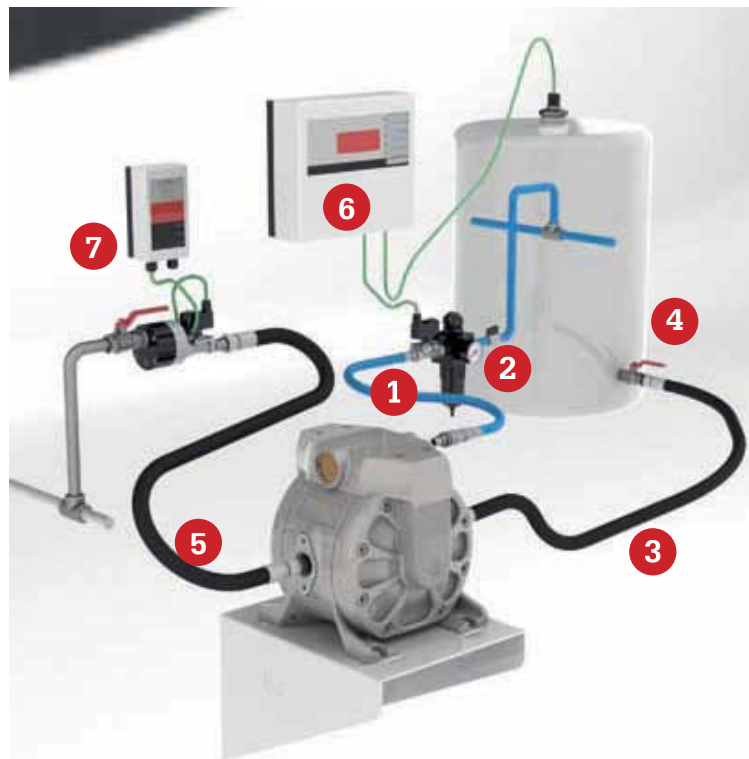
### Simple reliability, reduced to the max

DirectFlo® pumps are extremely simple. The number of internal components is very small, resulting in a very reliable pump with minimum maintenance requirements. Thanks to its central flow design with no manifolds, the pump can be fully serviced without the need to dismount it from the fluid distribution line. Thanks to its simplicity, regular service and maintenance (air motor service, cleaning or replacing valves, replacing worn diaphragms, etc.) can be performed faster and without errors even by untrained personnel.



### DIRECTFLO® PUMP INSTALLATION

Like any other air operated pump, DirectFlo® diaphragm pumps should be installed appropriately to ensure a long and dependable operation life



#### Air supply

Compressed air should be clean and dry. The use of a combined air filter and pressure regulator (1) or an air pressure regulator is recommended. Always install an air shut-off valve (2) for isolating the pump for eventual maintenance purposes. Always use a flexible hose for connecting the pump to the air supply with a quick air coupler at the hose end. At the pump air inlet always fasten an air nipple.

#### Suction side

DirectFlo® pumps can be installed flooded, submerged and with negative suction head. When the pump is installed submerged, the air outlet must be vented outside the fluid. Use the shortest possible suction line. Never exceed pump maximum suction head. Use the suction hose or tube with the largest possible diameter. When using a suction tube, always use a hose (3) to connect the tube to the pump fluid inlet. Install a shut-off valve (4) for isolating the pump from the suction line for eventual maintenance purposes.

#### Delivery side

Like air operated piston pumps, DirectFlo® pumps stall against back pressure. The pump operation can be controlled by simply opening and closing the fluid dispensing valve. When the pump is installed in fluid distribution systems, please observe the following recommendations: Always use a flexible hose for connecting the pump outlet to the fluid distribution line (5). Always install a shut off valve close to the pump outlet to isolate it for eventual to instale it maintenance purposes.

#### Pump control

The pump can be controlled using the Advanced Monitoring, Tank Management or Tank Alert Systems. When connected to an air solenoid valve in the air supply, the Tank Management or the Tank Alert System (6) can prevent the pump from running dry as the system can be programmed to close the solenoid valve once the tank level has reached a minimum value. This way pump life can be increased and there is no possibility of air entering into the fluid line. The Advanced Monitoring System (7) can be used as a powerful batch and dosing system. It offers multiple control options and helps to keep deliveries under control. Through the IFDM module, the system can work with a variety of meters and solenoid valves compatible with the fluid used. Please refer to pages 43-48 for more information about monitoring and control systems.

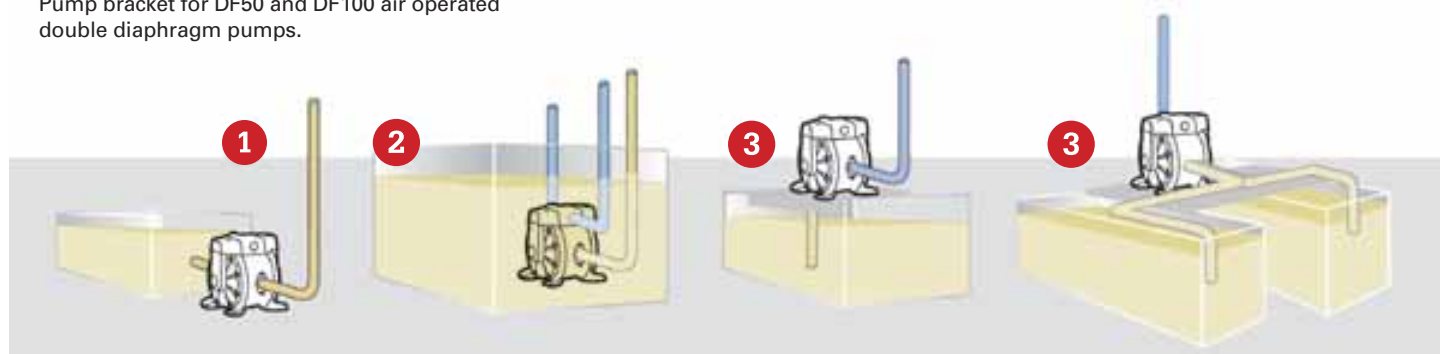
### PUMP MOUNTING ACCESSORIES

Please refer to page 24 for installation accessories. Check material compatibility of suction accessories before using them.

#### 360 100 Pump bracket

Pump bracket for DF50 and DF100 air operated double diaphragm pumps.

- 1** Flooded mounting
- 2** Submerged mounting
- 3** Negative suction head mounting



# AIR OPERATED DOUBLE DIAPHRAGM PUMP

03

DF50 METALLIC PUMPS

For fluid transfer and distribution systems. 50 l/min, 14 US gpm 1/2" fluid port.  
Very robust construction, the pump is fully enclosed in an aluminum shield.

## MODELS AND APPLICATIONS

APPLICATION	WETTED MATERIAL	CHECK BALLS	DIAPHRAGMS	PART N°
Lubricants, waste oil, antifreeze, water.	Aluminum	NBR	Hytrel®	552 010
Lubricants, waste oil, antifreeze, water, windshield wash, brake fluid.	Nickel coated aluminum	Acetal	Hytrel®	552 011

## TECHNICAL DATA

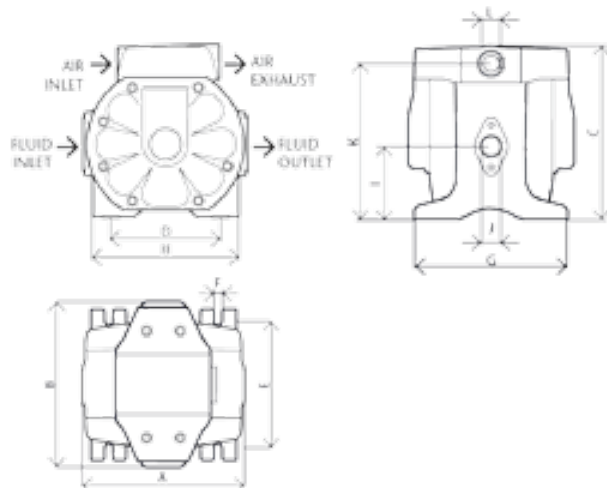
Pressure ratio	1:1
Maximum free delivery (1)	14 US gpm (50 l/min)
Delivery per stroke aprox. (1)	0.026 US gallons (0.1 litres)
Air pressure operating range	45 to 100 psi (3 to 7 bar)
Solids in suspension max size	1/8" (3 mm)
Max dry suction head (1)	20' (6 m)
Max wet suction head (1)	26' (8 m)
Weight	9.4 lb (3.5 Kg)
Fluid inlet	1/2" NPSM (F) and flange
Fluid outlet	1/2" NPSM (F) and flange
Air inlet	3/8" NPSM (F)
Wetted part materials	See Models and Applications

(1) Data measured with water, air inlet pressure 7 bar, 20 °C.

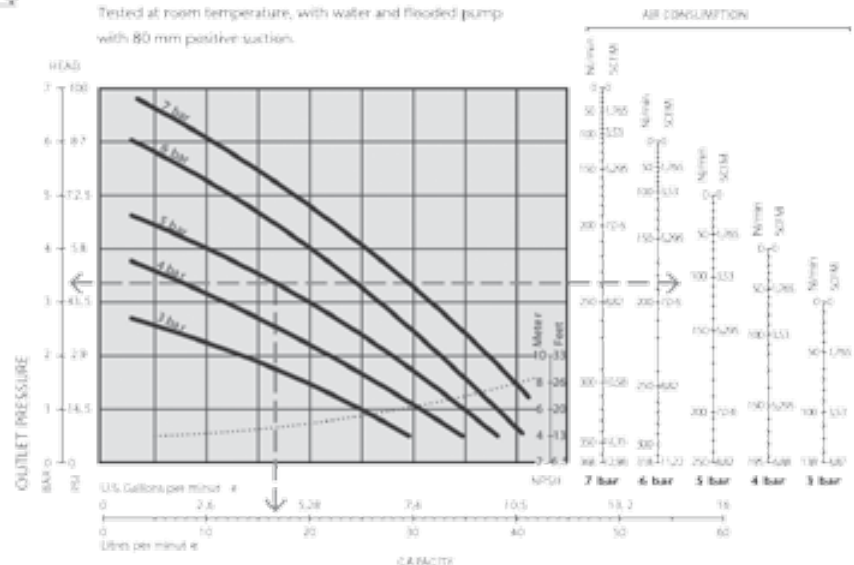


## DIMENSIONS – INCHES (MM)

A	B	C	D	E	F
6.14 (156)	6.3 (160)	6.57 (167)	4.13 (105)	4.8 (122)	.31 (8)
G	H	I	J	K	L
5.75 (146)	5.51 (140)	2.76 (70)		5.9 (150)	



Tested at room temperature, with water and flooded pump with 80 mm positive suction.



# AIR OPERATED DOUBLE DIAPHRAGM PUMP

03

## DIRECTFLO MIXING PUMPS

### DF50 MIXING PUMPS

Metallic and non-metallic pumps for 1:1 mixing of fluids (water/antifreeze, water/windshield washer fluid). 50% proportioning of each fluid is fixed and can not be changed. Very robust construction, the pump is fully enclosed in a shield and has corrosion proof wetted materials.

50 l/min - 14 US gpm; 2 x 3/8" fluid inlet and 1/2" fluid outlet ports.

#### MODELS AND APPLICATIONS

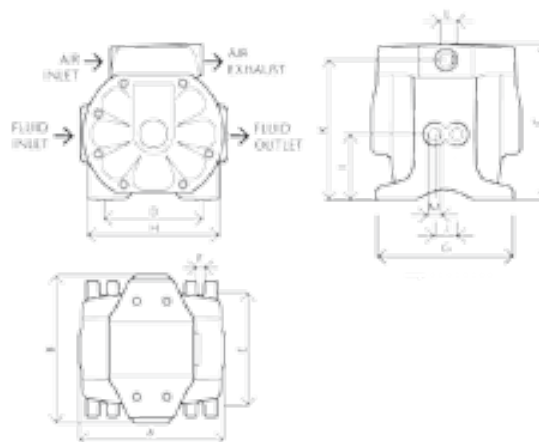
APPLICATION	WETTED MATERIAL	CHECK BALLS	DIAPHRAGMS	PART N°
1:1 solutions of water/antifreeze, windshield wash/water.	Nickel coated aluminium	Acetal	Hytrel®	552 021
1:1 solutions of water/antifreeze, windshield wash/water.	Acetal	Acetal	Hytrel®	552 026



#### TECHNICAL DATA

Pressure ratio	1:1
Maximum free delivery (1)	14 US gpm (50 l/min)
Delivery per stroke aprox. (1)	0.026 US gallons (0.1 litres)
Air pressure operating range	45 to 100 psi (3 to 7 bar)
Solids in suspension max size	1/8" (3 mm)
Max dry suction head (1)	20' (6 m)
Max wet suction head (1)	26'8 m (26')
Weight	9.4 lb (3.5 Kg)
Fluid inlet	2 x 3/8" NPSM (F) and flange
Fluid outlet	1/2" NPSM and flange
Air inlet	3/8" NPSM
Wetted part materials	See Models and Applications

(1) Data measured with water, air inlet pressure 7 bar, 20 °C.



#### DIMENSIONS – INCHES (MM)

A	B	C	D	E	F	
6.14 (156)	6.3 (160)	6.57 (167)	4.13 (105)	4.8 (122)	.31 (8)	
G	H	I	J	K	L	M
5.75 (146)	5.51 (140)	2.76 (70)	.944 (24)	5.9 (150)		3/8"

Pump capacity curve same as DF50 metallic (PN 552 021) and non metallic (PN 552 026) pumps

# AIR OPERATED DOUBLE DIAPHRAGM PUMP

03

DF50 NON METALLIC PUMPS

For fluid transfer and distribution systems.  
Very robust construction. The pump is fully enclosed in a shield and has non-metallic wetted parts.

## MODELS AND APPLICATIONS

APPLICATION	WETTED MATERIAL	CHECK BALLS	DIAPHRAGMS	PART N°
Lubricants, waste oil, antifreeze, transmission fluid, windshield wash, solvents, biodiesel	Acetal	Acetal	Hytrel®	552 016
Lubricants, waste oil, antifreeze, transmission fluid, windshield wash, detergents	Polypropylene	Polypropylene	Hytrel®	552 015

## TECHNICAL DATA

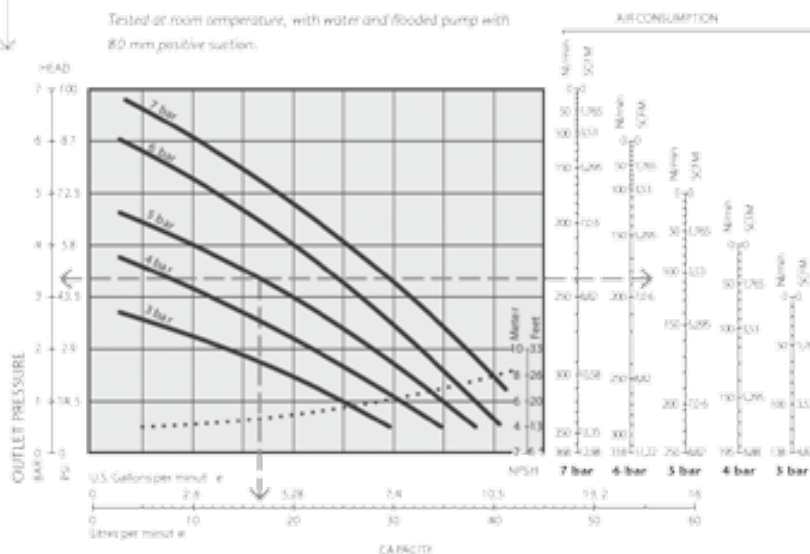
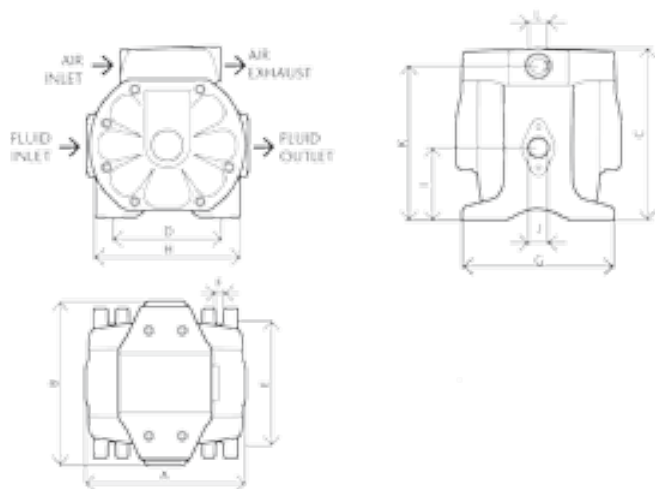
Pressure ratio	1:1
Maximum free delivery (1)	14 US gpm (50 l/min)
Delivery per stroke aprox. (1)	0.026 US gallons (0.1 litres)
Air pressure operating range	45 to 100 psi (3 to 7 bar)
Solids in suspension max size	1/8" (3 mm)
Max dry suction head (1)	20' (6 m)
Max wet suction head (1)	26' (8 m)
Weight	9.4 lb (3.5 Kg)
Fluid inlet	1/2" NPSM (F) and flange
Fluid outlet	1/2" NPSM (F) and flange
Air inlet	3/8" NPSM (F)
Wetted part materials	See Models and Applications

(1) Data measured with water, air inlet pressure 7 bar, 20 °C.



## DIMENSIONS – INCHES (MM)

A	B	C	D	E	F
6.14 (156)	6.3 (160)	6.57 (167)	4.13 (105)	4.8 (122)	.31 (8)
G	H	I		K	
5.75 (146)	5.51 (140)	2.76 (70)		5.9 (150)	



# AIR OPERATED DOUBLE DIAPHRAGM PUMP

03

## DF100 METALLIC PUMPS

For fluid transfer, evacuation and distribution systems. 22.7 gallon -28 US gpm 1" fluid port.  
Very robust construction, the pump is fully enclosed in an aluminum shield.

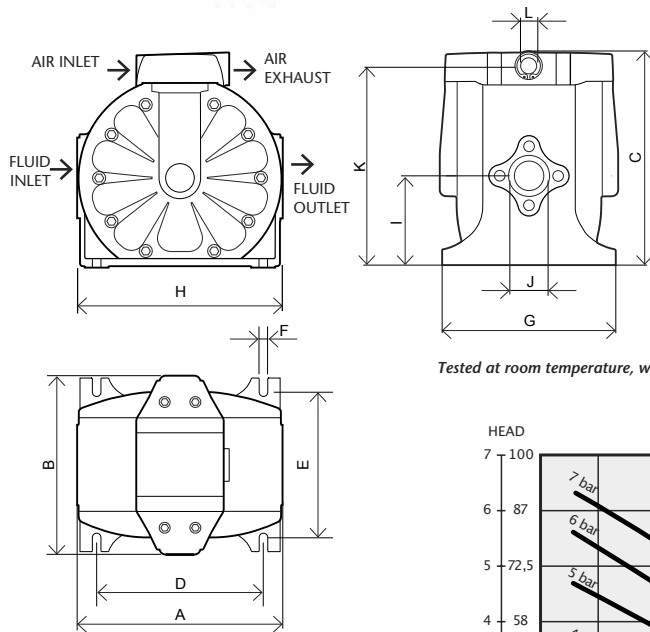
### MODELS AND APPLICATIONS

APPLICATION	WETTED MATERIAL	CHECK BALLS	DIAPHRAGMS	PART N.º
Lubricants, waste oil, antifreeze, transmission fluid, water	Aluminium	Hytrel®	Hytrel®	551 010



### TECHNICAL DATA

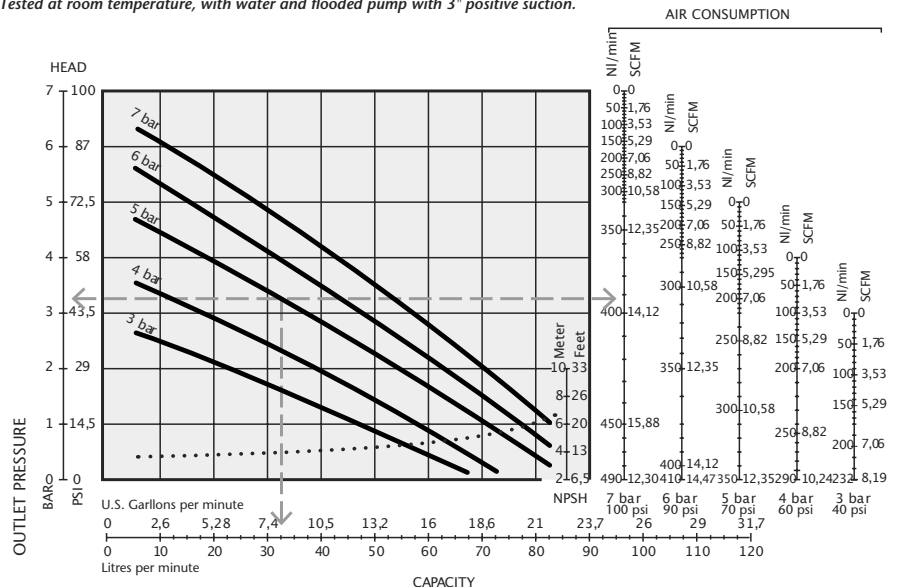
Pressure Ratio	1:1
Maximum free delivery	28 US gpm (100 l/min)
Delivery per stroke	0.09 US gallons (0.35 l)
Air pressure operating range	45 to 100 psi (3 to 7 bar)
Solids in suspension max size	3/16" (4 mm)
Max dry suction head	15' (4.5 m)
Max wet suction head	23' (7 m)
Weight	19.3 lb (7.2 Kg)
Fluid inlet	1" NPSM and flange
Fluid outlet	1" NPSM and flange
Air inlet	3/8" NPSM
Wetted part materials	See Models and Applications



### DIMENSIONS

A	B	C	D	E	F
8.5"	7.4"	8.9"	6.9"	6.1"	0.3"
G	H	I	J	K	L
7.24"	8.3"	3.7"	1"	8,3"	3/8"

Tested at room temperature, with water and flooded pump with 3" positive suction.





## AIR OPERATED DIAPHRAGM PUMPS

### Rugged Bolted Construction

All pumps feature bolted construction, which eliminates leaks and simplifies post-maintenance reassembly. Bolted construction is superior to clamp band retainers, which frequently require frustrating, unnecessary leakage rebuilds from misalignment during reassembly.

### Readily Accessible Air Valve

Inspection and maintenance may be performed without removing the pump from service.

### Pilot Valve Assembly

Maintenance free with no cumbersome snap rings or lubricated o-rings to replace or repair.



### Diaphragm Dynamics

Extensive research has led to the development of an optimal stroke length that maximizes diaphragm life and performance while minimizing downtime and maintenance costs.

### Non-Metallic Components

Engineered design, utilizing state-of-the-art solid modeling and finite element analysis techniques. Patented rib and shell methods of injection molding greatly increase the component strength and reduce material usage.



## Classic Flo Air Operated Diaphragm Pumps

### Air Valve Technology

Air valve technology is the heart of any air-powered double diaphragm pump and determines reliability. Classic Flo pumps have three patents on the "field proven" valve and enjoy a superior reputation throughout the industry.

### Unified Air Valve Concept

To simplify, Samson offers two common size air valve assemblies within five sizes of pumps. (3/4" & 1" pumps and 1-1/2", 2" & 3" pumps) further reducing reassembly confusion and parts inventory. Other air-powered double diaphragm pump manufacturers offer multiple air valve designs and revisions in an effort to address pump reliability problems. Multiple designs and revisions typically create maintenance rebuild issues, parts confusion and obsolete inventory. Whether your pumps are functioning continuously or intermittently, at high flow or low pressure, using dirty or clean air, we've got one field proven design.

### Truly Non-Lubricated Air Valve

This patented air valve never needs lubrication or pre-packing. The advanced design eliminates the need for external lubrication which can lead to contamination and maintenance headaches.

### Component Replaceable

All air valve can be restored with individual components, without requiring complete valve and housing replacement. Many competitor air valves incorporate a complicated design which requires complete replacement of the valve assembly and housing, further increasing the cost of ownership.

For use with 250, 260, 261, 262, 263, 264 & 265  
For use with 266, 267, 268, 269 & 270



### Non-Stalling

A patented non-centering, spring assisted shifter is incorporated into every Classic Flo pump, ensuring a positive shift every time. The 304 Stainless Steel C-springs provide exceptional durability and longevity and are tested to over 300 million cycles! The spring also helps to aid in reliable start-up after long dead head applications.



# AIR OPERATED DOUBLE DIAPHRAGM PUMP

# 03

## CLASSICFLO PUMPS

Part No.	Body	Diaphragms	Balls & O-Rings	Free Delivery in GPM	Fluid Inlet/Outlet	Max Suction Lift	Air Inlet	Max Inlet Air PSI	Applications
2825	Polypropylene	Teflon	Teflon	3	1/4"	5'	1/4"	100 PSI	DEF, LUBRICANTS, ANTIFREEZE, WINDSHIELD FLUID
2827	Polypropylene	Buna N	Buna N	5	3/8"	10'	1/4"	100 PSI	LUBRICANTS, ANTIFREEZE, WINDSHIELD FLUID
2829	Polypropylene	Buna N	Buna N	13	1/2"	5'	1/4"	100 PSI	LUBRICANTS, ANTIFREEZE, WINDSHIELD FLUID
2831	Aluminum	Buna N	Buna N	13	1/2"	5'	1/4"	100 PSI	LUBRICANTS, USED OIL, USED ANTIFREEZE, ANTIFREEZE, DIESEL
2845	Polypropylene	Santoprene	EPDM	13	1/2"	5'	1/4"	100 PSI	DEF, ANTIFREEZE, WINDSHIELD FLUID
2833	Aluminum	Buna N	Buna N	30	1"	18'	3/8"	100 PSI	LUBRICANTS, USED OIL, USED ANTIFREEZE, ANTIFREEZE, DIESEL
2834	Aluminum	Buna N	Buna N	30	1"	18'	3/8"	100 PSI	UL LISTED; LUBRICANTS, USED OIL, USED ANTIFREEZE, ANTIFREEZE, DIESEL
2841	Polypropylene	Santoprene	EPDM	30	3/4"	18'	3/8"	100 PSI	DEF, ANTIFREEZE, WINDSHIELD FLUID
2835	Aluminum	Buna N	Buna N	45	1"	18'	3/8"	100 PSI	LUBRICANTS, USED OIL, USED ANTIFREEZE, ANTIFREEZE, DIESEL
2842	Polypropylene	Santoprene	EPDM	45	1"	18'	3/8"	100 PSI	DEF, ANTIFREEZE, WINDSHIELD FLUID
2838	Aluminum	Buna N	Buna N	100	1 1/2"	18'	1/2"	100 PSI	LUBRICANTS, USED OIL, USED ANTIFREEZE, ANTIFREEZE, DIESEL
2843	Polypropylene	Santoprene	EPDM	100	1 1/2"	18'	1/2"	100 PSI	DEF, ANTIFREEZE, WINDSHIELD FLUID
2840	Aluminum	Buna N	Buna N	160	2"	19'	3/4"	100 PSI	LUBRICANTS, USED OIL, USED ANTIFREEZE, ANTIFREEZE, DIESEL
2844	Polypropylene	Santoprene	EPDM	160	2"	19'	3/4"	100 PSI	DEF, ANTIFREEZE, WINDSHIELD FLUID
2850	Polypropylene	Santoprene	EPDM	215	3"	19'	3/4"	100 PSI	DEF, ANTIFREEZE, WINDSHIELD FLUID
2851	Aluminum	Buna N	Buna N	215	3"	19'	3/4"	100 PSI	LUBRICANTS, USED OIL, USED ANTIFREEZE, ANTIFREEZE, DIESEL

- Data sheets on each pump model available at [www.samsoncorporation/datasheets](http://www.samsoncorporation/datasheets)
  - All data sheets include specifications and performance curves
- Check with Samson customer service for compatibility issues, higher flow rates, or other diaphragm pump needs not shown here

## DIAPHRAGM PUMP ACCESSORIES

Optional Accessories						
Pump Model No.	Wall Mount Bracket	Pressure Relief Kit	Air Filter/Reg combo	50/50 inlet mixing manifold	Drum Mount Kit	Hose Connection Kit*
2825	360100	107004	955	N/A	N/A	922000
2827	360100	107006	955	N/A	N/A	923000
2829	360109	107008	955	2805	208602	949000
2831	360109	107008	955	2805	208602	949000
2833	360109	107016	957	2807	N/A	961000
2834	360109	107016	957	2807	N/A	961000
2835	360131	107016	957	2810	N/A	961000
2838	N/A	107024	958	N/A	N/A	961015
2840	N/A	107032	952	N/A	N/A	961020

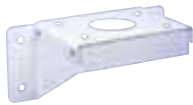
A low pressure ball-valve is included with each pump to control air supply.



*Hose Connection Kit Breakdowns					
Hose Kit Model No.	Product Inlet/Outlet Hose Model No.	Hose Liner Material	Product Hose End Material	Product Hose Fittings	Air Hose Model Number
922000	802000 – 5' x 1/4"	Teflon	Nylon	1/4" NPTM BE	802 – 5' x 1/4"
923000	813000 – 5' x 3/8"	Buna-N	Nylon	3/8" NPTM BE	802 – 5' x 1/4"
949000	823000 – 5' x 1/2"	Buna-N	Nylon	1/2" NPTM BE	802 – 5' x 1/4"
961000	863405 – 5' x 1"	Buna-N	Nylon	1" NPTM BE	813 – 5' x 3/8"
961015	863505 – 5' x 1 1/2"	Buna-N	Nylon	1 1/2" NPTM BE	823 – 5' x 1/2"
961020	863605 – 5' x 2"	Buna-N	Nylon	2" NPTM BE	857405 – 5' x 3/4"

Diaphragm pump hose kit includes a quantity of three five foot long hoses: one inlet and one outlet product hose and one air hose. Product hose liners are matched to the pump diaphragm material for full compatibility, and have nylon end fittings. Air hoses have EPDM liners and zinc plated steel ends.

### WALL MOUNT BRACKETS



Steel bracket for wall mounting of diaphragm pump. Model 360 109 shown.

### PRESSURE RELIEF VALVE



0-250 psi adjustable pressure relief valve kit sized to fit pump. Manufactured in aluminum with Buna N diaphragm and brass fittings. Includes line mounting tee and tank return line.

### DUAL INLET MANIFOLD



Dual inlet manifold kit. Enables pump to pull product from two separate reservoirs and output a 50/50 mixture. Poly model 2805 shown. Models 2807 and 2810 are similar, but in aluminum.

### DRUM MOUNTING KIT

The drum mount kit allows you to mount a diaphragm pump to a standard bung opening with a unique polypropylene suction kit.





**Applications:** Delivery of compressed air, low pressure water and fluids; medium pressure lubricants, high pressure hot and cold water and high pressure grease in vehicle maintenance shops, general industry, agriculture, service stations, marine, aviation, etc.

Aluminium and composite material single arm hose reel for air, water, oil, antifreeze, windshield wash fluid, high pressure hot and cold water and grease with hose capacity up to 60' (18.25 m) x 1/2" hose.

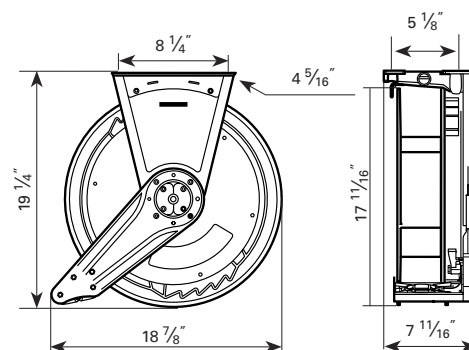
**Main features:**

- Aluminium base and guide arm provides this reel with the rigidity to withstand even the most demanding applications, while offering a reduced weight for easy off installation (hose reel weight with 50' (15 m) x 1/2" hose is only 33 lbs (14.9 Kg.).
- Epoxy powder coated aluminium base and arm, composite material spool and stainless steel fasteners provide superb corrosion resistance for working in damp environments.
- Nickel protected shaft and swivel for wear and corrosion resistance and wide fluid compatibility.
- Spool mounted on two sealed and permanently lubricated EMQ (electric motor quality) 10,000 rpm rated chrome steel ball bearings for an easy pull out of the hose and better spring performance.
- Large effective radial latching area for easier operation.
- Round 6 roller hose outlet increases hose life, prevents hose pinching and reduces friction.



Single arm design allows easy maintenance: hose replacement and ratchet and swivel inspection can be done without disassembly of the reel.

Additionally, power spring tension can be adjusted on-site with the system under pressure and without the need to use any tool or to remove the hose stop and control valve, regardless of the reel height and mounting position. Spring tension can be increased simply by adding hose loops to the spool and it can be decreased by removing hose loops.



INLET HOSE INCLUDED WITH ALL SERIES 506 REELS.

PART N°	HOSE LENGTH	HOSE DIAMETER I.D. - O.D.	HOSE OUTLET THREAD	INLET THREAD	HOSE TYPE	HOSE WORKING PRESSURE	NET WEIGHT	BARE REEL PART N°
<b>COMPRESSED AIR AND LOW PRESSURE WATER, WINDSHIELD WASHER AND ANTIFREEZE</b>								
506 101-A	30' - (9.1 m)	3/8" - 11/16"	3/8" NPT (M)	1/2" NPT (M)	A	300 psi - (20 bar)	26.7 lb	506 920-A
506 121-A	50' - (15.2 m)	3/8" - 11/16"	3/8" NPT (M)	1/2" NPT (M)	A	300 psi - (20 bar)	31.3 lb	506 922-A
506 122-A	50' - (15.2 m)	1/2" - 25/32"	1/2" NPT (M)	1/2" NPT (M)	A	300 psi - (20 bar)	32.8 lb	506 912-A
<b>OIL, ANTIFREEZE, AIR AND WATER</b>								
506 202-A	30' - (9.1 m)	1/2" - 23/32"	1/2" NPT (M)	1/2" NPT (M)	G	1.500 psi - (100 bar)	27.8 lb	506 920-A
506 222-A	50' - (15.2 m)	1/2" - 23/32"	1/2" NPT (M)	1/2" NPT (M)	G	1.500 psi - (100 bar)	32.8 lb	506 922-A
506 212-A	60' - (18.25 m)	1/2" - 23/32"	1/2" NPT (M)	1/2" NPT (M)	G	1.500 psi - (100 bar)	34.6 lb	506 924-A
<b>WASTE OIL SUCTION</b>								
506 503-A	20' - (6.1 m)	5/8" - 29/32"	1/2" NPT (M)	1/2" NPT (M)	D	1.500 psi - (100 bar)	29.3 lb	506 950-A
<b>GREASE</b>								
506 300-A	30' - (9.1 m)	1/4" - 9/16"	1/4" NPT (M)	1/4" NPT (M)	E	5000 psi - (350 bar)	27.3 lb	506 930-A
506 321-A	50' - (15.2 m)	3/8" - 11/16"	1/4" NPT (M)	3/8" NPT (M)	E	4000 psi - (280 bar)	35.3 lb	506 936-A
506 311-A	60' - (18.25 m)	3/8" - 11/16"	1/4" NPT (M)	3/8" NPT (M)	E	4000 psi - (280 bar)	37.5 lb	506 935-A
<b>DEF (AISI 316 STAINLESS STEEL SHAFT AND SWIVEL)</b>								
506 702-A	30' - (9.1 m)	1/2" - 27/32"	3/4" BSPP (M)	1/2" BSPP (M)	B	300 psi - (20 bar)	28.7 lb	506 970-A
506 722-A	50' - (5.2 m)	1/2" - 27/32"	3/4" BSPP (M)	1/2" BSPP (M)	B	300 psi - (20 bar)	28.7 lb	506 970-A

• Models with 60' of hose should be used in installations allowing a minimum of 10' of fluid hose hanging from the reel, and never with the hose totally coiled inside the reel. All models with hose include a 2'6" inlet hose.

HOSE	HOSE TYPE	TEMP RANGE		HOSE FITTINGS IN FREE HOSE ENDS		HOSE FITTINGS FOR SHAFT AND SWIVEL CONNECTIONS	
		MIN.	MAX.	DISTRIBUTION HOSE	INLET HOSE	DISTRIBUTION HOSE SWIVEL CONNECTION	INLET HOSE SHAFT CONNECTION
A	BUNA S (SBR). Synthetic textile braid.	-24° F	+160° F	Male BSPT, zinc plated steel.	Male BSPT, zinc plated steel.	Swept elbow female BSP 60° cone, zinc plated steel.	Swept elbow female BSP 60° cone, zinc plated steel.
B	EPDM. Synthetic textile braid.	-40° F	+200° F	Stainless steel female BSP 60° cone and male BSP 60° cone adaptor.	Stainless steel female BSP 60° cone and male BSP 60° cone adaptor.	Stainless steel swept elbow female BSP 60° cone adaptor.	Stainless steel swept elbow female BSP 60° cone adaptor.
C	BUNA S (SBR). One steel braid.	-40° F	+300° F	Female BSP 60° cone and male BSP 60° cone adaptor, zinc plated steel.	Female BSP 60° cone and male BSP 60° cone adaptor, zinc plated steel.	Swept elbow female BSP 60° cone, zinc plated steel.	Swept elbow female BSP 60° cone, zinc plated steel.
D	BUNA N (NBR). One steel braid.	-40° F	+212 °F	Female BSP 60° cone and male BSP 60° cone adaptor, zinc plated steel.	Female BSP 60° cone and male BSP 60° cone adaptor, zinc plated steel.	Swept elbow female BSP 60° cone, zinc plated steel.	Swept elbow female BSP 60° cone, zinc plated steel.
E	BUNA N (NBR). One high density steel braid.	-40° F	+212 °F	Male BSPT, zinc plated steel.	Female BSP 60° cone and male BSP 60° cone adaptor, zinc plated steel.	Swept elbow female BSP 60° cone, zinc plated steel.	Swept elbow female BSP 60° cone, zinc plated steel.
F	EPDM with syntetic braid	-40° F	+200° F	Male NPT Zinc plated Steel	Male NPT Swivel Zinc plated Steel	Male NPT Swivel Zinc plated Steel	Male NPT Zinc plated Steel
G	Co-Polyester liner with 1X Steel Braid	-40° F	+212° F	Male NPT Zinc plated Steel	Male NPT Swivel Zinc plated Steel	Male NPT Swivel Zinc plated Steel	Male NPT Zinc plated Steel
H	Co-Polyester liner with 2X Steel Braid	-40° F	+212° F	Male NPT Zinc plated Steel	Male NPT Swivel Zinc plated Steel	Male NPT Swivel Zinc plated Steel	Male NPT Zinc plated Steel
I	Polyurethane liner with TPR cover	-40° F	+140° F	Stainless	Stainless Swivel	Stainless Swivel	Stainless

NBR: Nitrile butadiene rubber. • SBR: Styrene butadiene rubber. • EPDM: Ethylene propylene diene M-class rubber.

### 1400 SERIES DOUBLE PEDESTAL ARM HOSE REEL

#### OPEN TYPE HOSE REELS - 1400 SERIES



**Applications:** Delivery of compressed air, low pressure water, lubricants and grease in vehicle maintenance shops, general industry, agriculture, service stations, etc.

Double pedestal hose reel for air, low pressure water, medium pressure lubricants and high pressure grease. All metal arm construction, can handle up to 40' of 1/2" hose.

**Main features:**

- Brass forged shaft compatible with a wide range of fluids ensures corrosion free and leak proof operation.
- Robust all steel construction with double pedestal arm design.
- Special fatigue resistant steel spring for years of durable performance.
- Epoxy powder coated for increased wear resistance.
- Positionable outlet arms for an optimum operation in any mounting position: wall, ceiling, floor or tank.
- No special maintenance required.

Model No.	Hose Length	Hose Inner Diameter	Outlet Thread	Inlet Thread	Hose ° Type	Hose Pressure Rating	Delivery Hose Part No.	Inlet Hose Part No.	Net Weight	Reel w/ out Hose
<b>1400 Series</b>										
Compressed air, Antifreeze, WW Washer, and low pressure Water										
1411	30'	3/8"	3/8" NPT (M)	1/2" NPSM (F)	F	300PSI	817	822	41	1402
1413	40'	3/8"	3/8" NPT (M)	1/2" NPSM (F)	F	300PSI	818	822	43	1402
1417	40'	1/2"	1/2" NPT (M)	1/2" NPSM (F)	F	300PSI	828	822	46	1402
Medium Pressure Oil and other compatible fluids										
1424	30'	3/8"	3/8" NPT (M)	1/2" NPSM (F)	G	1500PSI	839	845	42	1402
1425	40'	3/8"	3/8" NPT (M)	1/2" NPSM (F)	G	1500PSI	841	845	45	1402
1428	30'	1/2"	1/2" NPT (M)	1/2" NPSM (F)	G	1500PSI*	851	845	45	1402
1426	40'	1/2"	1/2" NPT (M)	1/2" NPSM (F)	G	1500PSI*	853	845	44	1402
High Pressure Grease										
1432	40'	1/4"	1/4" NPT (M)	3/8" NPSM (F)	H	5000PSI	878 000	883	45	1403
1435	40'	3/8"	1/4" NPT (M)	3/8" NPSM (F)	H	4000PSI	891 000	883	48	1403

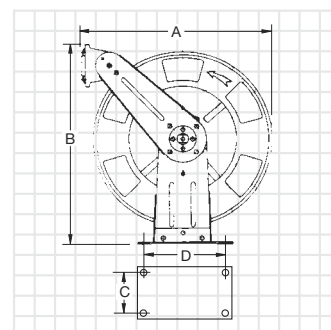
\* Reels include inlet swivel and models with hose include hose stop.

° See page 26 for hose table.

1. Maximum working pressure is the minimum working pressure of the individual components used, normally the hose.

\*2000 PSI Medium pressure hose optionally available

1. Models supplied without inlet hose. Maximum working pressure is the minimum working pressure of the individual components used, normally the hose.

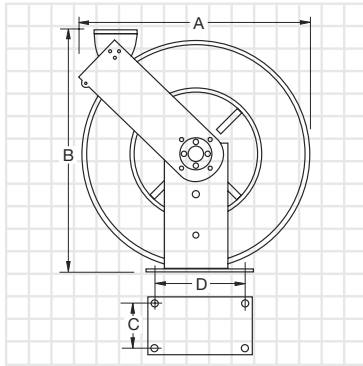


- A:** 19 1/4"
- B:** 20 1/2"
- C:** 5 3/16"
- D:** 8 1/2"

### 1650 SERIES DOUBLE PEDESTAL ARM HOSE REEL

#### OPEN TYPE HOSE REELS - 1650 SERIES

**Applications:** Delivery of compressed air, low and high pressure water, lubricants and grease in vehicle maintenance shops, field service units and lubrication trucks, mining, construction, general industry, agriculture, service stations, etc.



- A: 20 1/2"
- B: 22 1/4"
- C: 5 3/16"
- D: 8 1/2"



Heavy Duty reinforced double pedestal hose reel for air, low and high pressure water, medium pressure oil and high pressure grease. All metal construction, can handle up to 60' of 1/2" hose.

#### Main features:

- Brass forged shaft compatible with a wide range of fluids ensures corrosion free and leak proof operation.
- Very robust reinforced all steel Heavy Duty construction with double pedestal arm design.
- Special fatigue resistant steel spring for years of durable performance.
- Epoxy powder coated for increased wear resistance.
- Positionable outlet arms for an optimum operation in any mounting position: wall, ceiling, floor or tank.
- No special maintenance required.

Model No.	Hose Length	Hose Inner Diameter	Outlet Thread	Inlet Thread	Hose ° Type	Hose Pressure Rating	Delivery Hose Part No.	Inlet Hose Part No.	Net Weight	Reel w/ out Hose
<b>1650 Series</b>										
Compressed air, Antifreeze, WW Washer, and low pressure Water										
1660	50'	3/8"	3/8" NPT (M)	1/2" NPSM (F)	F	300PSI	819	822	63	1652
1661	60'	3/8"	3/8" NPT (M)	1/2" NPSM (F)	F	300PSI	820	822	68	1652
1663	50'	1/2"	1/2" NPT (M)	1/2" NPSM (F)	F	300PSI	829	822	64	1652
1665	60'	1/2"	1/2" NPT (M)	1/2" NPSM (F)	F	300PSI	830	822	66	1652
Medium Pressure Oil and other compatible fluids										
1672	50'	3/8"	3/8" NPT (M)	1/2" NPSM (F)	G	1500PSI	842	845	69	1652
1673	60'	3/8"	3/8" NPT (M)	1/2" NPSM (F)	G	1500PSI	843	845	66	1652
1674	50'	1/2"	1/2" NPT (M)	1/2" NPSM (F)	G	1500PSI*	854	845	66	1652
1676	60'	1/2"	1/2" NPT (M)	1/2" NPSM (F)	G	1500PSI*	855	845	71	1652
High Pressure Grease										
1680	50'	1/4"	1/4" NPT (M)	3/8" NPSM (F)	H	5000PSI	879 000	883	67	1653
1681	60'	1/4"	1/4" NPT (M)	3/8" NPSM (F)	H	5000PSI	880 000	883	72	1653
1682	50'	3/8"	1/4" NPT (M)	3/8" NPSM (F)	H	4000PSI	892 000	883	67	1653
1683	60'	3/8"	1/4" NPT (M)	3/8" NPSM (F)	H	4000PSI	893 000	883	68	1653

° See page 26 for hose table.

\*2000 PSI Medium pressure hose optionally available

1. Models supplied without inlet hose. Maximum working pressure is the minimum working pressure of the individual components used, normally the hose.

### 507 SERIES INDIVIDUALLY ENCLOSED HOSE REEL



#### ENCLOSED REEL PROBLEMS SOLVED

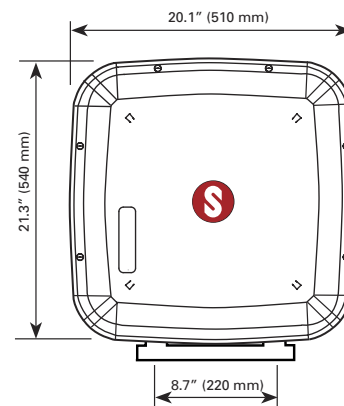
Using modern materials and a unique design, the 507 hose reel eliminates all typical disadvantages of enclosed reels such as limited hose capacity, excessive weight, difficult maintenance, etc.

#### INCREASED HOSE CAPACITY

The 507 hose reel exclusive design allows to efficiently handle up to 50' (15 m) of 1/2" hose. Models for 60' (18 m) are also available for installations allowing a minimum of 10' (3 m) of hose hanging from the reel.

#### FLUID COMPATIBILITY

Nickel protected shaft and swivel provide maximum fluid compatibility. The 507 series reels can be used with a wide variety of fluids: low pressure air, water and windshield washer, medium pressure lubricants and antifreeze solution, high pressure grease and cold and hot water. The shaft is manufactured in one single piece, with no threaded unions, eliminating the risk of leaks.



Model No.	Hose Length	Hose Diameter Noninal - I.D. X O.D.	Outlet Thread	Inlet Thread	Hose Pressure Rating	Hose Burst Pressure	Net Weight
<b>507 Series</b>							
<b>Compressed Air And Low Pressure Water</b>							
507 101	30' - 10 M	3/8" - 17 X 10 Mm	3/8" NPT (M)	1/2" NPT (M)	300 Psi - 20 Bar	650 Psi - 45 Bar	40.6 lb (18.4 Kg)
507 121	50' - 15 M	3/8" - 17 X 10 Mm	3/8" NPT (M)	1/2" NPT (M)	300 Psi - 20 Bar	650 Psi - 45 Bar	45.6 lb (20.7 Kg)
507 122	50' - 15 M	1/2" - 20 X 12.5 Mm	1/2" NPT (M)	1/2" NPT (M)	300 Psi - 20 Bar	650 Psi - 45 Bar	47.2 lb (21.4 Kg)
<b>Oil, Antifreeze, Air And Water</b>							
507 202	30' - 10 M	1/2" - 18 X 12.5 Mm	1/2" NPT (M)	1/2" NPT (M)	1,500 Psi - 100 Bar	6,000 Psi - 400 Bar	41.7 lb (18.9 Kg)
507 222	50' - 15 M	1/2" - 18 X 12.5 Mm	1/2" NPT (M)	1/2" NPT (M)	1,500 Psi - 100 Bar	6,000 Psi - 400 Bar	47.2 lb (21.4 Kg)
507 212	60' - 18 M	1/2" - 18 X 12.5 Mm	1/2" NPT (M)	1/2" NPT (M)	1,500 Psi - 100 Bar	6,000 Psi - 400 Bar	48.9 lb (22.2 Kg)
<b>Waste Oil Suction</b>							
507 503	20' - 6 M	5/8" - 23 X 16 Mm	1/2" NPT (M)	1/2" NPT (M)	1,500 Psi - 100 Bar	6,000 Psi - 400 Bar	42.1 lb (19.1 Kg)
<b>Grease</b>							
507 300	30' - 10 M	1/4" - 14 X 6.4 Mm	1/4" NPT (M)	1/4" NPT (M)	5,000 Psi - 350 Bar	20,000 Psi - 1.400 Bar	41.4 lb (18.8 Kg)
507 321	50' - 15 M	3/8" - 17 X 10 Mm	1/4" NPT (M)	3/8" NPT (M)	4,000 Psi - 280 Bar	16,000 Psi - 1.120 Bar	49.8 lb (22.6 Kg)
507 311	60' - 18 M	3/8" - 17 X 10 Mm	1/4" NPT (M)	3/8" NPT (M)	4,000 Psi - 280 Bar	16,000 Psi - 1.120 Bar	51.8 lb (23.5 Kg)
<b>Adblue (Def)</b>							
507 702	30' - 10 M	1/2" - 21 X 12.5 Mm	3/4" BSPP (M)	1/2" BSPP (M)	300 Psi - 20 Bar	1,200 Psi - 80 Bar	41.9 lb (19 Kg)
507 722	50' - 15 M	1/2" - 21 X 12.5 Mm	3/4" BSPP (M)	1/2" BSPP (M)	300 Psi - 20 Bar	1,200 Psi - 80 Bar	47.4 lb (21.5 Kg)

(1) Swaged male tapered threads. (2) Swaged 60° cone nut and 60° double male adaptor.

• Models with 18 m - 60' of hose should be used in installations allowing a minimum of 3 m - 10' of fluid hose hanging from the reel, and never with the hose totally coiled inside the reel.  
 • All models with hose include a 0,8 m - 2.5' inlet hose.

### 7500 SERIES HIGH CAPACITY HOSE REELS

#### DOUBLE PEDESTAL ARM HOSE REEL - 7500 SERIES

**Applications:** Delivery of low pressure air, water, AdBlue (DEF), diesel and medium pressure lubricants in vehicle maintenance shops, field service units and lubrication trucks, mining, construction, general industry, agriculture, etc.

Heavy Duty reinforced double pedestal arm hose reel. All metal construction, can handle up to 50' of 3/4" hose or 65' of 1/2" hose.

**Main features:**

- Full 3/4" port shaft and swivel for maximum delivery with no flow restriction.
- Very robust reinforced all steel Heavy Duty construction with double pedestal arm design.
- Special fatigue resistant steel spring for years of durable performance.
- Epoxy powder coated for increased wear resistance.
- Positionable outlet arms for an optimum operation in any mounting position: wall, ceiling, floor or tank.
- Model 505 010 has stainless steel shaft and swivel and is compatible with AdBlue (DEF).
- No special maintenance required.



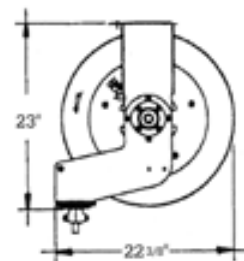
Model No.	Hose Length	Hose Inner Diameter	Outlet Thread	Inlet Thread	Hose Type	Hose Pressure Rating	Delivery Hose Part No.	Inlet Hose Part No.	Net Weight	Reel w/ out Hose
<b>7500 Series</b>										
Compressed air, Antifreeze, WW Washer, and low pressure Water										
7585 †	75'	1/2"	1/2" NPT (M)	3/4" NPSM (F)	F	300PSI	831	832	93	7500 ✓
Medium Pressure Oil and other compatible fluids										
7575 †	75'	1/2"	1/2" NPT (M)	3/4" NPSM (F)	G	1500PSI*	856	860	93	7500 ✓
7550	50'	3/4"	3/4" NPT (M)	3/4" NPSM (F)	G	1250PSI	859	860	93	7500 ✓
High Pressure Grease										
7595 †	75'	3/8"	1/4" NPT (M)	3/8" NPSM (F)	H	4000PSI	894	883	93	7501
DEF										
7551	50'	3/4"	3/4" BSPP (M)	3/4" BSPP (F)	I	210PSI	750505		93	505500
7552	30'	3/4"	1" BSPP (F)	1" BSPP (M)	I	210PSI	750508		93	505500
7553	30'	3/4"	3/4" BSPP (M)	3/4" BSPP (F)	I	210PSI			93	505500

✓77 Bar (1100 psi) max working pressure. Comes SR (side roller) mount. Can be indexed for ceiling mount. Same bolt hole mounting pattern as our standard reels.

° See page 26 for hose table.

\*2000 PSI Medium pressure hose optionally available

† Ceiling mount only



Base is 9" wide and 10" deep

1. Models supplied without inlet hose. Maximum working pressure is the minimum working pressure of the individual components used, normally the hose.

\* Brackets and stands, include the required nuts, bolts and washers for mounting the hose reels on to them.



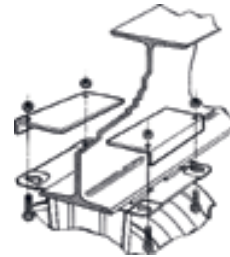
**360 119**  
Fast mount bracket\*  
Facilitates mounting one reel to a wall or ceiling.  
Use with 506, 1400, 1650, 1750, or 7500 series reel.



**360 111**  
Pivoting wall mount bracket\*  
For open type hose reels (1400 and 1650 series) and individually enclosed reels (1750 series).



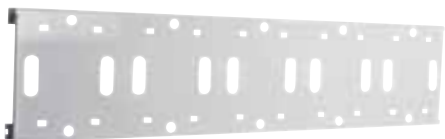
Hose reel brackets to mount hose reels to carts 1305 and 1307. 1399 for cart 1305. 360 135 for cart 1307.



**360 116**  
1389 Hose reel beam bracket\* To hang an open reel 1400 or 1650 series or an enclosed reel 1750 series from an "I" beam with flange. Nuts and bolts included.



**Model 1390**  
Channel mounting bracket; attaches to I-beam. Use two with 2 reel and 3 reel mounting channels Use three with 5 reel mounting channel



#### WALL AND CEILING MOUNTING ACCESSORIES REEL MOUNTING CHANNELS\*

For mounting a reel bank to the ceiling or wall.

- 360 114 For mounting a two reel bank. 21.5" x 12".
- 360 115 For mounting a three reel bank. 32.5" x 12".
- 360 117 For mounting a five reel bank. 54.5" x 12".
- 1390 Secures a reel bank bracket to an I-beam (minimum /maximum I-beam width; 4" - 7".)

#### Model 1515

Set of peel-off stick-on reel identification labels, set includes:  
Anti-freeze, Hydraulic, ATF, Chassis, Water, Gear, Air, SAE 10-40, SAE 10-30, SAE 5-40, SAE 10W, SAE 20-W, SAE 30-W, and one blank label.

#### FLOOR MOUNTING ACCESSORIES REEL STANDS FOR 1400, 1650, 1750, 506 SERIES REELS

**360 160** Six reel stand.  
Allows mounting up to six reels in a bank. Its use is recommended when it is not desired, or possible to hang reels from the ceiling. Ideal for service in two lubrication bays simultaneously.  
Dimensions: Height: 98.5", length: 64.5", width: 27.5".  
Includes paper roll support, waste basket, two perforated pannels, writing desk, drip collector tray and two drawers with lock.



**360 162** Three reel stand. For mounting up to a three reel bank between two lubrication bays. Dimensions: Height: 94.5", length: 47", width: 12".

**360 161** Two reel stand. Height: 93.5".

### GUN HOLDERS AND DRIP POCKETS



**360 127**



**360 122**



**360 126**

360 127, Wall mounted drip pocket and gun holder  
360 122, Wall mounted drip pocket  
360 126, Gun holder for hose reels

### ENCLOSED REEL CABINETS

*Cabinets fit 1400, 1650 and 506 series reels*



Model	Description
1876	Two-reel mounting channel for reel enclosure
1877	Three-reel mounting channel for reel enclosure
1878	Reel enclosure kit-one per reel required
1879	End panel kit-one per reel bank required

#### HIGH VOLUME HOSE REEL 508 SERIES

**Applications:** High volume air and water dispense. High volume oil dispense or transfer. Diesel fuel dispense or transfer. Evacuation of waste oil.

Heavy Duty reel built for maximum durability.

**Main features:**

- Long-life heavy duty design. Double arm full metal design provides the robustness and strength required to stand the most demanding environments. Heavy gauge steel welded base and epoxy powder coated finishing for longer durability.
- Bearing mounted spool. The spool is mounted on two permanently lubricated and sealed ball bearings. Minimum friction to reduce torque load on power spring for smooth retraction and durability.
- Full port design. Real 1" port, no flow restrictions in shaft and swivel.
- Optimized power spring life and performance. High fatigue resistance spring for a long, trouble free life. Optimized strength for an easy hose pull out, especially those last feet.
- No lockout design. Ratchet is never locked when the hose is fully extended in every mounting position.
- Easy installation and maintenance. Outlet arm can be placed in 6 positions for optimum installation. Hose reel maintenance can be easily performed without dismounting the reel from its position.
- Narrow design. More reels fit in a smaller surface.
- Zinc plated steel rollers. Extra strength and durable outlet for longer life.



Inlet (shaft)	1" NPT(M)	PART NUMBER	HOSE LENGTH	HOSE ID	OUTLET THREAD	INLET THREAD	HOSE WORKING PRESSURE	BARE REEL
Outlet (Swivel joint)	1" NPT(M)							
Inlet hose	1" NPT(M)1	LOW PRESSURE; AIR, WATER, DIESEL						
Delivery hose	1" NPT(M)1	508 125	50' (15M)	1"	1" NPTM	1" NPTF	300 PSI	508 925
Max. working pressure with no hose	1500 psi (100 bar)	508 152	100' (30M)	1/2"	1/2" NPTM	1/2" NPTF	300 PSI	508 942
Operating temperature	14 °F up to 140 °F (-10 °C up to 60 °C)	MEDIUM PRESSURE; LUBRICANTS						
Bearings	Sealed ball bearings	508 225	50' (15M)	1"	1" NPTM	1" NPTF	1500 PSI	508 925
Weight with no hose	88 lb (40 kg)	508 234	65' (20M)	3/4"	3/4" NPTM	3/4" NPTF	1500 PSI	508 924
		508 244	80' (25M)	3/4"	3/4" NPTM	3/4" NPTF	1500 PSI	508 944
		508 252	100' (30M)	1/2"	1/2" NPTM	1/2" NPTF	1500 PSI	508 942

#### 1800 SERIES MANUAL REWIND

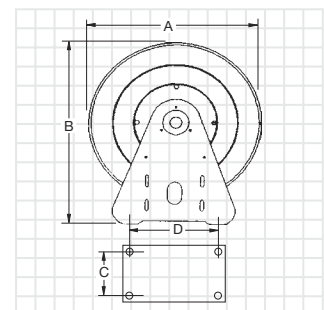
Unitized construction: Drum, spool and frame all fabricated of heavy gauge steel. No welds. All bolted construction with self-locking, vibration-proof fasteners. Locking spool prevents rotation when not in use. Permanently lubricated dual main bearings. Full flow swivel and shaft for max delivery. Nickel-plated swivel with viton "O" ring seals. Adjustable drag for dereeling.



Model	Hose Capacity	Operating Pressure	Inlet
1803	200' of 1/2" I.D.	1000 PSI	1/2"
1805	100' of 3/4" I.D.	1000 PSI	3/4"

Manual Rewind Series are reel only models (No hose)

- A: 17<sup>3</sup>/<sub>4</sub>"
- B: 20<sup>1</sup>/<sub>4</sub>"
- C: 9"
- D: 15<sup>3</sup>/<sub>4</sub>"





# HOSE REELS

## REELS

04

### NITROGEN DISPENSING HOSE REEL



MODEL	BARE REEL	DESCRIPTION	HOSE MODEL
1410	1400	30' of 3/8" I.D. Green hose	817 G
1412	1400	40' of 3/8" I.D. Green hose	818 G

Reels are shipped as standard ceiling mount reels.  
Please specify - SR for side roller outlet index when ordering.

Note: Order optional inlet connecting hose extra

MODEL	BARE REEL	DESCRIPTION	HOSE MODEL
1662	1650	50' of 3/8" I.D. Green hose	819 G
1664	1650	60' of 3/8" I.D. Green hose	820 G

Reels are shipped as standard ceiling mount reels.  
Please specify - SR for side roller outlet index when ordering.

Note: Order optional inlet connecting hose extra

### OXYGEN-ACETYLENE REELS

#### DUAL HOSE OXYGEN-ACETYLENE REELS

Dual swivel body made from aluminum, coated for resistance, designed for positive separation of gases. Special molded, double sealed "O" rings prevent leakage.

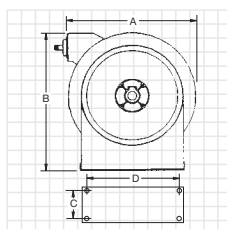
Inlet and swivel body identified with grooves on the acetylene side assures proper installation.

Hose supplied is Twin-Siemese type meeting R.M.A. and C.G.A. type V.D., grade RM specifications. Use of other types is not recommended.

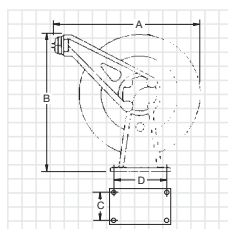


Model 1852

Model 1854



A: 13 3/4"; B: 14 1/2"  
C: 2 1/2"; D: 9 3/4"



A: 19"; B: 21 1/4"  
C: 3 3/4"; D: 7 3/4"

MODEL	TWIN HOSE	PSI
1852	25' 1/4"	200
1854	50' 1/4"	200
TWIN INLET (ORDER EXTRA)		
899	2' 1/4"	200

### ELECTRIC CORD REELS



#### Model 3173

Power supply reel with 30' retractable 3 outlet power supply cord. Features include 3-wire cord for positive grounding of electrical tools, and one piece molded plugs for added safety. Includes necessary hardware for wall or ceiling mounting. Fits all standard grounded electrical outlets. 16/3 cord rated 10 amps.

#### Model 4040

Double power supply reel. All models have two outlets in a rugged metal enclosure, with spring loaded protective covers over the outlets. Box is grounded. Water tight strain relief bushing on all models where reel cord enter top of box. 115 volt, 60 hz, single phase, 20 amp. Adjustable guide arm, allows wall, ceiling, or bench mounting. Industrial type collector ring transfers stationary power to the rotating reel cord. 6' inlet power cord with ground plug. 40' oil resistant type SJTO/SJTOW-A, three conductor 14/3 cord.

### ELECTRIC LIGHT CORD REELS



#### Model 3174

Automatic retractable trouble light with built-in safety switch. Light turns on when cord is pulled out. Shuts off when cord is fully retracted. Safety switch shuts off current at power source...no switch or tool tap in handle. Bulb guard insulated to prevent sparking. 40' cord length. 18/2 cord. Stubby light.

#### Model 3175

Similar to 3174, except 50' 18/2 cord with switch in handle.

#### Model 3171

40' stubby light reel with tool tap in handle.

#### Model 3172

30' stubby light reel with switch in handle.

# HOSE REELS

## REELS

04

### REPLACEMENT HOSE ASSEMBLIES

MODEL NO.	I.D.	LENGTH IN FEET	HOSE END FITTINGS*	WORKING PRESSURE PSI
<b>Air/Water Low Pressure Hose – SAE 100 R6 *(Swivel One End)</b>				
801	1/4"	2	1/4" NPTM	300
802	1/4"	5	1/4" NPTM	300
803	1/4"	10	1/4" NPTM	300
805	1/4"	25	1/4" NPTM	300
806	1/4"	30	1/4" NPTM	300
808	1/4"	40	1/4" NPTM	300
809	1/4"	50	1/4" NPTM	300
812	3/8"	2	3/8" NPTM	300
813	3/8"	5	3/8" NPTM	300
814	3/8"	10	3/8" NPTM	300
815	3/8"	15	3/8" NPTM	300
816	3/8"	25	3/8" NPTM	300
817	3/8"	30	3/8" NPTM	300
818	3/8"	40	3/8" NPTM	300
819	3/8"	50	3/8" NPTM	300
819-4	3/8"	50	1/4" NPTM	300
820	3/8"	60	3/8" NPTM	300
822	1/2"	2	1/2" NPTM	300
823	1/2"	5	1/2" NPTM	300
824	1/2"	10	1/2" NPTM	300
825	1/2"	15	1/2" NPTM	300
826	1/2"	30	1/2" NPTM	300
828	1/2"	40	1/2" NPTM	300
829	1/2"	50	1/2" NPTM	300
830	1/2"	60	1/2" NPTM	300
831	1/2"	70	1/2" NPTM	300

MODEL NO.	I.D.	LENGTH IN FEET	HOSE END FITTINGS*	WORKING PRESSURE PSI
<b>Grease High Pressure Hose – SAE 100 R2 *(Swivel One End)</b>				
870	1/4"	2	1/4" NPT MBE	5000
871 000	1/4"	5	1/4" NPTM	5000
872 000	1/4"	10	1/4" NPTM	5000
873 000	1/4"	15	1/4" NPTM	5000
874 000	1/4"	20	1/4" NPTM	5000
875 000 *	1/4"	25	1/4" NPTM	5000
876 000 *	1/4"	30	1/4" NPTM	5000
877 000	1/4"	7	1/4" NPTM	5000
878 000 *	1/4"	40	1/4" NPTM	5000
879 000 *	1/4"	50	1/4" NPTM	5000
880 000*	1/4"	60	1/4" NPTM	5000
883	3/8"	2	3/8" NPTM	4000
884	3/8"	5	3/8" NPTM	4000
885	3/8"	10	3/8" NPTM	4000
887	3/8"	20	3/8" NPTM	4000
888	3/8"	25	3/8" NPTM	4000
889	3/8"	30	3/8" NPTM	4000
891	3/8"	40	3/8" NPTM	4000
892	3/8"	50	3/8" NPTM	4000
893	3/8"	60	3/8" NPTM	4000

\* 25' through 60' hose lengths are 1/2" male swivel on one end

MODEL NO.	I.D.	LENGTH IN FEET	HOSE END FITTINGS*	WORKING PRESSURE PSI
<b>Oil Medium Pressure Hose – SAE 100 R1 *(Swivel One End)</b>				
833	3/8"	2	3/8" NPTM	1500
834	3/8"	5	3/8" NPTM	1500
835	3/8"	10	3/8" NPTM	1500
837	3/8"	20	3/8" NPTM	1500
838	3/8"	25	3/8" NPTM	1500
839	3/8"	30	3/8" NPTM	1500
841	3/8"	40	3/8" NPTM	1500
842	3/8"	50	3/8" NPTM	1500
843	3/8"	60	3/8" NPTM	1500
845	1/2"	2	1/2" NPTM	1500
846	1/2"	5	1/2" NPTM	1500
847	1/2"	10	1/2" NPTM	1500
848	1/2"	15	1/2" NPTM	1500
849	1/2"	20	1/2" NPTM	1500
850	1/2"	25	1/2" NPTM	1500
851	1/2"	30	1/2" NPTM	1500
853	1/2"	40	1/2" NPTM	1500
854	1/2"	50	1/2" NPTM	1500
855	1/2"	60	1/2" NPTM	1500
856	1/2"	70	1/2" NPTM	1500
857	3/4"	5	3/4" NPTM	1250
858	3/4"	10	3/4" NPTM	1250
859	3/4"	50	3/4" NPTM	1250
860	3/4"	2	3/4" NPTM	1250
861	3/4"	20	3/4" NPTM	1250
863	1"	5	1" NPTM	1250
867	1"	10	1" NPTM	1250

### Inlet connecting hoses

Inlet hoses are used between reel and permanent plumbing, especially where vibration is present. All inlet hoses are 24" long.

Model	Hose I.D."	Hose Ends	PS.I.
801	1/4	1/4" NPT (M)	300
812	3/8	3/8" NPT (M)	300
822	1/2	1/2" NPT (M)	300

833	3/8	3/8" NPT (M)	3000
845	1/2	1/2" NPT (M)	2500

870	1/4	1/4" NPT (M)	5000
883	3/8	3/8" NPT (M)	4000

MODEL NO.	I.D.	LENGTH IN FEET	HOSE END FITTINGS*	WORKING PRESSURE PSI
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#### Twin Welding Inlet Hose

899	1/4"	2	3/8" NPTM	200
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#### Twin Welding Outlet Hose

899-25	1/4"	25	3/8" NPTM	200
899-50	1/4"	50	3/8" NPTM	200

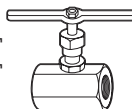
### Hose stops



Model	For Hose I.D.
2022	1/4"
2024	3/8"
2026	1/2"
2032	3/4"
528 001	1"

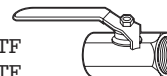
### High Pressure Needle Valve

10,000 PSI	
2077	1/2" NPTF
2089	3/4" NPTF
2093	1" NPTF



### Medium Pressure Ball Valve

2,000 PSI	
2074	1/2" NPTF
2083	3/4" NPTF
2090	1" NPTF



### Low Pressure Ball Valve

400 PSI	
2013	1/4" NPTF
2088	1/2" NPTF
2091	3/4" NPTF
2084	1" NPTF



### NON-METERED GREASE CONTROL HANDLES



413 080

#### Grease control guns

Steel and aluminum high pressure control gun with ergonomic grip. Maximum working pressure: 7140 psi. Inlet thread: 1/4" NPTF, outlet thread: 1/8" NPTF

#### NEW Model 413 077 - Grease control gun OLD Model 1113

Grease control gun with rigid stem and 3 jaw connector (1124). 1/4" NPTF inlet.

#### NEW Model 413 080 - Grease control gun OLD Model 1115-2

Grease control gun with rigid stem, 3 jaw connector (1124) and Z swivel (1105).

#### Model 413 081 - Grease control gun

Grease control gun with double steel braid reinforced rubber hose (140050) and 3 jaw connector (1124).

#### Model 413 082 - Grease control gun

Grease control gun with double steel braid reinforced rubber hose (140050), 3 jaw connector (1124) and Z swivel (1105).

### IN LINE GREASE METER



#### Model 411 103 - In line grease meter

High pressure oval gear meter with digital display. Batch displays in ounces (up to 9999 oz) and permanent totalizer in pounds (up to 999999 lb). Batch display reset button. The meter can be easily calibrated in the field for maximum accuracy.

Works with two 1.5 V AAA alkaline batteries. Maximum pressure: 7140 psi (500 bar). Maximum flow range: up to 4.4 lb/min (2 Kg/min). Precision:  $\pm 3,0\%$ . Inlet outlet connections: 1/8" NPTF.

### DIGITAL-METERED GREASE CONTROL HANDLE



#### Model 1177 - High pressure digitally metered grease control handle

A grease control handle fitted with a high pressure in-line meter, model 411 103. This digital meter allows for better accuracy in greasing applications. Included is a double steel braid reinforced hose with a 3-jaw hydraulic connector, and Z-swivel, model 1105, with 1/4" NPTF inlet.

### GREASE CONTROL GUN SWIVELS



To handle grease hoses easily even at high pressure. For best results, use a straight swivel between the pump and distribution hose and a Z swivel between the hose and grease control gun. Maximum working pressure: 7000 psi (500 bar).

**Model 1109 - Straight grease swivel. 1/4" NPTM x 1/4" NPTF**

**Model 1105 - "Z" grease swivel. 1/4" NPTM x 1/4" NPTF**

**Model 1104 - "Z" grease swivel. 1/4" NPTM x 1/2" x 27 M**

**Model 1108 - "Straight" grease swivel. 1/4" NPTM x 1/2" x 27 M**

**Model 414 200 - "L" grease swivel. 1/4" x 1/4" NPTF**

### DOUBLE STEEL BRAID GREASE OUTLET HOSES



Double steel braid safety rubber hoses for use with air operated greasing equipment. Maximum working pressure: 7000 psi (500 bar). 1/8" NPTM threads.

**Model 142 020 - Steel braid outlet hose with 3 jaw connector. 10" long.**

**Model 142 030 - Steel braid outlet hose with 3 jaw connector. 12" long.**

**Model 142 040 - Steel braid outlet hose with 3 jaw connector. 16" long.**

**Model 142 050 - Steel braid outlet hose with 3 jaw connector. 18" long.**

**Model 142 200 - Steel braid outlet hose with 3 jaw connector. 80" long.**

**Model 140 020 - Steel braid outlet hose. 10" long.**

**Model 140 030 - Steel braid outlet hose. 12" long.**

**Model 140 040 - Steel braid outlet hose. 16" long.**

**Model 140 050 - Steel braid outlet hose. 18" long.**

**Model 140 200 - Steel braid outlet hose. 80" long.**

### HIGH PRESSURE GREASE CONNECTORS.



For use with air operated pumps or hand greasing units on hydraulic type nipples (DIN 71412). Connector head, contact surface and jaws manufactured in hardened steel. Maximum working pressure: 7000 psi (500 bar). Connection thread: 1/8" NPTF.

**Model 1124 - 3 jaw high pressure grease connector.**

**Model 121 000 - 3 jaw high pressure narrow connector.**

### RIGID GREASE OUTLETS



High-pressure grease outlet stems for use in air-powered greasing applications.

**Model 1122 - Angled pipe outlet with 1124 coupler 1/8" NPTM**

**Model 1120 - Angled pipe outlet 1/8" NPTM x 1/8" NPTM**

### STANDARD VOLUME NON-METERED OIL CONTROL HANDLES



1130

Aluminum body, non-metered oil control gun with ergonomically-designed handle. Buna-N rubber valve with progressive operation for comfortable operation even using 10:1 pumps. All guns include a ball bearing inlet swivel and conical fluid inlet screen. Maximum working pressure: 1500 psi (105 bar). Maximum delivery: 6.6 gpm (25 l/min). Fluid inlet thread: 1/2" NPSM (F).

MODEL NO.	APPLICATION	OUTLET TYPE	NOZZLE TYPE
1130	Gear oil	110° rigid swiveling	Manual
1132		None; handle w/ swivel only	None
1134	ATF (transmission fluid)	Straight flexible	Manual
1171	Oils	60° Angle rigid	Semi automatic
1173	All types of lubricants	Flexi hose w/ 90° swivel stem	Manual

### MEDIUM VOLUME NON-METERED OIL CONTROL HANDLE



#### Model 363 088 - Medium flow non-metered oil control handle

Aluminum body, non-metered oil control gun with ergonomically-designed handle. Buna-N rubber valve with progressive operation for comfortable operation even using 10:1 pumps. All guns include a ball bearing inlet swivel and are fitted with a high flow rigid outlet and semi-automatic non drip nozzle (1189). Maximum working pressure: 1500 psi (105 bar). Maximum delivery: 8 gpm (25 l/min). Fluid inlet thread: 1/2" NPSM (F).

### NON-METERED HANDLE FOR WINDSHIELD WASH AND COOLANT MIXES



186 300

#### Model 186 300 - Non-metered handle for windshield wash and coolant mixes

Control gun with composite body and stainless steel valve mechanism for use with fluids like windshield washer, glycol solution and other water based fluids. Includes inlet swivel and flexible outlet with 90° stem. Maximum working pressure: 570 psi (40 bar). Maximum flow: 4 gpm (15 l/min). Inlet threads 1/2" NPSM (F).

### OIL BARS & ACCESSORIES



**Model OB-1** - One tap oil dispensing bar

**Model OB-2** - Two tap oil dispensing bar

**Model OB-3** - Three tap oil dispensing bar

**Model OB-4** - Four tap oil dispensing bar

**Model 361 110** - Outlet kit to add a tap to existing bars

**Model 366 550** - In-line digital meter kit for oil bars

**Model 949 001** - Hose connector kit. Includes 2' connection hose, 1/2" NPTMBE swivel, and 1/2" NPTFBE medium pressure ball valve

### STANDARD VOLUME DIGITAL METER CONTROL HANDLES



2162

Oval gear hose end meter with digital display for measured delivery of lubricants up to SAE 140. Meter is powered by two easily replaceable AAA 1.5 V alkaline batteries. This meter has a resettable batch display in quarts, a resettable totalizer in gallons and a permanent totalizer in gallons. Meters are factory calibrated but for maximum accuracy they can easily be calibrated in the field. The meter is flange coupled to a durable but lightweight oil control gun that incorporates a rugged ball bearing inlet swivel with an inlet filter. All hose end meters are supplied with a protective rubber shroud.

Maximum working pressure: 1500 psi (105 bar). Oil flow range: 1.3 to 5.25 gpm (5 to 20 l/min). Fluid inlet thread: 1/2" NPSM (F).

MODEL NO.	APPLICATION	OUTLET TYPE	NOZZLE TYPE
2159		No outlet; handle w/ meter and swivel only	None
2161	Motor oil	60° angle rigid	Semi automatic
2162	All lubricants	Flex hose w/ 90° swivel stem	Manual
2165	ATF/Oils	Straight flexible	Manual
2163	Gear oil	110° angle rigid swiveling	Manual

### MEDIUM VOLUME DIGITAL METER CONTROL HANDLE



365 088

#### Model 365 088 - Medium flow digitally-metered control handle

Oval gear digital meter for measured delivery of lubricants up to SAE 140. Meter is powered by two easily replaceable AAA 1.5 V alkaline batteries. This meter has a resettable batch display in quarts, a resettable totalizer in gallons, and a permanent totalizer in gallons. Meters are factory calibrated but for maximum accuracy they can easily be field-calibrated.

Maximum working pressure: 1500 psi (105 bar). Oil flow range: 8 gpm. Fluid inlet thread: 1/2" NPSM (F).

Includes a 2159 metered control handle with a high-flow 60° angle rigid outlet, non-drip tip (1189), protective shroud and 1/2" NPSM (F) threads.

### HIGH VOLUME DIGITAL METER CONTROL HANDLES



365 652

#### Model 365 652 - High flow digitally-metered control handle

Oval gear hose end meter with digital display for measured delivery of lubricants up to SAE 140. Meter is powered by two easily replaceable AAA 1.5 V alkaline batteries. This meter has a resettable batch display in quarts, a resettable totalizer in gallons, and a permanent totalizer in gallons. Meters are factory calibrated but for maximum accuracy they can easily be calibrated in the field. The meter is coupled to a high delivery oil control gun that incorporates a rugged ball bearing inlet swivel with an inlet filter and 60° rigid outlet with semi automatic non drip nozzle. All hose end meters are supplied with a protective rubber shroud.

Maximum working pressure: 1500 psi (105 bar). Maximum flow range: up to 6.5 gpm (25 l/min). Fluid inlet thread: 3/4" NPSM (F).

#### Model 1193 - Highest flow digitally-metered control handle *(not shown)*

Model 2122 high flow 3/4" NPTF digital meter replaces standard model 2100 digital meter.

### DIGITAL METER CONTROL HANDLE FOR WATER BASE FLUIDS



#### Model 365 675 - Digital-metered control handle for fluids

Oval gear hose end meter with digital display for measured delivery of fluids such as windshield washer, glycol solution and other water based fluids. Meter is powered by two easily replaceable AAA 1.5 V alkaline batteries. The meter has two separate displays in quarts, a resettable 4 digit batch display and a permanent totalizer in gallons. Meters are factory calibrated but for maximum accuracy they can easily be calibrated in the field. The in-line meter is coupled to a fluid control handle, model 186300.

Maximum working pressure: 570 psi (40 bar). Flow range: 5 to 1.3 to 4 gpm (15l /min). Fluid inlet thread: 1/2" NPSM (F).

### STANDARD VOLUME MECHANICAL OIL CONTROL HANDLES



Oval gear meter with mechanical, odometer style display for use with lubricants up to SAE 140. Partial reading up to 999.9 quarts and non-resettable totalizer registers in gallons. Meters are factory calibrated for maximum accuracy and include protective rubber shroud. The meter is flange coupled to a durable but lightweight oil control gun that incorporates a rugged ball bearing inlet swivel with filter.

Maximum working pressure: 1000 psi (70 bar). Oil flow range: 0.26 to 7.1 gpm (1 to 27 l/min). Fluid inlet and outlet threads: 1/2" NPSM (F).

#### Models

PART NO	APPLICATION	OUTLET TYPE	NOZZLE TYPE	UNIT
<b>1540</b>		None; handle w/ meter and swivel only	None	qts/gals
<b>1541</b>		None; handle w/ meter and swivel only	None	liters
<b>1544</b>	ATF/Oils	Straight flexible	Manual	qts/gals
<b>1545</b>	ATF/Oils	Straight flexible	Manual	liters
<b>1546</b>	All lubricants	Flex hose w/ 90° swivel stem	Manual	qts/gals
<b>1547</b>	All lubricants	Flex hose w/ 90° swivel stem	Manual	liters
<b>1548</b>	Motor Oil	60° angle rigid	Semi automatic	qts/gals
<b>1549</b>	Motor Oil	60° angle rigid	Semi automatic	liters

## IN LINE METERS

### IN-LINE OIL METER-ODOMETER STYLE MECHANICAL



Oval gear meter with mechanical, odometer style display for use with lubricants up to SAE 140. Partial reading up to 999.9 quarts and non-resettable totalizer registers in gallons. Meters are factory calibrated for maximum accuracy and include protective rubber shroud.

Maximum working pressure: 1000 psi (70 bar). Oil flow range: 0.26 to 7.1 gpm (1 to 27 l/min). Fluid inlet and outlet threads: 1/2" NPSM (F).

**Model 1500 - Oval gear in-line meter with mechanical register – quarts / US gallons.**

**Model 1501 - Oval gear in-line meter with mechanical register – liters.**

### IN-LINE OIL METER-DIGITAL



#### Model 2100 - Digital in-line oil meter

Oval gear meter with digital display. For use with lubricants up to SAE 140. Meter is powered by two easily replaceable AAA 1.5 V alkaline batteries. This meter has a resettable batch display in quarts, a resettable totalizer in gallons, and a permanent totalizer in gallons. Meters are factory calibrated but for maximum accuracy they can easily be calibrated in the field. Meter can count in liters, quarts, pints or gallons.

Maximum working pressure: 1500 psi (105 bar). Oil flow range: 1.3 to 5.25 gpm (5 to 20 l/min). Fluid inlet and outlet threads: 1/2" NPSM (F).

### HIGH FLOW IN LINE METERS: OILS, DIESEL & GLYCOL-BASED FLUIDS



366 725

Oval gear in line meters with digital display. The meter has two separate displays in quarts, a resettable 4 digit batch display and a 6 digit permanent totalizer in gallons. Meters are factory calibrated but for maximum accuracy they can easily be calibrated in the field.

Meters are compatible with lubricants up to SAE 140, diesel and glycol solutions.

#### Model 366 725 - High flow in line meter - 13.2 gpm

Works with two AAA alkaline batteries.

Maximum working pressure: 1000 psi (70 bar)

Maximum working temperature: 140° F (60° C)

Flow range: minimum flow rate 1.45 gpm (5.5 l/min); maximum flow rate 13.2 gpm (50 l/min)

Accuracy: +/- 0.5 %

Pressure drop: 7 psi (0.5 bar)

Inlet and outlet threads: 1/2" NPSM (F)

#### Model 366 726 - High flow in line meter - 26.4 gpm

Works with two AAA alkaline batteries.

Maximum working pressure: 430 psi (30 bar)

Maximum working temperature: 140° F (60° C)

Flow range: minimum flow rate 2.5 gpm (9.5 l/min); maximum flow rate 26.4 gpm (100 l/min)

Accuracy: +/- 0.5 %

Pressure drop: 7 psi (0.5 bar)

Inlet and outlet threads: 1" NPSM (F)

#### Model 2120 - High flow in line meter - 20 gpm

In-line 1/2" meter for special fluids, coated aluminum body and LCP oval gears.

#### Model 2122 - High flow in line meter - 20 gpm

3/4", 1500 psi. Meters in pints, quarts, liters or gallons. Rated to 1500 psi. 3/4" NPTF inlet and outlet threads. Runs on 2 N (1/2 AA) batteries.

#### Model 2124 - High flow in line meter - 30 gpm

1", 1500 psi. Meters in pints, quarts, liters or gallons. Rated to 1500 psi. 1" NPTF inlet and outlet threads. Runs on 2 N (1/2 AA) batteries.

366 726



2122



2124





### PRE-SET OIL CONTROL HANDLE



#### Model 2199 - Heavy duty preset digital meter

Electronic oval gear digital preset meter with 60° rigid outlet pipe, semi automatic nozzle and 1/2" NPTF screened inlet. Can be programmed to dispense in quarts, liters, pints, and gallons. A 5-digit LED shows accuracy to a hundredth of a gallon. Uses 4 replaceable AA batteries. Pre-calibrated at the factory, it is also easily field-calibrated if necessary. Can handle engine oil, gear oils up to SAE 140, antifreeze solution and hydraulic fluids.

Maximum working pressure: 1000 psi. Maximum flow rate: 8 gpm. Preset up to 99.9 units. Not suitable for outdoor use.

### TRADITIONAL MECHANICAL OIL METERS



#### Traditional Mechanical Pistol Grip Series

This family consists of a count-up meter and a preset batch meter, both with mechanical dials. These meters are extremely durable for both indoor and outdoor applications. Fluid inlet: 1/2" NPSM (F); outlet: 1/2" NPTF. Flow rate up to 4 gpm. Includes model 1129 swivel. Rated to 1000 psi.

#### Manual versions with locking trigger:

**Model 1147:** 8 Pint dial oil meter with pint totalizer, 1131 Gear Oil rigid outlet included.

**Model 1148:** 16 Quart dial oil meter with gallon totalizer, 1141 Oil rigid outlet included.

**Model 1149:** 16 Quart dial oil meter with gallon totalizer, 1135 ATF flex hose included.

**Model 1150:** 16 Liter dial oil meter with liter totalizer, 1141 oil rigid outlet included.

#### Pre-set Mechanical Versions:

**Model 1152:** 60 Quart dial meter with gallon totalizer, 1141 oil rigid outlet included.

**Model 1153:** 60 Gallon dial meter with gallon totalizer, 1141 oil rigid outlet included.

**Model 1154:** 16 Quart dial meter with gallon totalizer, 1141 oil rigid outlet included.

**Model 1155:** 60 Liter dial meter with liter totalizer, 1141 oil rigid outlet included.

### TRADITIONAL MECHANICAL INLINE METERS



Oscillating piston design for rugged dependability; for use with SAE 5 to 140 oils or glycol solutions. 1/2" NPTF inlet/outlet, 1000 psi max.

**Model 1196:** 8 Pint dial, totalizes in pints. For use with oils only.

**Model 1197:** 16 Quart dial, totalizes in gallons. For use with oils only.

**Model 1198:** 16 Liter dial, totalizes in liters. For use with oils only.

**Model 1199:** 16 Gallon dial totalizes in gallons. **For antifreeze applications.**

1131



1135



1128 / 1126



1139



### CONTROL HANDLE OUTLETS

#### Outlets for 1500 and 2100 Series Digital Meters

MODEL NO.	APPLICATION	OUTLET TYPE	NOZZLE TYPE
1131	Gear oil	110° rigid swiveling	Manual
1135	ATF (transmission fluid)	Straight flexible	Manual
1126	All types of lubricants	Flexible with swiveling 90° stem	Semi automatic
1128	All types of lubricants	Flexible with swiveling 90° stem	Manual
1139	Motor oil	60° rigid	Semi automatic
1141	Motor oil	Straight rigid, Nozzle type	Semi automatic

#### Outlet for all high-volume flow control handles

MODEL NO.	APPLICATION	OUTLET TYPE	NOZZLE TYPE
1189	Lubricants, high delivery	60° rigid	Semi automatic

1138



1137



369 205



### Non drip nozzles

**Model 1138** Semiautomatic non drip nozzle.

**Model 1137** Manual non drip nozzle

**Model 736 522** Semiautomatic high flow non drip nozzle for high volume outlet. For use with 365 652, 366 888, 1192 and 1193 high delivery hose end meters.

**Model 369 205** 90° angled adapter for use with 1137 manual operated non drip nozzles.

### Swivels

1127



**Model 1123** 3/4" NPTF oil inlet swivel for aluminum high-flow handle. For use with 365 652, 366 888, 1192 and 1193 high delivery hose end meters.

**Model 1127** 1/2" NPTF oil inlet swivel for use in 1500 and 2100 series handles. For use with Samson hose end meters.

**Model 1129** 1/2" NPTF oil inlet swivel for use with model 2199 preset meter. For use with preset meters and other standard 1/2" inlet meters.

*This powerful console is designed for the shop that wants simple control of their fluids. The IMC offers ease of operation, great value, and several features not previously available in this category of control console. This category of console works with a pulser at the pump and solenoid control at the dispense point allowing only one dispense point per product to be operated. Samson's unique IMC is the perfect field replacement for this type of competitive console.*

### STANDARD FEATURES

- Controls one or two products
- Inventory management on a declining balance
  - Allows initial inventory to be entered
  - Deducts each dispense
  - Manager enters each delivery
  - Alerts when inventory level is low
- When controlling two products, allows simultaneous dispense of both products
- Controls one to ten dispense points
- Allows one air outlet to be controlled so that air is only available during service operating hours
- Maximum quantity for preset dispense: 999 quarts
- Maximum quantity for free flow dispense: 999 quarts
- Maximum number of users: 200
- Two operation levels
  - User: able to only order a dispense
  - Manager: able to set inventory levels and perform management functions
- Three languages: English, Spanish, French
- Allows selection of US measurement (quarts) or metric (liters) measurement
- Key fob reader for use with optional key fob

### OPTIONAL FEATURES

- PC interface with USB or Serial Port and IMS software
  - Displays tank inventory levels
  - When inventory level is low, alerts vendor via email
- External printer
- Allows connection of a two channel level sensor for used fluids; sounds alarm when tank is full
- Optional key fob for activation instead of PIN

### REPLACEMENT FOR COMPETITIVE CONSOLE

- Drop in replacement in most instances
- Works with most pulsers
- In most instances, uses same pulser wire
- Works with AC or DC solenoids
- In most instances, uses same solenoid wire

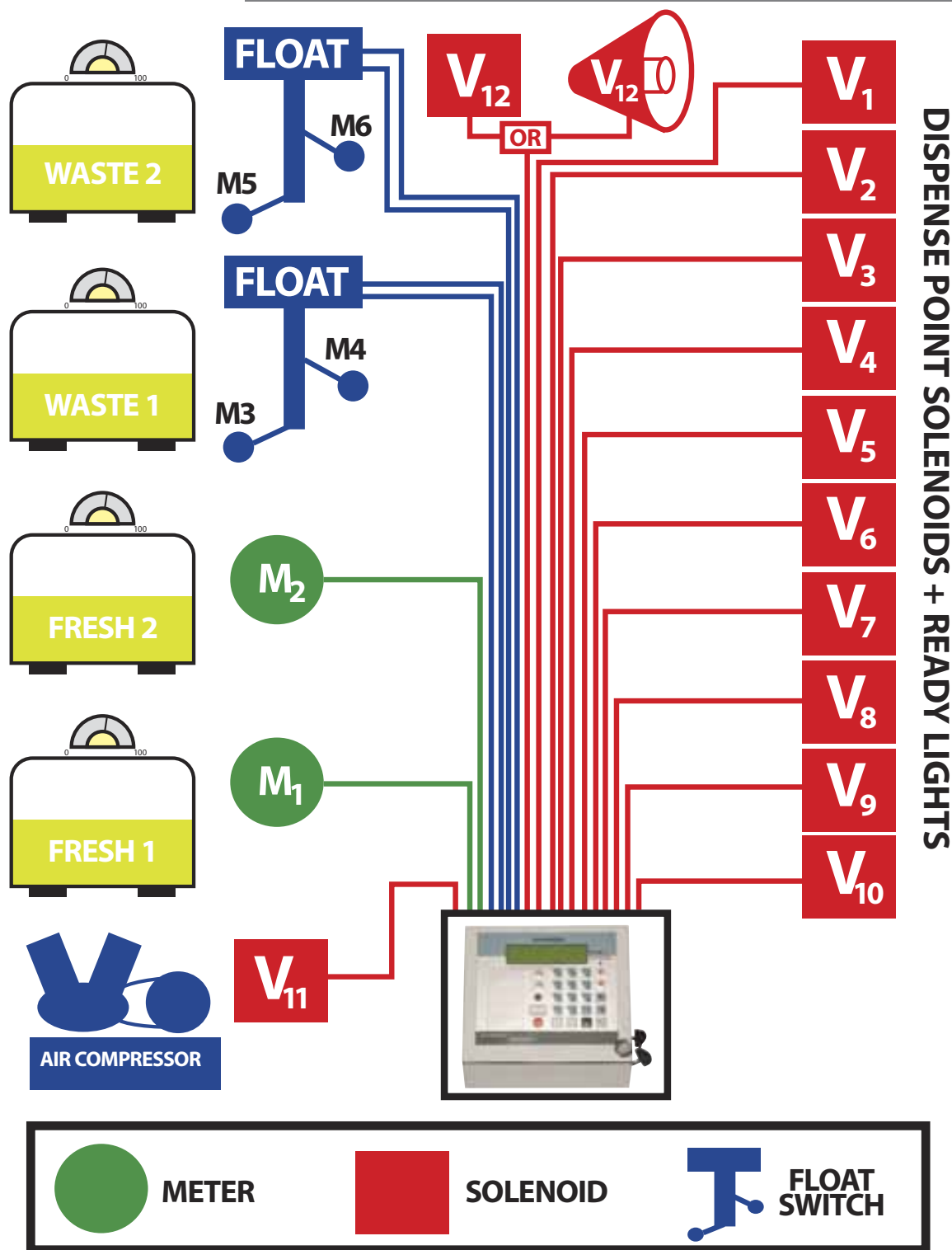


### SYSTEM PACKAGES

- 381192** One product: one dispense point console for stand alone use with one pulser and one dispense point kit
- 381193** Two product: two dispense point console for stand alone use with two pulsers and two dispense point kits
- 381194** One product: one dispense point console with PC interface, software & USB cable with one pulser and one dispense point kit
- 381195** Two product: two dispense point console with PC interface, software & USB cable with two pulsers and two dispense point kits

### INDIVIDUAL COMPONENTS

- 381190** Console for stand alone use
- 381191** Console with PC interface, software & USB cable
- 380201** External printer
- 381400** Single channel alarm for used fluid tank
- 381401** Two channel alarm for used fluid tank
- 381158** Flashing red light for remote alert
- 381161** Dispense point kit: includes solenoid, filter, ready light and connection swivels in one convenient box



**M3, M5, M6:** High level alarms that sound an alarm on the console and display alarm in window of console

**M6:** High level alarm that sounds an alarm on the console, displays alarm in window of console, and sends current to V12 for controlling an air solenoid on evacuation pump

**V11:** Programmable timer for controlling air supply to pumps

Fluid management in today's shops poses several challenges. As the size of the shop increases, properly dispensing and controlling fluids challenges older systems and equipment. Additionally, the increased cost of today's lubricants and the popularity of synthetics place a higher demand for the proper accounting of lubricant usage.

Samson is proud to lead the industry with our proven offering of inventory management products. From the simplest entry level console to sophisticated computerized management systems, we can help address the proper management of both new and used fluids.

A new concept:

### **THE ADVANCED MONITORING SYSTEM**

The Advanced Monitoring System (AMS), the software at the heart of our Inventory Management System (IMS), has been installed in several thousand facilities around the world. Based on our experience in the design of systems for fluid monitoring and the management of workshop activities, we have brought true innovation to an old concept. Through this experience and innovation, we have created a system designed to improve profitability through controlled fluid distribution and work-order accountability.

The Inventory Management System's ease of integration allows you to design any size installation using a minimum number of components, even adaptable down to a single-point dispense system. The modular design of the IMS makes it easy to install even the largest of systems, including more than 100 fluid outlets. It allows the integration of complementary functions, such as remote displays, stock level detectors, volumetric measuring probes, control access points and the automatic scheduling of any "on/off" function. This modular structure enables us to focus on adapting the equipment for the specific needs of each individual installation, reducing your cost, while guaranteeing the possibility of future evolution should new needs arise.

The network technology utilized by the IMS is the CANBUS network, which was originally developed to manage all of the functions of an automobile through one single cable. This technology gives the system a unique simplicity of installation, while offering the highest accuracy and speed of communications. CANBUS networks are used throughout industry, whenever a highly reliable network is required.

### **IMS KEYPAD**

The IMS system can act as a stand alone system or be interfaced with a computer in the shop. Keypad may be mounted in the shop to provide technicians with access to dispense product or the keypad may be mounted in the parts room. Keypads may be activated by a PIN, an optional key fob, or an optional bar code scanner. The President keypad contains the system software module; one President keypad is required per system. Additional keypads may be ordered as needed.

To order a networked system, choose a President keypad that includes a PC interface. If a system is ordered to use in a stand alone configuration, a PC interface may be added at any time.

An optional internal thermal ticket printer provides a printed ticket with each dispense transaction. Fields included on the ticket are date/time, job number, product supplied, volume supplied, dispense point, technician name, vehicle number (optional), vehicle odometer (optional), and the remaining inventory of product. When product reaches a low level, ticket will have a warning printed on it.



### INTELLIGENT FLOW CONTROL UNIT (IFCU)

The IFCU is a dispense point controller located at each dispense point and includes the solenoid, pulser, filter, and display of product dispensed for that point. The filter is readily accessible for cleaning. The three digit large character super bright LED display shows the dispense point number when not in use and displays the quantity dispensed during use. Three LED indicator lights show the status of the dispense point.



Dispense point control from 5 GPM for car and light truck shops all the way to 30 GPM for heavy duty applications

### TANK ROOM MANAGER (TRM)

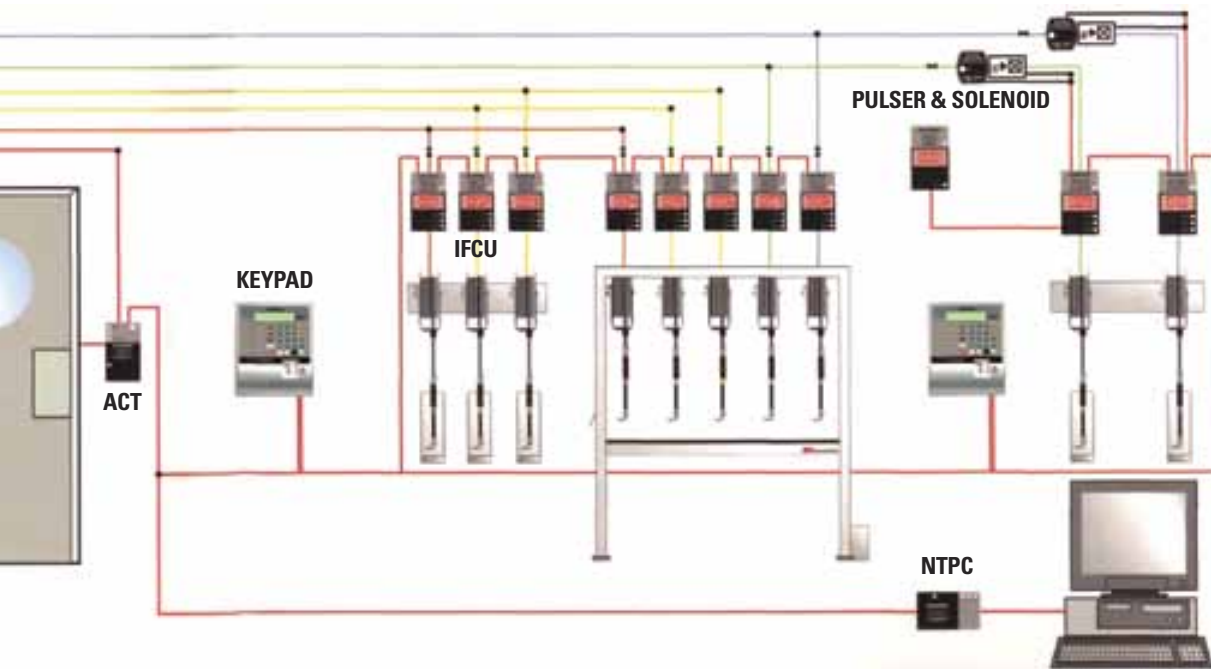
Provides real time precise inventory for each tank. Accepts and measures new deliveries. IMS will allow up to four tank room managers in network allowing inventory management of sixteen tanks. When used with PC interface, the TRM provides a real time view of exact inventory on parts room computer. Allows emailing oil vendor when inventory level reaches predetermined level.

### ALARM TECH SUPERVISOR (ATS)

Provides high level (or low level) management of any tank and manages up to four inputs. Unit will sound alarm when tank reaches programmed level; will also control air to evacuation pump and can control a remote alarm such as a flashing red light. Allows emailing used fluid hauler when inventory level reaches predetermined level.

### ACCESS CONTROL TERMINAL (ACT)

Provides access control to doors with electronic locks. Requires key fob to activate, allows tracking of access to locations such as the lube storage room, essential tool room, or other secure areas. May also be used as a gate controller.



**KEYPADS**

- 381003** President keypad with PC interface (NTPC); and internal ticket printer - Quarts/Gallons
- 381013** President keypad with PC interface (NTPC); and internal ticket printer - Liters
- 381005** President keypad with PC interface (NTPC); no internal ticket printer - Quarts/Gallons
- 381015** President keypad with PC interface (NTPC); no internal ticket printer - Liters
- 381002** President keypad for stand alone use and internal ticket printer - Quarts/Gallons
- 381012** President keypad for stand alone use and internal ticket printer - Liters
- 381004** President keypad for stand alone use; no internal ticket printer - Quarts/Gallons
- 381014** President keypad for stand alone use; no internal ticket printer - Liters
- 381000** IMS keypad without internal ticket printer
- 381001** IMS keypad with internal printer

**DISPENSE POINT CONTROL**

- 381501** IFCU for oil
- 381551** IFCU for water based products; 1/2" NPTF
- 381550** IFDM for custom applications; electronics only, needs pulser, solenoid, and filter
- 381502** IFDU for controlling motor fuel dispensers
- 381553** Pulser, solenoid, filter assembly for use with IFDM; 250 PSI, 3/4" NPTF, 20 GPM, 66.75 PPU
- 381554** Pulser, solenoid, filter assembly for use with IFDM; 250 PSI, 1" NPTF, 30 GPM, 66.75 PPU
- 381555** Pulser, solenoid, filter assembly for use with IFDM; 2000 PSI, 3/4" NPTF, 20 GPM, 66.75 PPU
- 381556** Pulser, solenoid, filter assembly for use with IFDM; 2000 PSI, 1" NPTF, 30 GPM, 66.75 PPU
- 381700** Remote Display Unit (RDU)

**TANK ROOM MANAGEMENT**

- 381153** Tank Room Manager (TRM) for use with IMS; manages up to four tanks
- 381157** Tank Room Manager (TRM) for stand alone use; manages up to four tanks
- 381405** Tank probe; one per tank
- 381315** Access Control Terminal (ACT); requires PIN or key fob to unlock door; controls entry to tank room, essential tool room, or other secure area
- 381152** Alarm Tech Supervisor (ATS) for use with IMS; manages up to four tanks
- 381156** Alarm Tech Supervisor (ATS) for stand alone use; manages up to four tanks
- 381400** One channel sensor
- 381401** Two channel sensor
- 381158** Flashing red alarm light for remote location

**SYSTEMS ACCESSORIES**

- 381901** Bar code scanner; connects to keypad for data entry
- 381102** Power supply; must be added to system when more than 8 dispense points per keypad
- 381905** Set of five key fobs for activating system in lieu of PIN entry
- 381906** Box of 15 rolls of thermal paper for keypad printer
- 380201** External printer; must be within 100' of a system keypad
- 381956** 1000' Belden 3084A 22/24AWG cable
- 381958** 1000' Belden 3082A 15/18AWG cable
- 381999** One day of on-site technical assistance
- 381960** Serial to USB connector kit with software
- 381961** 500' Belden 3084A 22/24AWG cable
- 381962** 500' Belden 3082A 15/18AWG cable

### PULSE METERS



1061

#### **Model 1071 - 100 PPU Oval Gear Pulse Meter**

Oval gear pulse meter for oils and glycol solutions. 1/2" NPSM (F) inlet/outlet.

#### **Model 600 601 - 328 PPU Pulse Meter for windshield washer solution**

Pulse meter manufactured in stainless steel with Viton seals for use with methanol based WW solutions. 1/2" BSP (M) with 60° cone seal inlet/outlet. Max pressure 215 psi.

#### **Model 1059 - 10 PPL Traditional Gallon Pulse Meter**

Traditional Gallon pulse meter for oils and glycol solutions. 1/2" NPTF inlet/outlet. Replacement only will not work properly with IMC or IMS systems.

#### **Model 1061 - 10 PPQ Traditional Quart Pulse Meter**

Traditional pulse meter for oils and glycol solutions. 1/2" NPTF inlet/outlet

#### **Model 1062 - 10 PPP Traditional Pint Pulse Meter**

Traditional pulse meter for oils and glycol solutions. 1/2" NPTF inlet/outlet. Replacement only will not work properly with IMC or IMS systems.

#### **Model 1066 - 10 PPL Traditional Liter Pulse Meter**

Traditional liter pulse meter for oils and glycol solutions. 1/2" NPTF inlet/outlet

### SOLENOIDS



1065

#### **Model 1065 - 24 VAC/DC Oil Solenoid - Normally Closed (NC)**

Medium pressure NC oil solenoid for use on AC or DC systems; internally rectified. Equipped with a protective screen. 1/2" NPTF inlet/outlet. Max 3000 psi.

#### **Model 1064 - 24 VAC Air/Water Solenoid - Normally Closed (NC)**

Low pressure brass bodied NC solenoid for use as an air solenoid or for water based solutions like WW fluid or Coolant. 1/2" NPTF inlet/outlet. Max 300 psi.

#### **Model 1074- 24 VDC Air/Water Solenoid - Normally Closed (NC)**

Low pressure brass bodied NC solenoid for use as an air solenoid or for water based solutions like WW fluid or Coolant 1/2" NPTF inlet/outlet. Max 300 psi.

#### **Model 107 042 - 24 VAC Air/Water Solenoid - Normally Opened (NO)**

Low pressure brass bodied NO solenoid for use as an air solenoid to control used fluid pumps. 1/2" NPTF inlet/outlet. Max 300 psi.

### OTHER ACCESSORIES



1069

#### **Model 1069 - Y Strainer**

1/2" NPTF cleanable screened filter for mounting upstream of oil solenoid. Rated to 250 psi.



# PORTABLE UNITS

## PORTABLE GREASE PACKAGES

06

### NUMBERING SYSTEM

FIRST THREE DIGITS		FOURTH DIGIT			FIFTH DIGIT			SIXTH DIGIT		
Pump Model		Hose Length			Dolly			Filter Regulator Combo with Gauge		
		Enter	Receive		Enter	Receive	Container Size	Enter	Receive	
301	35 lb pail unit, 55:1 PM3 pump w/handle, pail cover, follower plate, 1/4" x 7' hose, Z swivel, control handle	0	877000	7' x 1/4"	1	1301	35 & 120 lb			
402	35 lb. Pail unit, 60:1 PM3+3 pump w/handle, pail cover, follower plate, 1/4" x 7' hose, Z swivel, control handle.	1	872000	10' x 1/4"	2	1302	35 lb	1	955	1/4" for portable
303	120 lb keg unit, 55:1 PM3 pump, keg cover, follower plate, 1/4" x 7' hose, Z swivel, control handle	2	873000	15' x 1/4"	3	1303	120 lb			
305	400 lb drum unit, 55:1 PM3 pump, drum cover, follower plate, 1/4" x 7' hose, Z swivel, control handle	3	874000	20' x 1/4"	4	1304	120 lb			
333	120 lb keg unit, 55:1 PM3+3 pump, keg cover, follower plate, 1/4" x 7' hose, Z swivel, control handle				5	1306	400 lb			
335	400 lb drum unit, 55:1 PM3+3 pump, drum cover, follower plate, 1/4" x 7' hose, Z swivel, control handle				6	1307	400 lb			
					7	1312	120 lb			

### PORTABLE CARTS AND DOLLIES



Model 1301

Model 1303



Model 1302



Model 1304



Model 1305



Model 1306



Model 1312



Model 1307

#### Model 1301

2 wheel dolly - for 35 and 50 lb. pails and 120 lb. keg

#### Model 1302

Band type dolly for 35 lb. pail

#### Model 1303

4 wheel cart - for 120 lb. keg

#### Model 1304

Band type dolly for 120 lb. keg

#### Model 1305

Heavy duty 3 wheel platform truck for 400 lb. drum. Swivel wheel with locking brake. Weight capacity 600 lb. (300 kg).

#### Model 1306

X-frame type dolly for 400 lb. drum

#### Model 1307

3 wheel truck for 400 lb. drum. Weight capacity 550 lb. (250 kg).

#### Model 1312

Deluxe portable base for 120 lb. keg

#### Model 1399 (not shown)


Mounting Plate required to mount hose reel to model 1305 truck


# PORTABLE UNITS


## PORTABLE GREASE PACKAGES


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### PORTABLE GREASE PUMP PACKAGES

 <b>PM3 35 lb Pail Packages</b>	ORDER THIS MODEL NUMBER		RECEIVE THESE ITEMS					
	Model Number	Pump Model	Follower Plate	Hose Length	Z Swivel	Control Handle	Dolly	Filter Regulator
	301 001	301	962	7'	1105	413077	None	1/4"
	301 011	301	962	7'	1105	413077	1301	1/4"
	301 021	301	962	7'	1105	413077	1302	1/4"
	301 101	301	962	10'	1105	413077	None	1/4"
	301 111	301	962	10'	1105	413077	1301	1/4"
	301 121	301	962	10'	1105	413077	1302	1/4"
	301 211	301	962	15'	1105	413077	1301	1/4"
	301 221	301	962	15'	1105	413077	1302	1/4"
	301 311	301	962	20'	1105	413077	1301	1/4"
	301 321	301	962	20'	1105	413077	1302	1/4"

 <b>PM3+3 60:1 35 lb Pail Packages</b>	ORDER THIS MODEL NUMBER		RECEIVE THESE ITEMS					
	Model Number	Pump Model	Follower Plate	Hose Length	Z Swivel	Control Handle	Dolly	Filter Regulator
	402 101	402050	962	10'	1105	413077	None	1/4"
	402 111	402050	962	10'	1105	413077	1301	1/4"
	402 121	402050	962	10'	1105	413077	1302	1/4"
	402 201	402050	962	15'	1105	413077	None	1/4"
	402 211	402050	962	15'	1105	413077	1301	1/4"
	402 221	402050	962	15'	1105	413077	1302	1/4"
	402 311	402050	962	20'	1105	413077	1301	1/4"
	402 321	402050	962	20'	1105	413077	1302	1/4"

 <b>PM3 400 lb Packages</b>	ORDER THIS MODEL NUMBER		RECEIVE THESE ITEMS					
	Model Number	Pump Model	Follower Plate	Hose Length	Z Swivel	Control Handle	Dolly	Filter Regulator
	305 001	305	966	7'	1105	413077	None	1/4"
	305 051	305	966	7'	1105	413077	1306	1/4"
	305 061	305	966	7'	1105	413077	1307	1/4"
	305 101	305	966	10'	1105	413077	None	1/4"
	305 151	305	966	10'	1105	413077	1306	1/4"
	305 161	305	966	10'	1105	413077	1307	1/4"
	305 201	305	966	15'	1105	413077	None	1/4"
	305 251	305	966	15'	1105	413077	1306	1/4"
	305 261	305	966	15'	1105	413077	1307	1/4"
	305 301	305	966	20'	1105	413077	None	1/4"
	305 351	305	966	20'	1105	413077	1306	1/4"
	305 361	305	966	20'	1105	413077	1307	1/4"


 <b>PM3+3 400 lb Packages</b>	ORDER THIS MODEL NUMBER		RECEIVE THESE ITEMS					
	Model Number	Pump Model	Follower Plate	Hose Length	Z Swivel	Control Handle	Dolly	Filter Regulator
	335 001	335	966	7'	1105	413077	None	1/4"
	335 051	335	966	7'	1105	413077	1306	1/4"
	335 061	335	966	7'	1105	413077	1307	1/4"
	335 101	335	966	10'	1105	413077	None	1/4"
	335 151	335	966	10'	1105	413077	1306	1/4"
	335 161	335	966	10'	1105	413077	1307	1/4"
	335 201	335	966	15'	1105	413077	None	1/4"
	335 251	335	966	15'	1105	413077	1306	1/4"
	335 261	335	966	15'	1105	413077	1307	1/4"
	335 301	335	966	20'	1105	413077	None	1/4"
	335 351	335	966	20'	1105	413077	1306	1/4"
	335 361	335	966	20'	1105	413077	1307	1/4"
	311 001	400 lb drum unit on 1305 3 wheel heavy duty cart with 1399 reel mounting plate, 55:1 PM3+3 pump, drum cover, follower plate, 1/4" x 40' hose reel, Z swivel, control handle, 1/4" filter regulator combo with auto drain						


# PORTABLE UNITS

## PORTABLE GREASE PACKAGES

06

### PORTABLE GREASE PUMP PACKAGES

ORDER THIS MODEL NUMBER	RECEIVE THESE ITEMS							
	Model Number	Pump Model	Follower Plate	Hose Length	Z Swivel	Control Handle	Dolly	Filter Regulator
 <p><b>PM3 120 lb keg packages</b></p>	303 001	303	964	7'	1105	413077	None	1/4"
	303 011	303	964	7'	1105	413077	1301	1/4"
	303 031	303	964	7'	1105	413077	1303	1/4"
	303 041	303	964	7'	1105	413077	1304	1/4"
	303 071	303	964	7'	1105	413077	1312	1/4"
	303 101	303	964	10'	1105	413077	None	1/4"
	303 111	303	964	10'	1105	413077	1301	1/4"
	303 131	303	964	10'	1105	413077	1303	1/4"
	303 141	303	964	10'	1105	413077	1304	1/4"
	303 171	303	964	10'	1105	413077	1312	1/4"
	303 201	303	964	15'	1105	413077	None	1/4"
	303 211	303	964	15'	1105	413077	1301	1/4"
	303 231	303	964	15'	1105	413077	1303	1/4"
	303 241	303	964	15'	1105	413077	1304	1/4"
	303 271	303	964	15'	1105	413077	1312	1/4"
	303 311	303	964	20'	1105	413077	1301	1/4"
	303 331	303	964	20'	1105	413077	1303	1/4"
	303 341	303	964	20'	1105	413077	1304	1/4"
303 371	303	964	20'	1105	413077	1312	1/4"	

ORDER THIS MODEL NUMBER	RECEIVE THESE ITEMS							
	Model Number	Pump Model	Follower Plate	Hose Length	Z Swivel	Control Handle	Dolly	Filter Regulator
 <p><b>PM3+3 120 lb Packages</b></p>	303 001	333	964	7'	1105	413077	None	1/4"
	333 011	333	964	7'	1105	413077	1301	1/4"
	333 031	333	964	7'	1105	413077	1303	1/4"
	333 041	333	964	7'	1105	413077	1304	1/4"
	333 071	333	964	7'	1105	413077	1312	1/4"
	333 101	333	964	10'	1105	413077	None	1/4"
	333 111	333	964	10'	1105	413077	1301	1/4"
	333 131	333	964	10'	1105	413077	1303	1/4"
	333 141	333	964	10'	1105	413077	1304	1/4"
	333 171	333	964	10'	1105	413077	1312	1/4"
	333 201	333	964	15'	1105	413077	None	1/4"
	333 211	333	964	15'	1105	413077	1301	1/4"
	333 231	333	964	15'	1105	413077	1303	1/4"
	333 241	333	964	15'	1105	413077	1304	1/4"
	333 271	333	964	15'	1105	413077	1312	1/4"
	333 311	333	964	20'	1105	413077	1301	1/4"
	333 331	333	964	20'	1105	413077	1303	1/4"
	333 341	333	964	20'	1105	413077	1304	1/4"
333 371	333	964	20'	1105	413077	1312	1/4"	

# PORTABLE UNITS

06

## HAND OPERATED PUMPS FOR GREASE

### HEAVY DUTY ORIGINAL CONTAINER UNITS



Model 1984

#### Model 1984

Heavy duty hand operated high pressure (5,000 PSI) grease pump unit. Fits 35 lb. pail. Complete with pump, cover, 5' hose, pipe with coupler, carry handle and follower plate.

#### Model 1994 (Not Shown)

Heavy duty hand operated high pressure (5,000 PSI) grease pump unit. Fits 120 lb. keg. Complete with pump, drum cover, 5' hose, pipe with coupler, and follower plate.



Model 1988

#### Model 1988

Heavy duty hand operated filler pump unit. Fits 35 lb. pail. Complete with pump, cover, filler valve, dust cap and follower plate.

#### Model 1989

Heavy duty hand operated filler pump unit. Fits 120 lb. keg. Complete with pump, cover, filler valve, dust cap and follower plate.



Model 1991

#### Model 1991

Heavy duty hand operated bearing packer fits 35 lb. pail. Complete with pump, cover, packer, dust cap and follower plate.

#### Model 1992(Not Shown)

Heavy duty hand operated bearing packer fits 120 pound keg. Complete with pump, cover, packer, dust cap and follower plate.

### HEAVY DUTY SELF CONTAINED UNITS



#### Model 1996

High pressure 6,000 PSI lever action grease pump. Oval shaped 4 1/2 gallon steel container with foot rest. Includes 7' grease hose and hydraulic coupler. Adjustable pressure and volume.

### SPECIAL DISPENSER



#### Model 1999

High pressure 7,000 PSI, foot operated grease pump, spring loaded for heavier greases. Cast iron pump body and precision finished pump mechanism with spring follower plate. Includes air bleeder valve, 7' grease hose, hydraulic coupler and 2 1/2 lb. steel container.

# PORTABLE UNITS

## PORTABLE AIR OPERATED LUBRICANT PACKAGES

06

### PORTABLE 16 GALLON PACKAGES



201 000

#### All Models include:

- Model 358 120: PM 2 3:1 ratio oil pump with cover mounting adapter
- Model 2065: 3/4" NPT (M) x 1/2" NPT (F) adapter
- Model 846: 5' x 1/2" medium pressure dispense hose
- Model 930: Quick coupler
- Model 931: Quick connector nipple
- Model 955: Air filter/regulator combo unit (not shown)
- Model 1303: Four wheel cart (not shown)

#### Open Top Keg Models

- Model 201 000** - for gear oil with 2163 digital meter and 1936 keg cover.
- Model 203 000** - for ATF with 2165 digital meter and 1936 keg cover.
- Model 205 000** - for oils with 2161 digital meter and 1936 keg cover.

#### Bung Top Keg Models

- Model 201 001** - for gear oil with 2163 digital meter.
- Model 203 001** - for ATF with 2165 digital meter.
- Model 205 001** - for oils with 2161 digital meter.

### PORTABLE 55 GALLON BUNG MOUNT PACKAGE



#### Model 209 portable 55 gallon bung mount package includes:

- Model 354 120: PM 2 3:1 ratio oil pump with bung mounting adapter
- Model 2065: 3/4" NPTF x 1/2" NPTF adapter
- Model 846: 5' x 1/2" medium pressure dispense hose
- Model 930: Quick coupler
- Model 931: Quick connector nipple
- Model 955: Air filter/regulator combo unit (not shown)
- Model 1307: Three wheel cart (not shown)
- Model 2161: Digital metered control handle with rigid spout

### SPECIAL PM-2 MOBILE FLUID CADDY FOR 55 GAL. DRUM



#### Model 211 001 fluid caddy includes:

- Model 354 120: PM 2 3:1 ratio oil pump with bung mounting adapter
- Model 2065: 3/4" NPTF x 1/2" NPTF adapter
- Model 846: 5' x 1/2" medium pressure dispense hose
- Model 930: Quick coupler
- Model 931: Quick connector nipple
- Model 955: Air filter/regulator combo unit (not shown)
- Model 1305: Heavy duty 3 wheel platform truck.
- Model 1428: Reels H.D. hose reel 30' x 1/2" med. pressure hose.
- Model 1399: Reel Mounting Plate
- Model 2162: Digital metered control handle with flex 90° spout

#### Model 211-A (Not Shown)

Same as Model 211, except includes deluxe drum cover for 55 gal. open type drum.

# PORTABLE UNITS

## PORTABLE HAND OPERATED PACKAGES: GEAR LUBE, ATF, FLUIDS

06

### STANDARD DUTY



#### Model 1011

Standard duty hand operated, non-metered, multi-fluid dispenser for 16 gal. open top drum. Includes:

- Model 1000: Hand operated pump with cover mounting adapter.
- Model 1304: Four wheel band dolly.
- Model 1936: Deluxe drum cover for 16 gal. drum.
- Model 731210: 5' fluid hose assembly with curved nozzle.

#### Model 1013 (Not Shown)

Same as Model 1011 except, less Model 1936 drum cover (includes bung bushing).

### HEAVY DUTY - GEAR LUBE AND ATF



#### Model 1021

H.D. 2:1 ratio hand operated metered gear lube unit for 16 gal. open top drum. Includes:

- Model 1000: Hand operated pump with cover mounting adapter.
- Model 1304: Four wheel band dolly.
- Model 1936: Deluxe drum cover for 16 gal. drum.
- Model 731310: 5' fluid hose assembly with shut off valve.
- Model 1136: Curved outlet nozzle.
- Model 2102: Electronic meter.

**Model 1023 (Not shown)** Same as 1021 except, less model 2102 meter

#### Model 1022

H.D. 2:1 ratio hand operated metered ATF unit for 16 gal. open top drum. Includes:

- Model 1000: Hand operated pump with cover mounting adapter.
- Model 1304: Four wheel band dolly.
- Model 1936: Deluxe drum cover for 16 gal. drum.
- Model 731310: 5' fluid hose assembly with shut off valve.
- Model 1135: Flex hose outlet.
- Model 2100: Electronic meter.

**Model 1024 (Not shown)** Same as 1022 except, less model 2100 meter.

### EXTRA HEAVY DUTY - GEAR LUBE AND ATF



#### Model 1081

Extra heavy duty hand operated metered gear lube unit for 16 gal. open top drum. Adjustable volume and pressure. Includes:

- Model 1008: Hand operated pump with cover mounting adapter.
- Model 1304: Four wheel band dolly.
- Model 1936: Deluxe drum cover for 16 gal. drum.
- Model 731310: 5' fluid hose assembly with shut off valve.
- Model 1136: Curved outlet nozzle.
- Model 2102: Electronic meter.

**Model 1083 (Not shown)** Same as 1081 except, less model 2102 meter.

#### Model 1082 (Not shown)

Extra heavy duty hand operated metered ATF unit for 16 gal. open top drum. Adjustable volume and pressure. Includes:

- Model 1008: Hand operated pump with cover mounting adapter.
- Model 1304: Four wheel band dolly.
- Model 1936: Deluxe drum cover for 16 gal. drum.
- Model 731310: 5' fluid hose assembly with shut off valve.
- Model 1135: Flex hose outlet.
- Model 2100: Electronic meter.

**Model 1084 (Not shown)** Same as 1082 except, less model 2100 meter

## PORTABLE UNITS

### PORTABLE HAND OPERATED PACKAGES: GEAR LUBE, ATF, FLUIDS

06

#### PRESSURIZED DISPENSERS



##### Model 1327

Portable air pressurized unit for gear oils and other fluids. No hand pumping required. Ideal for remote services, on the job site, outside the garage, or anywhere an air supply is unavailable. ASME type 20 gallon tank with sight gauge and quick connect air coupler. 5' clear visible dispensing hose. 2162 electronic metered fluid control handle with model 1128 one does all outlet.

##### Model 1322

Same as 1327 except 6 1/2 gallon tank size.

##### Model 1320

Same as 1322 except with non-metered gear lube handle.

#### SELF CONTAINED DISPENSERS



##### Model 3124

Hand operated deluxe 18 gallon portable dispenser with in-line electronic meter.

##### Model 3126

Air operated deluxe 18 gallon portable dispenser with PM 2 3:1 ratio pump and 2162 digital metered handle.

#### HAND-OPERATED GEAR OIL PUMPS



##### Model 1986

Heavy duty hand operated gear lube pump unit. Fits 5 gallon pail. Complete with pump, cover, 5' hose, curved pipe with anti-drip tip.

##### Model 1995

Lever action oil pump. Oval shaped 4 1/2 gallon steel container with foot rest. Solid construction. Includes 5' oil hose and curved nozzle.





### PM 3+3 AND 6



- Model 336 000 PM 3 + 3 grease pump package for 120 lb kegs**  
*Includes:* 332 PM 3 + 3 high pressure grease pump with bung adapter  
 1936 120 lb keg cover  
 964 Follower plate for 120 lb keg  
 901 000 Connection kit

*Recommended Options*

- 957 Air regulator with gauge and air filter combo unit; 3/8" NPTF fittings  
 2077 High pressure shut off valve; 1/2" NPTFBE  
 2061 1/2" NPTM x 3/8" NPTF bushing

- Model 338 000 PM 3 + 3 grease pump package for 400 lb drums**  
*Includes:* 334 PM 3 + 3 high pressure grease pump with bung adapter  
 1938 400 lb drum cover  
 966 Follower plate for 400 lb drum  
 901 000 Connection kit

*Recommended Options*

- 957 Air regulator with gauge and air filter combo unit; 3/8" NPTF fittings  
 2077 High pressure shut off valve; 1/2" NPTFBE  
 2061 1/2" NPTM x 3/8" NPTF bushing



- Model 622 000 PM 6 grease pump package for 120 lb kegs**  
*Includes:* 622 PM 6 high pressure flange mount grease pump  
 418 025 120 lb keg cover  
 964 Follower plate  
 915 000 Connection kit

*Recommended Options*

- 985 Air regulator with gauge and air filter lubricator; 1/2" NPTF fittings  
 2077 High pressure shut off valve; 1/2" NPTFBE  
 2061 1/2" NPTM x 3/8" NPTF bushing

- Model 624 000 PM 6 grease pump package for 400 lb drums**  
*Includes:* 624 PM 6 high pressure flange-mount grease pump  
 418 026 400 lb drum cover  
 966 Follower plate  
 915 000 Connection kit

*Recommended Options*

- 985 Air regulator with gauge and air filter lubricator; 1/2" NPTF fittings  
 2077 High pressure shut off valve; 1/2" NPTFBE  
 2061 1/2" NPTM x 3/8" NPTF bushing



#### **Model 453 602 - PM 3+3 - 60:1 equipped pump and 50' hose reel for 400 lb drums.**

Assembly for high pressure greasing with a PM 3+3 - 60:1 pressure ratio pump for 400 lb drums. Package includes a 3/8" hose reel for higher delivery.

Includes:

- 338 000: PM 3+3 - 60:1 grease pump kit for 400 lb drums.
- 1682: 50' x 3/8" open type hose reel.
- 413 080: High pressure grease control gun with "Z" swivel.
- 957: 3/8" filter regulator.

Non included options:

- 411 103: In line grease meter for grease control handle.
- 1388: Hose reel pivoting bracket.
- 360 127: Control gun holder and drip gun.

### PM 2 3:1



210

Model 202

Model 204

#### Model 202

PM 2 system for 16 gallon bung type keg. Includes the following:

Model 358 120: Pump 2, 3:1 ratio pump with bung bushing. Model 904: Connection kit.

#### Model 204

PM 2 system for 16 gallon open top keg. Includes the following:

Model 358 120: Pump 2, 3:1 ratio pump with cover mounting adapter.

Model 1936: Deluxe drum cover for 16 gallon keg. Model 904: Connection kit.

#### Model 210

PM 2 3:1 stub pump with connection kit. Includes the following:

Model 353 120: Pump 2 3:1 ratio pump with bung bushing. Model 904: Connection kit.

#### Model 212

PM 2 3:1 pump for 44" to 48" tanks with connection kit.

Includes the following:

Model 353 120: Pump 2 3:1 ratio pump with bung bushing. Model 904: Connection kit.

#### Model 222

Pump 2 system for 55 gallon bung type drum or 34" to 36" workbench type tank. Includes the following:

Model 354 120: Pump 2, 3:1 ratio pump with bung bushing. Model 904: Connection kit.

#### Model 224

PM 2 system for 55 gallon open top drum. Includes the following:

Model 354 120: Pump 2, 3:1 ratio pump with cover mounting adapter.

Model 1936: Deluxe drum cover for 55 gallon drum. Model 904: Connection kit.

#### Model 266

PM 2 3:1 pump for 60" tanks with connection kit. Includes the following:

Model 260: Pump 2 3:1 ratio pump with bung bushing. Model 904: Connection kit.

### PM 4 5:1



Model 422

Model 424

#### Model 410

PM 4 5:1 stub pump with connection kit. Includes the following:

Model 347 120: Pump 4 5:1 ratio pump with bung bushing. Model 906: Connection kit.

#### Model 412

PM 4 5:1 pump for 44" to 48" tanks with connection kit.

Includes the following:

Model 347 120: Pump 4 5:1 ratio pump with bung bushing and downtube. Model 906: Connection kit.

#### Model 422

PM 4 5:1 pump for 55 gallon drums with connection kit or 34"-36" workbench tanks. Includes the following:

Model 348 120: Pump 4 5:1 ratio pump with bung bushing and downtube. Model 906: Connection kit.

#### Model 424

PM 4 5:1 pump for 55 gallon open drum drums with connection kit. Includes the following:

Model 348 120: Pump 4 5:1 ratio pump with bung bushing and downtube.

Model 1936: Deluxe cover for 16 gallon keg. Model 906: Connection kit.

#### Model 466

PM 4 5:1 pump for 60" tanks with connection kit. Includes the following:

Model 460: PM 4 5:1 ratio pump with bung bushing and downtube. Model 906: Connection kit.

### SELF CONTAINED DRUM DISPENSERS



Model 1900

Model 2100

#### Bulk oil spigot type dispensers

##### Model 1900

Dispensing valve with self closing spigot valve. Connects to PM 2, 1:1 or 3:1 ratio pump (pump not included). Connecting thread 3/4" NPT (M).

##### Model 2100 Meter

# PUMP PACKAGES

## PM 2 STATIONARY OIL PUMP PACKAGES

07

### 1:1 OIL PUMP TRANSFER PACKAGE FOR 55 GAL DRUMS

#### Model 454 002 - 1:1 oil transfer pump package for 55 gallon drums

Low pressure air operated pump for transferring lubricants from 55 gallon drums through a 15' oil hose. Approximate delivery at 100 psi (7 bar) pressure with motor oil: 7.8 gpm (30 l/min).

Includes:

- 352 120: 1:1 oil pump for 55 gallon drums.
- 950 302: Needle air valve, 1/4" BSP (FF).
- 2051: 1/4" NPT (Qty 2) connection adapter.
- 362 303: 15' x 3/4" oil hose.
- 1168: High delivery nozzle.
- 955: 1/4" filter regulator.



### PM 2 3:1 OIL PUMP PACKAGES FOR 55 GALLON DRUMS

#### Model 454 110 - PM 2 3:1 oil dispensing pump with meter

Medium pressure air operated pump with hose end meter for dispensing all types of lubricants from 55 gal drums through a 15' oil hose. Approximate delivery at 100 psi (7 bar) pressure with motor oil: 2.1 gpm (8 l/min).

Includes:

- 354 120: 3:1 oil pump for 55 gal drums.
- 848: 15' x 1/2" oil hose.
- 2162: Digital metered control handle with flexible multi-outlet
- 955: 1/4" filter regulator.

454 110



#### Model 454 112 - PM 2 3:1 oil dispensing pump with preset meter

Similar to model 454 110, includes a digital pre-set control handle model 2199 instead of the hose end meter 2162.

#### Model 454 111 - PM 2 3:1 oil dispensing pump with non-metered control handle

Similar to model 454 110, includes a non-metered oil control gun 1173 instead of the hose end meter 2162.

### OIL DISPENSING PUMP FOR 55 GALLON DRUM

#### Model 262 - Oil dispensing pump with outlet valve

Special 2:1 pressure ratio air operated pump with an outlet spigot for dispensing lubricants from 55 gallon drums.

Includes:

- 352 220: 2:1 pressure ratio pump.
- 368 108: Suction tube for 55 gal drums.
- 736 462: Oil tray with 2" BSP (M) bung adapter.
- 361 100: Oil spigot valve.



## PM 2 & 4 PUMP/REEL/METER PACKAGES

### PM2 - 3:1 PUMP HOSE REEL METER PACKAGES



All Series 9003 packages include configured PM 2 3:1 pump, model 904 connection kit, SERIES 506 1/2" x 50' MP oil reel model 506 222, model 955 filter/regulator, and a digital metered control handle.

**Model 900 301:** Stub pump for use with tank with 2161 digital metered control handle

**Model 900 302:** Stub pump for use with tank with 2199 preset handle

**Model 900 303:** 16 gallon keg length pump with 2161 digital metered control handle

**Model 900 304:** 16 gallon keg length pump with 2199 preset handle

**Model 900 305:** 55 gallon drum length pump with 2161 digital metered control handle

**Model 900 306:** 55 gallon drum length pump with 2199 preset handle

### PM4 - 5:1 PUMP HOSE REEL METER PACKAGES



All Series 9005 packages include configured PM 4 5:1 pump, model 906 connection kit, SERIES 506 1/2" x 50' MP oil reel model 506 222, model 957 filter/regulator, and a digital metered control handle.

**Model 900 501:** Stub pump for use with tank with 2161 digital metered control handle

**Model 900 502:** Stub pump for use with tank with 2199 preset handle

**Model 900 503:** 16 gallon keg length pump with 2161 digital metered control handle

**Model 900 504:** 16 gallon keg length pump with 2199 preset handle

**Model 900 505:** 55 gallon drum length pump with 2161 digital metered control handle

**Model 900 506:** 55 gallon drum length pump with 2199 preset handle

### WINDSHIELD WASH/ANTI-FREEZE PUMP PACKAGE



#### Model 900 801

Pumping system for pre-mixed windshield wash and anti-freeze solutions. This package includes:

Model 2829: 1/2" polypropylene diaphragm pump rated to 13.5 gpm; includes air ball valve

Model 360 109: diaphragm pump wall-mount bracket

Model 802: 1/4" x 5' LP air hose

Model 846: 1/2" x 5' fluid inlet & outlet hoses (2)

Model 955: 1/4" filter/regulator combo (not shown)

# PUMP PACKAGES

## FIELD SERVICE UNITS

07

### MOBILE LUBE TRUCKS AND LUBE TRAILERS



A wide variety of lube skids, designs and equipment packages are available.



Depending on your application, lube trailers can be a flexible solution.



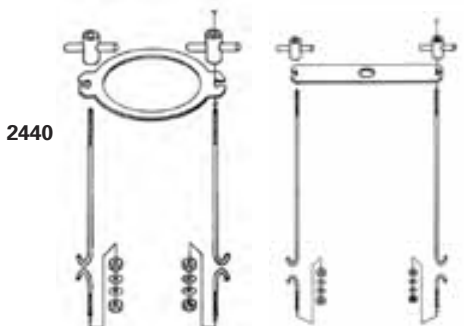
Lube trucks of all shapes, sizes and capabilities.



2391



2449



2440

2450

#### Model 2391 - Four Way Valve

Simplifies plumbing and allows use of one pump to pull and push waste oil on/off the truck with the swing of a handle.

#### Model 2440 - Hold Down Kit for lube trucks

Secures keg or drum to truck bed. 120 lb

#### Model 2449 - Bung Seal Kit

Weather seal for Samson bung busings

#### Model 2450 - Hold Down Kit for lube trucks

Secures keg or drum to truck bed. 400 lb

### USED FLUID EVACUATION SYSTEM



#### Model 379 701 – Used Fluid Evacuation System

Wall Mounted 1" UL listed diaphragm pump for evacuating gravity drains. Complete kit, includes:

- Model 2834: UL-listed 1" diaphragm pump. Aluminum with Buna seals and stainless steel seats
- Model 360 109: Diaphragm pump wall mount bracket
- Model 955: 1/4" NPTFBE Mini Filter/Regulator/Gauge
- Model 1313: 3/4" dry break coupler
- Model 1314: 3/4" dry break nipple
- Model 1589: 1" polypropylene T-strainer filter
- Model 2048: 1/4" NPTM x 3/8" NPTM nipple
- Model 2055: 1" NPTMBE nipple
- Model 801: 1/4" x 2' LP air hose
- Model 863: 1" x 5' MP fluid outlet hose
- Model 867: 1" x 10' MP fluid suction hose
- Model 930: 1/4" FPT air coupler
- Model 931: 1/4" MPT air nipple

### EVACMASTER



379 700

#### Model 379 700 – Evacmaster (Pedestal Mount)

#### Model 379 710 – Evacmaster (Wall Mount)

#### Model 1927 – Replacement Wand kit

A single point used fluid suction unit. Designed to collect used fluid from a vehicle using one of the included dipstick suction wands, or by connecting directly to the dipstick tube on some vehicles. The unit is installed alongside the service bay, enabling the cleanest and safest method of used fluid collection.

The Evac utilizes an internal, air-operated piston pump specially designed for suction applications. The used fluid is extracted from the vehicle and transferred directly to the shop's used fluid tank. This creates a totally closed-loop system. No contact with the oil reduces environmental concerns, drain-plug incident claims, and accidents due to burns or falls.

Wall-mounted Evacs include connectors for emptying roll-around gravity oil drains.

Note: For fast and efficient suction of used fluid, the oil must be warm (70°F or above). Do not use with brake fluids, fuel, or any flammable or corrosive fluids.

### EVACMASTER PORTABLE



379 707

#### Model 379 707 – Evacmaster Portable

A portable version of our single point used fluid suction unit. Designed to collect used fluid from a vehicle using one of the included dipstick suction wands, or by connecting directly to the dipstick tube on some vehicles. The unit has two fixed large wheels with roller bearings and two heavy-duty casters. The oil is extracted from the dipstick and pumped into the 27 gallon tank on board. This tank can be evacuated using pressurization into the shop's used fluid tank.

#### Model 379 708 – Evacmaster with Drain Bowl

Same as the model 379 707, but with the addition of a gravity option for draining oil. A telescoping 17" steel bowl with extension allows conventional draining of oil through a drainplug. Drain can be pressurized for evacuation into the shop tank.

Note: For fast and efficient suction of used fluid, the oil must be warm (70°F or above). Do not use with brake fluids, fuel, or any flammable or corrosive fluids.

379 708

# USED FLUID

## USED FLUID DRAINS

08

### PREMIUM PORTABLE FLUID DRAINS

Portable used fluid drains are utilized for collection of motor oil, gear oil, anti-freeze, and other vehicle used fluid in Class IIIB. They are suitable for use under vehicle lifts or inside lubrication pits.

All drains include a 5 gallon capacity, height adjustable oversized steel collection bowl for a wide reach, and 27 gallon units are also equipped with a plastic drain bowl extension with anti-splash grate. All units are equipped with a level gauge.

### PRESSURE DISCHARGE DRAINS

Units are discharged through a 6' 6" hose while pressurizing the tank at 7 PSI with a tire inflator. The unit includes a safety valve for avoiding overpressurization of the tank.

#### Model 372 400: 27 Gallon Pressure Discharge Drain

Unit includes three piece plastic accessory kit: a tool tray on top of the tank, fender skirt on the bottom of the tank, and a drain bowl extension with a filter drain/anti-splash screen. The unit has two roller-bearing supported fixed wheels and heavy-duty casters.

#### Model 373 400: 18 Gallon Pressure Discharge Drain

Smaller size unit with same materials and workmanship as above. Sleeve bearing fixed wheels and heavy-duty casters. Accessory kit not included, though drain bowl extension is available separately by ordering 737 968.

### GRAVITY/PUMP DRAINS

Units can be drained by either a valve on the bottom of the unit or by an external suction pump connection on the top of the tank.

#### Model 372 301: 27 Gallon Gravity Discharge Drain

Unit includes three piece plastic accessory kit: a tool tray on top of the tank, fender skirt on the bottom of the tank, and a drain bowl extension with a filter drain/anti-splash screen. The unit has two roller-bearing supported fixed wheels and heavy-duty casters. Units now include a standard top-mount suction connector.

#### Model 373 301: 18 Gallon Gravity Discharge Drain

Smaller size unit with same materials and workmanship as above. Sleeve bearing fixed wheels and heavy-duty casters. Accessory kit not included, though drain bowl extension is available separately by ordering 737 968. Units now include standard top mount suction connector.





## USED FLUID

### USED FLUID DRAINS

08

#### PREMIUM SUCTION MODELS - DIPSTICK EVACUATION

372 600



Discharge is carried out through a 6.5 foot discharge hose pressurizing the unit at 7 psi using a tire inflator.

All units are equipped with a level gauge, vacuum gauge and suction probes and connectors kit.

#### Model 372 600

Mobile used fluid suction unit, 27 gallon capacity. Ideal for use with all types of passenger cars, trucks, tractors, aircraft, boats, etc.

#### Model 372 100

Mobile used fluid suction unit, 27 gallon capacity. The unit includes a 10 quart transparent chamber that can be used as a vacuum reservoir and allows an immediate inspection of the evacuated used fluid.

#### Model 372 500

Combined used fluid suction and drain unit, 27 gallon capacity. Ideal for use with all types of passenger cars, trucks, tractors, etc.

#### Model 372 000 (Not Shown)

Mobile used fluid suction and drain unit, same as 3725 except with a 10 quart transparent chamber that can be used as a vacuum reservoir and allows an immediate inspection of the evacuated used fluid.

**Note:** For fast and efficient suction of used fluid, the oil must be warm (70°F or above). Do not use with brake fluids, fuel, or any flammable or corrosive fluids.



372 500



372 100

#### STANDARD SUCTION MODELS - DIPSTICK EVACUATION



373 500



373 600

#### Model 373 600

Portable 18 gallon pressurized evacuation unit for suction of used oil. Complete with fill gauge, vacuum gauge, suction wands and connectors kit.

#### Model 373 500

Portable 18 gallon combination used oil suction and gravity drain unit.

#### Model 133 000

Portable 6.5 gallon oil evacuation unit. Includes suction wand kit.

**Note:** For fast and efficient suction of used fluid, the oil must be warm (70°F or above). Do not use with brake fluids, fuel, or any flammable or corrosive fluids.

133 000





373343



1336

#### Model 1336

Special low-profile pressurized oil drain with swing-arm funnel tray. Allows easy positioning for hard to access drain plugs. Ideal for motorcycle, marine, off-road, lawn, farm and in-plant use. Holds 10 gals. Air discharge to empty unit. Drain tray adjusts from 29" to 37" high.

#### Model 373 343

Functional and economical 8 gallon capacity rollaround undercar drain. Equipped with four ball bearing casters and aluminum downtube for durability. Features a large diameter bowl with molded in screen, height adjustable from 47 3/8" to 62".

#### Model 1351 Series Oil Drains

This series of drains, designed for 16 gallon kegs, include a 17" steel drain bowl with 5 gallon capacity, unique keg cover with anti-leak lip, telescoping drain tube, dipstick level indicator, bung adapter, and four wheel band dolly.

**Model 135 100:** for use on customer supplied 16 gallon keg

**Model 135 101:** complete with 16 gallon keg supplied in package

**Model 135 103:** complete with top-mounted suction kit (suction tube and cam lock), for use on customer supplied 16 gallon keg

**Model 135 104:** complete with top-mounted suction kit (suction tube and cam lock), and 16 gallon keg supplied in package

#### Model 1352

Heavy duty deluxe 28 gallon used oil wagon. Only 9" high. Built in baffles and splash deflectors. H.D. 14 gauge construction. Recessed shelf for draining filters. 6" H.D. wheels. Empties quickly, 3/4" drain valve. Easily connected to a pumping system for evacuation with a 1314 dry break nipple.

#### Model 435 000

Functional and economical 18 gallon capacity rollaround low boy drain. Equipped with four large diameter wheels with ball bearing casters and welded steel pull handle for durability. Features a sturdy steel drain screen with large area, and a low minimum access height of 8 inches. Easily connected to a pumping system for evacuation.

#### Model 1355

Heavy duty rolling pit drain. Holds 34 gallons. Anti-splash screen. Accommodates 31 1/2" - 49 1/2" opening. Dimensions: 28" W x 24" L x 12" H.

#### Model 1360

Heavy duty pedestal type drain. Extends to 78". Includes thick steel 17", five gallon capacity bowl. Order 1361 valve adapter extra.

#### Model 1361

Valve opening adapter for use with pedestal drain. 2" male bung threads



1351

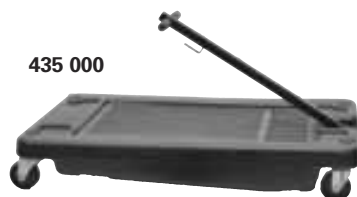


1361

1360



1355



435 000



1352

## USED FLUID SYSTEM ACCESSORIES



### Model OA-1 – Automatic Air High Level Shut Off

Air-operated, bung-mounted overflow protection for single wall tanks, constructed of anodized aluminum. This float-activated unit is equipped with a whistle alarm and positive pump air shut-off valve. UL-listed, the OA-1 has a 360 degree rotating lock collar to index the float arm.

### Model 1589 – 1" Polypropylene inline 'T' strainer.

Easily removable bowl and sturdy reusable 304 stainless steel 30 mesh screen. Viton O-ring. Protects used fluid pump from ingesting harmful debris.



### Model 1089 – 1" Cast Iron 'Y' Strainer

Solid cast iron construction and 40 mesh screen.

### Model 1313 – 3/4" Dry Break Coupler

Ball check sealed coupler, 3/4" NPTF. Connects to 1314.



### Model 1314 – 3/4" Dry Break Nipple

Ball check sealed nipple, 3/4" NPTF. Connects to 1313.

### Model CAM 7C – 3/4" Camlock Cap

Polypropylene 3/4" female camlock cap. Seals 3/4" male camlock nipple CAM7F.



### Model CAM 7P – 3/4" Camlock Plug

Polypropylene 3/4" Male camlock plug. Seals 3/4" female camlock coupler CAM 7D or CAM 7M.

### Model CAM 7D – 3/4" Camlock Coupler

Polypropylene 3/4" female camlock coupler. 3/4" NPTF threads, connects to CAM 7F or CAM 7A.



### Model CAM 7M – 3/4" Camlock Coupler

Polypropylene 3/4" female camlock coupler. 3/4" NPTM threads, connects to CAM 7F or CAM 7A.

### Model CAM 7F – 3/4" Camlock Nipple

Polypropylene 3/4" male camlock. 3/4" NPTM threads, connects to CAM 7D or CAM 7M.



### Model CAM 7A – 3/4" Camlock Nipple

Polypropylene 3/4" male camlock. 3/4" NPTF threads, connects to CAM 7D or CAM 7M.

### Model 2391 – 1" Four Way Reversing Valve

Anodized Aluminum body with brass valve. Four 1" NPTF ports: tank, pump suction, pump discharge, and hose – allows changing the direction of flow to pump into or out of the tank as desired.



### Model 2392 – 3/4" Four Way Reversing Valve

Same as 2391 but uses 3/4" NPTF ports

### Model 94112004 – Special Adapter

Aluminum 1 1/2" F by 3/4" NPTF double tap adapter to convert Samson 3700 series gravity drains to top mount suction.



# ELECTRIC PUMPS

## ELECTRIC FUEL PUMPS

09

GASOLINE, DIESEL FUEL, KEROSENE AND FUEL OIL



### Model 6945 115 VAC UL Fuel Pump Kit

Low current draw with high output, Positive displacement, self-priming gear pump. Specially designed for ½ hour duty cycles. Built in sealed electrical connector, relief valve and strainer. Heavy duty 1 horsepower explosion proof switch. Kits are complete: Pump, Bung Adapter, Hose, Nozzle, Suction Pipe, and Hardware.

Inlet port.....	1" NPTF
Outlet port.....	3/4" NPTF
Power cord .....	not supplied
Max PSI .....	10
Voltage.....	115 VAC
Hose.....	3/4" x 12'
Suction Pipe.....	34"
Max Current.....	1.4 Amps
Rated.....	13.5 GPM
UL Listed for Gasoline	

GASOLINE, DIESEL FUEL, KEROSENE AND FUEL OIL



### Model 6942 12 Volt DC Fuel Pump Kit

Similar to Model 6945, except, 12 Volt DC UL (UL Listed Class I, Group D Hazardous Locations) electric motor. Ideal for gasoline, diesel fuel, kerosene, fuel oil, portable remote applications with 1/2 hour duty cycles.

Current.....	14 Amps
Inlet port.....	1" NPTF
Outlet port.....	3/4" NPTF
Power cord .....	20'
Max PSI .....	10
Voltage.....	12 VDC
Hose.....	3/4" x 12'
Suction Pipe.....	34"
Rated.....	13.8 GPM

**Note: Order Model 6950 Gallon Register Fuel Meter extra**

DIESEL FUEL, KEROSENE, FUEL OIL



### Model 6902 Economy 12 VDC Diesel Transfer Pump Kit

Economy 12 VDC Pump with 1" inlet and outlet. Ideal for Diesel Fuel transfer. RATED 11 GPM. Kit includes, Pump, 10' cable with clamps, on/off switch, 14' hose, Aluminum Nozzle and mounting hardware.

**Not for use to fill aircraft. (Not for use with gasoline)**

# ELECTRIC PUMPS

## ELECTRIC FLUID PUMPS

09

BULK OILS, HYDRAULIC OILS, COOLANTS AND MIXES



### Model 6915 115 VAC Oil Transfer Pump Kit

1/2 H.P. Electric motor drive, self-priming, positive displacement, gear type pump. 30' grounded 3 prong power cord and on/off switch included. Ideal for high volume transfer of light oils and fluids. Kit is complete with pump, bung adapter, shut-off nozzle, hose, and pipe.

Inlet port.....	1" NPTF
Outlet port.....	3/4" NPTF
Power cord .....	30" 3 PRONG
Horsepower .....	1/2
Outlet flow .....	4 1/2 GPM
Voltage.....	115 VAC
Hose.....	3/4" x 8'
Suction pipe.....	35"
Max Current.....	1.4 Amps

BULK OILS, HYDRAULIC OILS, COOLANTS AND MIXES



### Model 6912 12 VDC Oil Transfer Pump Kit

Similar to 6915, except, 12 Volt DC electric motor. Ideal for a clean portable transfer unit for farm machinery and large equipment. Kit is complete with pump, bung adapter, shut-off nozzle, hose, and pipe.

Inlet port.....	1" NPTF
Outlet port.....	3/4" NPTF
Power cord .....	not supplied
Horsepower .....	1/2
Outlet flow .....	4 1/2 GPM
Voltage.....	12 VDC
Hose.....	3/4" x 8'
Suction pipe.....	35"
Max Current.....	14 Amps

**Note: Order Model 2100 In-line Electronic Oil Meter extra**

BULK OILS, HYDRAULIC OILS, COOLANTS AND MIXES



### Model 6901 Economy 12 VDC Transfer Pump

Economy 12VDC pump with 1" inlet and outlet. For lighter weight fluids with light duty use. 10' cable with clamps, on/off switch. Mounting hardware included, can be mounted horizontal or vertical. RATED 11 GPM.

6922

BULK OILS, HYDRAULIC OILS, COOLANTS AND MIXES

### Model 6922 115 VAC Fluid Transfer Pump

Totally enclosed UL and CSA listed motor. Self-priming, positive displacement, gear type pump. Pumps high viscosity fluids. 60" grounded 3 prong power cord, and on/off switch included. Built in bypass valve to bypass flow of any excess pressure. Pump comes with bung adapter, but can also be wall mounted.



Inlet port .....	1" NPTF
Outlet port .....	3/4" NPTF
Power cord .....	60" 3 PRONG
Horsepower .....	3/4
Outlet flow .....	2 1/2 GPM
Max PSI .....	230
Voltage.....	115VAC
Max current.....	7.5 amps

6937

BULK OILS, HYDRAULIC OILS, COOLANTS AND MIXES

### Model 6937 115 VAC On-Demand Fluid Transfer Pump

Similar to Model 6922, except, a higher pressure sensing system is added to start and stop the pump when the hose end control valve is opened and closed. Outlet flow is continuous and non-pulsating. Can be used for multiple outlets, each with the same flow rate.



Inlet port .....	1" NPTF
Outlet port .....	3/4" NPTF
Power cord .....	not supplied
Horsepower .....	3/4
Outlet flow .....	2 1/2 GPM
Max PSI .....	370
Voltage.....	115VAC
Max current.....	10.6 amps



**6996**  
Suction Pipe/Check Valve Assembly. Required with On-Demand Pumps.



**6997**  
Inlet Suction Screen. To be used when pumping USED product.



**6998**  
Inline Suction Screen. To be used on inlet of pump when transferring USED product.



**6999**  
Wall Mounting Bracket





**LEVER TYPE**



The tough high pressure cast iron head makes Pro Grease Guns unique in comparison to common pot metal or other die cast heads with a head burst pressure of 17,000 PSI (1200 Bar).

Easy to maintain original pressure and delivery under the hardest working conditions. Delivers .1 ounce per stroke against 7,100 PSI counter pressure.

Heavy duty knurled steel barrel with large threads for easy loading.

Locking follower rod, heavy duty spring, heavy duty beveled rubber follower, no conversion needed for various filling. Use standard 14 oz. cartridge or 16 oz. bulk grease.



**Model 1200**

**Model 1200**

*Standard Series*

Heavy duty cast iron head, with port for optional filler nipple. Curved outlet pipe and coupler with ball check and hardened jaws. Heavy duty barrel with large threads and o'ring seal. Heavy duty rod, spring and follower. Rugged baked enamel finish.



**Model 1205**

**Model 1205**

*Deluxe Series*

Has all the features of model 1200 plus: Filler nipple for 3-way loading. Vinyl handle grip.



**Model 1210**

**Model 1210**

*Professional Series*

Has all the features of Model 1205 plus: Variable stroke cast iron head. Air bleeder valve. Removable valve checks for ease of maintenance. Metallic baked finish. Zinc plated lever handle and linkage.

**Model 1212 (Not shown)**

*Professional Series*

Has all features of Model 1210 plus: 360° adjustable outlet pipe, locks in any position.

**SUCTION GUN**



**Model 1225**

**Model 1225**

*Professional Series*

Clear vinyl flex hose with removable holding clip. Heavy duty, double lipped follower. Heavy duty 16 oz. capacity, knurled barrel. Large positive pull handle. Metallic baked finish.

PISTOL TYPE



Model 1220

**Model 1220**

*Deluxe Series*

Heavy duty high pressure cast iron head.  
Straight outlet pipe and coupler with ball check and hardened jaws.  
Head has port for optional filler nipple.  
Heavy duty barrel with large threads and o'ring seal.  
Heavy duty rod, spring and follower.  
One hand action for hard to reach fittings.  
Rugged baked enamel finish.

**Model 1221 (Not shown)**

Same as 1220 except with flex hose.



Model 1222

**Model 1222**

*Professional Series*

*Has all the features of Model 1220 Plus:*  
Removable valve checks for ease of maintenance.  
Air bleeder valve.  
Filler nipple for 3-way loading.  
Metallic baked finish.  
Zinc plated handle and linkage.  
Positive vinyl handle grip.

**Model 1227 (Not shown)**

Same as 1222 except with flex hose.

AIR OPERATED



Model 1230

**Model 1230**

*Standard Series*

40 to 1 ratio air motor  
Filler nipple for 3-way loading  
Air bleeder valve  
Curved outlet pipe and coupler  
Baked enamel and zinc plate finish



Model 1233

**Model 1233**

*Professional Series*

60 to 1 ratio air motor  
Uses standard grease cartridges  
Combination bleeder valve and filler nipple  
3-way loading  
Heavy duty rod, spring and follower  
Curved outlet pipe and coupler with ball check and hardened jaws  
Heavy duty barrel with large threads and o'ring seal  
Metallic baked finish



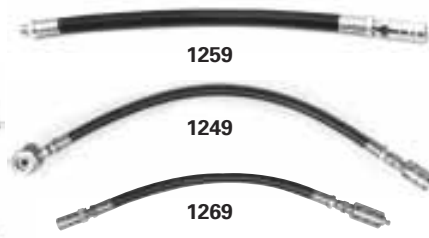
Model 1235

**Model 1235**

*Special Industrial Series*

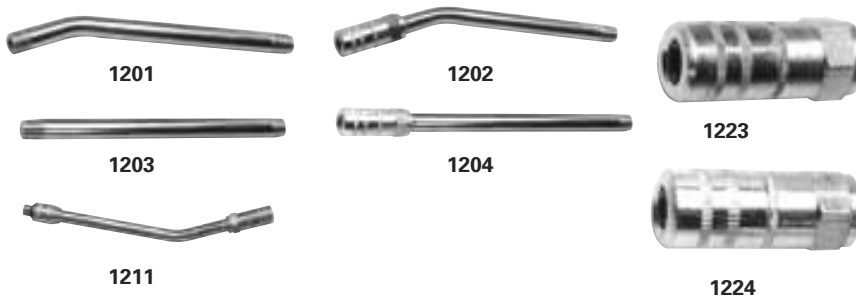
60 to 1 ratio air motor  
Bulk loading only, will not accept standard grease cartridges  
Unique, exclusive air powered follower plate, ideal for heavy greases  
Large 33 1/2 oz. capacity heavy duty knurled barrel  
Filler nipple for 2-way loading  
Wire braid flex hose extension and coupler with hardened jaws  
Metallic baked finish

GREASE WHIP HOSE WIRE BRAID HOSE 3000 PSI WORKING, 12,000 PSI BURST



Model	Description
1260	12" length - 1/8" NPTM both ends
1262	18" length - 1/8" NPTM both ends
1264	24" length - 1/8" NPTM both ends
1229	18" whip hose with giant buttonhead coupler
1249	18" whip hose with giant buttonhead coupler and lock sleeve
1259	12" whip hose with 4 jaw narrow coupler
1269	12" whip hose with 4 jaw coupler and lock sleeve

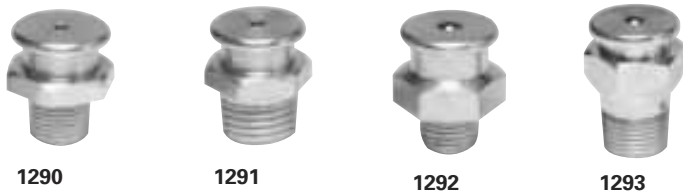
OUTLET PIPES AND COUPLERS



For use with hand operated equipment only

Model	Description
1201	6" curved outlet pipe - 1/8" NPTM both ends
1202	6" curved pipe with 4 jaw narrow coupler
1203	6" straight outlet pipe - 1/8" NPTM both ends
1204	6" straight pipe with 4 jaw narrow coupler
1211	6" curved pipe with 360° adjustable, locking outlet nut and 4 jaw coupler
1223	3 jaw narrow coupler - 1/8" NPTF
1224	4 jaw narrow coupler - 1/8" NPTF

BUTTONHEAD FITTINGS



Model	Description
1290	Standard - 1/8" MPT
1291	Standard - 1/4" MPT
1292	Giant - 1/4" MPT
1293	Giant - 3/8" MPT

PLASTIC FUNNELS AND MEASURES



Model	Description
2351	7 1/2" funnel, flex-spout, filter, anti-splash rim, fingergrip
2352	Large heavy duty funnel with regular filter
2353	Large heavy duty funnel with diesel filter
2377	5 quart flex-spout measure, quart and liter calibration and now includes lid

BRASS PUMP & HEAVY DUTY HIGH PRESSURE MACHINE OILERS

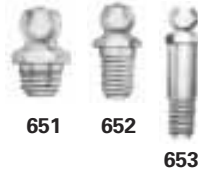


Model	Description
2315	1 quart brass pump, steel can, flex spout
2326	1 pint, heavy duty, high pressure, cast iron pump with filter screen, rigid spout
2328	1 1/2 pint heavy duty high pressure, cast iron pump with filter screen, rigid spout

### Grease fittings

#### 1/4" - 28 Taper

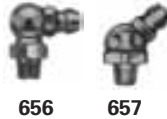
Model	Description
651	1/4" - 28 Taper thread, short, straight
652	1/4" - 28 Taper thread, med, straight
653	1/4" - 28 Taper thread, long, straight
656	1/4" - 28 Taper thread, 90° angle
657	1/4" - 28 Taper thread, 45° angle



651

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#### Drive Type

Model	Description
662	1/4" Drive type, straight
666	3/16" Drive type, straight
668	5/16" Drive type, straight



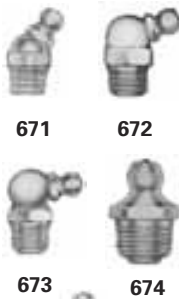
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#### 1/8" Pipe

Model	Description
671	1/8" Pipe thread, 30° angle
672	1/8" Pipe thread, 65° angle, short
673	1/8" Pipe thread, 90° angle
674	1/8" Pipe thread, short, straight
675	1/8" Pipe thread, 65° angle, long
678	1/8" Pipe thread, 45° angle
679	1/8" Pipe thread, long, straight



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#### 1/4" Pipe

Model	Description
687	1/4" Pipe thread, straight
689	1/4" Pipe thread, 65° angle

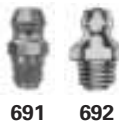


687

689

#### Metric

Model	Description
691	6mm x 1.0, straight
692	8mm x 1.0, straight
694	6mm x 1.0, 45° angle
695	8mm x 1.0, 45° angle
697	6mm x 1.0, 90° angle
698	8mm x 1.0, 90° angle



691

692



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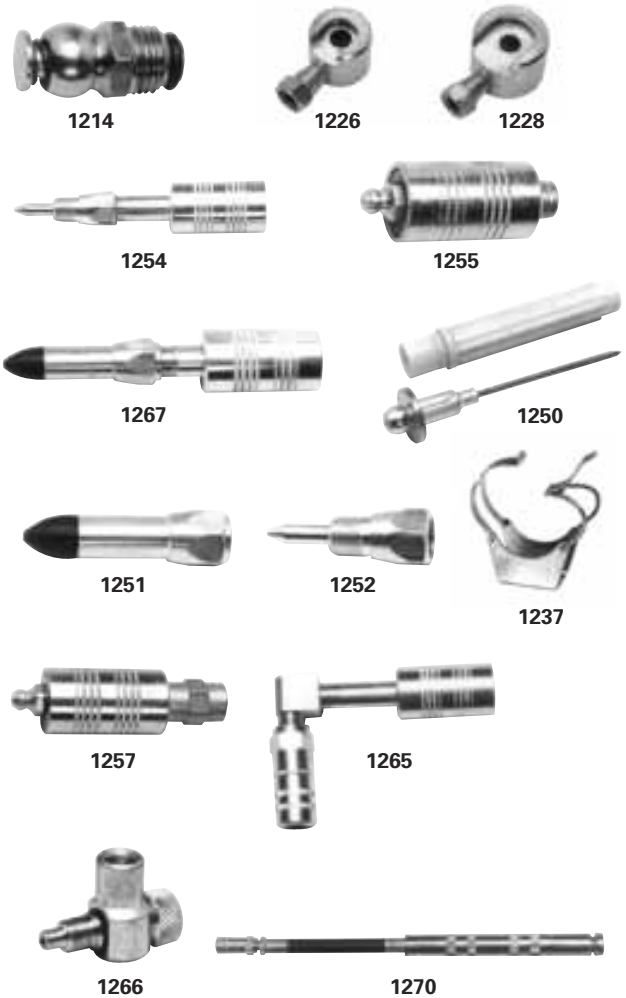
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### Accessory adapters and couplers



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Model	Description
1209	Filler nipple - thin type - 1/8" NPTM
1213	Filler nipple - standard - 1/8" NPTM
1214	Air bleeder valve - 1/8" NPTM
1226	Standard buttonhead coupler- 1/8" NPTF
1228	Giant buttonhead coupler - 1/8" NPTF
1237	Clamp type hand lever grease gun holder
1250	Injector needle adapter
1251	Rubber tip seal-off adapter - 1/8" NPTF
1252	Needle nose adapter - 1/8" NPTF
1254	Needle nose adapter with lock sleeve
1255	Lock sleeve - 1/8" NPTM
1257	Lock sleeve - 1/8" NPTF
1265	90° adapter, coupler and lock sleeve
1266	Threaded swivel adapter
1267	Rubber tip seal-off with lock sleeve
1270	Rigid flex adapter with hydraulic coupler

#### Couplings



Coupling

2067	1/8" NPT-F x 1/8" NPT-F
2068	1/4" NPT-F x 1/4" NPT-F
2069	3/8" NPT-F x 3/8" NPT-F
2058	3/8" NPT-F x 1/2" NPT-F
2070	1/2" NPT-F x 1/2" NPT-F
2071	3/4" NPT-F x 3/4" NPT-F
2073	1" NPT-F x 1" NPT-F
2537	3/4" NPT-F x 1" NPT-F

#### Hex Nipples



Nipple

2050	1/8" NPT-M x 1/8" NPT-M
2044	1/8" NPT-M x 1/4" NPT-M
2051	1/4" NPT-M x 1/4" NPT-M
2048	1/4" NPT-M x 3/8" NPT-M
2052	3/8" NPT-M x 3/8" NPT-M
2035	3/8" NPT-M x 1/2" NPT-M
2053	1/2" NPT-M x 1/2" NPT-M
2094	3/4" NPT-M x 1/2" NPT-M
2054	3/4" NPT-M x 3/4" NPT-M
2055	1" NPT-M x 1" NPT-M
2521	1/8" NPT-M x 3/8" NPT-M
2522	1/2" NPT-M x 1/4" NPT-M
2523	3/4" NPT-M x 3/8" NPT-M
1953	1" NPT-M x 3/4" NPT-M

#### Swivel-Unions - M x F



Swivel

1951	1/2" NPT-M x 3/8" NPT-F
1949	1/2" NPT-M x 1/2" NPT-F
1957	3/4" NPT-M x 1/2" NPT-F
1952	3/4" NPT-M x 3/4" NPT-F
1954	1" NPT-M x 3/4" NPT-F
1955	3/4" NPT-M x 1" NPT-F
1948	3/8" NPT-M x 3/8" NPT-F
1942	1/4" NPT-M x 1/4" NPT-F
1943	3/8" NPT-M x 1/2" NPT-F
1944	1/4" NPT-M x 3/8" NPT-F
1945	1/2" NPT-M x 3/4" NPT-F
1946	1" NPT-M x 1" NPT-F

#### Swivel-Unions - F x F



Swivel

1958	3/4" NPT-F x 3/4" NPT-F
1960	1/4" NPT-F x 1/4" NPT-F
1961	3/8" NPT-F x 1/4" NPT-F
1962	3/8" NPT-F x 3/8" NPT-F
1963	1/2" NPT-F x 3/8" NPT-F
1964	1/2" NPT-F x 1/2" NPT-F
1965	3/4" NPT-F x 1/2" NPT-F
1966	1" NPT-F x 3/4" NPT-F
1967	1" NPT-F x 1" NPT-F



Swivel

1947	1/4" M x 1/4" F 90° swivel
1950	1/2" NPT-M x 1/2-27" M

#### Bushings



Bushing

2059	1/4" NPT-M x 1/8" NPT-F
2060	3/8" NPT-M x 1/4" NPT-F
2063	3/8" NPT-M x 1/8" NPT-F
2061	1/2" NPT-M x 3/8" NPT-F
2062	1/2" NPT-M x 1/4" NPT-F
2064	1/2" NPT-M x 1/8" NPT-F
2046	3/4" NPT-M x 3/8" NPT-F
2065	3/4" NPT-M x 1/2" NPT-F
2500	1" NPT-M x 1/2" NPT-F
2066	1" NPT-M x 3/4" NPT-F
2097	1/2" NPT-M x 1/2" NPT-F
2581	1/8" NPT-M x 3/8" NPT-F
2582	1/8" NPT-M x 1/2" NPT-F
2583	1/4" NPT-M x 1/2" NPT-F
2584	3/8" NPT-M x 3/8" NPT-F
2585	1/2" NPT-M x 1/8" NPT-F
2586	1/2" NPT-M x 3/4" NPT-F
2587	3/4" NPT-M x 1/4" NPT-F
2023	1 1/2" NPT-M x 1" NPT-F
2561	1 1/2" NPT-M x 3/4" NPT-F

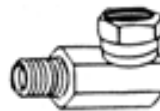
#### Reducing Adapters-Pipe



Adapter

2096	1/8" NPT-M x 1/4" NPT-F
2501	1/4" NPT-M x 3/8" NPT-F
2502	1/4" NPT-M x 1/2" NPT-F
2511	1/2" NPT-M x 3/4" NPT-F
2075	1/2" NPT-M x 3/4" GHT-F
2095	3/4" GHT-M x 1/2" NPT-M
2025	3/4" GHT-M x 1/2" NPT-M
2508	3/8" NPT-M x 1/2" NPT-F

#### 90° Swivels - M x F



1977	3/8" NPT-M x 1/4" NPT-F
1978	3/8" NPT-M x 3/8" NPT-F
1979	3/8" NPT-M x 1/2" NPT-F
1980	1/2" NPT-M x 3/8" NPT-F
1981	1/2" NPT-M x 1/2" NPT-F
1982	3/4" NPT-M x 3/4" NPT-F
1947	1/4" NPT-M x 1/4" NPT-F

#### 90° Swivels - F x F



1970	1/4" NPT-F x 1/4" NPT-F
1971	3/8" NPT-F x 3/8" NPT-F
1972	3/8" NPT-F x 1/2" NPT-F
1973	1/2" NPT-F x 1/2" NPT-F
1974	3/4" NPT-F x 3/4" NPT-F

#### Street Elbows



2513	1/2" NPT-F x 1/2" NPT-F
2514	1/2" NPT-M x 1/2" NPT-F
2512	1/2" NPT-M x 1/2" NPT-M
2547	3/8" NPT-M x 3/8" NPT-F
2548	3/4" NPT-M x 3/4" NPT-F
2549	1" NPT-M x 1" NPT-F

#### Special Steel Nipples

2047	1/2-27" M x 1/8" NPT-M
2056	1/2-27" M x 1/4" NPT-M
2040	1/2-27" M x 1/2-27" M
2049	1/2-27" M x 3/8" NPT-M
2036	1/2-27" M x 1/2" NPT-M



Nipple



Adapter



Coupling



Bushing

#### Special Reducing Adapters

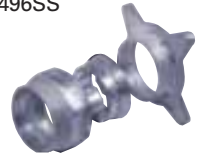
2034	1/2-27" M x 1/8" NPT-F
2041	1/2-27" M x 1/4" NPT-F
2033	1/2-27" M x 3/8" NPT-F
2017	1/2-27" F x 1/8" NPT-M
2042	1/2-27" F x 1/4" NPT-M

#### Couplings

2019	1/8" NPT-F x 1/2-27" F
2038	1/4" NPT-F x 1/2-27" F
2072	3/8" NPT-F x 1/2-27" F

#### Bung Bushings

Model	Fits
2028	PM3 55:1
360 001	PM2 1:1 and PM4 3:1
360 006	PM6 10:1, 296SS and 496SS
360 007	1000 and 1008
366 000	PM2 3:1 and PM4 8:1
366 002	PM4 5:1
410 001	PM6 55:1
410 002	PM3+3 60:1



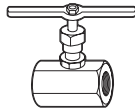
#### Bushings

2043	1/2-27" F x 3/8" NPT-M
2037	1/2-27" F x 1/2" NPT-M

#### High Pressure Needle Valve

##### 10,000 PSI

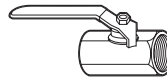
2077	1/2" NPTF
2089	3/4" NPTF
2093	1" NPTF



#### Medium Pressure Ball Valve

##### 2,000 PSI

2074	1/2" NPTF
2083	3/4" NPTF
2090	1" NPTF



#### Low Pressure Ball Valve

##### 400 PSI

2013	1/4" NPTF
2088	1/2" NPTF
2091	3/4" NPTF
2084	1" NPTF



### TANK GAUGES, VENT CAPS, BUSHINGS

Model 2641



#### Tank Gauges - Swing Arm

Model 2640	32" - Work Bench Tanks
Model 2641	44" - 275 Gallon Oval Tank
Model 2642	48" - 500 Gallon Horizontal Round
Model 2643	60" - 500 Gallon and Larger Cube Tanks
Model 2644	72" - Tanks with 72" interior height

#### Fill Caps and Tank Vents

Model 2631	2" Vented style Fill Cap with hinged cover
Model 2632	2" Standard (mushroom) Vent
Model 2633	3" Emergency Vent
Model 2634	4" Emergency Vent

#### Double Tap Bushing

Model 2613	Standard 2" M x 1 1/2" F bushing
Model 2615	For mounting 3:1 stub pumps directly to double tap bushing
Model 2616	For mounting 5:1 stub pumps directly to double tap bushing
Model 2617	For mounting 10:1 stub pumps directly to double tap bushing

#### Overfill Shutoff and Alarm

Model OA-1

Non-electric, float level sensor alarm with automatic overfill shut-off valve and alarm whistle. Fits virtually all single wall tanks. Rotating mounting collar allows 360° indexing of the float.

#### Stub Pump Adapter Kit

Model 2551 (Not Shown)

Adapter kit includes:

Nipples, couplers, adapters, bushings, etc. to install Samson stub pumps as replacement pumps for major competitive stub pumps already installed in the field. Instructions included.



Model 2634



Model 2631



Model 2613



Model OA-1

**AIR REGULATORS AND GAUGES**



Model 970	1/4"
Model 973	3/8"
Model 976	1/2"
Model 980	3/4"

**FILTERS WITH AUTO DRAIN**



Model 972	1/4"
Model 975	3/8"
Model 978	1/2"
Model 982	3/4"

**LUBRICATORS**



Model 971	1/4"
Model 974	3/8"
Model 977	1/2"
Model 981	3/4"

**FILTER, REGULATOR, LUBRICATOR WITH AUTO DRAIN**



Model 983	1/4"
Model 984	3/8"
Model 985	1/2"
Model 986	3/4"
Model 988	Mounting bracket for 1/2" and 3/4" package.
Model 987	Mounting bracket for 1/4" and 3/8" package.

**FILTER, REGULATOR, COMBO UNITS WITH AUTO DRAIN**



Filter with auto drain and air regulator in compact unit.

Model 952	3/4"
Model 956	1/4"
Model 957	3/8"
Model 958	1/2"

**MINIATURE UNITS WITH AUTO DRAIN**



Model 991	1/4" Regulator
Model 993	1/4" Filter
Model 992	1/4" Lubricator
Model 995	1/4" FRL package
Model 955	1/4" Filter regulator combo

**GAUGES**



Model 979	Standard 1/4" rear mount
Model 994	Mini 1/8" rear mount

#### COUPLER/CONNECTOR INTERCHANGE

##### ARO SERIES

This series of couplers and connectors is engineered to interchange with the ARO design as well as similar designs of other manufacturers.

##### 1/4" Body Size Couplers



Thread Size	Female Thread	Male Thread
1/4"	930F04	930M04
3/8"	930F06	930M06

##### 1/4" Body Size Connectors



Thread Size	Female Thread	Male Thread
1/4"	933F04	933M04
3/8"	933F06	933M06

##### LINCOLN INTERCHANGE SERIES

This series of couplers and connectors is engineered to interchange with the Lincoln interchange design as well as similar designs of other manufacturers.

##### 1/4" Body Size Couplers Lincoln Style



Thread Size	Female Thread	Male Thread
1/4"	950F04	950M04

##### 1/4" Body Size Connectors Lincoln Style



Thread Size	Female Thread	Male Thread
1/4"	953F04	953M04

##### INDUSTRIAL INTERCHANGE SERIES

This series of couplers and connectors is engineered to interchange with the industrial interchange design of all manufacturers.

##### 3/8" Body Size Couplers



Thread Size	Female Thread	Male Thread
1/4"	935F04	935M04
3/8"	935F06	935M06
1/2"	935F08	935M08

##### 3/8" Body Size Connectors



Thread Size	Female Thread	Male Thread
1/4"	936F04	936M04
3/8"	936F06	936M06
1/2"	936F08	936M08

##### 1/2" Body Size Couplers



Thread Size	Female Thread	Male Thread
3/8"	938F06	938M06
1/2"	938F08	938M08

##### 1/2" Body Size Connectors

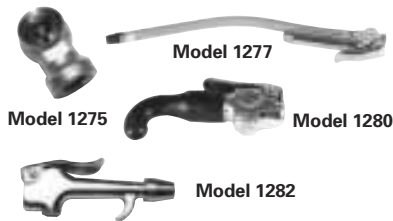


Thread Size	Female Thread	Male Thread
3/8"	947F06	947M06
1/2"	947F08	947M08

#### SPECIFICATIONS

Series Body Style	Body	Sleeve	CFM	Locking Device	Internal Valve	Seals	PSI	Temp Min/Max
ARO	Brass	Brass	34	4 Stainless balls	Zinc Plated Steel	BUNA N	300	-40 F to 250 F
Lincoln	Brass	Brass	32	3 Pawls	Zinc Plated Steel	BUNA N	300	-40 F to 250 F
Industrial; 3/8" body	Zinc Plated Steel	Zinc Plated Steel	65	8 Stainless Balls	Zinc Plated Steel	BUNA N	300	-40 F to 250 F
Industrial; 1/2" body	Zinc Plated Steel	Zinc Plated Steel	150	8 Stainless Balls	Zinc Plated Steel	BUNA N	300	-40 F to 250 F

#### AIR / FLUID SERVICE



- Model 1275** Air chuck 1/4" NPTF
- Model 1277** Inflator gauge 1/4" NPTF
- Model 1280** Water bibb 1/4" NPTF
- Model 1282** Air blow gun 1/4" NPTF

#### AIR OVER-RUN VALVES



- Model 2525** 1/4" NPT inlet/outlet
- Model 2550** 1/2" NPT inlet/outlet

#### LOW PRESSURE SHUT OFF VALVES



##### Fully-Ported Ball Valve

- Model 2013** 1/4" NPTF
- Model 2088** 1/2" NPTF
- Model 2091** 3/4" NPTF
- Model 2084** 1" NPTF



##### Mini Ball Valve

- Model 950 321** 1/4" NPTM x NPTF
- Model 950 318** 3/8" NPTM x NPTF
- Model 950 319** 1/2" NPTM x NPTF



**BARREL PUMPS**

**Model 605 001**



**Model 605 001**

Heavy Duty lever action barrel pump. Constructed of steel and aluminum with four position lever to adjust for different fluid viscosities or delivery rate. Equipped with a flex spout. Telescopic suction tube included, adjusts from 26" to 42" to accommodate drums from 16 to 55 gallons. Adjustable delivery per stroke, 3.3 oz., 5 oz. , 6.7 oz., or 8.5 oz.

**Model 605 002**

Same as above but with Rigid Outlet

**Model 605 003**

Same as above but with Dispense Hose

**Model 1240**



**Model 1240**

Lever action barrel pump. Steel pump body, spout and telescopic suction tube. Die cast head, steel piston, brass rings and nitrile rubber seals. Bung threads fits 16-55 gallon drums. Ideal for use with light viscosity lubricants and other non-corrosive fluids.

**Model 1243**



**Model 1243**

Same features as Model 1240 plus: A larger pump body with greater internal volume. Has Viton® seals, useable with alcohols, detergents, solvents, oils and anti-freeze. Long curved removable steel spout.

**Model 1244**



**Model 1244**

Lever action siphon pump. Design allows transfer by siphon once the pump has been primed, giving a continuous flow of two gal/min. Bung threads fits 16-55 gallon drums. With 3' clear delivery hose, metal nozzle and PVC suction tube. For anti-freeze, light mineral oil, diesel, detergent and other automotive and petroleum light fluids.

**Model 1245**



**Model 1245**

Rotary barrel pump. Heavy duty cast iron body, telescopic steel suction tube, adjustable bung fits 16-55 gallon drums. Dispenses fuel oils, kerosene, diesel fuel, oils and other light fluids.

**Model 1247**



**Model 1247**

Constructed of nylon, stainless steel and special packings. Fits 16-55 gallon drums with a 2-inch bung opening. Spout can be removed and special hose attached. Dispenses strong chemicals and solvents at approximately 8 oz. per stroke.

CHEMICAL HAND PUMPS

8013



**Rotary**

**Model 8013**

Lightweight rotary pump manufactured in PVC to handle chemicals and acid based products. Features bi-directional operation. Delivery is rated at over 4.75 gpm at 60 cycles per minute. Includes adjustable bung bushing and a 3 piece down tube that extends from 13 to 37 inches (945mm) to fit most containers, including 5, 16 and 55 gallon commercial sizes.



3007

**Lever Action**

All Polypropylene construction, 2" NPT bung threads and a unique adjustable locking nut to allow the pump to be fixed in the proper position on the barrel for dispensing. Delivers over ½ quart per stroke (500cc). The telescopic suction tube extends from 12.5 to 37 inches (945mm) to fit most containers, including 5, 16 and 55 gallon commercial sizes.

**Model 3006- with EPDM seals**

**Model 3007- with Viton seals**

**Model 8010**

Polypropylene 6 foot (2 meter) dispensing hose to fit 3006/3007.



5807

**Lift Pump**

**Model 5807**

Grade 316 stainless steel lift pump with Teflon seals, includes 2" bung adapter. Full 33 inch stroke delivers .86 quart. 37 inch (940mm) down tube for 5, 16 and 55 gallon containers. Bung height adjustable from 14 to 35 ½".

*See next two pages for chemical compatibility chart*

HIGH FLOW PUSH-PULL PUMPS



Model 5010

**High Flow Push-Pull Pumps**

High volume double acting 'push-pull' hand operated semi-rotary pump with cast iron body and brass vanes suitable for a wide variety of liquids including water, diesel, water based solutions, all petroleum products, and non-corrosive solvents.

**Model 5010**

Inlet and outlet 1/2" F. Pump output is 4.2 gpm at 60 cycles per minute.

**Model 5012**

Inlet and outlet 1 1/2" F. Pump output is 10.5 gpm at 60 cycles per minute.

**Model 5019**

Inlet and outlet 2" F. Pump output is 34.5 gpm at 60 cycles per minute.

### Hand Operated Pumps

The following recommendations are based on information derived from a combination of practical experience, raw material suppliers, chemical manufacturers, and careful examination of available published information. However, since the resistance of MATERIALS can be affected by concentration, temperature, presence of other chemicals, thickness of section, and other factors, this information should be considered as a general guide rather than a definitive document. Ultimately the customer must determine the suitability of the pump for the application for which it is intended. Samson Corporation can not accept liability for any accident or damage occurring while using any of our range of pumps. All recommendations assume ambient temperature. Should any particular chemical not appear on the chart, then we would ask you to check with our technical department that will be pleased to assist with a suitable recommendation for your specific requirement.

● = Suitable

	3007	3006	8013	5807
Acetaldehyde		●		●
Acetamide				●
Acetate Solvent		●	●	●
Acetic Acid		●	●	●
Acetic Acid Glacial		●		●
Acetic Anhydride				●
Acetone				●
Acetylene Tetrabromide		●		●
Acid Benzoic Solution	●			●
Acid Copper Solution		●		
Acrolein		●		
Alcohols				
Amyl			●	●
Benzyl				●
Butyl	●		●	●
Diacetone				●
Ethyl			●	●
Hexyl			●	●
Isobutyl				●
Isopropyl	●			●
Methyl	●		●	●
Octyl		●		●
Propyl				●
Acrylonitrile				
Aldehyde Acetaldehyde	●	●		
Alkyl Arysulphonic Acid		●		
Alkylate Light	●	●		
Allyl Ketone		●		
Alum Solution				●
Aluminium Chloride	●		●	
Aluminium Flouride			●	
Aluminium Hydroxide			●	●
Aluminium Sulphate	●		●	
Amines				●
Ammonia			●	●
Anhydrous Ammonia		●	●	●
Ammonium Acetate			●	●
Ammonium Nitrate	●		●	●
Ammonium Bifluoride			●	●

	3007	3006	8013	5807
Ammonium Carbonate		●	●	●
Ammonium Chloride			●	●
Ammonium Bicarbonate			●	●
Ammonium Hydroxide		●	●	●
Ammonium Nitrate			●	●
Ammonium Persulphate			●	●
Ammonium Phosphate			●	●
Ammonium Sulphate	●		●	●
Aqueous Ammonia		●	●	●
Amyl Acetate				●
Amyl Alcohol			●	●
Amyl Chloride	●			
Anhydride				
Aniline liquid		●		●
Aniline Hydrochloride		●		
Anti-Freeze			●	●
Antimony Trichloride			●	
Aromatic Hydrocarbons	●			●
Arsenic Acid	●		●	●
Auto Transmission Fluid	●			●
Barium Carbonate			●	●
Barium Chloride	●		●	●
Barium Cyanide			●	●
Barium Hydroxide	●		●	●
Barium Nitrate	●		●	●
Barium Sulphate			●	●
Barium Sulphide	●		●	●
Benzaldehyde				●
Benzene				●
Benzoic Acid	●		●	●
Benzol				●
Benzyl Chloride	●			
Bleach Solutions		●		●
Borax (Sodium Borate)		●	●	●
Boric Acid	●		●	●
Bromine			●	
Butadiene	●		●	●
Butanol			●	●
Butylene		●	●	●
Butyric Acid			●	●
Calcium Bisulphate	●		●	●
Calcium Bisulphide	●		●	
Calcium Bisulphite	●		●	●
Calcium Carbonate	●		●	●
Calcium Chlorate			●	●
Calcium Chloride	●		●	●
Calcium Hydroxide	●		●	●
Calcium Hypochlorite				
Calcium Sulphate			●	●
Carbolic Acid (Phenol)	●		●	●
Carbon Bisulphide				●
Carbon Disulphide				●
Carbon Tetrachloride				
Carbonic Acid			●	
Caustic Soda (Sod. Hydrox)		●	●	
Cellulose		●		
Cellulose Thinners				●
Chloratic Acid				
Chloracetic Acid		●		
Chloroacetaldehyde		●		
Chloric Acid				
Chlorine Liquid				
Chlorine Water			●	

	3007	3006	8013	5807
Chlorobenzene				●
Chlorox (Bleach)			●	●
Chromic Acid	●		●	
Citric Acid	●		●	●
Copper Ammonium Acetate		●	●	
Copper Chloride	●		●	
Copper Cyanide	●		●	●
Copper Fluoride			●	
Copper Nitrate			●	●
Copper Plating Solution		●	●	
Copper Sulphate	●		●	●
Creosote	●	●		●
Cresylic Acid		●	●	●
Crotonaldehyde			●	
Cupric Chloride				
Cyanogen		●	●	
Cyclohexane				●
Cyanic Acid		●	●	
Cyclohexylamine		●	●	
Cyclic Acid				
Detergents	●		●	●
Developing Fluid	●		●	●
Diacetone Alcohol		●	●	●
Diamylamine		●		
Dibutyl Pthalate		●		●
Dichlorethane				
Diesel Fuel			●	●
Diethanolamine		●		
Diethyl Aniline		●		
Diethyl Benzene	●			
Diethyl Carbonate	●			
Diethyl Formaldehyde		●		
Diethyl Hydrazine		●		
Diethyl Maleate		●		
Diethyl Sulphate		●		
Diethyl Triamine		●		
Diethylene Glycol	●			●
Disobutylene				●
Disobutylene Ketone		●		
Dimethyl Aniline		●		
Dimethyl Terephthalate		●		
Diocyl Aniline		●		
Diocyl Amine		●		
Dioxane		●		
Dipentene	●			●
Diphenyl Chlorinate	●			
Divinyl Benzene	●			●
Ethyl Acetate				●
Ethyl Alcohol	●			●
Ethyl Bromide	●			●
Ethyl Chloride				●
Ethyl Mercaptan				●
Ethyl Pyridine				●
Ethyl Sulphate		●		●
Ethylene Bromide	●	●		●
Ethylene Chloride	●			●
Ethylene Diamine		●		●
Ethylene Dibromide	●			●
Ethylene Dichloride		●		●
Ethylene Glycol			●	●
Ethylene Oxide				●
Fatty Acids	●			●
Ferric Chloride	●		●	

#### CHEMICAL RESISTANCE CHART

	3007	3006	8013	5807		3007	3006	8013	5807		3007	3006	8013	5807
Ferric Nitrate	●		●	●	Methylated Spirits				●	Pthalic Anhydride		●		●
Ferric Sulphate			●		Methyl Acetate		●		●	Pyridine		●	●	
Ferrous Chloride			●		Methyl Acetone		●		●	Pyrogallol Acid			●	●
Ferrous Sulphate			●		Methyl Acetate		●		●	Rosins				●
Fluoric Acid	●		●		Methyl Alcohol		●	●	●	Sal Ammoniac				
Fluorine					Methyl Bromide	●	●			Silver Cyanide Solution	●		●	
Fluorosilicic Acid	●		●	●	Methyl Cellosolve		●			Silver Nitrate	●		●	
Formaldehyde			●		Methyl Chloride		●			Soap Solutions	●	●	●	●
Formic Acid		●			Methyl Dichloride		●			Sodium Acetate		●	●	●
Gallic Acid	●		●	●	Methyl Ethyl Ketone (MEK)		●		●	Sodium Aluminate			●	
Gasoline (SEE NOTE)				●	Methyl Formate		●		●	Sodium Bicarbonate	●		●	●
Glaubers Salts	●				Methyl Isobutyl Ketone				●	Sodium Bisulphate			●	
Glycerine			●	●	Methyl Isopropyl Ketone				●	Sodium Bisulphite			●	
Heptane	●		●	●	Methylene Chloride	●			●	Sodium Borate				
Hexachloro Acetone		●			Methylene Dichloride	●				Sodium Carbonate				
Hexamine		●		●	Monochloroacetic Acid		●			Sodium Chlorate			●	
Hexane		●		●	Monochloro Benzene	●			●	Sodium Chloride			●	
Hydraulic Oil - Petroleum	●		●	●	Monwitro Chloro Benzene	●			●	Sodium Chromate			●	●
Hydraulic Oil - Synthetic	●		●	●	Monoethanolamine		●			Sodium Cyanide			●	
Hydrobromic Acid		●	●		Muriatic Acid	●				Sodium Fluoride				
Hydrochloric Acid	●		●		Naptha			●	●	Sodium Hydrosulphite	●			
Hydrocyanic Acid		●	●		Napthalene			●		Sodium Hydroxide				
Hydrofluoric Acid					Naphthenic Acid					Sodium Hypochlorite (20%)		●	●	
Hydrofluorosilicic Acid		●			Nickel Chloride			●		Sodium Hypochlorite		●	●	●
Hydrogen Bromide					Nickel Sulphate	●		●		Sodium Nitrate			●	●
Hydrogen Fluoride	●				Nitrating Salts			●		Sodium Perborate			●	
Hydrogen Peroxide	●		●		Nitric Acid (up to 20% conc.)	●	●	●	●	Sodium Peroxide			●	●
Hydrogen Sulphide			●	●	Nitric Acid (up to 50% conc.)			●	●	Sodium Sulphide			●	
Hydroxy Acetic Acid		●	●		Nitric Acid (concentrated)			●	●	Sodium Sulphite			●	
Ink				●	Nitrobenzene	●				Sodium Thiosulphate			●	●
Iodine		●			Oleic Acid	●		●	●	Solvents (General **)				●
Iodoform		●		●	Oleum				●	Stannic Chloride	●		●	
Iron Pyritic Acid		●			Oxalic Acid		●	●		Stannous Chloride	●		●	
Iron Sulphate Solution	●				Paint Thinners				●	Stearic Acid			●	●
Iso-Butylene		●			Palmitic Acid	●				Stoddard Solvent			●	●
Iso-Butyl Methyl Ketone		●			Paraffin	●		●	●	Sulphur Chloride			●	
Iso-Butyraldehyde		●			Pentachloroethylene				●	Sulphur Dioxide		●		●
Iso Cyanate		●			Pentane	●				Sulphuric Acid (up to 10%)	●	●	●	
Iso Propyl Acetate		●			Perchloroethylene	●			●	Sulphuric Acid (10% to 75%)	●	●	●	
Iso Propyl Alcohol		●		●	Phenol (Carbolic Acid)	●		●	●	Sulphuric Acid (above 75%)			●	
Jet Fuel ( but SEE NOTE)			●	●	Phosphoric Acid		●	●		Sulphurous Acid			●	
Kerosene	●		●	●	Photographic Developer	●		●	●	Tannic Acid	●		●	●
Ketones		●		●	Picric Acid			●	●	Tartaric Acid			●	●
Laquer Thinners				●	Potassium Bicarbonate	●		●	●	Tetrachlorethane	●		●	
Lactic Acid	●				Potassium Bromide			●	●	Tetrahydrofuran			●	
Lead Acetate Solution	●		●	●	Potassium Bromine			●	●	Toluene, Toluol	●		●	
Lead Nitrate Solution			●		Potassium Carbonate			●	●	Tributyl Phosphate			●	
Linseed Oil	●		●	●	Potassium Chlorate			●	●	Trichloro Benzene	●		●	
Lithium Chloride					Potassium Chloride			●	●	Trichlorethane			●	
Lubricants	●		●	●	Potassium Chromate			●		Trichlorethylene			●	
Magnesium Acetate		●	●	●	Potassium Cyanide	●		●		Tricresyl Phosphate			●	
Magnesium Carbonate			●	●	Potassium Dichromate			●	●	Triethanolamine		●		
Magnesium Chloride	●		●		Potassium Ferrocyanide			●		Triethylamine		●	●	
Magnesium Hydroxide			●	●	Potassium Hydroxide			●		Turpentine (White Spirit)			●	●
Magnesium Nitrate			●	●	Potassium Nitrate			●		Vinegar			●	●
Magnesium Oxide			●	●	Potassium Permanganate			●		Weed Killer **			●	●
Magnesium Sulphate			●	●	Potassium Sulphate	●		●		White Spirit (Turpentine)			●	●
Maleic Acid		●	●	●	Potassium Sulphide			●		Xylene			●	
Malic Acid			●	●	Propanol				●	Zinc Chloride	●			
Mercaptans		●			Propionic Acid	●				Zinc Hydrosulphite			●	
Mercuric Chloride		●	●		Propylene Dichloride	●				Zinc Sulphate			●	
Mercuric Cyanide			●	●	Propylene Glycol			●		Zinc Oxide			●	
Methanol (Methyl Alcohol)				●	Picoline Alpha		●			DEF	●	●	●	●

Please Note: Items marked \*\* are GENERAL HEADINGS for guidance only and cannot be considered comprehensive. Differing formulations can sometimes have more effect than would otherwise be expected.



**Model 4014**

Heavy duty 14.4 Volt motor. Develops up to 8,000 psi. Complete with heavy duty carrying case, 2 battery packs, charger, 30" flex hose with spring guard and 4-jaw coupler, and instructions.

**Model 4024**

Replacement 14.4 V Ni-Cad battery

**Model 4025**

14.4 V Battery charger

**Model 4020**

Shoulder strap



4024



4025

4038



**Model 4038**

Heavy duty 18 volt motor. Maximum 10,000 psi. Complete with heavy duty carrying case, 2 battery packs, charger, 30" flex hose with spring guard and 4-jaw coupler, and instructions.

**Model 4036**

Replacement 18 V Ni-Cad battery

**Model 4034**

18 V Battery charger for 4038

**Model 4037**

Shoulder strap





## WORK BENCHES

285 100



**HEAVY DUTY WORK BENCH**

Very robust all steel construction and epoxy coated finish. Includes one module with lockable shutter with one drawer, divided in 16 compartments, and one additional module with one shelf with large load capacity.

**285 100\* Heavy duty work bench with shutter**  
 Dimensions: 70" x 30" x 33.5"  
 Gross weight: 380 lbs.

280 530



**STEEL TOP WORK BENCHES WITH TWO DRAWERS**

Steel top workbenches with two lockable drawers.

**280 530\* Steel top work bench with two drawers**  
 Dimensions: 70" x 30" x 33.5"  
 Gross weight: 220 lbs.

**280 430\* Steel top work bench with two drawers**  
 Dimensions: 60" x 30" x 33.5"  
 Gross weight: 200 lbs.

280 520



**STEEL TOP WORK BENCHES WITH ONE DRAWER**

Steel top workbenches with one lockable drawer.

**280 520\* Steel top work bench with one drawer**  
 Dimensions: 70" x 30" x 33.5"  
 Gross weight: 200 lbs.

**280 420\* Steel top work bench with one drawer**  
 Dimensions: 60" x 30" x 33.5"  
 Gross weight: 180 lbs.

**280 320\* Steel top work bench with one drawer**  
 Dimensions: 50" x 30" x 33.5"  
 Weight: 160 lbs.

\* Products delivered as kits.

## WORK BENCHES

280 510



**WOODEN TOP WORK BENCH**

**280 510\* Wooden top work bench**

Beech wood worktop with steel shelf and lateral supports. One or two optional drawers (part number 284 100) can be fixed to the wooden top.  
Dimensions: 70" x 30" x 33.5"  
Gross weight: 170 lbs.

280 500



**STEEL TOP WORK BENCHES**

Very robust all steel worktop with four "Z" shaped crossbeams, maximum load up to 2000 kg. Rectangular holes on the beams allow to fix drawers in different positions. Rectangular holes on worktop sides to fix tool board or cabinet brackets or to adjoin other benches.

Lateral supports can be fixed to the floor for maximum stability.

**280 500\* Steel top work bench**

Dimensions: 70" x 30" x 33.5". Gross weight: 170 lbs.

**280 400\* Steel top work bench**

Dimensions: 60" x 30" x 33.5". Gross weight: 150 lbs.

**280 300\* Steel top work bench**

Dimensions: 50" x 30" x 33.5". Gross weight: 135 lbs.

**280 200\* Steel top work bench**

Dimensions: 40" x 30" x 33.5". Gross weight: 120 lbs.

**280 100\* Steel top work bench**

Dimensions: 30" x 30" x 33.5". Gross weight: 100 lbs.

## ADDITIONAL SHELVES FOR WORK



To increase storage capacity under steel or wooden top workbenches. They include two transversal beams to fix the shelf to the side supports. Screws included.

**289 309 Additional shelf for workbenches**

Dimensions: 70" x 20". Gross weight: 45 lbs.

**289 307 Additional shelf for workbenches**

Dimensions: 60" x 20". Gross weight: 40 lbs.

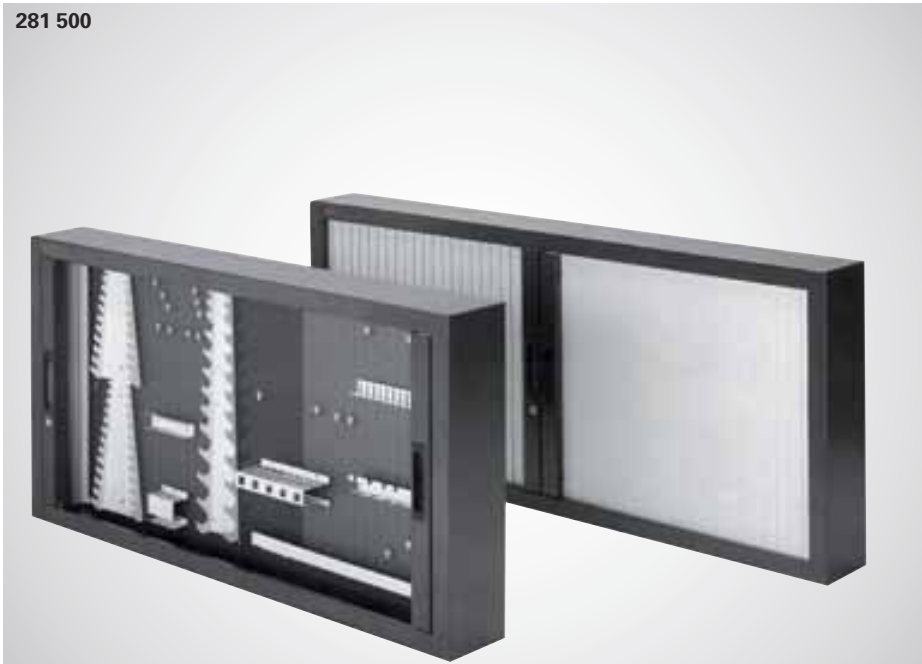
**289 305 Additional shelf for workbenches**

Dimensions: 50" x 20". Gross weight: 35 lbs.

\*Assembly required



281 500



**TOOL CABINET**

Tool cabinets with lockable shutter. Perforated tool panel for maximum capacity with tool hanging accessories included. Cabinets can be fixed to the wall, to a steel top work bench or to a heavy duty work bench using optional brackets.

**281 500 Tool cabinet**

Dimensions: 70" x 30" x 8".

Gross weight: 110 lbs. Includes a set of 9 tool brackets and a 45 hook set 289 101.

**281 400 Tool cabinet**

Dimensions: 60" x 30" x 8".

Gross weight: 100 lbs. Includes a set of 9 tool brackets and a 45 hook set 289 101.

**281 300 Tool cabinet**

Dimensions: 50" x 30" x 8".

Gross weight: 85 lbs. Includes a set of 7 tool brackets and a 30 hook set 289 100.

**281 200 Tool cabinet**

Dimensions: 40" x 30" x 8".

Gross weight: 70 lbs. Includes a set of 7 tool brackets and a 30 hook set 289 100.

**289 105 Set of brackets for fixing a cabinet to a workbench**

282 500



**TOOL BOARD**

Steel perforated panel for tool organisation. Can be fixed to the wall, to a steel top work bench or to a heavy duty work bench using optional brackets. Delivered in boxes containing two units.

**282 500 Tool board**

Dimensions: 70" x 30" x .75".

Gross weight: 40 lbs. Includes a set of 9 tool brackets and 45 hooks set 289 101.

**282 400 Tool board**

Dimensions: 60" x 30" x .75".

Gross weight: 35 lbs. Includes a set of 9 tool brackets and 45 hooks set 289 101.

**282 300 Tool board**

Dimensions: 50" x 30" x .75".

Gross weight: 30 lbs. Includes a set of 7 tool brackets and 30 hooks set 289 100.

**282 200 Tool board**

Dimensions: 40" x 30" x .75".

Gross weight: 25 lbs. Includes a set of 7 tool brackets and 30 hooks set 289 100.

**282 100 Tool board**

Dimensions: 30" x 30" x .75".

Gross weight: 13 lbs. Includes 1 multi-tool bracket and 30 hooks.

**289 205 Set of brackets for fixing a board to a workbench**

**289 206 Set of brackets for fixing board 282 100 to a service trolley**

\*Assembly required

## SERVICE TROLLEYS

283 900

283 100

283 202

283 201



### TROLLEY WITH SHELVES

**283 900\* Cart with shelves**  
Trolley with three shelves, four castors (1.5") and 175 lbs. maximum load capacity. Dimensions: 25" x 15" x 30". Gross weight: 25 lbs.

### STANDARD SERVICE TROLLEY

**283 100\* Standard service cart**  
Service cart with three shelves, two fixed wheels and two castors (3"). Middle shelf can be mounted in two different positions. Maximum load capacity: 440 lbs. Dimensions: 33" x 18 x 35". Gross weight: 45 lbs.

### HD SERVICE TROLLEY

Very robust service cart with three shelves, two large wheels (6") and two castors (4"), one of them with brake for better stability and safety. Middle shelf can be mounted in two different positions, maximum load capacity: 440 lbs.

**283 202\* Heavy duty service cart with drawer**  
Includes drawer 284 201. Dimensions: 35" x 24" x 37". Gross weight: 65 lbs.

**283 200\* Heavy duty service cart**  
Dimensions: 35" x 24" x 37". Gross weight: 45 lbs.

### SERVICE TROLLEY

**283 201\* Service cart**  
Service cart with three shelves, drawer and tool board, with one tool bracket with 30 hooks, for hanging tools. Very robust construction with two large wheels (6") and two castors (4") one of them with brake for better stability and safety. Maximum load capacity: 440 lbs. Gross weight: 75 lbs.

\*Assembly required

## ACCESSORIES

284 100

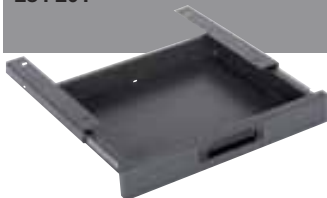


### DRAWER FOR WORK BENCH

**284 100 Drawer for service workbench**

Drawer with lock and tray to be fitted directly under the steel or wood worktop of workbenches. Load capacity: 220 lbs. Dimensions: 26" x 6' x 20". Gross weight: 25 lbs.

284 201



### DRAWER FOR SERVICE CART

**284 201 Drawer for service trolleys**

Drawer with telescopic guides to be fitted directly to the top shelf of service trolleys. Load capacity: 53 lbs. Dimensions: 18.5" x 16.25" x 2.25". Gross weight: 15 lbs.

282 501



### PERFORATED PANELS FOR TOOL ORGANISATION

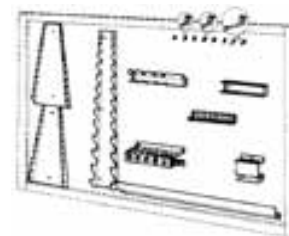
Perforated panel for fitting hooks and other tool hanging accessories. Strong steel frame with two wall brackets. Boards are delivered in packages containing two units.

- 282 501 Perforated panel 70"**  
Dimensions 70" x 30" x .75". Gross weight: 22 lbs.
- 282 401 Perforated panel 60"**  
Dimensions 60" x 30" x .75". Gross weight: 20 lbs.
- 282 301 Perforated panel 50"**  
Dimensions 50" x 30" x .75". Gross weight: 16.5 lbs.
- 282 201 Perforated panel 40"**  
Dimensions 40" x 30" x .75". Gross weight: 14 lbs.
- 282 101 Perforated panel 30"**  
Dimensions 30" x 30" x .75". Gross weight: 11 lbs.

## STANDARD ACCESSORY SETS FOR TOOL BOARDS AND CABINETS

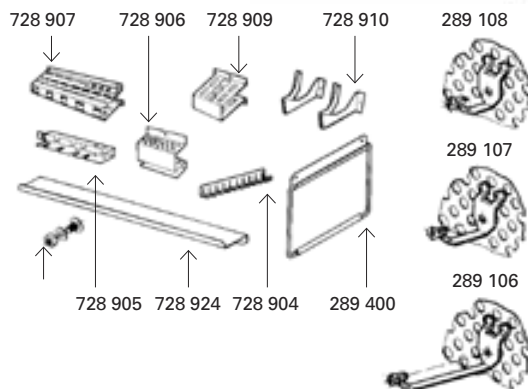
Set of accessories for an optimum organization of tools on boards and in cabinets. Each set includes the hooks and tool brackets mentioned in the following table:

PART N°	289 108	289 107	289 106	728 901	728 900	728 903	728 902	728 907	728 905	728 904	728 906
289 101	1	1	1	2	1	1	1	1	1	1	1
289 100	1	1	-	1	1	1	1	1	1	1	1
289 109	-	1	1	-	-	-	-	1	-	-	-



### TOOL SUPPORTS, BRACKETS AND RAIL KITS

PART N°	DESCRIPTION	DIMENSIONS
728 900	Bracket for 13 box spanners	4 x 25 x 2 inches
728 901	Bracket for 13 spanners	6.25 x 14.25 x 1.75 inches
728 902	Bracket for 20 drive sockets	26.25 x 1.75 x 2 inches
728 903	Bracket for 12 allen keys	6.5 x 1.25 x 1 inches
728 904	Bracket for 11 sets of pliers-screwdrivers - files	8 x 1.25 x 1 inches
728 905	Bracket for 6 screwdrivers	9.25 x 1.5 x 1.25 inches
728 906	Bracket for 18 bits - punches - chisels	4 x 3.25 x 1.75 inches
728 907	Universal "multi-tool" bracket	9.25 x 2.75 x 3.5 inches
728 909	Small "multi-tool" bracket	3 x 2.75 x 3.5 inches
728 910	Set of drill brackets	2.5 x 1.75 x 4 inches
728 924	Tray for panel - cabinet	32 x 1.5 x 4 inches
289 400	Paper roll supports	
728 911	Nut and bolt set for bench assembly	
289 312	60" rail kit. Fits 60" bench	
289 314	70" rail kit. Fits 70" bench	



### HOOKS FOR PERFORATED PANELS

- 289 108 short hooks set (15 units)**  
Length: .75". Screws included.
- 289 107 long hooks set (15 units)**  
Length: 1.25". Screws included.
- 289 106 extra long hooks set (15 units)**  
Length: 3". Screws included.
- 289 110 short hooks set (5 units)**  
Length: .75". Screws included.
- 289 111 long hooks set (5 units)**  
Length: 1.25". Screws included.
- 289 112 extra long hooks set (5 units)**  
Length: 3". Screws included.

\*Assembly required

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Co-Founder

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