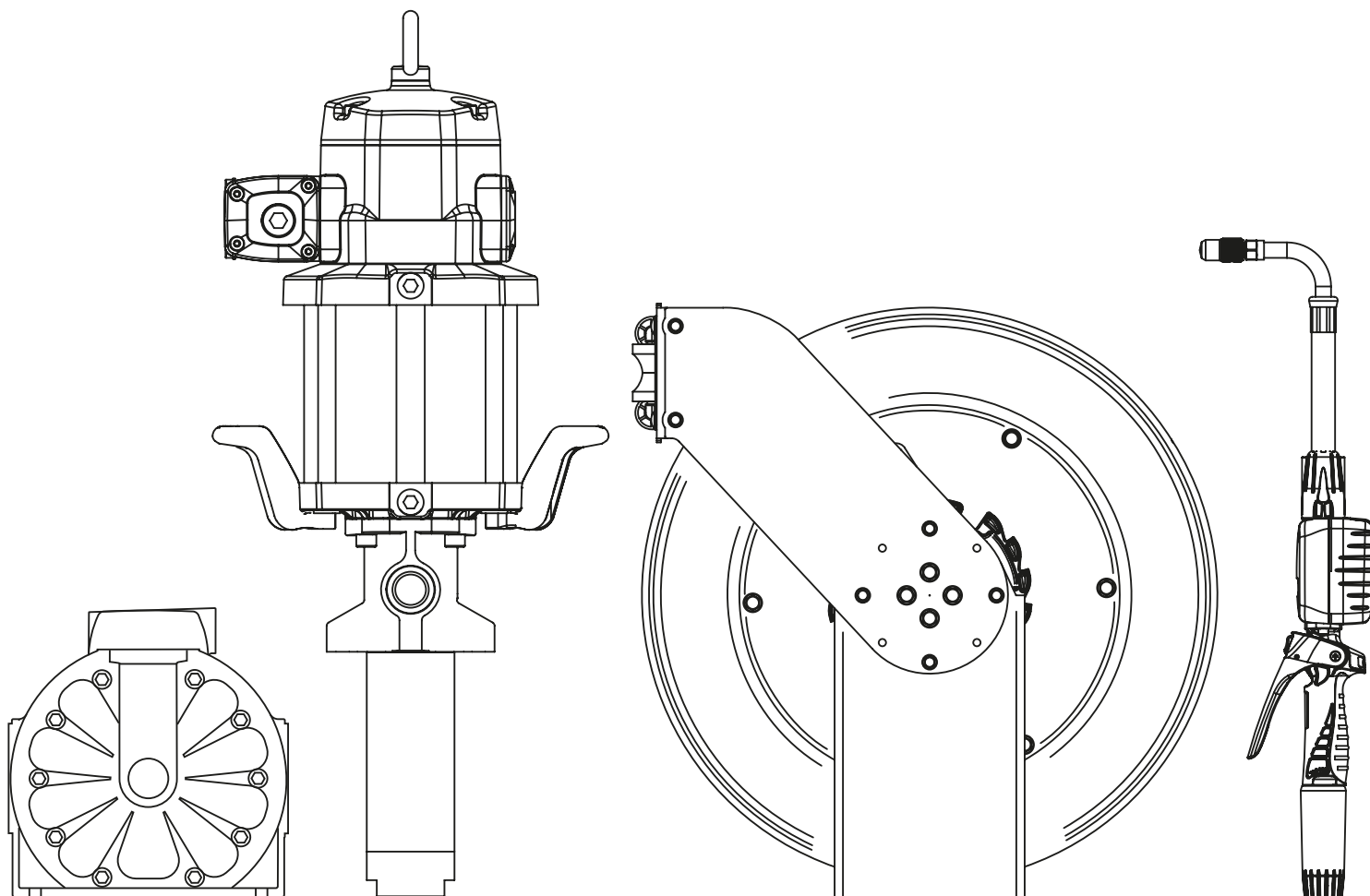




# PRODUCT CATALOG

LUBRICATION EQUIPMENT

AUTOMOTIVE • PETROLEUM • INDUSTRIAL





*SAMOA Group Headquarters*

## **SAMSON Corporation**

SAMSON, a North Carolina corporation, is one of the SAMOA Industrial Group of companies. SAMSON produces and markets conventional and custom engineered lubrication equipment and systems and, since 1993, has become a dominant force in the North American markets.

SAMSON is one of 28 companies throughout Europe and America in the SAMOA Group, which since 1958, has emerged as the largest manufacture in the world of quality lubrication equipment. The Groups worldwide presence is complimented with an extensive distribution network covering more than 100 Countries.

SAMSON products require less energy to operate as they are designed for a rugged working environment. SAMSON continues to design and introduce innovative new products into the marketplace.

Take a look and you will discover why many professionals believe that "SAMSON, the best constructed, highest quality, lubrication equipment on the market, combined with 'old fashioned service' is the best value to come along in decades."

### **SAMSON is committed to offering the best in Customer Service.**

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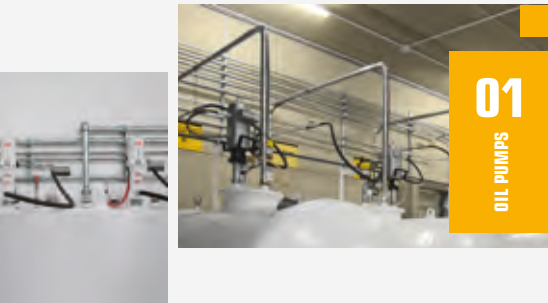
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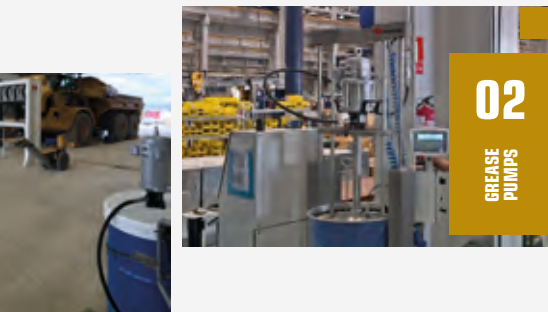
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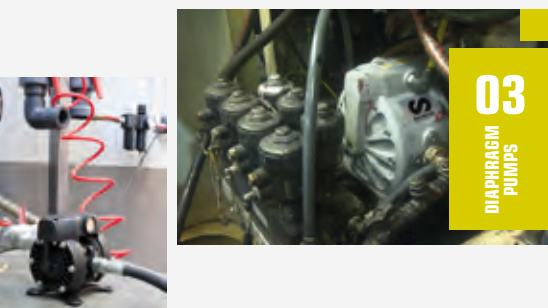
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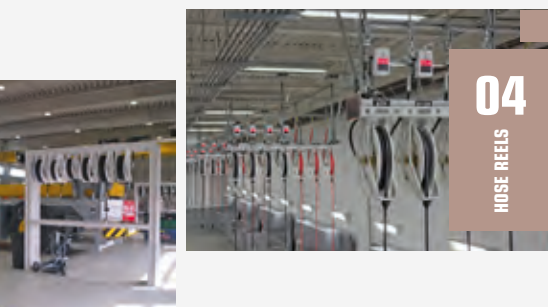
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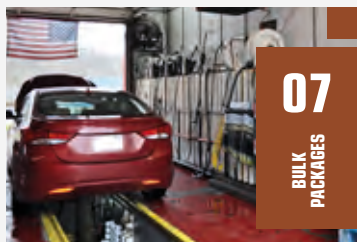


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AIR OPERATED OIL PUMPS

It all starts with the pump; the heart of the system. The choice of a pump requires considering a wide variety of factors so that your system will provide years of dependable service. SAMSON has engineered a broad offering of oil pumps to handle a wide variety of applications. This range of pumps will fit original containers of different sizes and bulk storage tanks; covering applications that range from the transfer of oil to very large centralized systems.

PRESSURE AND VOLUME

An important, and often confusing, aspect of selecting a pump is how to determine which pump ratio and what pump size to select. The pump ratio is calculated by dividing the surface area of the air motor piston by the surface area of the fluid piston. The maximum pressure at the pump outlet is determined by multiplying the air inlet pressure by the pump pressure ratio. Restrictions such as the pipe length and diameter, hoses, hose reels, solenoid valves, pulse meters, control handles, and other system components create friction in the system. Sufficient fluid pressure is needed to overcome this friction, in order to get the required volume of oil to each dispense point.

Pump size determines the amount of fluid flowing through the piston pump outlet during each cycle of the pump. Three different sizes of pumps, with the same ratio, will each deliver a different flow rate. It is important to consider a variety of factors (number of dispense points, desired delivery, product dispensed...) in choosing the proper pump size for your system.

PUMP MASTER®

Maximum line length and number of simultaneous dispense points also depends on the line diameter, fluid viscosity and required delivery.

PUMPMASTER  
200 SERIES



PUMPMASTER  
400 SERIES



	PUMPMASTER 2 - 1:1	PUMPMASTER 2 - 3:1	PUMPMASTER 4 - 3:1	PUMPMASTER 4 - 5:1	PUMPMASTER 4 - 8:1
PUMP DESCRIPTION	Utility Transfer	Utility Medium Pressure	Standard-Duty Medium Pressure	Standard-Duty Medium Pressure	Standard-Duty High Pressure
SIMULTANEOUS OPERATION OUTLETS	1 (no reels)	1	1 to 2	1 to 3	1
MAX. LINE LENGTH	100' - 30 m	200' - 60 m	200' - 60 m	500' - 150 m	600' - 180 m
APPLICATION	Service shops In-plant Agriculture Marine	Auto dealers Service shops Fast lube centers Agriculture Marine	Auto dealers Service shops Fleet service Fast lube centers Lube trucks Mining and construction In-plant	Auto and truck dealers Fleet service Mining and construction Lube trucks Railroad and mass transit Marine In-plant	Vehicle maintenance Fleet service Marine Mining and construction Lube trucks





**PM45 HEAVY-DUTY  
SERIES**



**PM60 HEAVY-DUTY  
SERIES**



PUMPMASTER 45 - 3:1	PUMPMASTER 45 - 6:1	PUMPMASTER 45 - 10:1	PUMPMASTER 60 - 6:1	PUMPMASTER 60 - 12:1
Heavy-Duty Volume Transfer	Heavy-Duty High Flow	Heavy-Duty Pressure Flow	Heavy-Duty High Delivery	Heavy-Duty High Performance
3 to 4	3 to 4	3 to 4	3 to 4	3 to 4
250' - 75 m	525' - 160 m	800' - 250 m	525' - 160 m	800' - 250 m
Construction equipment Mining equipment Large fleets Railroad and mass transit Marine In-plant oil distribution	Large auto and truck dealers Construction equipment Mining equipment Railroad and mass transit Large fleets Lube trucks Marine In-plant oil distribution	Large auto and truck dealers Construction equipment Mining equipment Railroad and mass transit Large fleets Lube trucks Marine In-plant oil distribution	Very large auto and truck dealers Construction equipment Mining equipment Large fleets Railroad and mass transit Marine In-plant oil distribution	Very large auto and truck dealers Construction equipment Mining equipment Large fleets Railroad and mass transit Marine In-plant oil distribution

**200 SERIES**

**TRANSFER PUMPS**

Double acting air operated low pressure pumps for transferring lubricants. Pumps include height adjustable 2" NPTM bung adaptor for tank or drum bung mounting. Built in port for optional 609 007 pressure relief valve.



**FLUIDS HANDLED**

- Synthetic and mineral based oil.
- Transmission fluid.
- Hydraulic oil.

**MARKETS SERVED**

- Service shops.
- In plant oil transfer.
- Agriculture.
- Marine.
- Mining and construction.

**MODELS**

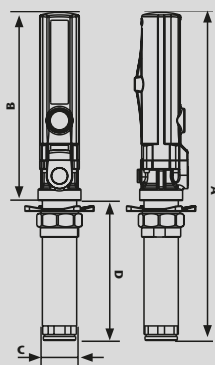
PART No.	APPLICATION	WEIGHT
<b>351 120</b>	Universal stub pump with bung adaptor	5.5 lb (2,5 kg)
<b>356 120</b>	16 gal (60 l) drum bung mounted with bung adaptor	10.6 lb (4,8 kg)
<b>352 120</b>	55 gal (205 l) drum bung mounted with bung adaptor	12 lb (5,4 kg)

**TECHNICAL DATA PRESSURE RATIO 1:1**

Air pressure operating range	20 to 140 psi (1,5 - 10 bar)
Air consumption (1)	5.30 scfm (150 NL/min)
Maximum fluid outlet pressure	140 psi (10 bar)
Air motor diameter	2" (51 mm)
Air motor effective diameter	1 1/2" (35 mm)
Air motor stroke	3" (75 mm)
Delivery at 150 cpm	5.3 US gpm (20 l/min)
Maximum free flow delivery (2)	13.7 US gpm (52 l/min)
Air inlet	1/4" NPTF
Fluid inlet (stub pump only)	1" NPTF
Fluid outlet	3/4" NPTF
Wetted and seal materials	Aluminium / Steel / NBR / Acetal / Polyurethane
Noise level (3)	80 dB
Manual	835 808

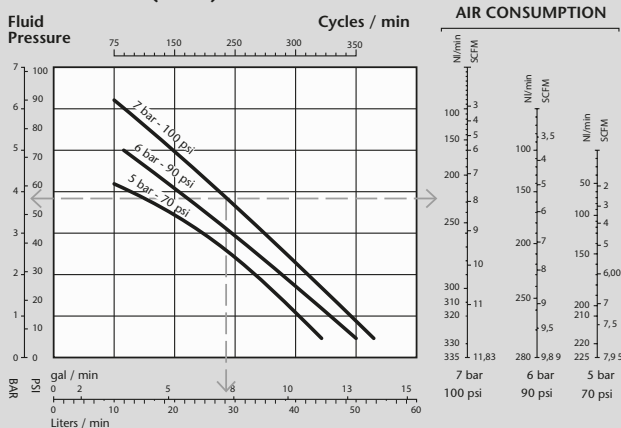
**DIMENSIONS Inches - (mm)**

PART No.	351 120	356 120	352 120
A	19 1/2" (500)	40" (1.010)	47" (1.200)
B	11 1/4" (285)	11 1/4" (285)	11 1/4" (285)
C	2" (52)	2" (52)	2" (52)
D	8 1/2" (215)	28 1/2" (725)	36" (915)



- (1) Air consumption with 90 psi (6 bar) air inlet pressure and 150 cycles per minute.  
 (2) Maximum free delivery at 100 psi (7 bar).  
 (3) Maximum noise level measured at 3' (1 m) from the pump, 100 psi (7 bar) air pressure and free delivery.

**SAE 30 - 68 °F (20 °C) CAPACITY CURVE**



## PUMPMASTER 2 - 1:1 PUMP PACKAGES

### Part No. 230 stub (not shown)

Includes pump Part No. 351 120 plus connecting hose hook-up kit Part No. 904.

### Part No. 226 keg

Includes pump Part No. 356 120 plus connecting hose hook-up kit Part No. 904.

### Part No. 228 drum

Includes pump Part No. 352 120 plus connecting hose hook-up kit Part No. 904.



## PUMPMASTER 2, 1:1 TRANSFER PUMP DRUM PACKAGES

### Part No. 454 002

PUMPMASTER 2 1:1 ratio high flow transfer package for 55 gal drums.

#### Includes the following:

- Part No. 352 120: PUMPMASTER 2 - 1:1 ratio pump with bung bushing.
- Part No. 858: 10' x 3/4" delivery hose.
- Part No. 361 000: Low pressure, high delivery nozzle.
- Part No. 950 321: Air needle valve.
- Part No. 955: Mini air filter regulator combo.
- Part No. 2051 (x2): Pump to air valve and air valve to air filter regulator combo adaptor.

### Part No. 454 003 (not shown)

PUMPMASTER 2 1:1 ratio transfer package for 55 gal drums.

#### Includes the following:

- Part No. 352 120: PUMPMASTER 2 - 1:1 ratio pump with bung bushing.
- Part No. 847: 10' x 1/2" delivery hose.
- Part No. 363 114: Oil delivery handle with non drip tip.
- Part No. 950 321: Air needle valve.
- Part No. 955: Mini air filter regulator combo.
- Part No. 2051 (x2): Pump to air valve and air valve to air filter regulator combo adaptor.
- Part No. 2065: Pump to hose adaptor.

### Part No. 454 010

PUMPMASTER 2 1:1 ratio metered transfer package for 55 gal drums.

#### Includes the following:

- Part No. 352 120: PUMPMASTER 2 - 1:1 ratio pump with bung bushing.
- Part No. 847: 10' x 1/2" delivery hose.
- Part No. 365 534: Oil metered handle with non drip tip.
- Part No. 950 321: Air needle valve.
- Part No. 955: Mini air filter regulator combo.
- Part No. 2051 (x2): Pump to air valve and air valve to air filter regulator combo adaptor.
- Part No. 2065: Pump to hose adaptor.



## SPIGOT PUMP WITH DRIP TRAY

### Part No. 454 100

Spigot pump complete unit (fits 55 gal drum) includes PUMPMASTER 2 - 2:1 ratio pump, bung bushing adaptor, drain shelf with filter screen and curved outlet valve with spring loaded spigot valve. Shelf holds container, catches spills, drains back through filtered bushing into drum. Completely packaged as one SKU.





# PUMPMaster 2 - 3:1 RATIO OIL PUMPS

## 200 SERIES

### MEDIUM PRESSURE UTILITY PUMPS

Double acting air operated medium pressure pumps for dispensing lubricants from mobile units, oil distribution packages and small systems. Pumps include height 2" NPTM adjustable bung adaptor for tank or drum bung mounting. Built in pressure relief port for optional (PN 609 007) pressure relief valve.



#### FLUIDS HANDLED

- Synthetic and mineral based oil.
- Hydraulic oil.
- Gear lube.
- Transmission fluid.

#### MARKETS SERVED

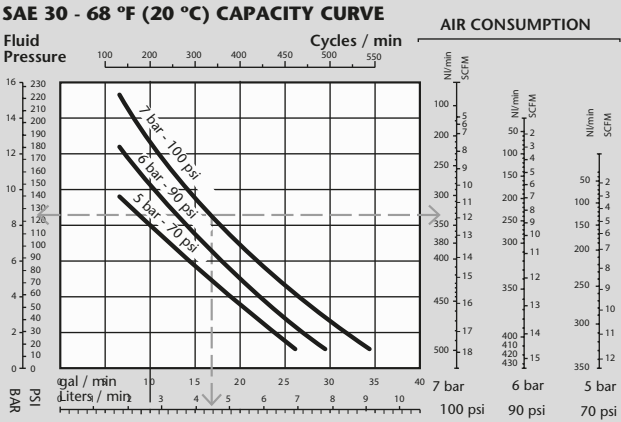
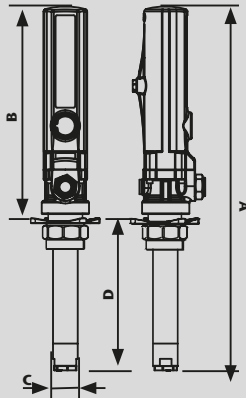
- Auto dealers.
- Service shops.
- Fast lube centers.
- Agriculture.
- Marine.
- Mining and construction.

MODELS		
PART No.	APPLICATION	WEIGHT
<b>353 120</b>	Universal stub pump with bung adaptor	4.4 lb (2 kg)
<b>358 120</b>	16 gal (60 l) drum bung mounted with bung adaptor	6.6 lb (3 kg)
<b>354 120</b>	55 gal (205 l) drum bung mounted with bung adaptor	7.7 lb (3,5 kg)
<b>213</b>	275/500 tank (48") with bung adaptor	8.8 lb (5 kg)
<b>260</b>	60" tank with bung adaptor	9.9 lb (4,5 kg)

TECHNICAL DATA PRESSURE RATIO 3:1	
Air pressure operating range	20 to 140 psi (1,5 - 10 bar)
Air consumption (1)	6.4 scfm (180 NL/min)
Maximum fluid outlet pressure	420 psi (30 bar)
Air motor diameter	2" (51 mm)
Air motor effective diameter	1 1/2" (35 mm)
Air motor stroke	3" (75 mm)
Delivery at 200 cpm	2.7 US gpm (10 l/min)
Maximum free flow delivery (2)	9.3 US gpm (35 l/min)
Air inlet	1/4" NPTF
Fluid inlet (stub pump only)	3/4" NPTF
Fluid outlet	1/2" NPTF
Wetted and seal materials	Aluminium / Steel / NBR / PTFE
Noise level (3)	80 dB
Manual	835 809

- (1) Air consumption with 90 psi (6 bar) air inlet pressure and 200 cycles per minute.  
 (2) Maximum free delivery at 100 psi (7 bar).  
 (3) Maximum noise level measured at 3' (1 m) from the pump, 100 psi (7 bar) air pressure and free delivery.

DIMENSIONS Inches - (mm)			
PART No.	353 120	358 120	354 120
A	19 1/2" (495)	39 1/4" (995)	47 1/4" (1.200)
B	11 1/2" (295)	11 1/2" (295)	11 1/2" (295)
C	1 1/4" (34)	1 1/4" (34)	1 1/4" (34)
D	8" (200)	27 1/2" (700)	35 1/2" (905)
PART No.	213	260	
A	59 1/2" (1.510)	71 1/2" (1.815)	
B	11 1/2" (295)	11 1/2" (295)	
C	1 1/4" (34)	1 1/4" (34)	
D	48" (1.215)	60" (1.520)	



## PUMPMASTER 2 - 3:1 PRESSURE RATIO PUMP, ORIGINAL CONTAINER SYSTEMS FOR GEAR LUBE, MOTOR OIL, ATF AND OTHER FLUIDS

Pump Packages air operated 3:1 pressure ratio pump. The pump is designed to fit through the 2" bung open on oil drums or to be mounted on a lid for open drums. The pump includes a height adjustable bung adaptor.

### Part No. 202

PUMPMASTER 2 system for 16 gal bung type drum.

#### Includes the following:

Part No. 358 120: PUMPMASTER 2 - 3:1 ratio pump with 2" bung bushing.

Part No. 904: Connecting hose hook up kit.

### Part No. 204 (not shown)

PUMPMASTER 2 system for 16 gal open top drum.

#### Includes the following:

Part No. 358 120: PUMPMASTER 2 - 3:1 ratio pump with cover mounting adaptor.

Part No. 1936: Deluxe drum cover for 16 gal drum.

Part No. 904: Connecting hose hook up kit.

### Part No. 222

PUMPMASTER 2 system for 55 gal open top drum.

#### Includes the following:

Part No. 354 120: PUMPMASTER 2 - 3:1 ratio pump with 2" bung bushing.

Part No. 904: Connecting hose hook up kit.



## PUMPMASTER 2 - 3:1 PUMP SYSTEMS, DESIGNED FOR BULK OIL SYSTEM

### Part No. 210

PUMPMASTER 2 - 3:1 ratio stub pump system.

#### Includes the following:

Part No. 353 120: Universal PUMPMASTER 2 - 3:1 stub pump with bung bushing.

Part No. 904: Connecting hose hook up kit.

### Part No. 222

PUMPMASTER 2 - 3:1 ratio pump system for standard 36", 250 gal work bench type tank or 55 gal drum.

#### Includes the following:

Part No. 354 120: PUMPMASTER 2 - 3:1 pump with bung bushing.

Part No. 904: Connecting hose hook up kit.

### Part No. 212

PUMPMASTER 2 - 3:1 ratio pump system for 44" to 48", 275 gal oval or 500 gal round tank.

#### Includes the following:

Part No. 213: PUMPMASTER 2 - 3:1 pump with bung bushing.

Part No. 904: Connecting hose hook up kit.

### Part No. 266

PUMPMASTER 2 - 3:1 ratio pump system for 60" tanks with connection kit.

#### Includes the following:

Part No. 260: PUMPMASTER 2 - 3:1 ratio pump with bung brushing.

Part No. 904: Connecting hose hook up kit.



### Recommended options:

Part No. 955 Air filter and regulator combo, 1/4" NPTF.

Part No. 609 007 Pressure relief valve.



## PUMPMASTER 2 - 3:1 RATIO PUMP PORTABLE PACKAGES

### PUMPMASTER 2 - 3:1 RATIO PUMP PORTABLE PACKAGES FOR 16 GAL DRUMS

All packages include PUMPMASTER 2 - 3:1 ratio pump part no. 358 120 with the accessories listed.

203



207A



PART No.	203	203A	207	207A
<b>PUMPMASTER 2 - 3:1 PUMP</b>	358 120	358 120	358 120	358 120
<b>DRUM COVER</b>	1936	1936	-	-
<b>10' DELIVERY HOSE</b>	847	847	847	847
<b>METERED HANDLE</b>	365 537	365 537	365 537	365 537
<b>1/4" QUICK AIR COUPLER</b>	930F04	930F04	930F04	930F04
<b>1/4" QUICK AIR NIPPLE</b>	930M04	930M04	930M04	930M04
<b>1/4" MINI FILTER REGULATOR COMBO</b>	955	955	955	955
<b>BAND TYPE DOLLY</b>	1304	-	1304	-
<b>TWO WHEEL DRUM TRUCK</b>	-	1301	-	-
<b>FOUR WHEEL DRUM TRUCK</b>	-	-	-	1303
<b>PUMP TO HOSE CONNECTOR, 3/4" NPT (M) x 1/2" NPT (F)</b>	2065	2065	2065	2065
<b>PUMP TO FR CONNECTOR 1/4"NPT (M) BOTH ENDS</b>	2051	2051	2051	2051

### PUMPMASTER 2 - 3:1 RATIO PUMP PORTABLE PACKAGES FOR 55 GAL DRUMS

All packages include PUMPMASTER 2 - 3:1 ratio pump part no. 354 120 with the accessories listed.

209B



209



PART No.	209	209A	209B	209C	211 001	454 111	454 112
<b>PUMPMASTER 2 - 3:1 PUMP</b>	354 120	354 120	354 120	354 120	354 120	354 120	354 120
<b>10' DELIVERY HOSE</b>	847	847	847	847	-	-	-
<b>30' X 1/2" 1400 SERIES HOSE REEL</b>	-	-	-	-	1428	1428	1428
<b>METERED HANDLE</b>	365 537	365 537	365 537	365 537	365 537	-	2199
<b>OIL HANDLE</b>	-	-	-	-	-	363 117	-
<b>1/4" QUICK AIR COUPLER</b>	930F04	930F04	930F04	930F04	930F04	930F04	930F04
<b>1/4" QUICK AIR NIPPLE</b>	930M04	930M04	930M04	930M04	930M04	930M04	930M04
<b>1/4" MINI FILTER REGULATOR COMBO</b>	955	955	955	955	955	955	955
<b>X-FRAME DOLLY</b>	-	1306	-	-	-	-	-
<b>STANDARD DUTY PLATFORM TRUCK</b>	-	-	1307	-	-	-	-
<b>HEAVY DUTY PLATFORM TRUCK</b>	-	-	-	1305	1305	1305	1305
<b>REEL BRACKET</b>	-	-	-	-	1399	1399	1399
<b>5' REEL TO PUMP CONNECTION HOSE</b>	-	-	-	-	846	846	846
<b>PUMP TO HOSE CONNECTOR, 3/4"NPT (M) x 1/2"NPT (F)</b>	2065	2065	2065	2065	2065	2065	2065
<b>PUMP TO FR CONNECTOR 1/4" NPT (M) BOTH ENDS</b>	2051	2051	2051	2051	2051	2051	2051

211 001





## PUMPMASTER 2 - 3:1 RATIO PUMP PACKAGES FOR TOTES, 275 / 330 GAL

	TOP OF TOTE MOUNTING		SIDE OF THE TOTE MOUNTING		
PART No.	454 694	454 694A	454 699	454 699A	454 150
PUMPMASTER 2 - 3:1 PUMP	353 120	353 120	353 120	353 120	353 120
PUMP BRACKET	900	900	900	900	900
TOTE BRACKET	360 106	360 106	360 107	360 107	360 108
SUCTION HOSE (1)	745 306	745 306	745 304	745 304	745 304
METERED HANDLE	365 537	365 537	365 537	365 537	365 537
HOSE REEL	30' x 1/2" 506 202	50' x 1/2" 1674	30' x 1/2" 506 202	50' x 1/2" 1674	-
REEL PIVOTING BRACKET	-	-	1388	1388	-
DELIVERY HOSE	-	-	-	-	20' x 1/2" (849)
1/4" QUICK AIR COUPLER	930F04	930F04	930F04	930F04	930F04
1/4" QUICK AIR NIPPLE	930M04	930M04	930M04	930M04	930M04
1/4" MINI FILTER REGULATOR COMBO	955	955	955	955	955
PUMP TO HOSE CONNECTOR, 3/4" NPT (M) x 1/2" NPT (F)	2065	2065	2065	2065	2065
PUMP TO FR CONNECTOR 1/4" NPT (M) BOTH ENDS	2051	2051	2051	2051	2051

(1) Includes adaptor for connecting to the tote lower outlet.



454 694



454 699



454 150

**PUMPMASTER 4 - 3:1 RATIO OIL PUMPS**

**400 SERIES**

STANDARD-DUTY MEDIUM PRESSURE PUMPS

Double acting air operated medium pressure high volume pumps for dispensing lubricants in medium size installations. Pumps include height adjustable 2 " NPTM bung adaptor for drum and tank bung mounting. Built in port for optional (PN 609 007) pressure relief valve.



**FLUIDS HANDLED**

- Synthetic and mineral based oil.
- Gear lube.
- Hydraulic oil.
- Transmission fluid.

**MARKETS SERVED**

- Vehicle maintenance centers and auto dealers.
- Fleet service.
- Fast lube centers.
- Lube trucks.
- Mining and construction.
- In-plant.

**MODELS**

PART No.	APPLICATION	WEIGHT
<b>340 120</b>	Universal stub pump with bung adaptor	13 lb (5,7 kg)
<b>340 520</b>	16 gal drum bung mounted with bung adaptor	15.5 lb (7 kg)
<b>341 120</b>	55 gal (205 l) drum bung mounted with bung adaptor	17 lb (7,7 kg)
<b>433</b>	275/500 gal tank (48") with bung adaptor	19 lb (8,6 kg)

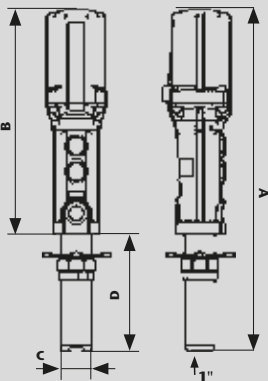
**TECHNICAL DATA PRESSURE RATIO 3:1**

Air pressure operating range	20 to 140 psi (1,5 - 10 bar)
Air consumption (1)	10 scfm (285 NL/min)
Maximum fluid outlet pressure	420 psi (30 bar)
Air motor diameter	3 1/2" (88 mm)
Air motor effective diameter	2 1/2" (60 mm)
Air motor stroke	4" (100 mm)
Delivery at 85 cpm	2.7 US gpm (10 l/min)
Maximum free flow delivery (2)	11.1 US gpm (42 l/min)
Air inlet	3/8" NPTF
Fluid inlet (stub pump only)	1" NPTF
Fluid outlet	3/4" NPTF
Wetted and seal materials	Aluminium / Steel / Polyurethane / NBR / PTFE
Noise level (3)	80 dB
Manual	834 810

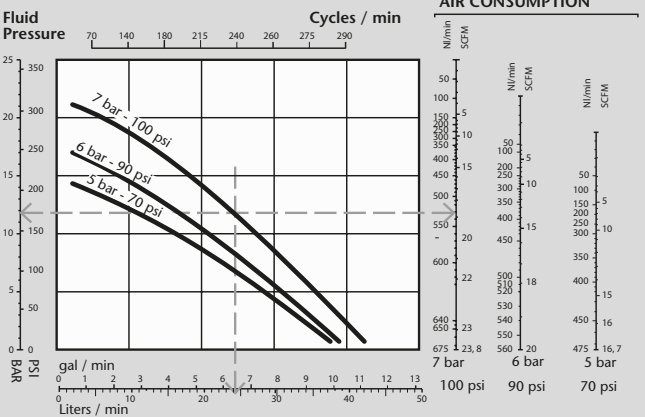
**DIMENSIONS Inches - (mm)**

PART No.	340 120	340 520	341 120
A	23" (585)	42 3/4" (1.085)	51" (1.295)
B	15 1/4" (385)	15 1/4" (385)	15 1/4" (385)
C	2" (52)	25" (52)	2" (52)
D	8" (200)	27 1/2" (700)	35 3/4" (910)
PART No.	433		
A	63 1/4" (1.600)		
B	15 1/4" (385)		
C	2" (52)		
D	48" (1.215)		

- (1) Air consumption with 90 psi (6 bar) air inlet pressure and 85 cycles per minute.  
(2) Maximum free delivery at 100 psi (7 bar).  
(3) Maximum noise level measured at 3' (1 m) from the pump, 100 psi (7 bar) air pressure and free delivery.



**SAE 30 - 68 °F (20 °C) CAPACITY CURVE**



## STANDARD-DUTY MEDIUM PRESSURE PUMPS

## 400 SERIES

Double acting air operated medium pressure pumps for dispensing lubricants in medium to large size installations, that include multiple outlets with simultaneous operation. Pumps include height adjustable bung adaptor 2" NPTM for drum and tank bung mounting. Built in port for optional (PN 609 007) pressure relief valve.

### FLUIDS HANDLED

- Synthetic and mineral based oil.
- Gear lube.
- Hydraulic oil.
- Transmission fluid.

### MARKETS SERVED

- Auto and truck dealers.
- Fleet service facilities.
- Mining and construction.
- Lube trucks.
- Marine.
- Railroad and mass transit.
- In-plant.

### MODELS

PART No.	APPLICATION	WEIGHT
<b>347 120</b>	Universal stub pump with bung adaptor	12.5 lb (5,6 kg)
<b>347 520</b>	16 gal with bung adaptor	15 lb (6,8 kg)
<b>348 120</b>	55 gal (205 l) drum bung mounted with bung adaptor	16.5 lb (7,4 kg)
<b>413</b>	275/500 gal tank (48") with bung adaptor	18.5 kg (8,4 kg)
<b>460</b>	60" tank with bung adaptor	20.5 lb (9,3 kg)

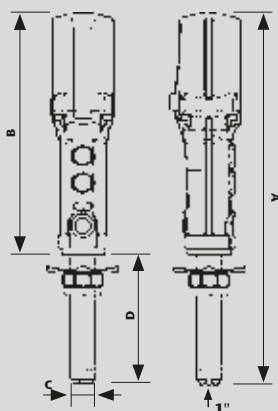
### TECHNICAL DATA PRESSURE RATIO 5:1

Air pressure operating range	20 to 140 psi (1,5 - 10 bar)
Air consumption (1)	14 scfm (400 NL/min)
Maximum fluid outlet pressure	700 psi (50 bar)
Air motor diameter	3 1/2" (88 mm)
Air motor effective diameter	2 1/2" (60 mm)
Air motor stroke	4" (100 mm)
Delivery at 125 cpm	2.7 US gpm (10 l/min)
Maximum free flow delivery (2)	6.6 US gpm (25 l/min)
Air inlet	3/8" NPTF
Fluid inlet (stub pump only)	1" NPTF
Fluid outlet	3/4" NPTF
Wetted and seal materials	Aluminium / Steel / Polyurethane / NBR / PTFE
Noise level (3)	80 dB
Manual	834 811

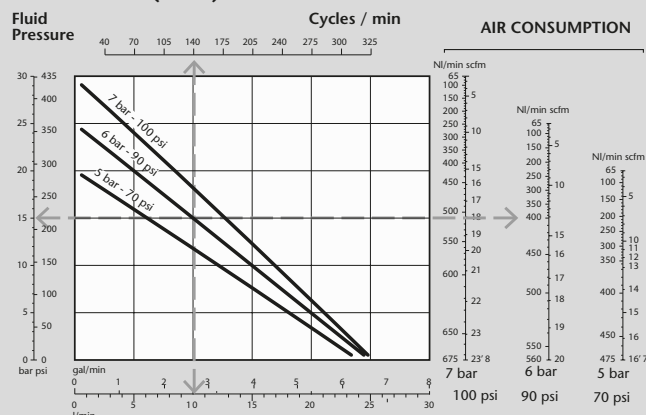
(1) Air consumption with 90 psi (6 bar) air inlet pressure and 125 cycles per minute.

(2) Maximum free delivery at 100 psi (7 bar).

(3) Maximum noise level measured at 3' (1 m) from the pump, 100 psi (7 bar) air pressure and free delivery.



### SAE 30 - 68 °F (20 °C) CAPACITY CURVE



### DIMENSIONS Inches - (mm)

PART No	347 120	347 520	348 120
A	26" (663)	42 3/4" (1.085)	51 1/4" (1.300)
B	15 1/4" (385)	15 1/4" (385)	15 1/4" (385)
C	1 3/4" (42)	1 3/4" (42)	1 3/4" (42)
D	11" (278)	27 1/2" (700)	36" (915)
PART No	413	460	
A	63 1/4" (1.600)	75 1/4" (1.910)	
B	15 1/4" (385)	15 1/4" (385)	
C	1 3/4" (42)	1 3/4" (42)	
D	48" (1.215)	60" (1.525)	



**PUMPMaster 4 - 8:1 RATIO OIL PUMPS**

**400 SERIES**

STANDARD-DUTY HIGH PRESSURE PUMPS

Double acting air operated high pressure pumps for dispensing lubricants in applications requiring higher pressure and moderate flow rates, such as medium to large size installations including multiple outlets with no simultaneous use. Pumps include height adjustable 2" NPTM bung adaptor for drum or tank bung mounting. Built in port for optimal (PN 609 007) pressure relief valve.



**FLUIDS HANDLED**

- Synthetic and mineral based oil.
- Hydraulic oil.
- Gear lube.
- Transmission fluid.
- Corrosion protection fluids.

**MARKETS SERVED**

- Vehicle maintenance centers.
- Fleet service facilities.
- Marine.
- Mining and construction.
- Lube trucks.

**MODELS**

PART No.	APPLICATION	WEIGHT
<b>349 120</b>	Universal stub pump with bung adaptor	13 lb (5,7 kg)
<b>349 820</b>	16 gal with bung adaptor	15 lb (6,8 Kg)
<b>349 220</b>	55 gal (205 l) drum bung mounted with bung adaptor	16.5 lb (7,4 kg)
<b>486</b>	275/500 gal tank (48") with bung adaptor	18.5 lb (8,4 kg)
<b>490</b>	60" tank with bung adaptor	20.5 lb (9,30 Kg)

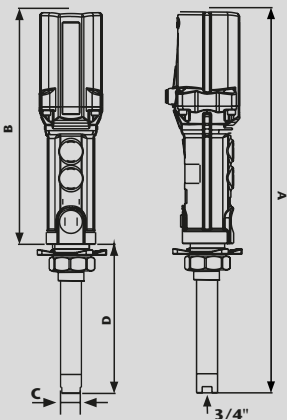
**TECHNICAL DATA PRESSURE RATIO 8:1**

Air pressure operating range	40 to 140 psi (3 -10 bar)
Air consumption (1)	16 scfm (450 NL/min)
Maximum fluid outlet pressure	1,120 psi (80 bar)
Air motor diameter	3 1/2" (88 mm)
Air motor effective diameter	2 1/2" (60 mm)
Air motor stroke	4" (100 mm)
Delivery at 200 cpm	2.7 US gpm (10 l/min)
Maximum free flow delivery (2)	5.8 US gpm (22 l/min)
Air inlet	3/8" NPTF
Fluid inlet (stub pump only)	3/4" NPTF
Fluid outlet	3/4" NPTF
Wetted and seal materials	Aluminium / Steel / NBR / PTFE
Noise level (3)	80 dB
Manual	834 815

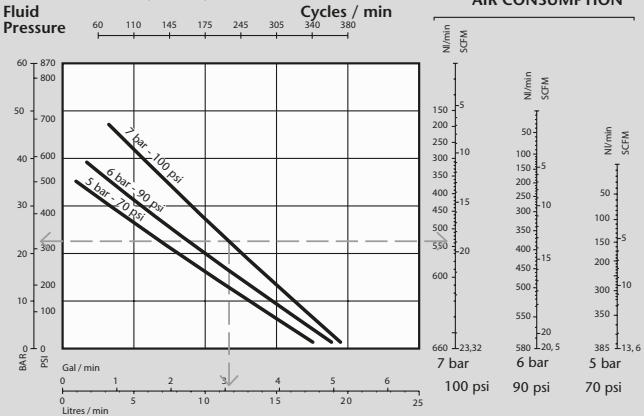
**DIMENSIONS Inches - (mm)**

PART No.	349 120	349 820	349 220
A	24 3/4" (627)	42 3/4" (1.085)	51 3/4" (1.317)
B	15 1/4" (385)	15 1/4" (385)	15 1/4" (385)
C	1 1/4" (34)	1 1/4" (34)	1 1/4" (34)
D	9 1/2" (242)	27 1/2" (700)	36 3/4" (932)
PART No.	486	490	
A	63 1/4" (1.600)	75 1/4" (1.910)	
B	15 1/4" (385)	15 1/4" (385)	
C	1 1/4" (34)	1 1/4" (34)	
D	48" (1.215)	60" (1.525)	

- (1) Air consumption with 90 psi (6 bar) air inlet pressure and 200 cycles per minute.  
(2) Maximum free delivery at 100 psi (7 bar).  
(3) Maximum noise level measured at 3' (1 m) from the pump, 100 psi (7 bar) air pressure and free delivery.



**SAE 30 - 68 °F (20 °C) CAPACITY CURVE**



## PUMPMASTER 4 - 3:1 AND 5:1 RATIO UNIVERSAL STUB PUMP SYSTEMS

### Part No. 410

PUMPMASTER 4 - 5:1 ratio pump system. **Includes the following:**

Part No. 347 120: Universal PUMPMASTER 4 - 5:1 stub pump with bung bushing.

Part No. 906: Connecting hose hook up kit.

### Part No. 412

PUMPMASTER 4 - 5:1 ratio pump system for 275 gal oval or 500 gal round tank.

**Includes the following:**

Part No. 413: PUMPMASTER 4 - 5:1 pump with bung bushing.

Part No. 906: Connecting hose hook up kit.

### Part No. 466

PUMPMASTER 4 - 5:1 ratio pump system for 60" tanks.

**Includes the following:**

Part No. 460: PUMPMASTER 4 - 5:1 pump with bung brushing.

Part No. 906: Connecting hose hook up kit.

### Part No. 440

PUMPMASTER 4 - 3:1 ratio pump system. **Includes the following:**

Part No. 340 120: Universal PUMPMASTER 4 - 3:1 stub pump with bung bushing.

Part No. 906: Connecting hose hook up kit.

### Part No. 442

PUMPMASTER 4 - 3:1 ratio pump system for 275 gal oval or 500 gal round tank.

**Includes the following:**

Part No. 341 120: PUMPMASTER 4 - 3:1 pump with bung bushing.

Part No. 906: Connecting hose hook up kit.



## PUMPMASTER 4 - 3:1 AND 5:1 RATIO PUMP PACKAGES

Pump systems with air operated PUMPMASTER 4 - 3:1 or 5:1 pressure ratio pump. The pump is designed to fit through the 2" bung open on oil drums or to be mounted on a lid for open drums. The pump includes a height adjustable bung adaptor.

### Part No. 422

PUMPMASTER 4 - 5:1 ratio pump system for standard 250 gal work bench type tank.

**Includes the following:**

Part No. 348 120: PUMPMASTER 4 - 5:1 pump with bung bushing.

Part No. 906: Connecting hose hook up kit.

### Part No. 452

PUMPMASTER 4 - 3:1 ratio pump system for standard 250 gal work bench type tank.

**Includes the following:**

Part No. 341 120: PUMPMASTER 4 - 3:1 pump with bung bushing.

Part No. 906: Connecting hose hook up kit.



### Recommended options:

Part No. 957 air filter and regulator combo, 3/8" NPTF.

Part No. 609 007 pressure relief valve.

## PUMPMaster 45 - 3:1 RATIO OIL PUMP

### PM45 HEAVY-DUTY SERIES

#### HEAVY-DUTY VOLUME TRANSFER PUMP

Double acting air operated medium pressure and high delivery pump for large volume transfer applications. Built in port for optional (PN 609 007) pressure relief valve. **Flange mounted pump.**



#### FLUIDS HANDLED

- Synthetic and mineral based oil.
- Hydraulic oil.
- Gear lube.
- Transmission fluid.

#### MARKETS SERVED

- Construction equipment.
- Mining equipment.
- Large fleets.
- Railroad and mass transit maintenance.
- Marine.
- In plant oil distribution and transfer.

#### MODELS

PART No.	APPLICATION	WEIGHT
<b>536 331</b>	Universal stub pump. Flange mounted	38 lb (17 kg)

#### TECHNICAL DATA PRESSURE RATIO 3:1

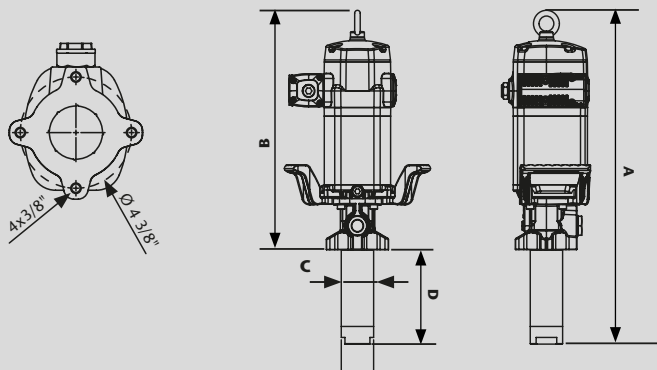
Air pressure operating range	20 to 170 psi (1,5 to 12 bar)
Air consumption (1)	28 scfm (800 NL/min)
Maximum fluid outlet pressure	510 psi (36 bar)
Air motor effective diameter	4 1/2" (115 mm)
Air motor stroke	4" (100 mm)
Delivery at 80 cpm	12 gal/min (45 l/min)
Maximum free flow delivery	32 gal/min (120 l/min)
Air inlet	1/2" NPTF
Fluid inlet	1 1/2" NPTF
Fluid outlet	3/4" NPTF
Wetted and seal materials	Cast iron / Nickel / Aluminium / Steel / Polyurethane / NBR
Noise level (2)	80 dB
Manual	853 817

#### DIMENSIONS Inches - (mm)

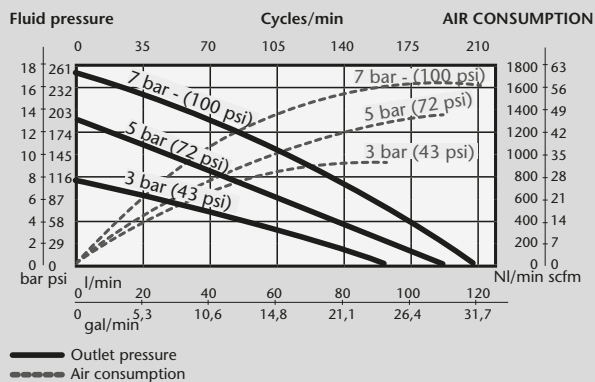
PART No.	536 331
A	28" (702)
B	20" (502)
C	3 1/2" (90)
D	8" (200)

(1) Maximum air consumption with 72 psi (5 bar) air inlet pressure and 80 cpm.

(2) Maximum noise level measured at 3' (1 m) from the pump, 100 psi (7 bar) air pressure and free delivery.



#### SAE 10, 70 °F (21 °C) CAPACITY CURVE



## HEAVY-DUTY HIGH FLOW PUMP

## PM45 HEAVY-DUTY SERIES

Double action air operated medium pressure pump for large system with simultaneous operation outlets that require a high delivery pump. Built in port for optimal (PN 609 007) pressure relief valve.

### Flange mounted pump.

#### PRODUCTS HANDLED

- Synthetic and mineral based oil.
- Hydraulic oil.
- Gear lube.
- Transmission fluid.

#### MARKETS

- Large auto and truck dealers.
- Construction equipment maintenance.
- Mining equipment maintenance.
- Large fleets.
- Railroad and mass transit maintenance.
- Marine.
- In plant oil distribution.



MODELS		
PART No.	APPLICATION	WEIGHT
536 631	Universal stub pump. Flange mount	38 lb (17 kg)

TECHNICAL DATA PRESSURE RATIO 6:1	
Air pressure operating range	20 to 170 psi (1,5 to 12 bar)
Air consumption (1)	29 scfm (830 NI/min)
Maximum fluid outlet pressure	1,020 psi (72 bar)
Air motor effective diameter	4 1/2" (115 mm)
Air motor stroke	4" (100 mm)
Delivery at 80 cpm	6.60 gal/min (25 l/min)
Maximum free flow delivery	25 gal/min (95 l/min)
Air inlet	1/2" NPTF
Fluid inlet	1 1/2" NPTF
Fluid outlet	3/4" NPTF
Wetted and seal materials	Cast iron / Hard chromed steel / Steel / Polyurethane / NBR
Noise level (2)	80 dB
Manual	853 813

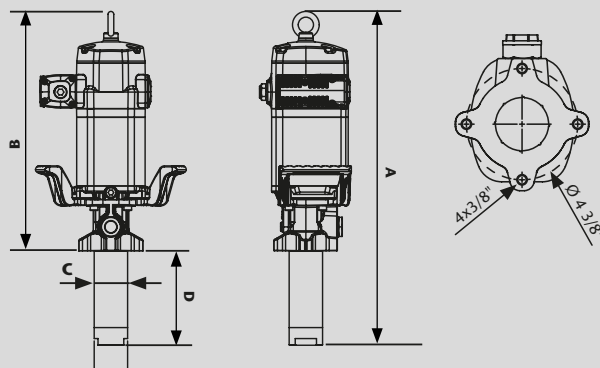
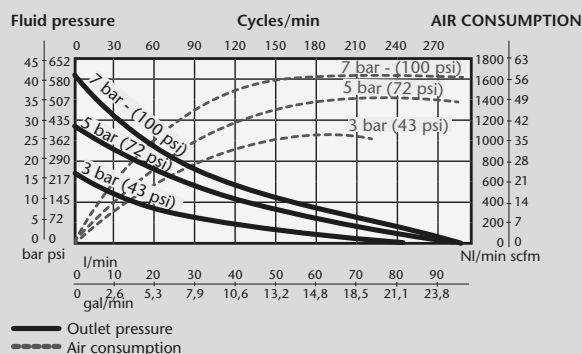
(1) Maximum air consumption with 72 psi (5 bar) air inlet pressure and 80 cpm.

(2) Maximum noise level measured at 3' (1 m) from the pump, 100 psi (7 bar) air pressure and free delivery.

#### DIMENSIONS Inches - (mm)

PART No.	536 631
A	28" (702)
B	20" (502)
C	2 3/4" (70)
D	8" (200)

#### SAE 10, 70 °F (21 °C) CAPACITY CURVE





# PUMPMaster 45 -10:1 RATIO OIL PUMPS

## PM45 HEAVY-DUTY SERIES

### HEAVY-DUTY PRESSURE FLOW PUMPS

Double acting air operated moderate pressure pump for very large oil systems or when low air pressure or cold temperatures would limit pump performance. Built in port for optional (PN 609 008) pressure relief valve. **Flange mounted pumps.** Pump 536 011 can also use bung adaptor (PN: 360 006) for bung mounting.



#### PRODUCTS HANDLED

- Synthetic and mineral based oil.
- Hydraulic oil.
- Gear lube.
- Transmission fluid.

#### MARKETS

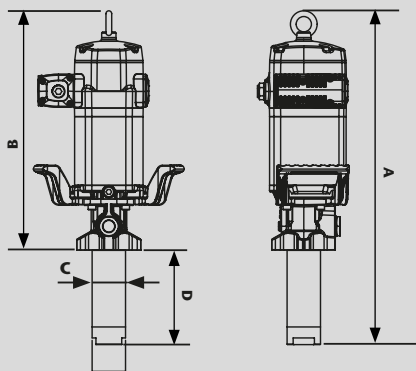
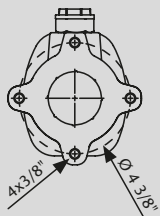
- Large auto and truck dealers.
- Construction equipment maintenance.
- Mining equipment maintenance.
- Railroad and mass transit maintenance.
- Large fleets.
- Lube trucks.
- Marine.
- In plant oil distribution.

MODELS		
PART No.	APPLICATION	WEIGHT
536 031	Universal stub pump. Flange mounted pump, bung bushing optional	36 lb (16,5 kg)
536 011	55 gal (205 l) drum. Flange mounted pump, bung bushing optional	38 lb (17 kg)

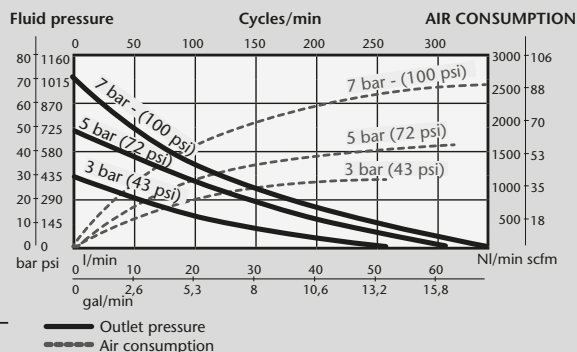
TECHNICAL DATA PRESSURE RATIO 10:1	
Air pressure operating range	20 to 170 psi (1,5 to 12 bar)
Air consumption (1)	30 scfm (850 NI/min)
Maximum fluid outlet pressure	1,700 psi (120 bar)
Air motor effective diameter	4 1/2" (115 mm)
Air motor stroke	4" (100 mm)
Delivery at 80 cpm	4 gal/min (15 l/min)
Maximum free flow delivery	17.2 gal/min (65 l/min)
Air inlet	1/2 " NPTF
Fluid inlet	1 1/2 " NPTF
Fluid outlet	3/4" NPTF
Wetted and seal materials	Cast iron / Hard chromed steel / Steel / Polyurethane / NBR
Noise level (2)	80 dB
Manual	853 812

DIMENSIONS Inches - (mm)		
PART No.	536 031	536 011
A	28" (702)	54" (1.357)
B	20" (502)	20" (502)
C	2" (54)	2" (54)
D	8" (200)	34" (855)

- (1) Maximum air consumption with 72 psi (5 bar) air inlet pressure and 80 cpm.  
(2) Maximum noise level measured at 3' (1 m) from the pump, 100 psi (7 bar) air pressure and free delivery.



#### SAE 10, 70 °F (21 °C) CAPACITY CURVE



## HEAVY-DUTY HIGH DELIVERY PUMP

## PM60 HEAVY-DUTY SERIES

Double acting air operated medium pressure and high delivery pump, for large installations with simultaneous operation outlets and applications that require large, constant delivery rates. Built in port for optional (PN 609 007) pressure relief valve. **Flange mounted pump.**

### PRODUCTS HANDLED

- Synthetic and mineral based oil.
- Hydraulic oil.
- Gear lube.
- Transmission fluid.

### MARKETS

- Very large auto and truck dealers.
- Construction equipment maintenance.
- Mining equipment maintenance.
- Large fleets.
- Railroad and mass transit maintenance.
- Marine.
- In plant oil distribution.



MODELS		
PART No.	APPLICATION	WEIGHT
<b>537 631</b>	Universal stub pump. Flange mounted	42 lb (19 kg)

TECHNICAL DATA PRESSURE RATIO 6:1	
Air pressure operating range	20 to 170 psi (1,5 to 12 bar)
Air consumption (1)	39 scfm (1.100 NI)
Maximum fluid outlet pressure	1,020 psi (72 bar)
Air motor effective diameter	6" (150 mm)
Air motor stroke	4" (100 mm)
Delivery at 60 cpm	9.25 gal/min (35 l/min)
Maximum free flow delivery	26.5 gal/min (100 l/min)
Air inlet	1/2 " NPTF
Fluid inlet	1 1/2" NPTF
Fluid outlet	3/4" NPTF
Wetted and seal materials	Cast iron / Aluminium / Nickel / Steel / Polyurethane / NBR
Noise level (2)	80 dB
Manual	853 821

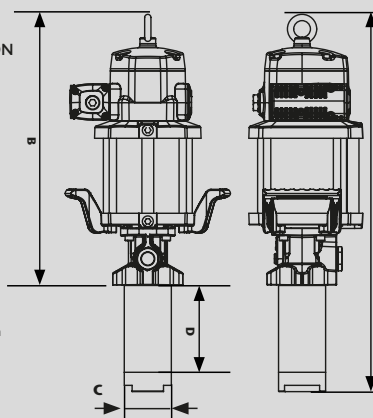
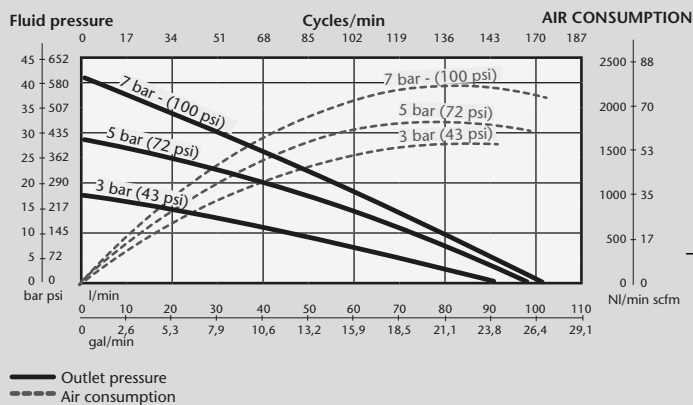
(1) Maximum air consumption with 72 psi (5 bar) air inlet pressure and 60 cpm.

(2) Maximum noise level measured at 3' (1 m) from the pump, 100 psi (7 bar) air pressure and free delivery.

### DIMENSIONS Inches - (mm)

PART No.	537 631
A	29" (716)
B	20 1/4" (516)
C	3 1/2" (90)
D	8" (200)

### SAE 10, 70 °F (21 °C) CAPACITY CURVE



## PUMPMaster 60 - 12:1 RATIO OIL PUMP

### PM60 HEAVY-DUTY SERIES

#### HEAVY-DUTY HIGH PERFORMANCE PUMP

Double acting air operated moderate pressure and high delivery pump for very large installation with simultaneous operation outlets or when low air pressure or low temperatures would limit pump performance. Built in port for optional (PN 609 008) pressure relief valve. **Flange mounted pump.**



#### PRODUCTS HANDLED

- Synthetic and mineral based oil.
- Hydraulic oil.
- Gear lube.
- Transmission fluid.

#### MARKETS

- Very large auto and truck dealers.
- Construction equipment maintenance.
- Mining equipment maintenance.
- Large fleets.
- Railroad and mass transit maintenance.
- Marine.
- In plant oil distribution.

MODELS		
PART No.	APPLICATION	WEIGHT
<b>537 131</b>	Universal stub pump. Flange mounted	41.9 lb (19 kg)

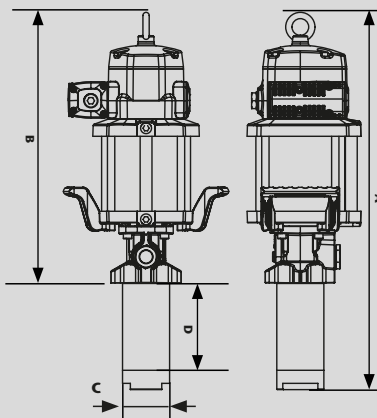
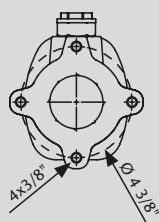
TECHNICAL DATA PRESSURE RATIO 12:1	
Air pressure operating range	20 to 170 psi (1,5 to 12 bar)
Air consumption (1)	41 scfm (1.150 NI)
Maximum fluid outlet pressure	2,040 psi (144 bar)
Air motor effective diameter	6" (150 mm)
Air motor stroke	4" (100 mm)
Delivery at 60 cpm	5.3 gal/min (20 l/min)
Maximum free flow delivery	17 gal/min (65 l/min)
Air inlet	1/2" NPTF
Fluid inlet	1 1/2" NPTF
Fluid outlet	3/4" NPTF
Wetted and seal materials	Cast iron / Hard chromed steel / Steel / Polyurethane / NBR
Noise level (2)	80 dB
Manual	853 818

#### DIMENSIONS Inches - (mm)

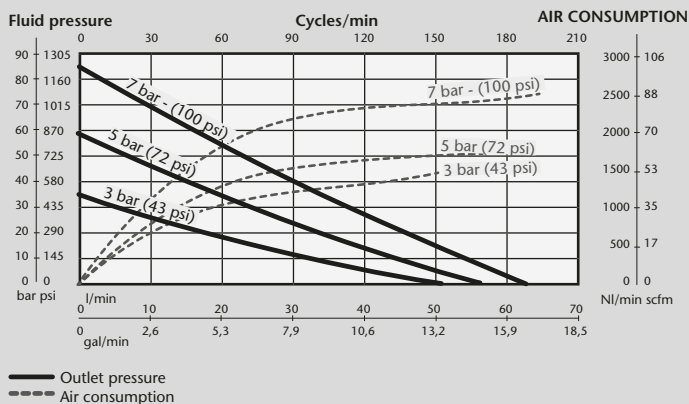
PART No.	537 131
A	28 1/2" (716)
B	20 1/4" (516)
C	2 3/4" (70)
D	8" (200)

(1) Maximum air consumption with 72 psi (5 bar) air inlet pressure and 60 cpm.

(2) Maximum noise level measured at 3' (1 m) from the pump, 100 psi (7 bar) air pressure and free delivery.



#### SAE 10, 70 °F (21 °C) CAPACITY CURVE



904



Pump not included.

906



Pump not included.

914



Pump not included.

## HOSE CONNECTION KITS

### Part No. 904

Medium pressure connection hose installation hook-up kit for PUMPMaster 2 - 1:1 and 3:1 oil pumps. **Includes the following:**

Part No. 801: 2' air hose, 1/4" NPTM both ends.  
Part No. 930F04: Quick air coupler, 1/4" NPTF.  
Part No. 933M04: Quick air nipple, 1/4" NPTM.  
Part No. 857: 5' medium pressure 3/4" hose, 3/4" NPTM both ends.

#### Recommended option:

Part No. 955 air filter regulator combo, 1/4" NTPF.

### Part No. 906

Medium pressure connection hose installation hook-up kit for PUMPMaster 4 - 3:1 and 5:1 oil pumps. **Includes the following:**

Part No. 812: 2' air hose, 3/8" NPTM both ends.  
Part No. 930F06: Quick air coupler, 3/8" NPTF.  
Part No. 933M06: Quick air nipple, 3/8" NPTM.  
Part No. 857: 5' medium pressure 3/4" hose, 3/4" NPTM both ends.

#### Recommended option:

Part No. 957 air filter regulator combo, 3/8" NTPF.

### Part No. 914

Medium pressure connection hose installation hook-up kit for PUMPMaster 45 and 60 oil pumps. **Includes the following:**

Part No. 822: 2' air hose, 1/2" NPTM both ends.  
Part No. 935F08: Quick air coupler, 1/2" NPTF.  
Part No. 936M08: Quick air nipple, 1/2" NPTM.  
Part No. 857: 5' medium pressure 3/4" hose, 3/4" NPTM both ends.  
Part No. 1981: 90° swivel, 1/2" NPTF x 1/2" NPTM.  
Part No. 1982: 90° swivel, 3/4" NPTF x 3/4" NPTM.

#### Recommended option:

Part No. 985 air filter regulator combo, 1/2" NTPF.

## PUMP BRACKETS



900



360 106

360 108



360 132



360 121

PART No.	FOR PUMPMaster 2 AND PUMPMaster 4 OIL PUMPS
900	Wall mount bracket. 2" NPTF bung opening.
360 106	Bracket for mounting PUMPMaster 2 or PUMPMaster 4 pump and reel to top of a 275/330 gal tote. (Requires pump bracket 900 extra)
360 108	Bracket for mounting a PUMPMaster 2 or PUMPMaster 4 pump on one side of a 275/330 gal tote. (Requires pump bracket 900 extra)
360 107	Bracket for mounting PUMPMaster 2 or PUMPMaster 4 pump and reel on one side of a 275/330 gal tote. (Requires pump bracket 900 and reel pivoting bracket 1388 extra)
360 120	Floor bracket for PUMPMaster 2 and PUMPMaster 4 pumps
PART No.	FOR PUMPMaster 45 AND PUMPMaster 60 OIL PUMPS
360 132	Wall mount bracket. For PM45 and PM60 flange mounted pumps
360 121	Floor mount bracket. For PM45 and PM60 flange mounted pumps



DRUM COVERS

1936



**Deluxe Drum Covers**

2" NPTF bung opening, allows mounting a PM2 or a PM4 pump to an open top 55 and 16 gal drum. For PUMPMaster 2 and PUMPMaster 4 oil pumps.

**Part No. 1936**

Deluxe cover for 16 gal open top kegs.

**Part No. 1938**

Deluxe cover for 55 gal open top drums.

418 026



**Heavy-Duty Drum Covers**

Allows mounting a flange mounted PM45 or PM60 pump to an open top drum.

**Part No. 418 017**

Deluxe cover for 16 gal open top kegs.

**Part No. 418 026**

Deluxe cover for 55 gal open top drums.

360 133



**Part No. 360 133**

Bung mount adaptor for flange type drum cover.

Converts flange mount to standard 2" NPT bung opening, thus permits the use of bung mounted type pumps with Heavy-Duty drum cover.

360 006



**Part No. 360 001**

Bung bushing adaptor for PM2 1:1 pressure ratio pumps and PM4 3:1 pressure ratio pumps.

**Part No. 360 000**

Bung bushing adaptor for PM2 3:1 pressure ratio pumps and PM4 8:1 pressure ratio pumps.

**Part No. 360 002**

Bung bushing adaptor for PM4 5:1 pressure ratio pumps.

**Part No. 360 006**

Bung bushing adaptor for PM45 10:1 pressure ratio pumps.

BUNG BUSHING ADAPTORS

912



924



SUCTION ACCESSORIES

**Part No. 910 (not shown) for PUMPMaster 2 and PUMPMaster 4 pumps**

Siphon kit consisting of 40" suction tube with foot valve, 2" bung bushing adaptor, 8' spring reinforced transparent hose, 3/4" (F) swivel end, one PM2 - 3:1 pump to hose connector, 3/4" MM and one PM4 - 3:1 and 5:1 pump to hose connector, 3/4" M x 1" M.

**Part No. 912 for PUMPMaster 2 and PUMPMaster 4 pumps**

Wall mounting installation kit for PUMPMaster 2 3:1 and PUMPMaster 4 - 3:1 and 5:1 pumps.

**Includes the following:**

Part No. 900: Wall mount bracket.

Part No. 910: Siphon kit.

**Part No. 924 for PUMPMaster 4 pumps**

Wall mounting installation kit for lower side outlet tank. For use with PUMPMaster 4 - 3:1 and 5:1 pumps.

**Includes the following:**

Part No. 900: Wall mount bracket.

Part No. 863: 5' medium pressure 1" hose, 1" NPTM both ends, one of them swiveling.

**Part No. 926 (not shown) for PUMPMaster 45 and PUMPMaster 60**

Suction hose kit for wall mounted pumps.

**Includes the following:**

Part No. 863 506: 6' medium pressure 1 1/2" hose, 1 1/2" NPTM both ends, one of them swiveling.

Part No. 2520: 1 1/2" NPT MxF elbow.

## PRESSURE RELIEF VALVES

SAMSON pumps include a 1/4" plug that can be removed and replaced with a pressure relief valve. Relief valves include 36" transparent return tube and 1/4" NPTM fitting.

### Part No. 609 007

Pressure relief valve. Opens at approx. 900 psi, for PUMPMaster 2 3:1 pumps, PUMPMaster 4 3:1 and 5:1 pumps, and PUMPMaster 45 3:1, 6:1 pumps and PUMPMaster 60 6:1 pumps.

609 007



### Part No. 609 008

Pressure relief valve. Opens at approx. 1,450 psi, for PUMPMaster 4 8:1 pumps, PUMPMaster 45 10:1 pumps and PUMPMaster 60 12:1 pumps.

## AUTO STOP VALVES

The auto stop valve is designed to stop operation of a reciprocating type air motor in the event of a ruptured outlet hose or the pump runs out of material. The auto stop valve senses an increased volume of air to the pump, beyond the pre-adjusted setting, and shuts off the air to the pump.

2525



### Part No. 2525

Auto stop valve, 1/4" inlet and outlet.

### Part No. 2550

Auto stop valve, 1/2" inlet and outlet.

## SHUT OFF VALVES

LOW PRESSURE BALL VALVES		MEDIUM PRESSURE BALL VALVES		HIGH PRESSURE NEEDLE VALVES	
600 psi		2,000 psi		10,000 psi	
PART No.	NPTF	PART No.	NPTF	PART No.	NPTF
2013	1/4"	2074	1/2"	2077	1/2"
2088	1/2"	2083	3/4"	2089	3/4"
2091	3/4"	2090	1"	2093	1"
2084	1"	2082	1 1/2"		



2074



2013

OIL PUMP MOUNTING ACCESSORIES QUICK REFERENCE CHART

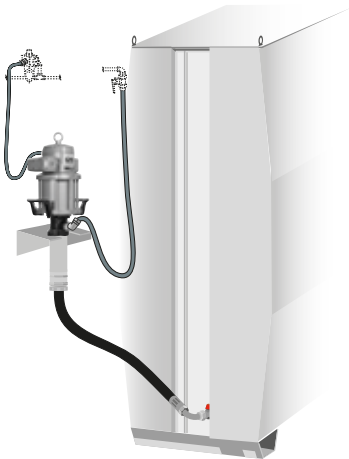
PUMP	PUMP MASTER 2	PUMP MASTER 2	PUMP MASTER 4	PUMP MASTER 4	PUMP MASTER 45	PUMP MASTER 45	PUMP MASTER 45	PUMP MASTER 60	PUMP MASTER 60
RATIO	1:1	3:1	3:1	5:1	3:1	6:1	10:1	6:1	12:1
BUNG ADAPTOR	360 001	360 000	360 001	360 002	(1)	(1)	360 006	(1)	(1)
CONNECTION HOSE KIT	904	904	906	906	914	914	914	914	914
WALL MOUNTING BRACKET	900	900	900	900	360 132	360 132	360 132	360 132	360 132
FLOOR BRACKET	360 120	360 120	360 120	360 120	360 121	360 121	360 121	360 121	360 121
THERMAL RELIEF KIT	Not needed	609 007	609 007	609 007	609 007	609 007	609 008	609 007	609 008
AIR REGULATOR WITH GAUGE	991	991	973	973	976	976	976	976	976
AIR FILTER REGULATOR (F/R)	955	955	957	957	958	958	958	958	958
FRL	995	995	984	984	985	985	985	985	985
AIRLINE SHUTOFF VALVE	2013	2013	2088	2088	2088	2088	2088	2088	2088
FLUID SHUTOFF VALVE	2083	2083	2083	2083	2083	2083	2083	2083	2083
SUCTION KIT (*)	910	910	910	910	(2)	(2)	926	(2)	(2)
QUICK AIR COUPLER	930F04	930F04	930F06	930F06	935F08	935F08	935F08	935F08	935F08
QUICK AIR NIPPLE	933M04	933M04	933M06	933M06	936M08	936M08	936M08	936M08	936M08
AIR CONNECTION ACCESSORIES I.D.	1/4" - 6 mm	1/4" - 6 mm	3/8" - 8 mm	3/8" - 8 mm	1/2" - 12 mm	1/2" - 12,5 mm	1/2" - 12,5 mm	1/2" - 12,5 mm	1/2" - 12,5 mm

(\*) Suction kit for 55 gal (200 l) drum. Pump bracket not included.  
 (1) Pump must be wall or floor mounted.  
 (2) SAMSON recommends using 1-1/2" x 6' maximum length hose as suction kit.

PUMP INSTALLATION RECOMMENDATIONS

- Always use a ball valve between the tank outlet and the suction hose.
- Always use a ball valve between the pump outlet hose and the fluid distribution line.

PUMP INSTALLATION EXAMPLES



WALL MOUNTED PUMP



FLOOR MOUNTED PUMP



WALL MOUNTED PUMP

## 02 AIR OPERATED GREASE PUMPS AND KITS

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**PUMP MASTER®**

**AIR OPERATED GREASE PUMPS**

SAMSON offers a range of high pressure and high delivery grease pumps to handle a wide variety of applications. This pump offering fits original container sizes, from small pails to drums, totes and speciality built tanks, and covers applications from mobile and portable units to large distribution systems.

SAMSON's grease pumps are designed to provide years of dependable service. The in-line balanced design assures that maximum pump efficiency. All SAMSON pumps have a double acting design, pumping product on both the upstroke and downstroke. An effective priming piston provides positive priming, even when used with high viscosity or tacky greases. A hardened foot valve minimizes pump damage due to dirt. A corrosion proof air motor design tolerates moisture in compressed air.



**PUMPMASTER  
3 SERIES**

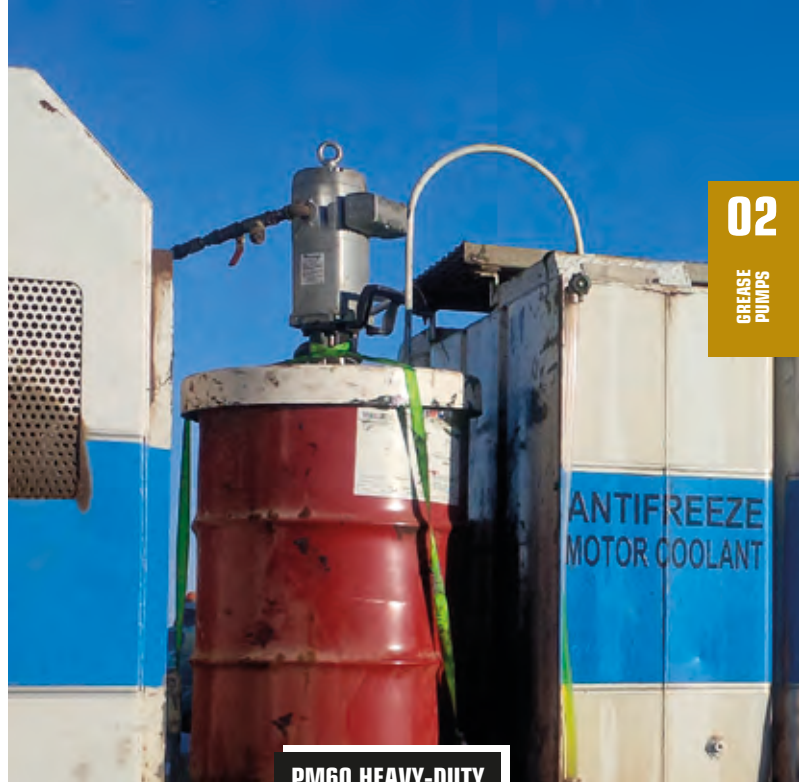


**PUMPMASTER  
3+3 SERIES**

	PUMPMASTER 3 - 55:1	PUMPMASTER 3+3 - 60:1
PUMP DESCRIPTION	Utility high pressure	Heavy-Duty high pressure
SIMULTANEOUS OPERATION OUTLETS	1 No reels - mobile units	1 to 2
MAX. LINE LENGTH	50' - 15 m	250' - 75 m
APPLICATION	Agriculture Service shops Light Industrial	Heavy-Duty service shops Fleets Lube trucks Mining and construction In-plant Railroad and mass transit

Maximum line length and number of simultaneous dispense points also depends on the line diameter, fluid viscosity and required delivery.




**PM45 HEAVY-DUTY  
SERIES**

**PM60 HEAVY-DUTY  
SERIES**


<b>PUMPMASTER 45 - 25:1</b>	<b>PUMPMASTER 45 - 40:1</b>	<b>PUMPMASTER 45 - 70:1</b>	<b>PUMPMASTER 60 - 12:1</b>	<b>PUMPMASTER 60 - 80:1</b>
Heavy-Duty pressure transfer	Heavy-Duty high flow	Heavy-Duty high pressure	Heavy-Duty volume transfer	Heavy-Duty high performance
1 No reels - mobile units	4 or more	4 or more	1 High volume transfer pump	4 or more
250' - 75 m	400' - 125 m	600' - 175 m	175' - 50 m	800' - 250 m
Moderate pressure transfer Lube trucks Mining and construction In-plant	Heavy-Duty service shops Fleets Lube trucks Mining and construction Railroad and mass transit In-plant Marine	Heavy-Duty service shops Fleets Lube trucks Mining and construction Railroad and mass transit In-plant Marine	Low pressure, high volume transfer Mining and construction In-plant Railroad and mass transit	Fleets Lube trucks Mining and construction Railroad and mass transit In-plant Marine

Maximum line length and number of simultaneous dispense points also depends on the line diameter, fluid viscosity and required delivery.

Product specifications are subject to change without prior notice



Light weight and effective double acting high pressure air operated pumps specially designed for use in mobile and portable greasing units.

Pumps are available with three different suction tube lengths, to fit all commercial grease drums: 35 lb (20 kg), 120 lb (50 kg) and 400 lb (185 kg). They include a height adjustable 2" NPTM bung adaptor.

## FLUIDS HANDLED

- Grease up to NLGI-2.

## MARKETS SERVED

- Agriculture.
- Service shops.
- Light industrial.

## MODELS

PART No.	APPLICATION	WEIGHT
300	35 lb (20 kg) pails with bung adaptor.	8 lb (3,5 kg)
302	120 lb (50 kg) drums with bung adaptor.	9.5 lb (4,3 kg)
304	400 lb (185 kg) drums with bung adaptor.	10.6 lb (4,8 kg)

## TECHNICAL DATA

Pump ratio	55:1
Air pressure operating range	20 to 140 psi (1,5 to 10 bar)
Air consumption (1)	5.8 scfm (165 NL/min)
Maximum fluid outlet pressure	7,700 psi (550 bar)
Air motor diameter	2 3/4" (70 mm)
Air motor stroke	1 1/2" (35 mm)
Delivery at 110 cpm	0.7 lb/min (300 g/min)
Maximum free flow delivery (2)	1.2 lb/min (540 g/min)
Air inlet	1/4" NPTF
Fluid outlet	1/4" NPTF
Wetted and seal materials	Steel / NBR / PTFE
Noise level (3)	85 dB
Manual	840 803

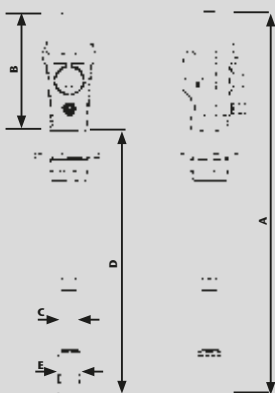
(1) Maximum air consumption with 90 psi (6 bar) air inlet pressure, NLGI-2 grease at 68 °F (20 °C) and 110 cpm.

(2) Maximum free delivery at 100 psi (7 bar). NLGI-2 grease.

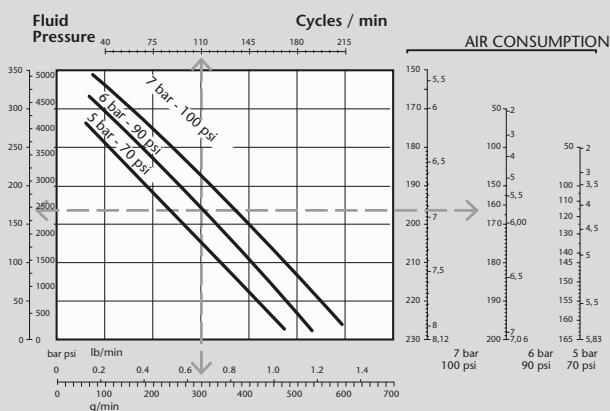
(3) Maximum noise level measured at 3' (1 m) from the pump, 100 psi (7 bar) air pressure and free delivery.

## DIMENSIONS Inches - (mm)

PART No.	300	302	304
A	24" (650)	36 1/2" (925)	44" (1.120)
B	8" (200)	8" (200)	8" (200)
C	1" (26)	1" (26)	1" (26)
D	16" (410)	28 1/2" (725)	36" (920)
E	1 1/2" (38)	1 1/2" (38)	1 1/2" (38)



## NLGI-2, 68 °F (20 °C) CAPACITY CURVE



## PUMPMASTER 3 GREASE PUMP PACKAGES FOR 35 LB PAILS

PART No.	319	301 101	301 111	301 121
<b>PUMPMASTER 3 - 55:1 PUMP</b>	300	300	300	300
<b>DRUM COVER</b>	1934	1934	1934	1934
<b>FOLLOWER PLATE</b>	962	962	962	962
<b>DELIVERY HOSE</b>	5' x 1/4" (871 000)	10' x 1/4" (872 000)	10' x 1/4" (872 000)	10' x 1/4" (872 000)
<b>GREASE HANDLE</b>	413 077	413 077	413 077	413 077
<b>GREASE HANDLE SWIVEL</b>	Straight (1109)	Z-swivel (1105)	Z-swivel (1105)	Z-swivel (1105)
<b>1/4" QUICK AIR COUPLER</b>	-	930F04	930F04	930F04
<b>1/4" QUICK AIR NIPPLE</b>	-	933M04	933M04	933M04
<b>1/4" MINI FILTER REGULATOR COMBO</b>	-	955	955	955
<b>1/4" PUMP TO FR COMBO CONNECTOR</b>	-	2051	2051	2051
<b>CARRYING HANDLE</b>	2020	2020	2020	2020
<b>BAND DOLLY</b>	-	-	-	1302
<b>TWO WHEEL CART</b>	-	-	1301	-



## PUMPMASTER 3 GREASE PUMP PACKAGES FOR 120 AND 400 LB DRUMS



PART No.	320	303 101	303 111	303 141	303 201	303 211	303 241	305 101	305 161
<b>PUMPMASTER 3 - 55:1 PUMP</b>	120 lb (302)	120 lb (302)	120 lb (302)	120 lb (302)	120 lb (302)	120 lb (302)	120 lb (302)	400 lb (304)	400 lb (304)
<b>DRUM COVER</b>	1936	1936	1936	1936	1936	1936	1936	1938	1938
<b>FOLLOWER PLATE</b>	964	964	964	964	964	964	964	966	966
<b>DELIVERY HOSE</b>	5' x 1/4" (871 000)	10' x 1/4" (872 000)	10' x 1/4" (872 000)	10' x 1/4" (872 000)	20' x 1/4" (874 000)	20' x 1/4" (874 000)	20' x 1/4" (874 000)	10' x 1/4" (872 000)	10' x 1/4" (872 000)
<b>GREASE HANDLE</b>	413 077	413 077	413 077	413 077	413 077	413 077	413 077	413 077	413 077
<b>GREASE HANDLE SWIVEL</b>	Straight (1109)	Z-swivel (1105)	Z-swivel (1105)	Z-swivel (1105)	Z-swivel (1105)	Z-swivel (1105)	Z-swivel (1105)	Z-swivel (1105)	Z-swivel (1105)
<b>1/4" QUICK AIR COUPLER</b>	-	930F04	930F04	930F04	930F04	930F04	930F04	930F04	930F04
<b>1/4" QUICK AIR NIPPLE</b>	-	933M04	933M04	933M04	933M04	933M04	933M04	933M04	933M04
<b>1/4" MINI FILTER REGULATOR COMBO</b>	-	955	955	955	955	955	955	955	955
<b>1/4" PUMP TO FR COMBO CONNECTOR</b>	-	2051	2051	2051	2051	2051	2051	2051	2051
<b>BAND DOLLY</b>	-	-	-	1304	-	-	1304	-	-
<b>TWO WHEEL CART</b>	1301	-	1301	-	-	1301	-	-	-
<b>STANDARD DUTY PLATFORM TRUCK</b>	-	-	-	-	-	-	-	-	1307



Heavy-Duty double acting pumps that combine high pressure (60:1 pressure ratio) and volume delivery. Recommended for use in distribution and greasing systems that include pipe lines, hose reels, etc. with up to 2 simultaneous use outlets even though the number of outlets in the system can be higher. Very reliable pump, it has a removable screen filter at the grease intake for eliminating dirt and impurities that could damage the pump, and a built in filter at the air inlet connection. Includes a height adjustable 2" NPTM bung adaptor.

#### FLUIDS HANDLED

- Grease up to NLGI-2.

#### MARKETS SERVED

- Heavy-Duty service shops.
- Fleet service.
- Lube trucks.
- Mining and construction.
- In-plant.
- Railroad and mass transit.

#### MODELS

PART No.	APPLICATION	WEIGHT
<b>402 050</b>	40 lb (20 kg) pails with bung adaptor.	14.3 lb (6,5 kg)
<b>332</b>	120 lb (50 kg) drum with bung adaptor.	16.5 lb (7,5 kg)
<b>334</b>	400 lb (185 kg) drum with bung adaptor.	18.8 lb (8,5 kg)

#### TECHNICAL DATA

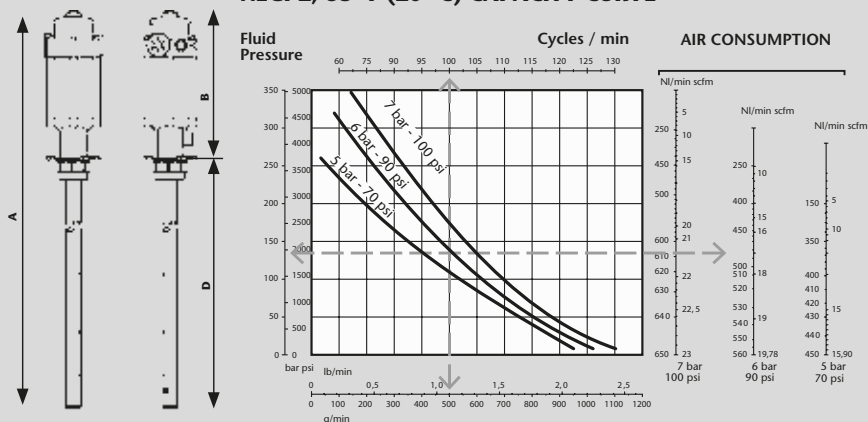
Pump ratio	60:1
Air pressure operating range	20 to 140 psi (1,5 to 10 bar)
Air consumption (1)	16.5 scfm (475 NI/min)
Maximum fluid outlet pressure	8,500 psi (600 bar)
Air motor diameter	3" (75 mm)
Air motor stroke	3" (75 mm)
Delivery at 100 cpm	1.1 lb/min (500 g/min)
Maximum free flow delivery (2)	2.6 lb/min (1.200 g/min)
Air inlet	3/8" NTPF
Fluid outlet	3/8" NTPF
Wetted and seal materials	Steel / PTFE / Polyurethane
Noise level (3)	85 dB
Manual	840 807

#### DIMENSIONS Inches - (mm)

PART No.	402 050	332	334
A	31 1/2" (806)	40 1/2" (1.020)	48" (1.215)
B	11 1/2" (290)	11 1/2" (290)	11 1/2" (290)
C	1 1/4" (30)	1 1/4" (30)	1 1/4" (30)
D	20" (516)	29" (730)	36 1/2" (925)

- (1) Maximum air consumption with 100 psi (7 bar) air inlet pressure, NLGI-2 grease at 68 °F (20 °C) and 100 cpm.  
(2) Maximum free delivery at 100 psi (7 bar). NLGI-2 grease.  
(3) Maximum noise level measured at 3' (1 m) from the pump, 100 psi (7 bar) air pressure and free delivery.

#### NLGI-2, 68 °F (20 °C) CAPACITY CURVE



## STATIONARY PUMPS FOR CENTRAL SUPPLY SYSTEMS AND REEL INSTALLATIONS

02

GREASE  
PUMPS

### Part No. 336

PUMPMASTER 3+3 System for 120 lb open top keg.

#### Includes the following:

Part No. 332: 60:1 ratio PM3+3 pump with cover mounting adaptor.

Part No. 1936: Deluxe drum cover for 120 lb pail with handle

Part No. 964: Follower plate for 120 lb drum, with rubber grommet and wiper.

Part No. 901: Connection hose installation hook up kit.

### Part No. 338

PUMPMASTER 3+3 System for 400 lb open top drum.

#### Includes the following:

Part No. 334: 60:1 ratio PM3+3 pump with cover mounting adaptor.

Part No. 1938: Deluxe drum cover for 400 lb pail with handle.

Part No. 966: Follower plate for 400 lb drum, with rubber grommet and wiper.

Part No. 901: Connection hose installation hook up kit.



338

## PUMPMASTER 3+3 PORTABLE GREASE PUMP PACKAGES FOR 35 LB PAILS

PART No.	402 101	402 111	402 121
<b>PUMPMASTER 3+3 - 60:1 PUMP</b>	402 050	402 050	402 050
<b>PAIL COVER</b>	1934	1934	1934
<b>FOLLOWER PLATE</b>	962	962	962
<b>DELIVERY HOSE</b>	10' x 1/4" (872 000)	10' x 1/4" (872 000)	10' x 1/4" (872 000)
<b>GREASE HANDLE</b>	413 077	413 077	413 077
<b>GREASE HANDLE SWIVEL</b>	Z-swivel (1105)	Z-swivel (1105)	Z-swivel (1105)
<b>3/8" QUICK AIR COUPLER</b>	930F06	930F06	930F06
<b>3/8" QUICK AIR NIPPLE</b>	933M06	933M06	933M06
<b>3/8" MINI FILTER REGULATOR COMBO</b>	957	957	957
<b>3/8" PUMP TO FR COMBO CONNECTOR</b>	2052	2052	2052
<b>PUMP TO HOSE BUSHING</b>	2060	2060	2060
<b>CARRYING HANDLE</b>	2020	2020	2020
<b>BAND DOLLY</b>	-	-	1302
<b>TWO WHEEL CART</b>	-	1301	-



402 111

402 101

## PUMPMASTER 3+3 PORTABLE GREASE PUMP PACKAGES FOR 120 LB KEGS

PART No.	333 101	333 141	333 111	333 131
<b>PUMPMASTER 3+3 - 60:1 PUMP</b>	332	332	332	332
<b>KEG COVER</b>	1936	1936	1936	1936
<b>FOLLOWER PLATE</b>	964	964	964	964
<b>DELIVERY HOSE</b>	10' x 1/4" (872 000)	10' x 1/4" (872 000)	10' x 1/4" (872 000)	10' x 1/4" (872 000)
<b>GREASE HANDLE</b>	413 077	413 077	413 077	413 077
<b>GREASE HANDLE SWIVEL</b>	Z-swivel (1105)	Z-swivel (1105)	Z-swivel (1105)	Z-swivel (1105)
<b>3/8" QUICK AIR COUPLER</b>	930F06	930F06	930F06	930F06
<b>3/8" QUICK AIR NIPPLE</b>	933M06	933M06	933M06	933M06
<b>3/8" MINI FILTER REGULATOR COMBO</b>	957	957	957	957
<b>3/8" PUMP TO FR COMBO CONNECTOR</b>	2052	2052	2052	2052
<b>PUMP TO HOSE BUSHING</b>	2060	2060	2060	2060
<b>BAND DOLLY</b>	-	1304	-	-
<b>TWO WHEEL CART</b>	-	-	1301	-
<b>FOUR WHEEL CART</b>	-	-	-	1303



333 131

333 111



## PUMPMASTER 3+3 GREASE PUMP PACKAGES FOR 400 LB DRUMS



335 101



335 161



311 001

PART No.	335 101	335 151	335 161	311 001
PUMPMASTER 3+3 – 60:1 PUMP	334	334	334	334
DRUM COVER	1938	1938	1938	1938
FOLLOWER PLATE	966	966	966	966
DELIVERY HOSE	10' x 1/4" (872 000)	10' x 1/4" (872 000)	10' x 1/4" (872 000)	-
HOSE REEL	-	-	-	30' x 1/4" (1431)
GREASE HANDLE	413 077	413 077	413 077	413 077
GREASE HANDLE SWIVEL	Z-swivel (1105)	Z-swivel (1105)	Z-swivel (1105)	Z-swivel (1105)
3/8" QUICK AIR COUPLER	930F06	930F06	930F06	930F06
3/8" QUICK AIR NIPPLE	933M06	933M06	933M06	933M06
3/8" MINI FILTER REGULATOR COMBO	957	957	957	957
3/8" PUMP TO FR COMBO CONNECTOR	2052	2052	2052	2052
PUMP TO HOSE BUSHING	2060	2060	2060	2060
X-FRAME DOLLY	-	1306	-	-
STANDARD DUTY PLATFORM TRUCK	-	-	1307	-
HEAVY DUTY PLATFORM TRUCK	-	-	-	1305

## HEAVY-DUTY PRESSURE TRANSFER PUMP

## PM45 HEAVY-DUTY SERIES

02

GREASE  
PUMPS

Moderate pressure, high delivery double acting pumps for transfer of grease up to NLGI-2. Also recommended for use with low viscosity grease in centralized grease systems that do not require a high pressure output and in large distribution systems of high viscosity oils. Pumps are available with tube length to fit commercial 400 lb (185 kg) drums and they are available for flange cover mount to 400 lb (185 kg) open drums using a drum cover.

### FLUIDS HANDLED

- Grease up to NLGI-2.
- High viscosity oil.

### MARKETS SERVED

- Lube trucks.
- Mining and construction.
- In-plant.

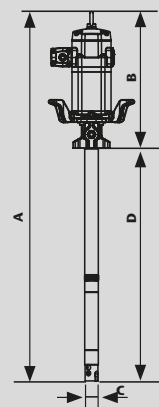
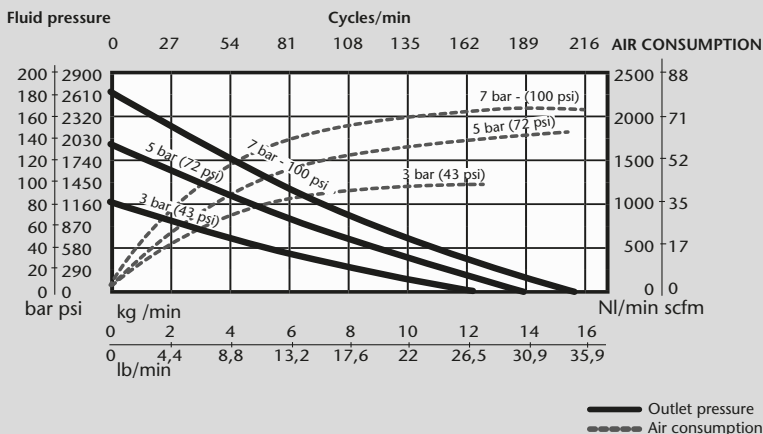
MODELS		
PART No.	APPLICATION	WEIGHT
531 211	400 lb (185 kg) drum, flange mounted.	50 lb (24 kg)

TECHNICAL DATA	
Pump ratio	25:1
Continuous duty flow rate	13.5 lb/min (6 kg/min)
Maximum free flow	30 lb/min (13,7 kg/min)
Air pressure operating range	20 - 200 psi (1,5 - 14 bar)
Maximum outlet pressure	5,000 psi (350 bar)
Air motor effective diameter	4 1/2" (115 mm)
Air motor stroke	4" (100 mm)
Air consumption (1)	47 scfm (1.340 NI/min)
Air inlet	1/2" NTPF
Fluid outlet	1/2" NTPF
Wetted and seal materials	Cast Iron / Steel / Hard chromed steel / UHMWPE / NBR
Noise level (2)	80 dB
Manual	853 820

(1) Air consumption at 70 psi (5 bar) air pressure, NLGI-0 grease at 68 °F (20 °C) and 80 cpm.  
(2) Noise level measured at 3' (1 m) from the pump, 100 psi (7 bar) air pressure and free delivery.

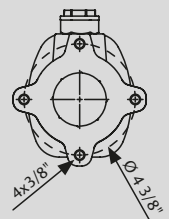


### NLGI-0, 70 °F (21 °C) CAPACITY CURVE



### DIMENSIONS Inches - (mm)

PART No.	531 211
A	51" (1.357)
B	17 1/2" (502)
C	2" (50)
D	33 1/2" (855)



High flow double acting pumps with high pressure delivery for use in lubrication systems that require a combination of high flow and pressure delivery. Pumps can be used with grease up to NLGI-2 viscosity. These pumps can be used in medium length systems that include simultaneous operation outlets.

Pumps are available for cover mount to 120 lb (50 kg) and 400 lb (185 kg) open drums and for horizontal and side mount on grease totes, bags and tanks.

#### FLUIDS HANDLED

- Grease up to NLGI-2.

#### MARKETS SERVED

- Heavy-Duty service shops.
- Fleets.
- Mining and construction.
- Railroad and mass transit.
- In-plant.
- Marine.



MODELS		
PART No.	APPLICATION	WEIGHT
531 411	400 lb (185 kg) drum, flange mounted.	55 lb (25 kg)
531 421	120 lb (50 kg) drum, flange mounted.	49 lb (22 kg)
531 431*	Bulk tote	57 lb (26 kg)

\* Includes adaptor 753 110 to fit a 3" cam-lock connector for use with totes, grease bags and tanks.

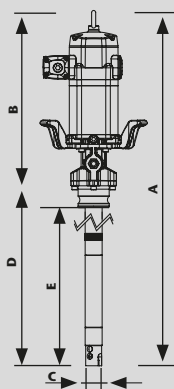
#### TECHNICAL DATA

Pump ratio	40:1
Continuous duty flow rate	7.5 lb/min (3,5 kg/min)
Maximum free flow	22 lb/min (11 kg/min)
Air pressure operating range	20 - 200 psi (1,5 - 14 bar)
Maximum outlet pressure	8,000 psi (560 bar)
Air motor effective diameter	4 1/2" (115 mm)
Air motor stroke	4" (100 mm)
Air consumption (1)	26.5 scfm (750 NI/min)
Air inlet	1/2" NTPF
Fluid outlet	1/2" NTPF
Wetted and seal materials	Cast Iron / Steel / Hard chromed steel / UHMW PE / NBR / PTFE
Noise level (2)	80 dB
Manual	853 814

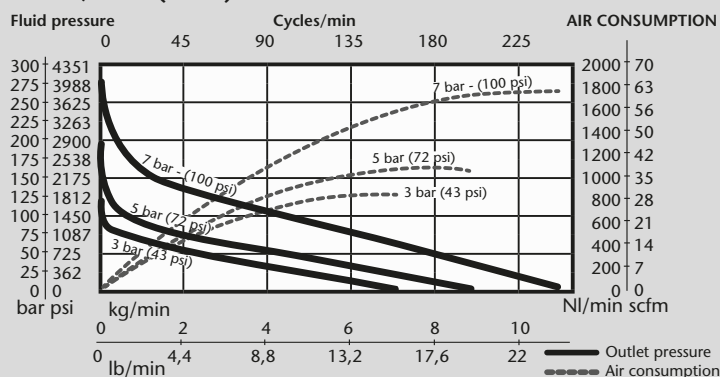
(1) Air consumption at 70 psi (5 bar) air pressure, NLGI-2 grease at 68 °F (20 °C) and 80 cpm.  
(2) Noise level measured at 3' (1 m) from the pump, 100 psi (7 bar) air pressure and free delivery.

#### DIMENSIONS Inches - (mm)

PART No.	531 411	531 421	531 431*
A	51" (1.357)	43" (1.152)	36 1/2" (992)
B	17 1/2" (502)	17 1/2" (502)	17 1/2" (502)
C	2" (50)	2" (50)	2" (50)
D	33 1/2" (855)	25 1/2" (650)	19" (490)
E	-	-	16" (410)



#### NLGI-2, 70 °F (21 °C) CAPACITY CURVE



## HEAVY-DUTY HIGH PRESSURE PUMPS

## PM45 HEAVY-DUTY SERIES

02

GREASE  
PUMPS

High pressure double acting pump for use in applications requiring extra pressure output cold temperatures or when low air pressure could limit pump performance. Pumps can be used with grease up to NLGI-2 viscosity. These pumps can be used in large distribution systems that include simultaneous operation outlets.

Pumps are available for cover mount to 120 lb (50 kg) and 400 lb (185 kg) open drums and for horizontal and side mount on grease totes, bags and tanks.

### FLUIDS HANDLED

- Grease up to NLGI-2.

### MARKETS SERVED

- Heavy-Duty service shops.
- Fleets.
- Lube trucks.
- Mining and construction.
- Railroad and mass transit.
- In-plant.
- Marine

### MODELS

PART No.	APPLICATION	WEIGHT
<b>531 711</b>	400 lb (185 kg) drum, flange mounted.	55 lb (25 kg)
<b>531 721</b>	120 lb (50 kg) drum, flange mounted.	48.5 lb (22 kg)
<b>531 731*</b>	Bulk tote	46.3 lb (21 kg)

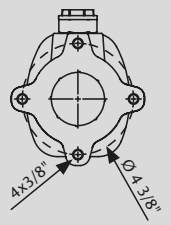
\* Includes adaptor 753 110 to fit a 3" cam-lock connector for use with totes, grease bags and tanks.

### TECHNICAL DATA

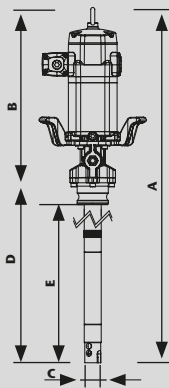
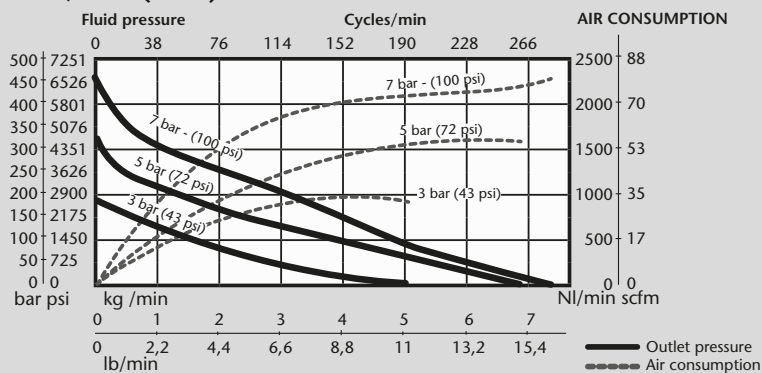
Pump ratio	70:1
Continuous duty flow rate	4.5 lb/min (2 kg/min)
Maximum free flow	16.5 lb/min (7,5 kg/min)
Air pressure operating range	20 - 100 psi (1,5 - 7 bar)
Maximum outlet pressure	7,000 psi (490 bar)
Air motor effective diameter	4 1/2" (115 mm)
Air motor stroke	4" (100 mm)
Air consumption (1)	33 scfm (925 NI/min)
Air inlet	1/2" NTPF
Fluid outlet	1/2" NTPF
Wetted and seal materials	Cast Iron / Steel / Hard chromed steel / UHMW PE / NBR / PTFE
Noise level (2)	80 dB
Manual	853 815

(1) Air consumption at 70 psi (5 bar) air pressure, NLGI-2 grease at 68 °F (20 °C) and and 80 cpm.

(2) Noise level measured at 3' (1 m) from the pump, 100 psi (7 bar) air pressure and free delivery.



### NLGI-2, 70 °F (21 °C) CAPACITY CURVE



DIMENSIONS Inches - (mm)			
PART No.	531 711	531 721	531 731*
A	51" (1.357)	43" (1.152)	36 1/2" (992)
B	17 1/2" (502)	17 1/2" (502)	17 1/2" (502)
C	2" (50)	2" (50)	2" (50)
D	33 1/2" (855)	25 1/2" (650)	19" (490)
E	-	-	16" (410)

Moderate pressure, very high volume double acting grease pump for use in transfer applications. These pumps can be used with all types of grease up to NLGI-2.

Pumps are available for horizontal mounting on grease totes and grease bags and they include an adaptor to fit a 3" cam-lock adaptor. They can be used with 400 lb (185 kg) drums when mounted to air pneumatic inductor (see «Grease pump systems» section in this chapter.)



## FLUIDS HANDLED

- Grease up to NLGI-2.

## MARKETS SERVED

- Mining and construction.
- In-plant grease transfer.
- Railroad and mass transit.

MODELS		
PART No.	APPLICATION	WEIGHT
532 131	Bulk tote, includes 3" cam-lock adaptor	39 lb (19 kg)

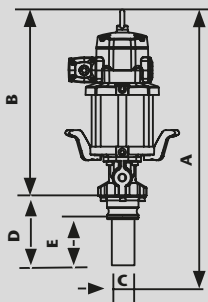
  

TECHNICAL DATA	
Pump ratio	12:1
Continuous duty flow rate	33 lb/min (15 kg/min)
Maximum free flow	88 lb/min (40 kg/min)
Air pressure operating range	20 - 100 psi (1,5 - 7 bar)
Maximum outlet pressure	1,200 psi (84 bar)
Air motor effective diameter	6" (150 mm)
Air motor stroke	4" (100 mm)
Air consumption (1)	39 scfm (1.100 NI/min)
Air inlet	1/2" NPTF
Fluid outlet	1" NPTF
Wetted and seal materials	Cast Iron / Steel / Hard chromed steel / UHMWPE / NBR / PTFE / Polyurethane
Noise level (2)	80 dB
Manual	853 816

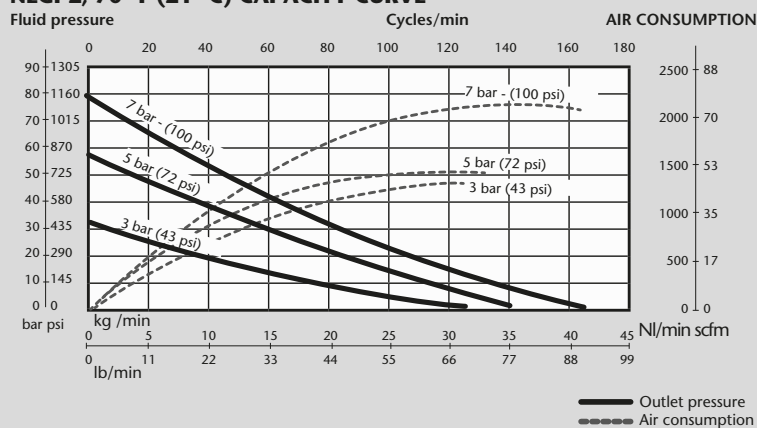


- (1) Air consumption at 70 psi (5 bar) air pressure, NLGI-2 grease at 68 °F (20 °C) and 60 cpm.  
(2) Noise level measured at 3' (1 m) from the pump, 100 psi (7 bar) air pressure and free delivery.

DIMENSIONS Inches - (mm)	
PART No.	532 131
A	29" (742)
B	20" (516)
C	2 3/4" (70)
D	9" (226)
E	5 3/4" (146)



## NLGI-2, 70 °F (21 °C) CAPACITY CURVE





## HEAVY-DUTY HIGH PERFORMANCE PUMPS

## PM60 HEAVY-DUTY SERIES

02

GREASE  
PUMPS

Very high pressure and high volume delivery double acting pump for use in applications that require extra pressure and volume output and where cold temperatures or low air pressure could limit pump performance. Pumps can be used with grease up to NLGI-2 viscosity. These pumps can be used in large distribution systems that include simultaneous operation outlets.

Pumps are available for cover mount to 120 lb (50 kg) and 400 lb (185 kg) open drum and for side mount on grease totes.

### FLUIDS HANDLED

- Grease up to NLGI-2.

### MARKETS SERVED

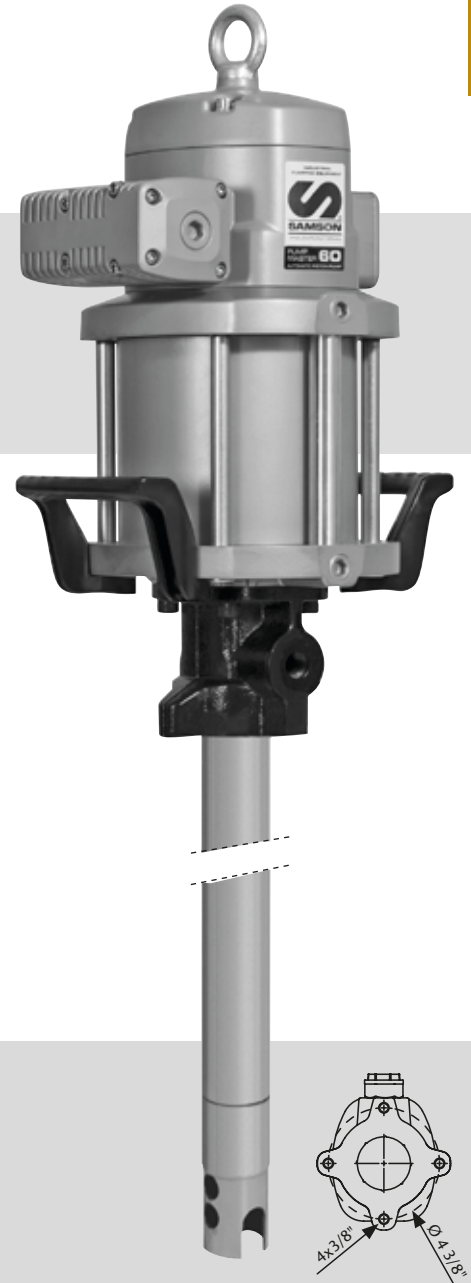
- Mining and construction.
- In-plant.
- Railroad and mass transit.
- Lube trucks.
- Fleets.

MODELS		
PART No.	APPLICATION	WEIGHT
532 811	400 lb (185 kg) drum, flange mounted	60 lb (27 kg)
532 821	120 lb (50 kg) drum, flange mounted	53 lb (24 kg)

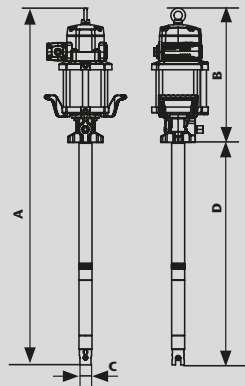
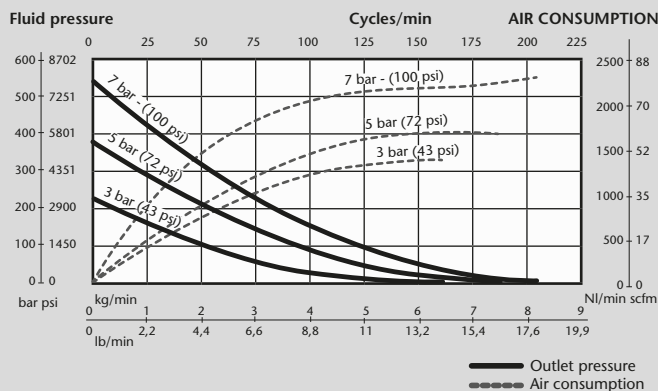
TECHNICAL DATA	
Pump ratio	80:1
Continuous duty flow rate	5.5 lb/min (2,5 kg/min)
Maximum free flow	17.6 lb/min (8 kg/min)
Air pressure operating range	20 - 100 psi (1,5 - 7 bar)
Maximum outlet pressure	8,000 psi (560 bar)
Air motor effective diameter	6" (150 mm)
Air motor stroke	4" (100 mm)
Air consumption (1)	35 scfm (1.000 NI/min)
Air inlet	1/2" NPTF
Fluid outlet	1/2" NPTF
Wetted and seal materials	Cast Iron / Steel / Hard chromed steel / UHMW PE / NBR / PTFE
Noise level (2)	80 dB
Manual	853 819

(1) Air consumption at 70 bar (5 bar) air pressure, NLGI-2 grease at 68 °F (20 °C) and 60 cpm.

(2) Noise level measured at 3' (1 m) from the pump, 100 psi (7 bar) air pressure and free delivery.



### NLGI-2, 70 °F (21 °C) CAPACITY CURVE



DIMENSIONS Inches - (mm)			
PART No.	532 811	532 821	
A	53 1/2" (1.371)	45 1/2" (1.166)	
B	20" (516)	20" (516)	
C	2" (50)	2" (50)	
D	33 1/2" (855)	25 1/2" (650)	

## PUMPMASTER 45 PUMP SYSTEMS

PM45 pump systems for 120 and 400 lb (50 and 185 kg) drums, totes and grease bins.



534 711

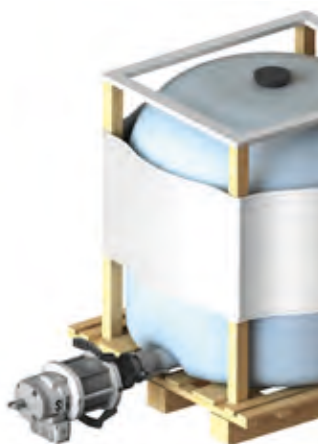
	KIT PART No.	PUMP	RATIO	COVER	FOLLOWER PLATE	CONNECTION KIT	CAMLOCK FEMALE	CAMLOCK MALE
<b>120 lb (50 kg) KEG MOUNTED PUMP KIT</b>	<b>534 420</b>	531 421	40:1	418 017	417 011	534 103	-	-
	<b>534 720</b>	531 721	70:1	418 017	417 011	534 103	-	-
<b>400 lb (185 kg) DRUM MOUNTED PUMP KIT</b>	<b>534 410</b>	531 411	40:1	418 026	417 009	534 103	-	-
	<b>534 710</b>	531 711	70:1	418 026	417 009	534 103	-	-
	<b>534 210</b>	531 211	25:1	418 026	417 009	534 103	-	-
<b>TANK SIDE MOUNTED PUMP KIT</b>	<b>534 240</b>	531 211	25:1	-	-	534 103	950 358	753 110
	<b>534 440</b>	531 411	40:1	-	-	534 103	950 358	753 110
	<b>534 740</b>	531 711	70:1	-	-	534 103	950 358	753 110
<b>TANK HORIZONTAL MOUNTED PUMP KIT</b>	<b>534 441</b>	531 431	40:1	-	-	534 103	950 358	(1)
	<b>534 741</b>	531 731	70:1	-	-	534 103	950 358	(1)

1) Included with pump.

SAMSON recommends using an air filter and pressure regulator at the pump air inlet and a high pressure needle valve between the grease delivery hose and the grease distribution line.

## PUMPMASTER 60 PUMP SYSTEMS

PM60 pump systems for 120 lb (50 kg) and 400 lb (185 kg) drums, totes and grease bins mounting.

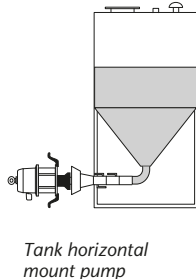
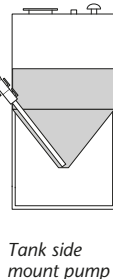
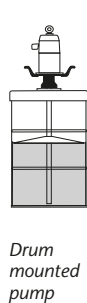


534 141

	KIT PART No.	PUMP	RATIO	COVER	FOLLOWER PLATE	CONNECTION KIT	CAMLOCK FEMALE	CAMLOCK MALE
<b>120 lb (50 kg) KEG MOUNTED PUMP KIT</b>	<b>534 820</b>	532 821	80:1	418 017	417 011	534 103	-	-
<b>400 lb (185 kg) DRUM MOUNTED PUMP KIT</b>	<b>534 810</b>	532 811	80:1	418 026	417 009	534 103	-	-
<b>TANK SIDE MOUNTED PUMP KIT</b>	<b>534 840</b>	532 811	80:1	-	-	534 103	950 358	753 110
<b>TANK HORIZONTAL MOUNTED PUMP KIT</b>	<b>534 141</b>	532 131	12:1	-	-	539 009	950 358	(1)

(1) Included with pump.

SAMSON recommends using an air filter and pressure regulator at the pump air inlet and a high pressure needle valve between the grease delivery hose and the grease distribution line.



PUMP HOIST

### Part No. 391 022

Maximum utility air operated hoist lifts and lowers pump, making drum changes easier, faster and safer. Hoist arm adjusts to fit different pump heights and swings a full 360°, serving one or more pumps. It can be used with 400 lb and 120 lb drums.

Maximum height raised: 104".

Minimum height lowered: 64" mm.

391 022

PUMPMASTER 45 and PUMPMASTER 60 grease pumps mounted onto an air operated inductor plate for use with high viscosity, hard to pump greases directly from 400 lb drum. When the double lip inductor plate is attached to the lower end of the pump tube, it exerts pneumatic, weight and atmospheric pressure on the material forcing pump priming. The inductor plate also serves as protection against contaminants and eliminates material waste. The inductor system includes guide rods, drum retaining mechanism and a control box with the following features:

- On/ Off control of the pump.
- Up / Down control of the ram for easy drum exchange.
- Two independent air pressure regulators, one for the pump and the other for the power ram cylinders.
- Pump / Ram independent air pressure gauge.
- Empty drum shut-off safety feature.
- Automatic Vacuum release.

### Part No. 534 421

PM45 - 40:1 pump system with air operated double post inductor for 400 lb drums. Includes pump 531 421.

### Part No. 534 721

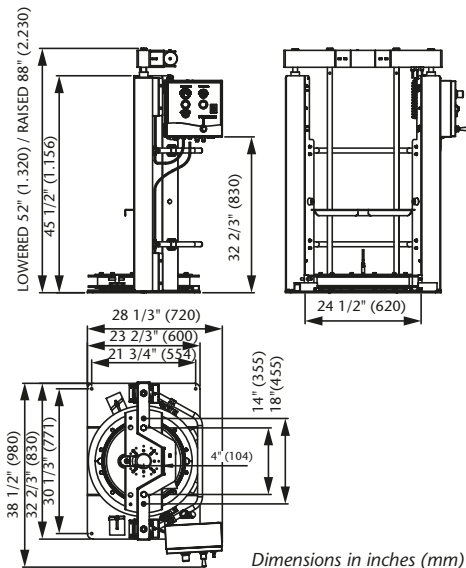
PM45 - 70:1 pump system with air operated double post inductor for 400 lb drums. Includes pump 531 721.

### Part No. 534 121

PM60 - 12:1 pump system with air operated double post inductor for 400 lb drums. Includes pump 532 131.

### Part No. 534 821

PM60 - 80:1 pump system with air operated double post inductor for 400 lb drums. Includes pump 532 821.



## PUMPMASTER 45 AND 60 HEAVY-DUTY PACKAGES

02

GREASE  
PUMPS

534 811



### PUMP SYSTEMS WITH PNEUMATIC PUMP HOIST AND GRAVITY INDUCTOR FOR 400 LB DRUMS

PUMPMASTER 45 and PUMPMASTER 60 grease pumps mounted onto a gravity fed follower plate and an air operated pump hoist for use with 400 lb drums.

The air operated pump hoist lifts and lowers the pump, making drums changes easier, faster and safer. The pump lower end is rigidly fixed to a follower plate with a single rubber lip. The weight of the pump, pump bracket and follower plate plus the atmospheric pressure push the assembly against the fluid eliminating channeling and air pocket, keeping lubricant free from contaminants, minimizing waste and aiding pump priming.

#### Part No. 534 411

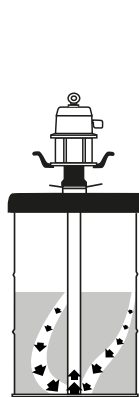
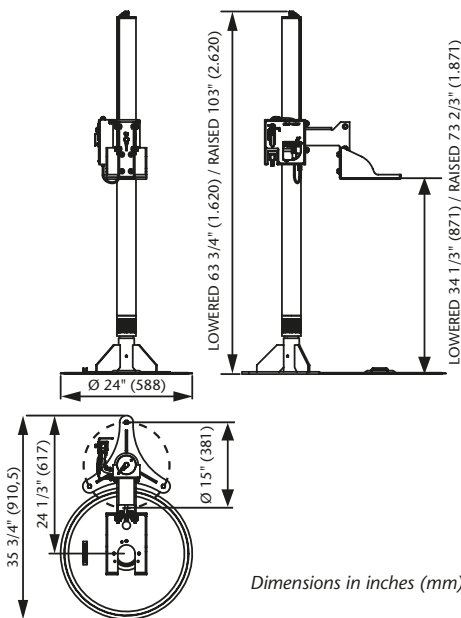
PM45 - 40:1 pump system with air operated double post inductor for 400 lb drums. Includes pump 531 411 and hose connection kit Part No. 534 103.

#### Part No. 534 711

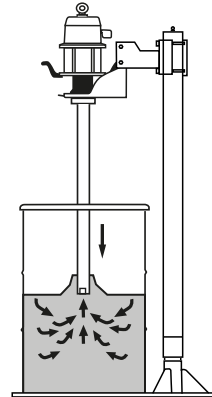
PM45 - 70:1 pump system with air operated double post inductor for 400 lb drums. Includes pump 531 711 and hose connection kit Part No. 534 103.

#### Part No. 534 811

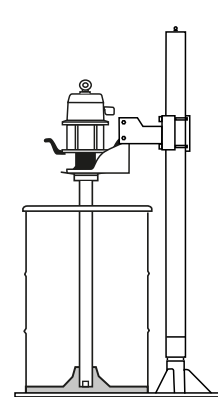
PM60 - 80:1 pump system with air operated double post inductor for 400 lb drums. Includes pump 532 811 and hose connection kit Part No. 534 103.



No inductor.  
Air pockets and channels  
can be formed.



With inductor plate.  
Pump is permanently primed.



Inductor plates aid to  
minimize waste left in  
the drum.


**534 103**

Pump not included.

## HOSE CONNECTION KITS

### Part No. 903

High pressure connection hose installation hook-up kit for PUMPMaster 3+3 60:1 grease pump.

#### Includes the following:

Part No. 812: 2' air hose, 3/8" NPTM both ends  
Part No. 930F06: Quick air coupler, 3/8" NPTF  
Part No. 933M06: Quick air nipple, 3/8" NPTM  
Part No. 884: 5' high pressure 3/8" hose, 3/8" NPTM both ends.

### Part No. 534 103

High pressure connection hose installation hook-up kit for PUMPMaster 45 and PUMPMaster 60 high pressure grease pumps.

#### Includes the following:

Part No. 823: 5' air hose, 1/2" NPTM both ends  
Part No. 935F08: Quick air coupler, 1/2" NPTF  
Part No. 936M08: Quick air nipple, 1/2" NPTM  
Part No. 884: 5' high pressure 3/8" hose, 3/8" NPTM both ends  
Part No. 1981: 90° swivel, 1/2" NPTF x 1/2" NPTM.

### Part No. 539 009

Medium pressure connection hose installation hook-up kit for PUMPMaster 60 - 12:1 high delivery, medium pressure grease pumps.

#### Includes the following:

Part No. 823: 5' air hose, 1/2" NPTM both ends  
Part No. 935F08: Quick air coupler, 1/2" NPTF  
Part No. 936M08: Quick air nipple, 1/2" NPTM  
Part No. 863: 5' medium pressure 1" hose, 1" NPTM both ends  
Part No. 1981: 90° swivel, 1/2" NPTF x 1/2" NPTM.


**1936**

## DELUXE DRUM COVERS

2" NPTF bung opening, allows mounting a PM3 or a PM3+3 pump to an open top 35 lb pail, 120 lb or a 400 lb drum.

### Part No. 1934

Deluxe drum cover for 35 lb pails.

### Part No. 1936

Deluxe cover for 120 lb open top kegs.

### Part No. 1938

Deluxe cover for 400 lb open top drums.


**418 026**
**418 017**
**360 133**

## HEAVY DUTY DRUM COVERS

Allows mounting a flange mounted PM45 or PM60 pump to an open top drum.

### Part No. 418 017

Deluxe cover for 120 lb open top kegs.

### Part No. 418 026

Deluxe cover for 400 lb open top drums.

### Part No. 360 133

Converter for flange type drum cover. Converts flange mount to standard 2" NPTF bung opening, thus permits the use of bung mounted type pumps with Heavy Duty drum cover.

## FOLLOWER PLATES

### For PUMPMaster 3 and 3+3 pumps

#### Part No. 962

Follower plate for 35 lb pails.

#### Part No. 964

Follower plate for 120 lb kegs.

#### Part No. 966

Follower plate for 400 lb drums.

### For PUMPMaster 45 and 60 pumps

#### Part No. 417 011

Heavy-duty follower plate for 120 lb kegs.

#### Part No. 417 009

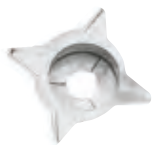
Heavy-duty follower plate for 400 lb drums.


**964**
**966**
**417 011**
**417 009**



410 001

753 110



2074



2013



## BUNG BUSHING ADAPTORS AND CAM-LOCK

### Part No. 410 001

Bung bushing adaptor for PM3 55:1 pressure ratio pumps.

### Part No. 410 002

Bung bushing adaptor for PM3+3 60:1 pressure ratio pumps.

### Part No. 609 104

Bung bushing adaptor for all PM45 grease pumps and for PM60 80:1 pressure ratio pump.

### Part No. 753 110

3" cam-lock adaptor. Allows mounting PM45 and PM60 to tanks, totes and fluid bags fitted with a standard 3" Cam-Lock connection.



1304



1306



1301



1303



1307



1305

## SHUT OFF VALVES

### HIGH PRESSURE NEEDLE VALVES

10,000 psi

Part No.

2077

1/2" NPTF

2089

3/4" NPTF

2093

1" NPTF

### MEDIUM PRESSURE BALL VALVES

2,000 psi

Part No.

2074

1/2" NPTF

2083

3/4" NPTF

2090

1" NPTF

2082

1-1/2" NPTF

### LOW PRESSURE BALL VALVES

600 psi

Part No.

2013

1/4" NPT F

2088

1/2" NPTF

2091

3/4" NPTF

2084

1" NPTF

## DRUM TROLLEYS AND DOLLIES

### Part No. 1301

Two wheel trolley for 35, 50 and 120 lb kegs.

### Part No. 1302 (not shown)

Band type dolly for 35 lb pail.

### Part No. 1303

Four wheel cart for 120 lb keg.

### Part No. 1304

Band Type dolly for 120 lb keg.

### Part No. 1307

Standard Duty platform truck for 400 lb drum.

### Part No. 1305

Heavy Duty 3 wheel platform truck for 400 lb drum. Swivel wheel with locking bracket and two pneumatic tires.

### Part No. 1399

Mounting plate required for mounting a hose reel to truck part number 1305.

### Part No. 1306

X-frame type dolly for 400 lb drum.

### Part No. 1312

Platform base for kegs.

### Part No. 360 135 (not shown)

Hose reel bracket for 1307 platform truck.

### Part No. 360 134 (not shown)

Pump bracket for 1307 platform truck (require wall bracket specific to the pump being mounted).



1312

GREASE PUMP MOUNTING ACCESSORIES QUICK REFERENCE CHART

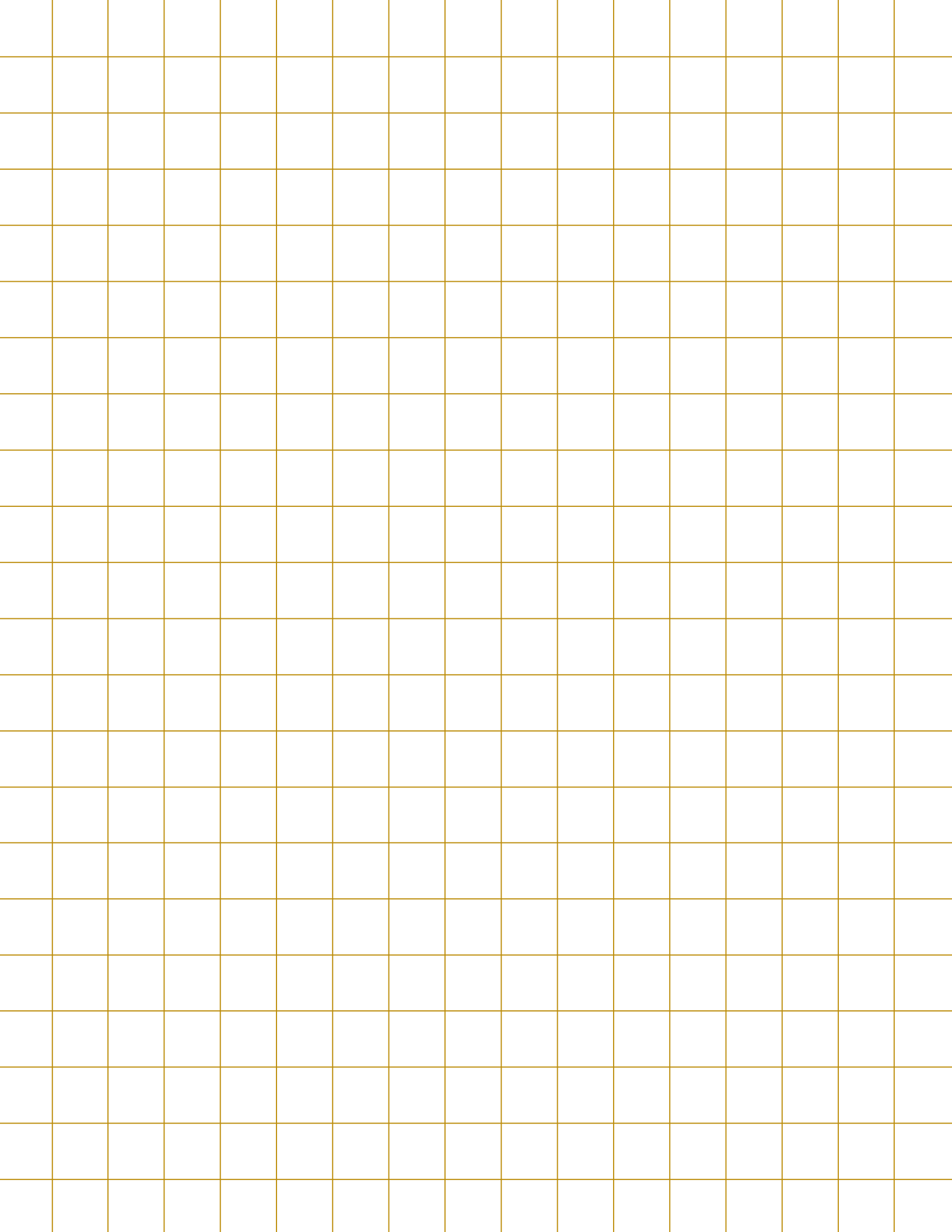
PUMP	PUMPMASTER 3+3	PUMPMASTER 45	PUMPMASTER 45	PUMPMASTER 45	PUMPMASTER 60	PUMPMASTER 60
RATIO	60:1	25:1	40:1	70:1	12:1 (1)	80:1
BUNG ADAPTOR	410 002	(2)	(2)	(2)	(2)	(2)
CONNECTION HOSE KIT	903	534 103	534 103	534 103	539 009	534 103
DRUM COVER 400 LB (185 KG)	1938	418 026	418 026	418 026	N/A	418 026
DRUM COVER 120 LB (50 KG)	1936	N/A	418 017	418 017	N/A	418 017
FOLLOWER PLATE 400 LB (185 KG)	966	417 009	417 009	417 009	N/A	417 009
FOLLOWER PLATE 120 LB (50 KG)	964	N/A	417 011	417 011	N/A	417 011
POWER RAM	N/A	N/A	391 000	391 000	391 000	391 000
SINGLE POST PUMP HOIST	N/A	N/A	391 022	391 022	N/A	391 022
CAM-LOCK ADAPTOR	N/A	N/A	753 110 (3)	753 110 (3)	753 110 (3)	753 110 (4)
CAM-LOCK CONNECTOR	N/A	N/A	950 358	950 358	950 358	N/A
AIR FILTER / REGULATOR	957	958	958	958	958	958
FRL	984	985	985	985	985	985
AIRLINE SHUTOFF VALVE	2088	2088	2088	2088	2088	2088
FLUID SHUTOFF VALVE	2077	2077	2077	2077	2093	2077
QUICK AIR COUPLER	930F06	935F08	935F08	935F08	935F08	935F08
QUICK AIR CONNECTOR	933M06	936M08	936M08	936M08	936M08	936M08
AIR CONNECTION ACCESSORIES I.D.	3/8" - 8 mm	1/2" - 12,5 mm	1/2" - 12,5 mm	1/2" - 12,5 mm	1/2" - 12,5 mm	1/2" - 12,5 mm

(1) PM60, 12:1 pump is only available for horizontal mount on tanks, totes and grease bags.

(2) Flange mounted pumps. No bung adaptor for fixing a pump to a cover.

(3) Included in short pumps for horizontal mount on tanks, totes and grease bags. Required for vertical mount on grease tanks (long pumps).

(4) For vertical mount on grease tanks only (long pumps).



## 03 AIR OPERATED PUMPS FOR OTHER SERVICE FLUIDS

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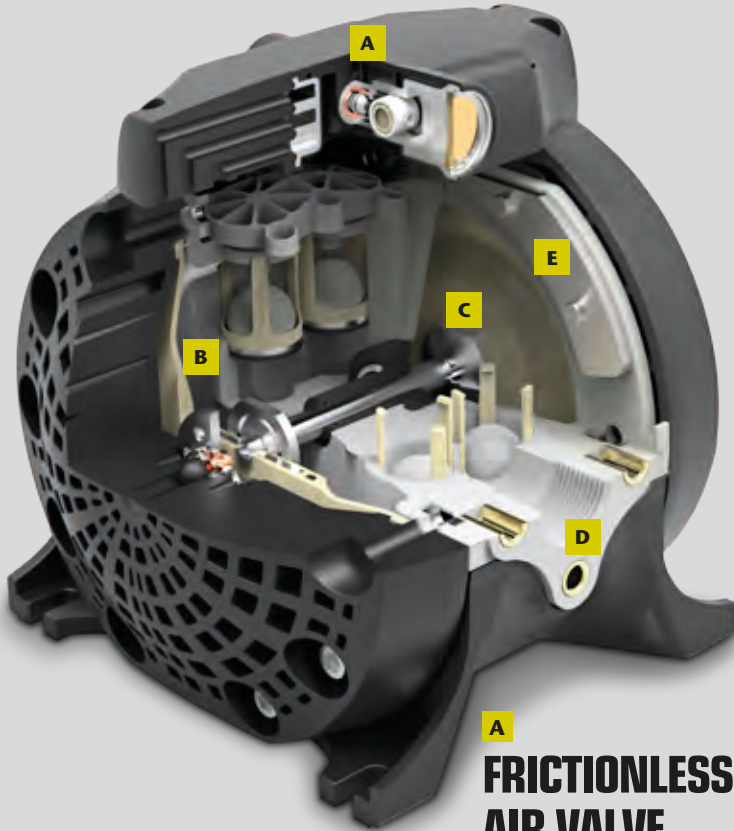
# SAMSON Directflo® PUMPS

## INNOVATIVE TECHNOLOGIES CREATE THE DIFFERENCE

Conventional air operated diaphragm pumps pump the fluid around the outside of the pump and compressed air acts on the inside face of the diaphragms. In Directflo® pumps the fluid is pumped through the center of the pump and compressed air acts on the outside face of the diaphragms.

03

DIAPHRAGM  
PUMPS



### SUPERIOR ALL-ROUND PUMPING PERFORMANCE

- Significant dry suction lift eliminates self-priming issues.
- Discharge fluids at up to 100 psi (7 bar), to pump medium viscosity fluids even over long pipe runs and significant heights.
- Efficient compressed air usage.



### A FRICTIONLESS PIVOTING AIR VALVE

- High operational reliability.
- Variable flow rate and pressure by adjusting the air pressure.
- Non stalling.
- Non icing.
- Self-cleaning.
- Extremely fast switching between strokes reduces air consumption and minimizes pulsations.
- Enables a short stroke pump design, for long diaphragm life.
- Tolerates dry, damp, dirty or oily air.

### B BALL CHECK VALVES ADJACENT TO DIAPHRAGMS

- Very fast valve action, even with viscous fluids. Together with the high speed frictionless pivoting air valve, this enables a short stroke pump design, for long diaphragm life.
- Enables superior pump suction and thus improves overall pump performance.

### C STRESS FREE DIAPHRAGM COUPLINGS

- Non-rigid sliding couplings between push rod and diaphragms prevent diaphragm and push rod stress.
- Long leak free diaphragm life.
- Fast and easy diaphragm service.

### D SINGLE PART MOLDED PUMP BODY

- Minimizes energy losses within the pump.
- No leaks.
- Compact.

### E FLANGE FASTENING PLATES

- Pumps with polypropylene central bodies are fitted with load spreading stainless steel flange fastening plates.
- Reduces the risk of damage to polypropylene bodies when flange bolts are over tightened.
- Enhances sealing in the areas between flange bolts reducing the risk of flange leaks.



# Directflo® AND Classicflo® PUMP RANGE COMPARATIVE CHART

## FLUIDS HANDLED

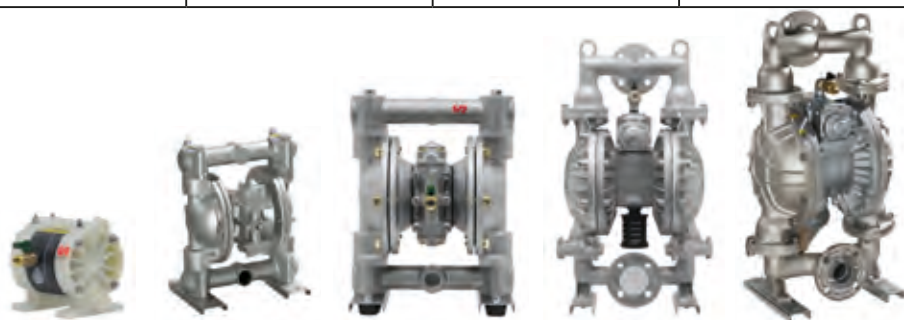
- Oils.
- Antifreeze, coolant.
- Windshield wash.
- Hydraulic fluids.
- Diesel.
- AdBlue® / DEF.
- Water.
- Waste oil.
- Waste antifreeze.

## MARKETS SERVED

- Car and truck dealers.
- Construction, mining.
- Rail way and mass transit.
- Lube trucks.
- Fleets.
- In-plant.
- Quick lubes.



Directflo® SERIES	DF30 PLASTIC	DF50 PLASTIC AND ALUMINUM	DF100 PLASTIC AND ALUMINUM	DF250 ALUMINUM
<b>PRESSURE RATIO</b>	1:1	1:1	1:1	1:1
<b>MAXIMUM FREE DELIVERY</b>	11 gal/min	14 gal/min	28 gal/min	66 gal/min
<b>MAXIMUM SUCTION LIFT</b>	26'	26'	23'	26'
<b>MINIMUM AIR PRESSURE</b>	20 psi	20 psi	20 psi	20 psi
<b>MAXIMUM AIR PRESSURE</b>	115 psi	115 psi	115 psi	115 psi
<b>SOLIDS IN SUSPENSION MAXIMUM SIZE</b>	1/8"	1/8"	3/16"	1/4"
<b>AIR INLET CONNECTION</b>	3/8" NPT	3/8" NPT	3/8" NPT	1/2" NPT
<b>FLUID OUTLET CONNECTION</b>	1/2" NPT	1/2" NPT	1" NPT	1 1/2" NPT
<b>FLUID INLET CONNECTION</b>	1/2" NPT	1/2" NPT	1" NPT	1 1/2" NPT
<b>MANUAL</b>	855 822	855 822	855 822	855 829



Classicflo® SERIES	2825 PLASTIC PUMP	2834 UL LISTED ALUMINUM PUMP	2835 ALUMINUM PUMP	2838 ALUMINUM PUMP	2840 ALUMINUM PUMP
<b>PRESSURE RATIO</b>	1:1	1:1	1:1	1:1	1:1
<b>MAXIMUM FREE DELIVERY</b>	3 gal/min	28 gal/min	46 gal/min	107 gal/min	164 gal/min
<b>MAXIMUM SUCTION LIFT</b>	5'	18'	18'	18'	18'
<b>MINIMUM AIR PRESSURE</b>	20 psi	20 psi	20 psi	20 psi	20 psi
<b>MAXIMUM AIR PRESSURE</b>	100 psi	100 psi	100 psi	100 psi	100 psi
<b>SOLIDS IN SUSPENSION MAXIMUM SIZE</b>	-	1/16"	3/16"	9/32"	5/15"
<b>AIR INLET CONNECTION</b>	1/4" NPT	3/8" NPT	3/8" NPT	1/2" NPT	1" NPT
<b>FLUID OUTLET CONNECTION</b>	1/4" NPT	1" NPT	1" NPT	1-1/2" NPT	Ansi flange and 2" NPT
<b>FLUID INLET CONNECTION</b>	1/4" NPT	1" NPT	1" NPT	1-1/2" NPT	Ansi flange and 2" NPT
<b>MANUAL</b>	M00188	M00190	M00191	M00192	M00193

## DIAPHRAGM PUMPS

**1/4" - 3 GAL/MIN**

**1/2" - 11 GAL/MIN**

**1/2" - 14 GAL/MIN**

03

DIAPHRAGM  
PUMPS



3 GALLONS PER MINUTE POLY  
Classicflo® SERIES PUMPS

**Part No. 2825**

3 gal/min maximum free flow capacity pump with Polypropylene chambers and PTFE diaphragms and check balls. 1/4" NPTF inlet and outlet ports, includes an air inlet valve. Suitable for water based fluids like antifreeze or windshield wash solutions.



11 GALLONS PER MINUTE POLY  
Directflo® SERIES PUMPS - DF30

**Part No. 553 164**

Directflo® Series 11 gal/min maximum free flow capacity pump with Polypropylene chambers, TPE diaphragms and PTFE check balls. 1/2" NPTF inlet and outlet ports. Suitable for water based fluids like antifreeze or windshield wash solutions.

**Part No. 553 164A**

Same as part number 553 164 except with BSPP inlet and outlet threads. Special pump for DEF.

**Part No. 553 124**

Same as Part No. 553 164 except with 2 x 3/8" NTPF dual inlet for 1:1 ratio mixing of fluids with similar viscosities.



14 GALLONS PER MINUTE POLY  
Directflo® SERIES PUMPS - DF50

**Part No. 552 164**

Directflo® Series 14 gal/min maximum free flow capacity pump with Polypropylene body, TPE diaphragms and PTFE check balls. 1/2" NPTF inlet and outlet ports. Suitable for water based fluids like antifreeze or windshield wash solutions.

**Part No. 552 164A**

Same as part number 552 164 except with BSPP inlet and outlet threads. Special pump for DEF.

**Part No. 552 124**

Same as Part No. 552 164 except with 2 x 3/8" NPTF dual inlet for 1:1 ratio mixing of fluids with similar viscosities.



14 GALLONS PER MINUTE ALUMINUM  
Directflo® SERIES PUMP - DF50

**Part No. 552 010**

Directflo® Series 14 gal/min maximum free flow capacity pump with Aluminum body, TPE diaphragms and Acetal check balls. 1/2" NPTF inlet and outlet ports. Suitable for water based fluids like antifreeze, windshield wash, lubricants and waste oil.

## 1" - 28 GAL/MIN



28 GALLONS PER MINUTE POLY  
Directflo® SERIES PUMPS - DF100

**Part No. 551 164**

Directflo® Series 28 gal/min maximum free flow capacity pump with Polypropylene body, TPE diaphragms and PTFE check balls. 1" NPTF inlet and outlet ports. Suitable for water based fluids like antifreeze or windshield wash solutions.

**Part No. 551 164A**

Same as part number 551 164 except with BSPP inlet and outlet threads. Special pump for DEF.



28 GALLONS PER MINUTE ALUMINUM  
Directflo® SERIES PUMPS - DF100

**Part No. 551 010**

Directflo® Series 28 gal/min maximum free flow capacity pump with Aluminum body, TPE diaphragms and Acetal check balls. 1" NPTF inlet and outlet ports. Suitable for water based fluids like antifreeze, lubricants, diesel and waste oil and other used fluids transfer and evacuation.

## 1" - 28 GAL/MIN

## 28 GALLONS PER MINUTE ALUMINUM UL LISTED PUMP



**Part No. 2834**

28 gal/min maximum free flow capacity UL listed pump with Aluminum chambers and Buna-N diaphragms check balls. 1" NPTF inlet and outlet ports. Suitable for lubricants, diesel and waste oil transfer and evacuation.

## DIAPHRAGM PUMPS

**1" - 46 GAL/MIN**

**1 1/2" - 66 GAL/MIN**

03

DIAPHRAGM  
PUMPS



46 GALLONS PER MINUTE ALUMINUM  
Classicflo® SERIES PUMP

**Part No. 2835**

46 gal/min maximum free flow capacity pump with Aluminum chambers and Buna-N diaphragms and check balls. 1" NPTF inlet and outlet ports. Suitable for antifreeze, lubricants, diesel, waste oil and other waste fluids transfer and evacuation.



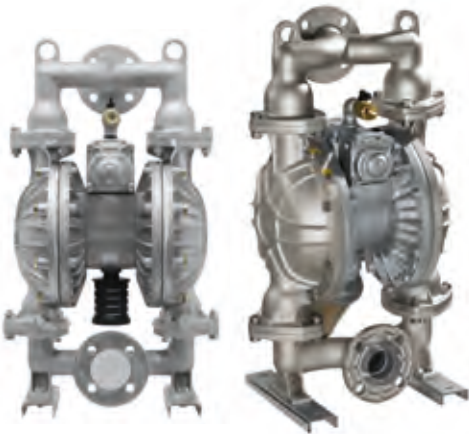
66 GALLONS PER MINUTE ALUMINUM  
Directflo® SERIES PUMP - DF250

**Part No. 554 010**

Directflo® Series 66 gal/min maximum free flow capacity pump with Aluminum body, TPE diaphragms and Acetal check balls. 1-1/2" NPTF inlet and outlet ports. Suitable for water based fluids like antifreeze, lubricants, diesel, waste oil and other used fluids transfer and evacuation.

**1 1/2" & 2" - 107 & 164 GAL/MIN**

107 & 164 GALLONS PER MINUTE ALUMINUM Classicflo® SERIES PUMPS



**Part No. 2838**

107 gal/min maximum free flow capacity pump with Aluminum chambers and Buna-N diaphragms and check balls. 1-1/2" NPTF inlet and outlet ports. Suitable for antifreeze, lubricants, diesel, waste oil and other waste fluids transfer and evacuation.

**Part No. 2840**

164 gal/min maximum free flow capacity pump with Aluminum chambers and Buna-N diaphragms and check balls. 2" NPTF inlet and outlet ports. Suitable for antifreeze, lubricants, diesel, waste oil and other waste fluids transfer and evacuation.

## DIRECTFLO® AND CLASSICFLO® PUMP ACCESSORIES

### SIPHON TUBES

Drum siphon system for water based fluids includes suction head with 1/2" NPTM connection, bung adaptor, and 60" drop tube.

**Part No. 910 308** For NPT thread bung openings.

**Part No. 910 315** For buttress thread bung openings.

910 308



03

DIAPHRAGM  
PUMPS

## DIRECTFLO® PUMP ACCESSORIES

### OPTIONAL ACCESSORIES DIRECTFLO®

MODEL	WALL MOUNT BRACKET	PRESSURE RELIEF KIT	AIR FILTER / REG. COMBO	HOSE CONNECTION KIT*
DF30	360 100	107 008	955	949 000
DF50	360 100	107 008	955	949 000
DF100	360 101	107 016	957	961 000
DF250	-	107 018	958	962 000

### HOSE CONNECTION KIT BREAKDOWNS\*

MODEL	HOSE KIT MODEL	PRODUCT INLET OUTLET HOSE MODEL	HOSE LINER MATERIAL	PRODUCT HOSE END MATERIAL	PRODUCT HOSE FITTINGS	AIR HOSE MODEL
DF30 / DF50	949 000	823 000 - 5' x 1/2"	Buna-N	Nylon	1/2" NPTM BE	802 - 5' x 1/4"
DF100	961 000	863 405 - 5' x 1/2"	Buna-N	Nylon	1" NPTM BE	813 - 5' x 3/8"

\*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 fitting. Air hoses have EPDM liners and zinc plated steel ends.

## DIRECTFLO® PUMP SILENCER

### Part No. 558 338

**Air exhaust connection kit.** When placed at the air exhaust port instead of the standard air muffler, allows connecting a hose for evacuating the air exhaust from the pump. Required when the pump is mounted submerged in the fluid or when the exhaust has to be vented outside the pump room. Connection thread: 3/8" BSP (F).



558 338

### Part No. 855 402

**Pump silencer.** When replacing the standard air muffler. 558 338, pump noise level is reduced down to 70 dB. Includes air exhaust connection kit.

## DIRECTFLO® WALL BRACKETS

### Part No. 360 101

Wall bracket for DF100 diaphragm pumps.



360 101

### Part No. 360 100

Wall bracket for DF30 and DF50 diaphragm pumps.



360 137

### Part No. 360 137

Universal bracket with carrying handle. Fits a DF30 or a DF50 diaphragm pump on top of a drum or an IBC.



## CLASSICFLO\* PUMP ACCESSORIES

### PRESSURE RELIEF VALVE



MODEL	WALL MOUNT BRACKET	PRESSURE RELIEF KIT	AIR FILTER / REG COMBO	50/50 INLET MIXING MANIFOLD	HOSE CONNECTION KIT*
<b>2825</b>	360 100	107 004	955	N/A	922 000
<b>2834</b>	360 109	107 016	957	2807	961 000
<b>2835</b>	360 131	107 016	957	2810	961 000
<b>2838</b>	N/A	107 024	958	N/A	961 015
<b>2840</b>	N/A	107 032	952	N/A	961 020

### DUAL INLET MANIFOLD



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

## DIRECTFLO® DIAPHRAGM PUMP PACKAGES

DIRECTFLO®	ANTIFREEZE AND WINDSHIELD FLUID DIAPHRAGM PACKAGES						
	BULK TANK		55 GALLON DRUM			55 GALLON DRUM WITH 50/50 MIX	
	DF50	DF100	DF30	DF50	DF100	DF30	DF50
<b>PACKAGE PART No.</b>	<b>900 851</b>	<b>900 811</b>	<b>900 830</b>	<b>900 850</b>	<b>900 810</b>	<b>900 832</b>	<b>900 852</b>
<b>PUMP</b>	552 164	551 164	553 164	552 164	551 164	553 124	552 124
<b>WALL MOUNT</b>	360 100	360 101	360 100	360 100	360 101	360 100	360 100
<b>SUCTION KIT</b>	910 308	910 308	910 308	910 308	910 308	910 308 (x2)	910 308 (x2)
<b>CONNECTION KIT</b>	949 000	961 000	949 000	949 000	961 000	949 000	949 000
<b>FILTER/REGULATOR</b>	955	957	955	955	957	955	955
<b>AIR SHUT OFF</b>	950 318	950 318	950 318	950 318	950 318	950 318	950 318

Air operated piston pumps for use with pure antifreeze (glycol) and water based solutions of antifreeze and windshield wash. Pumps not suitable for DEF.



### PUMP MASTER®

	PUMP MASTER 2		PUMP MASTER 4
	NICKEL PROTECTED PUMP	STAINLESS STEEL PUMP	STAINLESS STEEL PUMP
<b>PART No.</b>	<b>601 202</b>	<b>331 120</b>	<b>333 120</b>
<b>PUMP TYPE</b>	Universal stub pump	Universal stub pump; divorced	Universal stub pump; divorced
<b>PRESSURE RATIO</b>	1:1	1:1	3:1
<b>EFFECTIVE AIR PISTON DIAMETER</b>	1 1/2" ( 35 mm)	1 1/2" (35 mm)	2 1/2" (60 mm)
<b>PISTON STROKE</b>	3" ( 75 mm)	3" ( 75 mm)	3" ( 75 mm)
<b>AIR PRESSURE OPERATING RANGE</b>	20 to 145 psi (1,5 to 10 bar)	20 to 145 psi (1,5 to 10 bar)	20 to 145 psi (1,5 to 10 bar)
<b>AIR INLET</b>	1/4" NPT (F)	1/4" NPT (F)	3/8" NPT (F)
<b>FLUID INLET</b>	1" NPT (F)	1" NPT (F)	1" NPT (F)
<b>FLUID OUTLET</b>	3/4" NPT (F)	3/4" NPT (F)	3/4" NPT (F)
<b>DELIVERY AT 100 CYCLES PER MINUTE</b>	3.6 gal/min - 13,5 l/min	6.6 gal/min - 25 l/min	6.6 gal/min - 25 l/min
<b>MAXIMUM FREE DELIVERY</b>	14.5 gal/min - 55 l/min	10 gal/min - 38 l/min	10.6 gal/min - 40 l/min
<b>WETTED MATERIALS</b>	Nickel coated aluminum and steel, stainless steel, acetal, NBR, polyurethane	PTFE, Viton®, stainless steel	PTFE, Viton®, stainless steel
<b>HEIGHT ADJUSTABLE BUNG ADAPTOR</b>	Included	Included	Included
<b>MANUAL</b>	860 811	833 810	833 811

### SPECIALTY WASTE OIL PISTON PUMP

#### Part No. 351 121

Pump Master pump with 1:1 ratio with a modified air valve to allow a slower upward movement of the piston. This improves pump suction capacity and avoids pump cavitation when suctioning fluids like waste oil through small diameter suction wands.

**Manual 835 816**

**351 121**



## ELECTRIC PUMPS FOR SPECIALTY FLUIDS

Electric diaphragm pumps for use with windshield wash solution, antifreeze solution and DEF. Pump wetted materials are manufactured in EPDM, PP, PA and HNBR. Pumps are self priming pumps and have no seals in the pump shaft. Electric motor is protected with a 5 minute auto shut off function once the dispense valve is closed.

### Part No. 560 215

Electric diaphragm pump 115 VAC. Includes 60" three prong power cord and off/on switch.

**Inlet port . . . . . 1" BSPP**  
**Outlet port . . . . . 1" BSPP**  
**Outlet flow . . . . . 8 gal/min**  
**Max. working pressure . . . . . 23 psi**  
**Voltage . . . . . 115 VAC**  
**Max. current . . . . . 2 amps**  
**Motor protection . . . . . IP55**  
 (valid for outdoor use)  
**MANUAL 856 809**

### Part No. 560 212

Electric diaphragm pump, 12 VDC. Includes 60" power cord with crocodile clamps and off/on switch.

**Inlet port . . . . . 1" BSPP**  
**Outlet port . . . . . 1" BSPP**  
**Outlet flow . . . . . 8 gal/min**  
**Max. working pressure . . . . . 23 psi**  
**Voltage . . . . . 12 VDC**  
**Max. current . . . . . 13 Amps**  
**Motor protection . . . . . IP55**  
 (valid for outdoor use)  
**MANUAL 856 810**

### Part No. 560 224

Electric diaphragm pump, 24 VDC. Includes 60" power cord with crocodile clamps and off/on switch.

**Inlet port . . . . . 1" BSPP**  
**Outlet port . . . . . 1" BSPP**  
**Outlet flow . . . . . 8 gal/min**  
**Max. working pressure . . . . . 23 psi**  
**Voltage . . . . . 24 VDC**  
**Max. current . . . . . 22 Amps**  
**Motor protection . . . . . IP55**  
 (valid for outdoor use)  
**MANUAL 856 810**

**NOTE:** Electric diaphragm pump have BSPP male threads outlet and inlet. Use the following adaptors:

### Part No. 609 056

Converts to 1/2" hose barb.

### Part No. 609 072

Converts to 3/4" hose barb.

### Part No. 609 073

Converts to 1" hose barb.



560 215



560 212



560 224

## 04 HOSE REELS

506 SERIES SINGLE ARM ALUMINUM HOSE REELS	59
507 SERIES INDIVIDUALLY ENCLOSED HOSE REELS	60
1400 SERIES DOUBLE PEDESTAL DOUBLE ARM HOSE REELS - 1/2"	61
504 SERIES HEAVY-DUTY DOUBLE PEDESTAL ARM HOSE REELS - 1/2"	62
505 SERIES HEAVY-DUTY DOUBLE PEDESTAL ARM HOSE REELS - 3/4"	63
508 SERIES HEAVY-DUTY LARGE CAPACITY HOSE REELS - 1"	64
5085 SERIES HEAVY-DUTY LARGE CAPACITY HOSE REELS - 1 1/2"	65
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SAMSON hose reels, used around the world, are designed to be premium quality hose reels. Hose reels are adaptable to wall, floor or ceiling mounting, individually or in banks. They are available for high, medium and low pressure applications. Different hose capacities for maximum flexibility in selecting a hose reel assembly to match specific need. SAMSON hose reels are designed with non-restrictive fluid passages and the right hose diameter for each application to provide the quickest material delivery.

SAMSON hose reels are spring-powered and self-retracting; a latch locks the reel at desired length and a slight pull releases the latch, and the hose retracts smoothly on the reel. Hose guide arm can be placed in different positions to accommodate any method of mounting and allow the hose to be removed or retracted without kinking, reducing strain on hose and minimizing the possibility of hose damage.



## REEL MASTER®

COMPRESSED AIR • WATER • DIESEL • LUBRICANTS • ANTIFREEZE • WINDSHIELD WASH • GREASE • DEF (AdBlue®)

### ADVANTAGES OF THE USE OF HOSE REELS

- Increased productivity.
- Reduced wear and increased life of hoses.
- Simple hose handling and storage.
- Lower risk of accidents as hose reels keep hoses off the floor.
- Work environment improvement.

### ALL SAMSON REELS HAVE

- Superior power spring life. Special fatigue resistant steel spring guarantees long life and trouble free operation and provides even tension at every point, when pulling or retracting hose.
- Heavy-Duty ratchet, with large effective radial latching area for an easier and user-friendly operation.
- Metal arms, enclosures, base and spool are epoxy powder coated for increased wear resistance.
- SAMSON only uses high quality SAE hoses, specially formulated for use in hose reels.

*SAMSON offers a wide range of brackets, racks channels and stands for mounting hose reels. A properly installed hose reel has an inlet hose to prevent vibration transfer to the reel. A shut off valve is recommended at the inlet to allow the isolation of each reel for servicing.*



50' MAXIMUM HOSE CAPACITY

## FLUIDS HANDLED

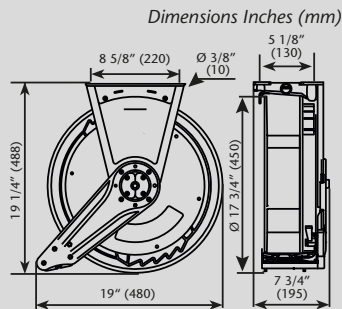
- Air.
- Water.
- Antifreeze and Windshield Wash Solutions.
- High Pressure Hot Water.
- Synthetic and Mineral Oils.
- DEF / AdBlue®
- Grease.

## MARKETS / APPLICATIONS

- Car and truck dealers.
- Service shops.
- Fleets.
- General manufacturing.
- Service stations.
- Lube trucks.
- Quick lubes.

## MOUNTING

- Floor.
- Wall.
- Ceiling.
- Tank.



Aluminum base and arms with composite spool hose reels, can handle up to 50' x 1/2" hose.



04

HOSE REELS

HOSE REEL PART No.	HOSE LENGTH	HOSE I.D.	OUTLET THREAD	MAX. WORKING PRESSURE	NET WEIGHT	REEL ONLY WITH SWIVEL PART No.
<b>LOW PRESSURE - AIR, WATER</b>						
<b>506 101</b>	30'	3/8"	3/8" NPTM	300 psi	26.71 lb	<b>506 910</b>
<b>506 121</b>	50'	3/8"	3/8" NPTM	300 psi	31.3 lb	<b>506 912</b>
<b>506 122</b>	50'	1/2"	1/2" NPTM	300 psi	32.8 lb	<b>506 914</b>
<b>LOW PRESSURE DEF (AISI 316 STAINLESS STEEL AND ACETAL FLUID PATH)</b>						
<b>506 702</b>	30'	1/2"	1/2" BSPPM	300 psi	28.7 lb	<b>506 976</b>
<b>506 722</b>	50'	1/2"	1/2" BSPPM	300 psi	34.1 lb	<b>506 978</b>
<b>MEDIUM PRESSURE OILS, FLUIDS</b>						
<b>506 202</b>	30'	1/2"	1/2" NPTM	2,000 psi	27.8 lb	<b>506 920</b>
<b>506 222</b>	50'	1/2"	1/2" NPTM	2,000 psi	32.8 lb	<b>506 922</b>
<b>HIGH PRESSURE WATER UP TO 200 °F</b>						
<b>506 421</b>	50'	3/8"	3/8" NPTM	2,400 psi	33.3 lb	<b>506 942</b>
<b>HIGH PRESSURE GREASE</b>						
<b>506 300</b>	30'	1/4"	1/4" NPTM	5,000 psi	27.3 lb	<b>506 930</b>
<b>506 321</b>	50'	3/8"	1/4" NPTM	4,000 psi	35.3 lb	<b>506 936</b>
<b>WASTE OIL SUCTION</b>						
<b>506 503</b>	20'	5/8"	1/2" NPTM	2,000 psi	29.3 lb	<b>506 950</b>

- Aluminum base and guide arm provide the rigidity to withstand the most demanding applications while offering a reduced weight for easy installation.
- Fatigue resistant steel spring for years of durable performance and even load when pulling and recoiling the hose.
- Fully ported shaft and swivel.
- Spool mounted on two permanently lubricated and sealed ball bearings to reduce torque load on spring for smooth retraction and longer life.
- Large guide latching area for easier operation.
- Six roller guide outlet prevents hose pinching and reduces friction.
- Hose guide arm can be placed in different positions to accommodate any method of mounting.
- Hose reels with hose include 30" inlet hose.



Hose reels are delivered in ceiling mount position.

MANUAL FOR ALL 506 SERIES HOSE REELS: 850 819

50' MAXIMUM HOSE CAPACITY

Aluminum enclosure with composite spool hose reels, can handle up to 50' x 1/2" hose.



## FLUIDS HANDLED

- Air.
- Water.
- Antifreeze and Windshield Wash Solutions.
- High Pressure Hot Water.
- Synthetic and Mineral Oils.
- DEF / AdBlue®
- Grease.

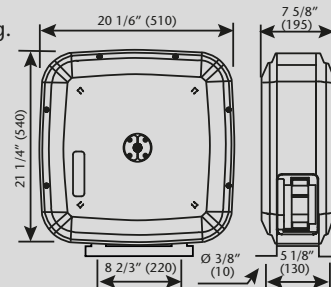
## MARKETS / APPLICATIONS

- Car and truck dealers.
- Service shops.
- Fleets.
- General manufacturing.
- Service stations.
- Lube trucks.
- Quick lubes.

## MOUNTING

- Floor.
- Wall.
- Ceiling.
- Tank.

Dimensions Inches (mm)



- Corrosion resistant aluminum enclosure form a very rigid and stable structure, with light weight and attractive design.
- Fatigue resistant steel spring for years of durable performance and even load when pulling and recoiling the hose.
- Fully ported shaft and swivel.
- Spool mounted on two permanently lubricated and sealed ball bearings to reduce torque load on spring for smooth retraction and longer life.
- Large latching area for easier operation.
- Positionable mounting brackets to accommodate any method of mounting.
- Two large lateral service windows facilitate common maintenance operations.
- Hose reels with hose include 30" inlet hose.



Hose reels are delivered in ceiling mount position.

HOSE REEL PART No.	HOSE LENGTH	HOSE I.D.	OUTLET THREAD	MAX. WORKING PRESSURE	NET WEIGHT	REEL ONLY WITH SWIVEL PART No.
<b>LOW PRESSURE - AIR, WATER</b>						
<b>507 101</b>	30'	3/8"	3/8" NPTM	300 psi	40.6 lb	<b>507 910</b>
<b>507 121</b>	50'	3/8"	3/8" NPTM	300 psi	45.6 lb	<b>507 912</b>
<b>507 122</b>	50'	1/2"	1/2" NPTM	300 psi	47.2 lb	<b>507 914</b>
<b>LOW PRESSURE DEF (AISI 316 STAINLESS STEEL AND ACETAL FLUID PATH)</b>						
<b>507 702</b>	30'	1/2"	1/2" BSPPM	300 psi	41.0 lb	<b>507 976</b>
<b>507 722</b>	50'	1/2"	1/2" BSPPM	300 psi	41.9 lb	<b>507 978</b>
<b>MEDIUM PRESSURE OILS, FLUIDS</b>						
<b>507 202</b>	30'	1/2"	1/2" NPTM	2,000 psi	41.7 lb	<b>507 920</b>
<b>507 222</b>	50'	1/2"	1/2" NPTM	2,000 psi	47.2 lb	<b>507 922</b>
<b>HIGH PRESSURE WATER UP TO 200 °F</b>						
<b>507 421</b>	50'	3/8"	3/8" NPTM	2,400 psi	48.9 lb	<b>507 942</b>
<b>HIGH PRESSURE GREASE</b>						
<b>507 300</b>	30'	1/4"	1/4" NPTM	5,000 psi	41.5 lb	<b>507 930</b>
<b>507 321</b>	50'	3/8"	1/4" NPTM	4,000 psi	49.8 lb	<b>507 936</b>
<b>WASTE OIL SUCTION</b>						
<b>507 503</b>	20'	5/8"	1/2" NPTM	2,000 psi	42.1 lb	<b>507 950</b>

MANUAL FOR ALL 507 SERIES HOSE REELS: 850 824

40' MAXIMUM HOSE CAPACITY

## FLUIDS HANDLED

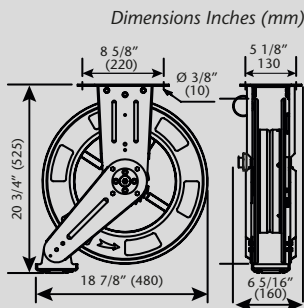
- Air.
- Water.
- Antifreeze Solutions.
- Synthetic and Mineral Oils.
- Grease.

## MARKETS / APPLICATIONS

- Car and truck dealers.
- Service shops.
- General manufacturing.
- Service stations.
- Quick lubes.

## MOUNTING

- Floor.
- Wall.
- Ceiling.
- Tank.



Full metal hose reels, can handle up to 40' x 1/2" hose.



04

HOSE REELS

HOSE REEL PART No.	HOSE LENGTH	HOSE I.D.	OUTLET THREAD	MAX. WORKING PRESSURE	NET WEIGHT	REEL ONLY WITH SWIVEL PART No.
<b>LOW PRESSURE - AIR, WATER</b>						
<b>1411</b>	30'	3/8"	3/8" NPTM	300 psi	41 lb	<b>1402</b>
<b>1413</b>	40'	3/8"	3/8" NPTM	300 psi	43 lb	<b>1402</b>
<b>1414*</b>	30'	3/8"	1/4" NPTM	300 psi	41 lb	<b>1402</b>
<b>1416*</b>	40'	3/8"	1/4" NPTM	300 psi	43 lb	<b>1402</b>
<b>1417</b>	40'	1/2"	1/2" NPTM	300 psi	46 lb	<b>1402</b>
<b>MEDIUM PRESSURE OILS, FLUIDS</b>						
<b>1424</b>	30'	3/8"	3/8" NPTM	2,000 psi	42 lb	<b>1402</b>
<b>1425</b>	40'	3/8"	3/8" NPTM	2,000 psi	45 lb	<b>1402</b>
<b>1428</b>	30'	1/2"	1/2" NPTM	2,000 psi	45 lb	<b>1402</b>
<b>1426</b>	40'	1/2"	1/2" NPTM	2,000 psi	48 lb	<b>1402</b>
<b>HIGH PRESSURE GREASE</b>						
<b>1432</b>	30'	1/4"	1/4" NPTM	5,000 psi	45 lb	<b>1403</b>
<b>1435</b>	50'	1/4"	1/4" NPTM	4,000 psi	48 lb	<b>1403</b>

- Fatigue resistant steel spring for years of durable performance and even load when pulling and recoiling the hose.
- Full metal double pedestal arm construction, epoxy powder coated for increased wear resistance.
- Forged brass shaft ensures a leak free operation.
- Hose reels with hose include 30" inlet hose.



Hose reels are delivered in ceiling mount position.

\* Special reels with 3/8" hose and 1/4" NPT end.

Reel includes inlet swivel.

Reel with hose includes hose stop and 30" inlet hose. 40' models for ceiling mount use only.

**MANUAL FOR ALL 1400 SERIES HOSE REELS: 850 804**

50' MAXIMUM HOSE CAPACITY

Full metal Heavy-Duty double pedestal hose reels, with hose capacity up to 50' x 1/2" hose.



## FLUIDS HANDLED

- Air.
- Water.
- Antifreeze and Windshield Wash Solutions.
- High Pressure Hot Water.
- Synthetic and Mineral Oils.
- Grease.

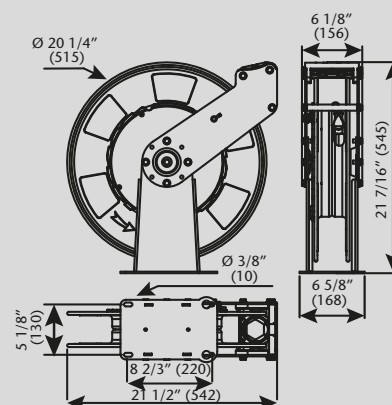
## MARKETS / APPLICATIONS

- Car and truck dealers.
- Service shops.
- Fleets.
- Lube trucks.
- Mining and construction.
- Railroad and mass transit.
- General manufacturing.

## MOUNTING

- Floor.
- Wall.
- Ceiling.
- Tank.

Dimensions Inches (mm)



- Very tough construction able to stand regular use and abuse in Intensive Duty applications.
- Fatigue resistant steel spring for years of durable performance and even load when pulling and recoiling the hose.
- Fully ported shaft and swivel.
- Spool mounted on two permanently lubricated and sealed ball bearings to reduce torque load on spring for smooth retraction and longer life.
- Large latching area for easier operation.
- Hose guide arm can be placed in different positions to accommodate any method of mounting.
- Narrow footprint allows mounting more reels on the same surface.
- Hose reels with hose include 30" inlet hose.



Hose reels are delivered in ceiling mount position.

HOSE REEL PART No.	HOSE LENGTH	HOSE I.D.	OUTLET THREAD	MAX. WORKING PRESSURE	NET WEIGHT	REEL ONLY WITH SWIVEL PART No.
<b>LOW PRESSURE - AIR, WATER</b>						
<b>504 151</b>	50'	3/8"	3/8" NPTM	300 psi	49.5 lb	<b>504 159</b>
<b>504 152</b>	50'	3/8"	1/4" NPTM	300 psi	49.5 lb	<b>504 159</b>
<b>504 150</b>	50'	1/2"	1/2" NPTM	300 psi	52.8 lb	<b>504 159</b>
<b>MEDIUM PRESSURE OILS, FLUIDS</b>						
<b>504 251</b>	40'	1/2"	1/2" NPTM	2000 psi	55.0 lb	<b>504 259</b>
<b>504 250</b>	50'	1/2"	1/2" NPTM	2000 psi	57.3 lb	<b>504 259</b>
<b>HIGH PRESSURE GREASE</b>						
<b>504 350</b>	50'	1/4"	1/4" NPTM	5,000 psi	58.4 lb	<b>504 359</b>
<b>504 351</b>	50'	3/8"	1/4" NPTM	4,000 psi	60.6 lb	<b>504 359</b>

Reel includes inlet swivel.

Reel with hose includes hose stop and 30" inlet hose.

**MANUAL FOR ALL 504 SERIES HOSE REELS: 850 838**

75' MAXIMUM HOSE CAPACITY

## FLUIDS HANDLED

- Air.
- Water.
- Antifreeze and windshield wash solutions.
- Synthetic and mineral oils.
- DEF / AdBlue®
- Waste Oil Evacuation.
- Diesel.
- Grease.

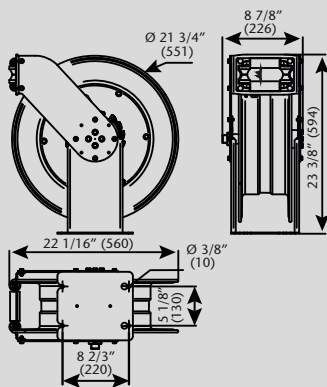
## MARKETS / APPLICATIONS

- Truck dealers.
- Service shops.
- Fleets.
- Lube trucks.
- Mining and construction.
- Railroad and mass transit.
- General manufacturing.

## MOUNTING

- Floor.
- Wall.
- Ceiling.
- Tank.

Dimensions Inches (mm)



04

HOSE REELS

HOSE REEL PART No.	HOSE LENGTH	HOSE I.D.	OUTLET THREAD	MAX. WORKING PRESSURE	NET WEIGHT	REEL ONLY WITH SWIVEL PART No.
<b>AIR, WATER AND WATER BASED FLUIDS</b>						
<b>505 120</b>	75'	1/2"	1/2" NPTM	300 psi	79.3 lb	<b>505 002</b>
<b>505 121</b>	50'	3/4"	3/4" NPTM	300 psi	83.2 lb	<b>505 002</b>
<b>DIESEL</b>						
<b>505 425</b>	50'	3/4"	3/4" NPTM	200 psi	83.7 lb	<b>505 002</b>
<b>LUBRICANTS</b>						
<b>505 220</b>	75'	1/2"	1/2" NPTM	2,000 psi	80.3 lb	<b>505 002</b>
<b>505 221</b>	50'	3/4"	3/4" NPTM	1,250 psi	84.7 lb	<b>505 002</b>
<b>HIGH PRESSURE GREASE AND HYDRAULIC FLUID</b>						
<b>505 330</b>	75'	3/8"	3/8" NPTM	4,000 psi	86 lb	<b>505 014</b>
<b>DEF (STAINLESS STEEL AND ACETAL FLOW PATH)</b>						
<b>505 550</b>	50'	3/4"	3/4" NPTM	300 psi	85 lb	<b>505 502</b>

- Very tough construction able to stand regular use and abuse in Intensive Duty applications.
- Fatigue resistant steel spring for years of durable performance and even load when pulling and recoiling the hose.
- Fully ported shaft and swivel.
- Spool mounted on two permanently lubricated and sealed ball bearings to reduce torque load on spring for smooth retraction and longer life.
- Large effective radial latching area for easier operation.
- Hose guide arm can be placed in different positions to accommodate any method of mounting.
- Narrow footprint allows mounting more reels on the same surface.

Reel includes inlet swivel, reel with hose includes hose stop.

Inlet connecting hose: not included.

See hose section for all hose models.

**MANUAL FOR ALL 505 SERIES HOSE REELS: 850 825**



UP TO 100' MAXIMUM HOSE CAPACITY

**Full metal, Heavy-Duty, double pedestal hose reels, with hose capacity up to 50' x 1", 60' and 75' x 3/4" hose or 100' x 1/2" hose.**

## FLUIDS HANDLED

- Air.
- Water.
- Antifreeze solutions.
- Synthetic and mineral oils.
- Waste Oil Evacuation.
- Diesel.

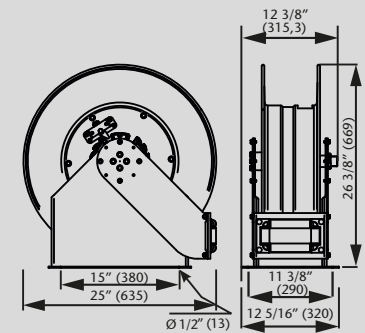
## MARKETS / APPLICATIONS

- Fleets.
- Lube trucks.
- Mining and construction.
- Railroad and mass transit.
- General manufacturing.

## MOUNTING

- Floor.
- Tank.
- Ceiling.

Dimensions Inches (mm)



- Very tough construction large capacity reels, able to stand regular use and abuse in Intensive Duty applications.
- Fatigue resistant steel spring for years of durable performance and even load when pulling and recoiling the hose.
- Fully ported shaft and swivel.
- Spool mounted on two permanently lubricated and sealed ball bearings to reduce torque load on spring for smooth retraction and longer life.
- Large latching area for easier operation.
- Hose guide arm can be placed in different positions to accommodate any method of mounting.
- Narrow footprint allows mounting more reels on the same surface.

HOSE REEL PART No.	HOSE LENGTH	HOSE I.D.	OUTLET THREAD	MAX. WORKING PRESSURE	NET WEIGHT	REEL ONLY WITH SWIVEL PART No.
<b>LOW PRESSURE - AIR, WATER BASED FLUIDS</b>						
<b>508 125</b>	50'	1"	1" NPTM	300 psi	110.2 lb	<b>508 002</b>
<b>508 152</b>	100'	1/2"	1/2" NPTM	300 psi	121.2 lb	<b>508 004</b>
<b>LOW PRESSURE DIESEL</b>						
<b>508 425</b>	50'	1"	1" NPTM	300 psi	115.7 lb	<b>508 002</b>
<b>MEDIUM PRESSURE LUBRICANTS AND WASTE OIL EVACUATION</b>						
<b>508 225</b>	50'	1"	1" NPTM	1,250 psi	123.4 lb	<b>508 002</b>
<b>508 234</b>	65'	3/4"	3/4" NPTM	1,250 psi	121.2 lb	<b>508 002</b>
<b>508 244</b>	75'	3/4"	3/4" NPTM	1,250 psi	125.6 lb	<b>508 004</b>
<b>508 252</b>	100'	1/2"	1/2" NPTM	2,000 psi	121.5 lb	<b>508 004</b>

Reel includes inlet swivel, reel with hose includes hose stop.  
Inlet connecting hose: not included.  
See hose section for all hose models.

**MANUAL FOR ALL 508 SERIES HOSE REELS: 850 837**

50' MAXIMUM HOSE CAPACITY

## FLUIDS HANDLED

- Water.
- Diesel.
- Waste oil evacuation.

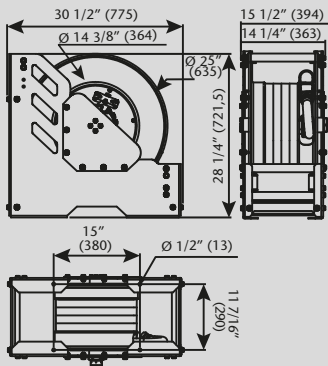
## MARKETS / APPLICATIONS

- Fleets.
- Lube trucks.
- Mining and construction.
- Railroad and mass transit.
- General manufacturing.

## MOUNTING

- Floor.
- Tank.

Dimensions Inches (mm)



Full metal, Heavy-Duty, hose reel with hose capacity up to 50' x 1-1/2" hose.



04

HOSE REELS

- Very tough construction large delivery reels, able to stand regular use and abuse in Intensive Duty applications.
- Fatigue resistant steel spring for years of durable performance and even load when pulling and recoiling the hose.
- Fully ported shaft and swivel.
- Spool mounted on two permanently lubricated and sealed ball bearings to reduce torque load on spring for smooth retraction and longer life.
- Large latching area for easier operation.
- Hose guide arm can be placed in two different positions to accommodate any method of mounting.
- Delivered with outlet mouth mounted in low position.

## Part No. 508 891

5085 Series Hose reel with swivel only.

For 50' of 1-1/2" hose. Delivery hose connection thread: 1-1/2" swiveling nut.

Inlet hose connection thread: 1-1/2" NPSM.

Net weight (with no hose): 150 lb.

MANUAL FOR ALL 5085 SERIES HOSE REELS: 850 833



3175

## COMPACT REELS FOR LIGHT

### Part No. 3175

#### Electric light cord reel 50'

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

Models not shown (Similar to 3174):

### Part No. 3171

**Electric light cord reel 40'** stubby light reel with tool tap in handle.

### Part No. 3172

**Electric light cord reel 30'** stubby light reel with "tool-tap" in handle.



3173

## ELECTRIC CORD REEL 30'

### Part No. 3173

#### Electric cord reel 30'

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.



3174

## COMPACT REEL FOR LIGHT 40'

### Part No. 3174

#### Electric light cord reel 40'

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.



4040

## HD ELECTRIC CORD REEL 40'

### Part No. 4040

#### HD electric cord reel 40'

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 enters top of box. 115 volt, 60 Hz, single phase, 20 amp.

Adjustable guide arm, allows wall, ceiling, or bench mounting. 6' inlet power cord with ground plug. 40' oil resistant type SJTO/SJTOW-A, three conductor 14/3 cord.



1558

## ECR LOW PRESSURE ECONOMY HOSE REEL

Low cost low pressure hose reel. Ideal for light to intermediate use. Reel is made in China and carries a limited 90 day warranty.

### Part No. 1558

Complete reel assembly, with 50' of 3/8" I.D. low pressure hose. Includes 2' inlet connection hose.



## HOSE STOPS

**For 506, 507, 1450 and 1650 Series reel. Bi-conical hose stop.**

**Part No. 2022**

Fits 1/4" hoses

**Part No. 2024**

Fits 3/8" hoses

**Part No. 2026**

Fits 1/2" hoses

**For 505 Series hose reel. Bi-conical hose stop and U-bolt.**

**Part No. 528 002**

Fits 1/2" hoses

**Part No. 528 004**

Fits 3/8" hoses

**Part No. 528 003**

Fits 3/4" hoses

**For 508 Series hose reel. Bi-conical hose stop and U-bolt.**

**Part No. 528 002**

Fits 1/2" hoses

**Part No. 528 003**

Fits 3/4" hoses

**Part No. 528 001**

Fits 1" hoses.

**For 5085 Series hose reel. Spherical hose stop and U-bolt.**

**Part No. 528 083**

Fits 1 1/2" hoses.



1876

## ENCLOSED REEL CABINETS

Cabinets fit 1400 and 504 series reels.

**Part No. 1876**

Two reel mounting channel for reel enclosure.

**Part No. 1877**

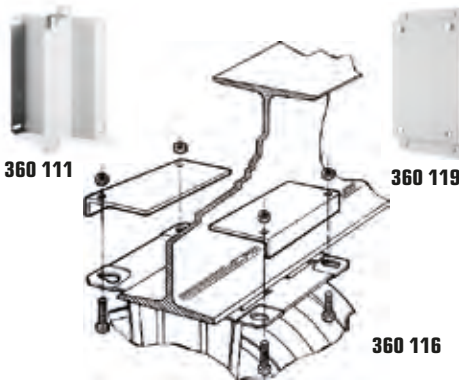
Three reel mounting channel for reel enclosure

**Part No. 1878**

Reel enclosure kit. One per reel is required.

**Part No. 1879**

End panel kit. One per reel bank is required.



## INDIVIDUAL REEL BRACKETS

**Part No. 360 111**

Pivoting wall mount bracket. For 506, 507, 1400, 504 and 505 Series reels.

**Part No. 360 116**

I-beam mounting bracket. Includes a pair of brackets and hardware. Eliminates the need to drill column or beam when mounting an individual reel to beam flange. For 506, 507, 1400 and 504 series reels.

**Part No. 1399**

Bracket for mounting a 506, 507, 1400 or 504 Series reel to a 1305 Heavy-Duty cart.

**Part No. 360 135**

Bracket for mounting a 506, 507, 1400 or 504 Series reel to a drum trolley Part No. 1307.

**Part No. 360 119**

Fast mount bracket. Facilitates mounting a reel to a wall or ceiling. Use with 506, 507, 1400, 504 and 505 reels.



1395

## WALL AND CEILING MOUNTING ACCESSORIES

**REEL CHANNELS AND BRACKETS**

Hose reel mounting channels for 506, 507, 1400, and 504 series hose reels in a bank. Channels are pre-drilled to allow individual mounting of reel. Nuts, screws and washers included.

**Part No. 360 114**

Holds up to two reels. 21-1/2" x 12".

**Part No. 360 115**

Holds up to three reels. 32-1/2" x 12"

**Part No. 360 117**

Holds up to five reels. 54-1/2" x 12".

**Part No. 1390**

Channel mounting bracket. Channels may be mounted from I beams with use of channel mounting brackets (up to 9" flange). Use two brackets for the two and three reel channel and three brackets for the five reel bracket.

**Part No. 1515**

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



## GUN HOLDERS AND DRIP POCKETS

**Part No. 360 122**

Wall mounted drip pocket .

**Part No. 360 126**

Gun holder for hose reels.

**Part No. 360 127**

Wall mount drip pocket and gun holder.

## FLOOR MOUNTING ACCESSORIES: HOSE REEL STANDS

For 1400, 504, 506 and 507 series hose reels.

**Part No. 360 161**

Two hose reel stand. Height: 94".

**Part No. 360 162**

Three hose reel stand. Includes drip tray.  
Dimensions: 47" x 16" x 88".

**Part No. 360 163 (not shown)**

Five hose reel stand. Includes drip tray.  
Dimensions: 69" x 16" x 88".

For 1400, 504 and 506 series hose reel.

**Part No. 360 160**

Six hose reel stand. Includes drip tray.  
Dimensions: 61" x 30" x 102".

For 1400, 504, 505, 506, and 507 series hose reels.

**Part No. 360 165**

Six hose reel stand. Includes drip tray.  
Dimensions: 78" x 30" x 102".

Accessories for reel stands Part No. 360 160 and Part No. 360 165

**Part No. 360 164**

Height extension kit, allows rising 20" reel stands 360 160 and 360 165.

**Part No. 360 166**

Additional bracket for two hose reels. Allows mounting two additional hose reels to stands Part No. 360 160 and Part No. 360 165.

**Part No. 360 168 (not shown)**

Additional drip tray. For use with bracket 360 166.



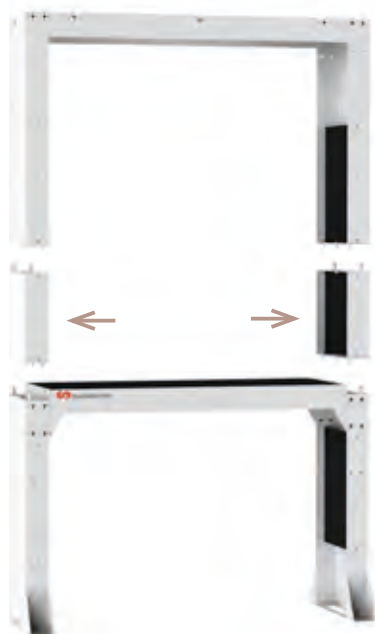
360 165



360 162



360 161



360 164



360 166





## 05 FLUID DISPENSE VALVES AND METERS

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## CV11 SERIES - OIL DISPENSE VALVE, 11 GAL/MIN

SAMSON control valves are used at end of hose assembly to dispense lubricants and antifreeze solutions.

### FLUIDS HANDLED

- Synthetic and mineral based lubricants.
- Gear Oil.
- Hydraulic oil and fluids.
- ATF.
- Antifreeze solutions.

### MARKETS SERVED

- Car and truck dealerships.
- Fast lube and maintenance shops.
- Fleet service.
- Mining and construction.
- Lube trucks.

### DURABILITY AND PERFORMANCE

- Extensively and rigorously field tested. Reliable performance.
- Aluminum body with light weight ergonomic design. Soft grip valve for comfort.
- Cam and piston valve design for minimum flow resistance.
- Large inlet swivel and inlet filter with large screen surface.
- Swivel and outlet covers.
- Safety latch must be depressed before product can be dispensed. Trigger can be locked open for dispensing large volumes.
- Wide selection of outlets available.

TECHNICAL DATA	
Maximum flow rate	11 gal/min (40 l/min)
Maximum working pressure	1,450 psi (100 bar)
Fluid inlet	1/2" NPT (F)
Fluid outlet	1/2" NPT (F)
Wetted parts	Aluminum / Zinc plated steel / TPU / Polyamide
Fluid compatibility	Lubricants, ATF, antifreeze (Glycol) and antifreeze water solutions
Weight (with no outlet)	1 lb (470 g)

**MANUAL FOR ALL CV11 SERIES VALVES: 836 854**

ORDERING INFORMATION		
PART No.	DESCRIPTION	OUTLET PART No.
<b>363 100</b>	Oil valve with no outlet	-
<b>363 116</b>	Oil valve with 60° rigid outlet and quarter turn non drip tip	369 231
<b>363 114</b>	Oil valve with flexible outlet with 90° tube and quarter turn non-drip tip	369 227
<b>363 117</b>	Oil valve with Formable outlet and quarter turn non-drip	369 233
<b>363 118</b>	Oil valve with Formable outlet and quarter turn narrow non-drip (Ø 1/3")	369 240

Non drip tips are manufactured in brass. See page 77 for outlets.



363 117



363 116



363 114



363 118

## CV24 SERIES - HIGH FLOW OIL DISPENSE VALVE, 24 GAL/MIN

SAMSON large delivery control valves are used at end of hose assembly to dispense large volumes of lubricants and antifreeze solutions.

### FLUIDS HANDLED

- Synthetic and mineral based lubricants.
- Gear Oil.
- Hydraulic oil and fluids.
- ATF.
- Antifreeze solutions.

### MARKETS SERVED

- Truck dealerships.
- Fleet service.
- Mining and construction.
- Lube trucks.
- Railroad and mass transit vehicles.

### DURABLE AND HIGH FLOW PERFORMANCE

- Extensively and rigorously field tested. Reliable performance.
- Heavy Duty aluminum pressure cast body to stand the toughest working conditions.
- High flow pressure balanced valve for comfortable use.
- Large port inlet swivel (1" and 3/4"). Inlet filter with large screen surface.
- Safety guard avoids accidental openings.
- Trigger can be blocked open for dispensing large volumes.
- Outlets have 3/4" BSP (M) connection thread and use a bonded seal washer to assure a leak free operation.

#### TECHNICAL DATA

Maximum flow rate	24 gal/min (90 l/min)
Maximum working pressure	1,450 psi (100 bar)
Fluid inlet	3/4" NPTF or 1" NPTF
Fluid outlet	3/4" BSP (F)
Wetted parts	Aluminium / Zinc plated steel and brass / NBR
Fluid compatibility	All type of synthetic and mineral oils, antifreeze solutions, hydraulic fluid
Weight	4.5 lb (2.05 kg)

MANUAL FOR ALL CV24 SERIES VALVES: 836 839

#### ORDERING INFORMATION

PART NO.	OUTLET NOZZLE TYPE	INLET SWIVEL THREAD
<b>363 053</b>	30° rigid wiht semiautomatic non-drip tip.	3/4" NPTF
<b>363 054</b>	Flexible outlet with semiautomatic non-drip tip.	3/4" NPTF
<b>363 055</b>	30° rigid wiht semiautomatic non-drip tip.	1" NPTF
<b>363 056</b>	Flexible outlet with semiautomatic non-drip tip.	1" NPTF

See page 77 for outlets.



**363 054**  
**363 056**



**363 053**  
**363 055**

## EC8 SERIES - OVAL GEAR WITH DIGITAL DISPLAY HAND HELD METER, 8 GAL/MIN

SAMSON metered control valves are used at end of hose assembly for measured dispensing of lubricants and antifreeze solutions.

### FLUIDS HANDLED

- Synthetic and mineral based lubricants.
- Gear Oil.
- Hydraulic oil and fluids.
- ATF.
- Antifreeze solutions.

### MARKETS SERVED

- Car and truck dealerships.
- Fast lube and maintenance shops.
- Fleet service.
- Mining and construction.
- Lube trucks.

### ACCURACY, DURABILITY AND HIGHER FLOW PERFORMANCE

- Extensively and rigorously field tested. Reliable performance.
- High precision machined measuring chamber with tight tolerances, quality gears and stainless steel shafts eliminate the need of calibration to adjust for fluid viscosity.
- Sealed battery compartment and isolated electronic register for extended life.
- Easy to read large character display, with batch, trip (resettable totalizer) and totalizer functions.
- Rough TPE boot surrounds the entire meter for even greater durability.
- Replaceable AAA batteries.

### TECHNICAL DATA

Maximum flow rate	8 gal/min (30 l/min)
Accuracy	+/- 0.5 %
Maximum working pressure	1,450 psi (100 bar)
Batteries	2 x AAA 1.5 V alkaline batteries
Fluid inlet	1/2" NPT (F)
Fluid outlet	1/2" NPT (F)
Wetted parts	Acetal / Aluminium / Stainless steel / NBR / Zinc plated steel / TPU / Polyamide
Fluid compatibility	Lubricants, ATF, antifreeze (glycol) and antifreeze - water solutions
Weight	2.86 lb (1,30 kg)

### MANUAL FOR ALL EC8 SERIES VALVES: 836 854 + 836 853

Units of measure can be selected quarts, gallons, pints and liters.

### ORDERING INFORMATION

PART No.	OUTLET NOZZLE TYPE	OUTLET PART No.
<b>365 521</b>	Hose end meter with no outlet	-
<b>365 536</b>	60° rigid with quarter turn opening non-drip tip	369 231
<b>365 534</b>	Flexible outlet with 90° angled tube with quarter turn non-drip tip	369 227
<b>365 537</b>	Formable outlet with quarter turn non-drip tip	369 233
<b>365 538</b>	Formable outlet with quarter turn narrow non-drip tip (Ø 1/3")	369 240

Non drip tips are manufactured in brass.

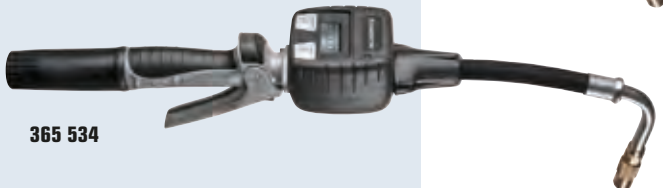
See page 77 for outlets.



**365 537**



**365 536**



**365 534**



**365 538**

## EC19 SERIES - OVAL GEAR HAND HELD HIGH FLOW METER, 19 GAL/MIN

SAMSON High Flow metered control valves are used at end of hose assembly for measured dispensing large volumes of lubricants and antifreeze solutions.

### FLUIDS HANDLED

- Synthetic and mineral based lubricants.
- Gear Oil.
- Hydraulic oil and fluids.
- ATF.
- Antifreeze solutions.

### MARKETS SERVED

- Truck dealerships.
- Fleet service.
- Mining and construction.
- Lube trucks.
- Railroad and Mass Transit.

### ACCURACY, DURABILITY AND HIGH FLOW PERFORMANCE

- Extensively and rigorously field tested. Reliable performance.
- High precision machined measuring chamber with tight tolerances, quality gears and stainless steel shaft eliminate the need of calibration to adjust for fluid viscosity.
- Sealed battery compartment and isolated electronic register for extended life.
- Easy to read large character display, with batch, trip (resettable totalizer) and totalizer functions.
- Rough TPE boot surrounds the entire meter for even greater durability.
- Replaceable AAA batteries.

### TECHNICAL DATA

Maximum flow rate	19 gal/min (70 l/min)
Accuracy	+/- 0,5%
Maximum working pressure	1,450 psi (100 bar)
Batteries	2 x AAA 1.5 V alkaline batteries
Fluid inlet	3/4" NPTF or 1" NPTF
Fluid outlet	3/4" BSP (F)
Wetted parts	Acetal / Aluminium / Stainless steel / Zinc plated steel and brass / NBR
Fluid compatibility	Lubricants, ATF, antifreeze (glycol) and antifreeze-water solutions
Weight	6.30 lb (2,85 kg)

### MANUAL FOR ALL EC19 SERIES VALVES: 836 839 + 836 852

Units of measure can be selected quarts, gallons, pints and liters.

### ORDERING INFORMATION

PART No.	OUTLET NOZZLE TYPE	INLET SWIVEL THREAD
<b>365 655</b>	30° rigid with semiautomatic non-drip tip	3/4" NPT
<b>365 654</b>	Flexible outlet with semiautomatic non-drip tip	3/4" NPT
<b>365 657</b>	30° rigid with semiautomatic non drip tip	1" NPT
<b>365 656</b>	Flexible outlet with semiautomatic non drip tip	1" NPT

See page 77 for outlets.



**365 534**  
**365 657**



**365 655**  
**365 657**



# MECHANICAL METERED CONTROL VALVES FOR DISPENSING OIL AND OTHER FLUIDS

## MC8 SERIES - ROTARY PISTON MECHANICAL METER, 8 GAL/MIN

SAMSON mechanical metered control valves are used at end of hose assembly for measured dispensing of lubricants and antifreeze solutions in tough, intensive use applications.



365 801



365 803

### FLUIDS HANDLED

- Synthetic and mineral based lubricants.
- Gear Oil.
- Hydraulic oil and fluids.
- ATF.
- Special model for antifreeze solutions available.

### MARKETS SERVED

- Car and truck dealerships.
- Fast lube and maintenance shops.
- Fleet service.
- Mining and construction.
- Lube trucks.
- Railroad and Mass Transit.

### ACCURACY, DURABILITY WITH PROVEN PERFORMANCE

- Extensively and rigorously field tested. Reliable performance.
- No calibration required. High accuracy within a large viscosity range.
- One piece polycarbonate based integral register housing and single molded pointer knob guarantee maximum integrity of the meter against drops and impacts and provide superb protection against humidity.
- Fully mechanical register.
- Simple and easy to read dial includes 5-digit totalizer
- Very tough metal construction, the meter is ideal for intensive use and outdoor applications.
- CV11 SERIES control valve is flange coupled to eliminate the use of adaptors and eliminate leaks.

### TECHNICAL DATA

Maximum flow rate	8 gal/min (30 l/min)
Accuracy	+/- 0,65 %
Maximum working pressure	1,450 psi (100 bar)
Fluid inlet	1/2" NPTF
Fluid outlet	1/2" NPTF
Wetted parts	Aluminum / Zinc alloy / Stainless steel / NBR / Brass / Steel / TPU / Polyamide
Fluid compatibility	Synthetic and mineral oils, ATF, Antifreeze, Gear oils
Weight	3.74 lb (1,7 kg)

**MANUAL FOR ALL MC8 SERIES VALVES: 836 854 + 836 862**

### ORDERING INFORMATION

PART No.	OUTLET NOZZLE TYPE	OUTLET PART No.
<b>QUARTS/GALLONS METERS. 4 - 16 QUARTS DIAL, TOTALIZER IN GALLONS - LUBRICANTS</b>		
<b>365 805</b>	Flexible outlet with automatic non-drip tip	369 223
<b>365 806</b>	Formable outlet with quarter turn opening non-drip tip	369 233
<b>365 802</b>	60° Rigid outlet with quarter turn non-drip tip	369 231
<b>QUARTS/GALLONS METERS. 4 - 16 QUARTS DIAL, TOTALIZER IN GALLONS - ANTIFREEZE</b>		
<b>365 826</b>	Flexible outlet with quarter turn opening non-drip tip	369 233
<b>METRIC METERS. 0 - 10 LITERS DIAL, TOTALIZER IN LITERS - LUBRICANTS</b>		
<b>365 803</b>	Flexible outlet with automatic non-drip tip	369 223
<b>365 804</b>	Formable outlet with quarter turn opening non-drip tip	369 233
<b>365 801</b>	60° Rigid outlet with quarter turn non-drip tip	369 231
<b>METRIC METERS. 0 - 10 LITERS DIAL, TOTALIZER IN LITERS - ANTIFREEZE</b>		
<b>365 824</b>	Formable outlet with quarter turn opening non-drip tip	369 233

Non drip tips are manufactured in brass.  
All models include inlet swivel with shroud and the outlet listed for each model.

See page 77 for outlets.

## MC8P - ROTARY PISTON MECHANICAL PRESET METER, 8 GAL/MIN

SAMSON mechanical preset metered dispense valves allow filling of large crankcases, engines and other lubricant reservoirs. For automatic operation, set the dial pointer to the quantity needed, actuate the trigger for automatic latching and the valve will deliver the volume requested and then shut off.

### FLUIDS HANDLED

- Synthetic and mineral based lubricants.
- Gear Oil.
- Hydraulic oil and fluids.
- ATF.

### MARKETS SERVED

- Truck dealerships.
- Fleet service.
- Mining and construction.
- Lube trucks.
- Railroad and Mass Transit.

### ACCURACY, DURABILITY AND EXTRA PERFORMANCE

- Extensively and rigorously field tested. Reliable performance.
- No calibration required. High accuracy within a large viscosity range.
- One piece polycarbonate based integral register housing and single molded pointer knob guarantee maximum integrity of the meter against drops and impacts and provide superb protection against humidity.
- The reset mechanism incorporates a safety clutch for preserving the preset mechanism in case the knob is turned in the wrong direction.
- Mechanical shut-off mechanism. High wear and stress resistant shut off mechanism.
- Simple and easy to read dial includes 5-digit totalizer
- Very tough metal construction, the meter is ideal for intensive use and outdoor applications.
- CV11 SERIES Control valve is flange coupled to eliminate the use of adaptors and eliminate leaks.

### TECHNICAL DATA

Maximum flow rate	8 gal/min (30 l/min)
Accuracy	+/- 0,65 %
Maximum working pressure	1,450 psi (100 bar)
Fluid inlet	1/2" NPTF
Fluid outlet	1/2" NPTF
Wetted parts	Aluminum / Zinc alloy / Stainless steel / NBR / Brass / Steel / TPU / Polyamide
Fluid compatibility	Synthetic and mineral oils, ATF, Antifreeze
Weight	4.40 lb (2 kg)

**MANUAL FOR ALL MC8P SERIES VALVES: 836 868**

### ORDERING INFORMATION

PART No.	OUTLET NOZZLE TYPE	OUTLET NOZZLE PART No.
<b>0 - 60 QUARTS DIAL, TOTALIZER IN GALLONS</b>		
<b>365 817</b>	Rigid outlet with semiautomatic non drip tip	369 244
<b>0 - 60 GALLONS DIAL, TOTALIZER IN GALLONS</b>		
<b>365 813</b>	Rigid outlet with semiautomatic non drip tip	369 244
<b>0 - 60 LITERS DIAL, TOTALIZER IN LITERS</b>		
<b>365 811</b>	Rigid outlet with semiautomatic non drip tip	369 244

See page 77 for outlets.



**365 811**

## CONTROL VALVE FOR DISPENSING WATER BASED FLUIDS - 4 GAL/MIN

### Part No. 186 300

Control handle with reinforced polyamide body and stainless steel valve mechanism for use with fluids like windshield wash solutions, glycol solution (anti-freeze) and other water based solutions. Includes brass inlet swivel with 1/2" NPTF connection thread and flexible outlet with 90° angled nozzle and quarter turn non-drip tip. Working pressure: 570 psi.

## METERED CONTROL VALVE FOR DISPENSING WATER BASED FLUIDS - 4 GAL/MIN

### Part No. 365 575

Oval gear hose end meter with electronic display for measured delivery of windshield washer, coolant and antifreeze solutions. Display is powered with two easy to replace 1,5V AAA alkaline batteries. Meter can measure in liters, quarts, pints and US gallons. Fluid inlet: 1/2" NPT (F). Maximum working pressure: 435 psi. Operating temperature range: 15 to 140 °F.

## PRESET DIGITAL METERS

### Part No. 2199

Electronic preset meter designed to meter and dispense bulk fluids servicing automobiles, trucks, buses and other similar applications. The meter is light weight, rugged and has a comfortable grip. It can be used with motor oils, gear oils, ATF, pure antifreeze and hydraulic fluids. Works with 4 AAA alkaline batteries. Includes inlet swivel and rigid outlet with non-drip tip. Use 2199SF for diluted antifreeze and windshield wash.

### Part No. 365 300

Oval gear hose end meter with preset function. Preset mode dispensing allows hands off operation as the meter automatically shuts off once the preset volume is delivered. Meter with digital display, works with four easy to replace 1,5 V AAA alkaline batteries. Includes inlet swivel and rigid outlet with non drip nozzle.

## OIL BARS

For dispensing up to four bulk lubricants. With removable catch pan for ease of containing spills and spring loaded non-drip dispense valve. Dimensions: 18 1/2" x 22 3/4" x 13 1/4".

**Part No. OB-1.** Single product fluid dispensing bar, complete as shown.

**Part No. OB-2.** With two spigots for dispensing two products

**Part No. OB-3.** With three spigots for dispensing three products

**Part No. OB-4.** With four spigots for dispensing four products.

**Part No. 361 110.** Outlet kit to add a tap to existing bars.

**Part No. 366 550.** In-line digital meter kit for oil bars.

**Part No. 949 001.** Hose connector kit. Includes 2' connection hose, 1/2" NPTMBE swivel, and 1/2" NPTFBE medium pressure ball valve.

## SPIGOT VALVES

### Part No. 1900

Dispensing valve with self closing spigot valve. Connects to PumpMaster-2 both 1:1 or 3:1 pressure ratio pumps. Connecting thread: 3/4" NPTM.

## AIR AND FLUID SERVICE VALVES

### Part No. 1275

Air chuck, 1/4" NPTF

### Part No. 1277

Inflator gauge, 1/4" NPTF

**Part No. 1280.** Water bibb, 1/4" NPTF

### Part No. 1282

Air blow gun, 1/4" NPTF

### Part No. 94122048

1/4" NPTM x 3/8" NPTF brass reducer



186 300

365 575



2199

365 300

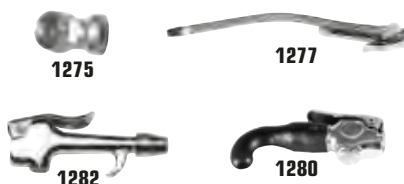


OB-1



1900

Pump not included



1275

1277

1282

1280

### DISPENSE VALVE OUTLETS

**For metered and non-metered control valves. 1/2" NPTM connection thread**

PART No.	DESCRIPTION
<b>369 223</b>	Flexible outlet with automatic non-drip tip.
<b>369 227</b>	Flexible outlet with 90° angled nozzle and quarter turn non drip tip.
<b>369 229</b>	Flexible outlet with 90° angled nozzle and automatic non-drip tip
<b>369 231</b>	60° rigid outlet with quarter turn non drip tip.
<b>369 233</b>	Formable outlet with quarter turn non drip tip.
<b>369 240</b>	Formable outlet with quarter turn narrow tip to fit on ATF and gear oil fills.
<b>369 221</b>	Automatic non-drip tip. 1/4" BSPF
<b>369 222</b>	Quarter turn non-drip tip. 1/4" BSPF
<b>369 238</b>	Quarter turn non-drip narrow tip. 1/4" BSPF



**369 223**



**369 227**



**369 229**



**369 231**



**369 233**



**369 240**

**For metered and non-metered dispense valves SERIES CV24 and EC19 only.**

3/4" BSPM connection thread. With bonded seal washer to guarantee a leak-free connection.

PART No.	DESCRIPTION
<b>369 236</b>	Flexible outlet with semiautomatic non-drip tip
<b>369 237</b>	60° rigid outlet with semiautomatic non-drip tip



**369 236**



**369 237**

**For MC8P preset dispense valve. 1/2" NPTM connection thread.**

PART No.	DESCRIPTION
<b>369 244</b>	Straight rigid outlet with semiautomatic non-drip tip



**369 244**

### MULTI-COLOR METER BOOTS

**Part No. 369 606**

Outlet thread cover boot pack for use with CV11 AND EC8 SERIES control valves.



**369 606**

## GREASE DISPENSE HANDLES

High pressure grease dispenses handle with ergonomic body and trigger designed to reduce operator hand fatigue. Manufactured in aluminum with steel insert for high pressure.  
Maximum working pressure: 8,000 psi.  
Inlet thread: 1/4" NPTF.  
Outlet thread: 1/8" NPTF.

### Part No. 413 077

Grease control handle with rigid outlet and 3 jaw coupler (PN 121 050).

### Part No. 413 080

Grease control handle with z-swivel, rigid outlet and 3 jaw coupler (PN 121 050).

### Part No. 413 081

Grease control handle with 18" double steel braid reinforced rubber hose and 3 jaw coupler (PN 121 050).

### Part No. 413 082

Grease control handle with z-swivel and 18" double steel braid reinforced rubber hose with 3 jaw coupler (PN 121 050).

413 080

1177

## ELECTRONIC-METERED GREASE DISPENSE HANDLE

### Part No. 1177

Same as Part No. 413 082, except with 411 103 grease meter.

## DOUBLE STEEL BRAID GREASE OUTLET HOSES

Maximum working pressure 7,000 psi.  
1/8" NPTM threads.

### GREASE OUTLET HOSES ONLY

PART No.	LENGTH
140 030	12"
140 050	18"

### GREASE OUTLET HOSES WITH 3 JAW CONNECTOR

PART No.	LENGTH
142 030	12"
142 050	18"

## GREASE CONTROL HANDLE SWIVELS



Equipped with ball bearings for easy articulation even at high pressure. For best results, use a straight swivel between the pump and distribution hose and Z-swivel between the hose and grease control gun.  
Maximum working pressure: 8,000 psi.

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

**1105** "Z" inlet swivel. 1/4" NPTM x 1/4" NPTF.

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

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

## GREASE CONTROL GUN OUTLETS



### Part No. 1122

Rigid outlet with 3 jaw hydraulic grease coupler. (PN 121 050).

### Part No. 1120

Rigid outlet.



## IN LINE METERS WITH DIGITAL DISPLAY

Oval gear meters for use as in-line meters with oil, DEF, windshield wash solutions, anti-freeze solutions and diesel, depending on the meter wetted materials. They can be wall mounted in the fluid line or at the pump outlet.

Meters include an electronic register controlled by wetted magnets and powered with two AAA alkaline batteries. It is shock proof and isolated from the fluid handled. Meter display is multi-function, showing the volume dispensed per delivery, and has a permanent and a resettable (trip function) totalizer. The display can be programmed to show delivery in liters, quarts, pints and US gallons. The assembly is enclosed in a TPE molded shroud. Meters can be calibrated for maximum accuracy.

### Part No. 366 000

1/2" aluminum in line meter - 8 GPM

1/2" in line meter with aluminum measure chamber for use with oils, gear lube and water based solutions (antifreeze, windshield wash). Maximum working pressure: 1,450 psi. +/- 0.5 % accuracy. Works with two AAA 1.5 V alkaline batteries.

### Part No. 366 010

1/2" PVC in line meter - 13 GPM

1/2" in line meter with aluminum measure chamber for use with water based solutions (antifreeze, windshield wash and DEF). Maximum working pressure: 450 psi. +/- 0.5 % accuracy. Works with two AAA 1.5 V alkaline batteries.

### Part No. 366 060

3/4" aluminum in line meter - 21 GPM.

3/4" in line meter with aluminum measure chamber for use with oils, gear lube and water based solutions (antifreeze, windshield wash). Maximum working pressure: 1,450 psi. +/- 0.5 % accuracy. Works with two AAA 1.5 V alkaline batteries.



366 000



366 010



366 060

## MECHANICAL IN-LINE METERS

1/2" in line meter with aluminum measure chamber for use with oils, gear lube, diesel and water based solutions (antifreeze, windshield wash). Oscillating piston design for rugged dependability. Maximum working pressure: 1,450 psi. +/-0,5% accuracy 1/2" NPTF inlet and outlet.

### Part No. 366 802

Mechanical in-line meter, 4-16 quart dial, totalizer in gallons.

### Part No. 366 801

Mechanical in-line meter, 0-10 liters dial, totalizer in liters.



366 802



366 801

## OVAL GEAR IN LINE METER FOR GREASE WITH ELECTRONIC DIGITAL DISPLAY

### Part No. 411 103

In line grease meter. High pressure oval gear meter with digital display. Batch display in ounces and permanent totalizer in pounds. Works with two 1,5 V AAA alkaline batteries.

Maximum pressure: 8,000 psi.

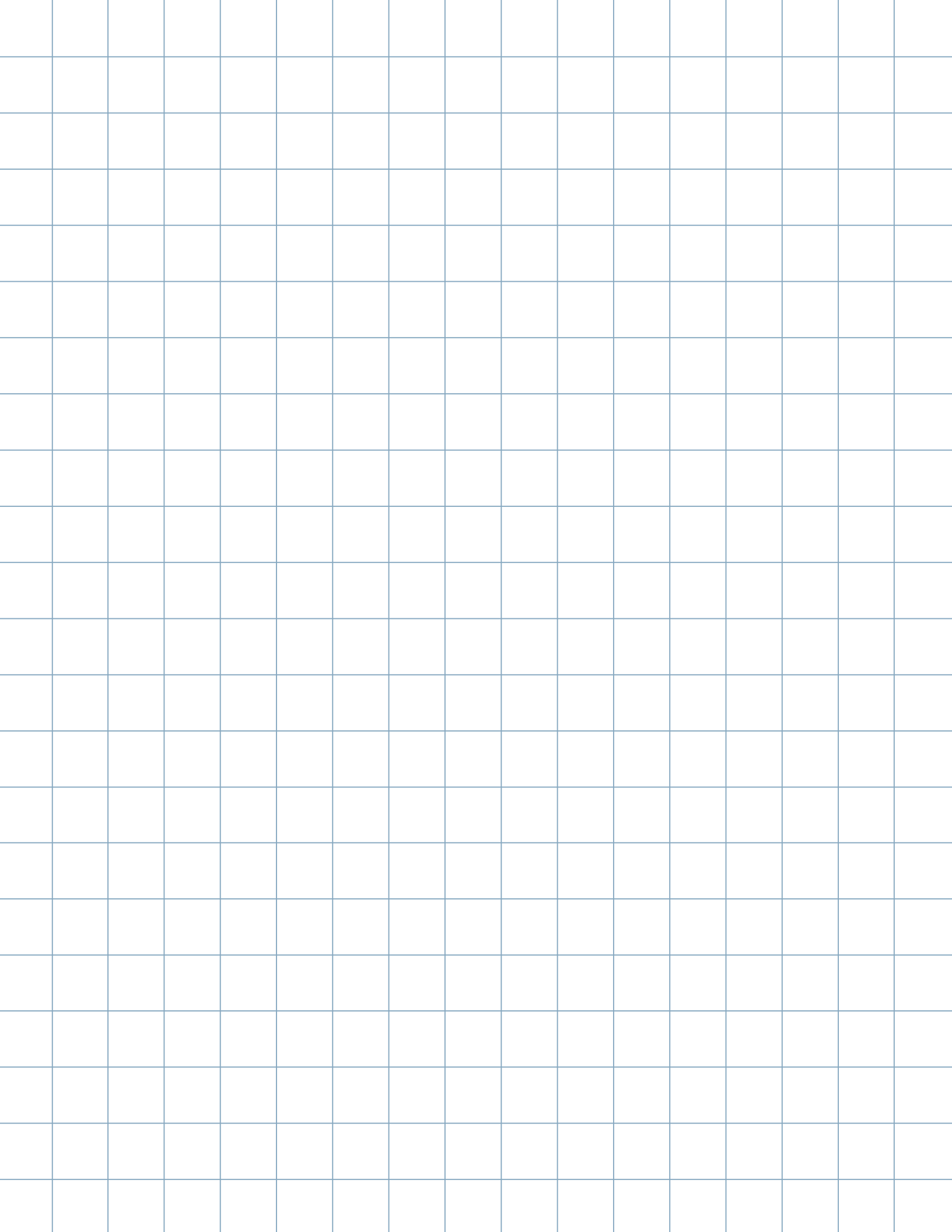
Maximum flow range: up to 2.2 lb/min.

Accuracy:  $\pm 3,0$  %.

Inlet and outlet connections: 1/8" NPTF.



411 103



## 06 INVENTORY MANAGEMENT SYSTEMS

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## IMC CONSOLE



### Part No. 381 192

One product: one dispense point console for stand alone use with one pulser and one dispense point kit for oils.

### Part No. 381 193

Two product: two dispense point console for stand alone use with two pulsers and two dispense point kits for oils.

### Part No. 381 194

One product: one dispense point console with PC interface, software & USB cable with one pulser and one dispense point kit for oils.

### Part No. 381 195

Two product: two dispense point console with PC interface, Software & USB cable with two pulsers and two dispense point kits for oils.

### Part No. 381 190

Console for stand alone use.

### Part No. 381 191

Console with PC interface, software & USB cable.

### Part No. 1068

Dispense point Ready Light.

### Part No. 381 400

Single channel alarm for used fluid tank.

### Part No. 381 401

Two channel alarm for used fluid tank.

### Part No. 381 158

Flashing red light for remote alert.

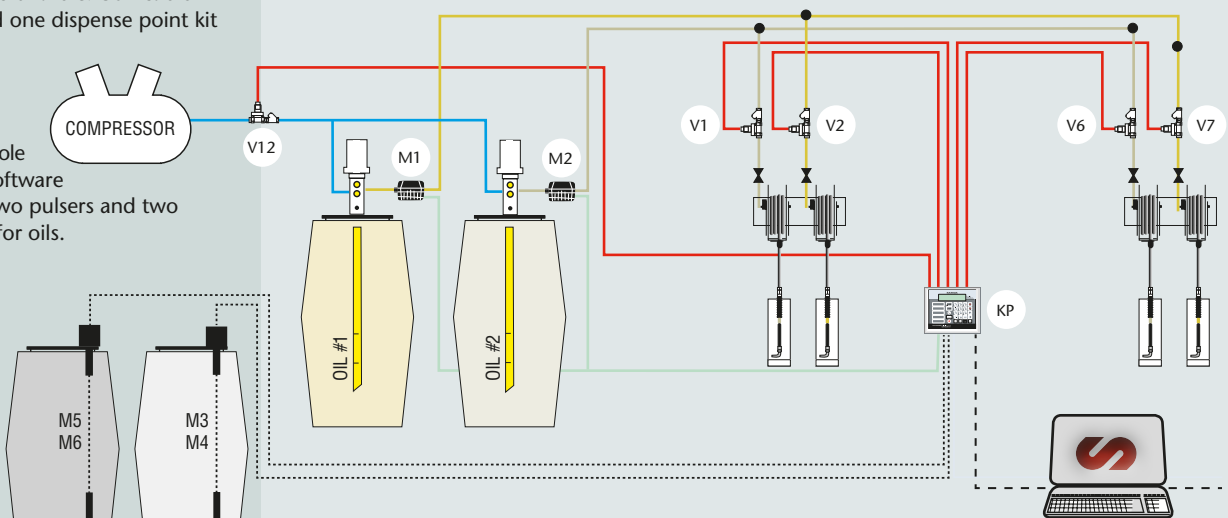
### Part No. 381 161

Dispense point kit for oils: includes solenoid, filter, ready light and connection swivels in one convenient box.

Conceived as a universal replacement console for virtually any of the older competitive consoles on the market for the last thirty years that read a pulse meter mounted at the pump and have solenoids mounted at each reel. Newly upgraded with a significantly larger power transformer, our IMC has proven its durability, economy, and control capabilities in many demanding applications.

- Large keypad buttons for easy use, and a large character, bright LCD back-lit display.
- Built in bypass key switch to open one solenoid for each product for "Emergency Delivery".
- 24 Volts AC, 24 Volts DC – No problem. Internal jumpers allow for switching solenoid voltage back and forth.
- 10 Pulse, 100 Pulse, 95 Pulse – No problem. The unit is delivered preset for 95 pulses per quart, but the setting is easily changed to accommodate almost any pulse meter or pulse rate.
- No programming required. IMC consoles are now delivered preconfigured for 2 products with 5 dispense points assigned for each product, and no PIN required to authorize dispenses. Easily reprogrammed to custom fit any application.
- Controls ten dispensing points total.
- Controls two different products.
- Controls one air solenoid valve for pumps.
- Four float switch connections for two waste tanks.
- USB PC interface unit available, operates with AMS WinPC software.

**Note:** For individual Pulse Meters, Solenoids, and Y Strainers please consult the catalog pages in this chapter for these individual components.



**M1, M2:** PULSE METER (MAX. 2).

**V1, V2, V6, V7:** SOLENOID VALVE AND READY LIGHT (MAX. 10).

**KP:** KEYPAD MODULE.

**V12:** PROGRAMMABLE TIMER FOR CONTROLLING AIR SUPPLY TO PUMPS.

**M3, M5, M6:** HIGH LEVEL ALARMS that sound an alarm on the console and display alarm in window of console.

**M4:** 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.

# AMS SYSTEM

## EASY TO SELL

The leading wired system in North America, with hundreds of installations spanning small garages dispensing fractions of a quart into motorcycle forks to large factories dispensing over fifty pounds of grease in five minutes into windmill bearings, we've done it all. With a 100% success rate.

## PLUS

Unparalleled factory support means that we help all the way from initial consultation with the end user to make sure the system does what is wanted and needed, to generate a correct quotation, cabling layout consultation, and for the first installation with any distributor, an on site factory technician will be present to help with startup, troubleshooting and training.

Unparalleled flexibility with the ability to control virtually any fluid and virtually any size dispense point. This gives you the ability to create dispense points for DEF, Windshield Washer Fluid, Anti Freeze, Diesel, Motor Oil, ATF and almost any fluid or chemical imaginable, and practically any flow rate you need.

## EASY TO QUOTE

Quote your President Keypad from our selection of versions, one per system required. Configure your dispense points using our kits, or make your own from our color coded tables. Count up the total number of dispense points and for every eight dispense quote either a Keypad or a Power Supply, and remember the President can also be used to power eight dispense points. For fresh oil (Dispense Tank) monitoring, quote one TRM for every four tanks and a tank probe for each tank. For Waste Oil (Waste Tank) monitoring quote one ATS for each two tanks and two float switches for each tank.

## EASY TO INSTALL

With the simplicity of a single cable and the new and economically priced IFCU jumper cables the installation times are cut by more than half, and even large systems can often be cabled in one day. Flexible cabling layout options range from a dead simple end to end series layout to the more accommodating and flexible tree/branch layout. Programming is very straightforward and simple, with an automatically configured installation program that takes you through the setup step by step, while constantly working in the background to make sure you don't miss a step or take a wrong step.

## EASY TO USE

The PC software is straightforward, simple and intuitive to use. Four big buttons clearly identified to click on the main screen and a rolling list of completed transactions give the end user all the power and information they need on one screen. The keypads are ready with a simple menu presenting the technician with a short set of simple prompts to take oil. Giant LED displays on each dispense point clearly show the dispense point ID when not in use and the amount being dispensed when in use. And with full simultaneous dispensing – no waiting – every single dispense point can be opened at the same time.

## EASY TO INTERFACE

Samson pioneered the most powerful and flexible DMS interface on the market. With three different easily configured communication paths, and the new official ADP partner interface, rest assured that if it can be done, we can do it.





### KEYPADS AND POWER SUPPLIES

Keypads provide users with access to the fluid outlets or reels. Keypads also include a power supply unit that energizes up to eight solenoid valves simultaneously. A power supply or keypad is needed for each 8 additional dispense points.

Each system must have one President keypad, which includes the communication and software program for controlling the different system components. The number of keypads within a system is almost unlimited.

#### PRESIDENT KEYPADS – QUARTS

One required per system, powers up to eight dispense points.

**Part No. 381 002**

President Keypad with internal ticket printer, includes AMM memory chip.

**Part No. 381 004**

President Keypad, no printer, includes AMM memory chip.

**Part No. 381 003**

President Keypad with internal ticket printer, includes AMM memory chip and with PC interface (NTPC) and AMS-PC PC software.

**Part No. 381 005**

President Keypad, no printer, includes AMM memory chip and with PC interface (NTPC) and AMS-PC PC software.

#### PRESIDENT KEYPADS – LITERS

One required per system, powers up to eight dispense points.

**Part No. 381 012**

President Keypad, no printer, with internal ticket printer, Liters, Includes AMM memory chip.

**Part No. 381 014**

President Keypad, no printer, liters. Includes AMM memory chip.

**Part No. 381 013**

President Keypad with internal ticket printer, liters, Includes AMM memory chip and with PC interface (NTPC) and AMS-PC PC software.

**Part No. 381 015**

President Keypad, no printer, liters. Includes AMM memory chip and with PC interface (NTPC) and AMS-PC PC software.



## EXTRA KEYPADS AND POWER SUPPLY MODULES

Either an additional keypad or an additional power supply is necessary to power eight additional dispense points.

**Part No. 381 000**

Keypad without internal ticket printer.

**Part No. 381 001**

Keypad with internal ticket printer.

**Part No. 381 102**

Power supply unit.



**381 000**



**381 102**

## KEYPAD ACCESSORIES

**Part No. 381 901**

Barcode Scanner; cannot be used in conjunction with Internal Ticket Printer or Card Reader.

**Part No. 381 902**

Magnetic Card Reader; cannot be used in conjunction with Internal Ticket Printer or Barcode Scanner.

**Part No. 381 200**

Internal Ticket Printer Module to retrofit Keypads not originally equipped; cannot be used in conjunction with Barcode Scanner or Card Reader.

**Part No. 381 600**

Quarts AMM Chip, included with President Keypad, can be used to convert regular keypad to President.

**Part No. 381 602**

Liters AMM Chip, included with President Keypad, can be used to convert regular keypad to President.

**Part No. 381 110**

Pedestal to floor mount Keypad.

**Part No. 736 353**

Wall Mount for Keypad. (Optional, Keypad may be directly mounted to wall).

**Part No. 381 905**

Set of five key fobs for activating system in lieu of pin entry.

**Part No. 381 906**

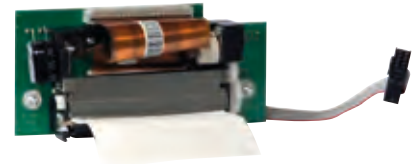
Box of 15 rolls of thermal paper for keypad printer.

**Part No. 94112076**

10 pack of 1.6 Amp 250V 5X20mm Slow Blow replacement fuses.



**381 901**



**381 200**



**381 905**



**381 600**



**736 353**

## DISPENSE POINT CONTROL UNITS

**A** Dispense Point can be a delivery valve at the end of a hose reel, an oil bar, or a similar point where fluid is dispensed. A Dispense Point Control Unit normally includes a pulse meter, a solenoid valve and Y Strainer.

In most cases, and for its use with lubricants and antifreeze solutions, the SAMSON AMS system uses a specially designed 1/2" units that includes in one block the pulse meter, solenoid valve and Y strainer. This single block unit eliminates any possibility of leak and assures an easy installation and a trouble free operation. Additionally this Intelligent Fluid Control Unit (IFCU) includes the communication and control software and hardware required for an efficient and reliable operation.

Larger deliveries that require larger port solenoid valves and meters, and other fluids that require meters and valves manufactured in different materials, can also be controlled using the right pulse meter and solenoid valve connected to an Independent Fluid Dispenser Manager (IFDM). The IFDM module includes the same communications and control software and hardware used in an IFCU and allows integrating any size and material pulse meter and solenoid valve in the system.

Additionally, IFCU and IFDM modules include an LED display that clearly show the dispense point ID when not in use and the amount being dispensed when in use. Connecting each IFCU or IFDM in a reel bank is fast and easy using the plug-and-play factory prepared cable jumpers.



**381 550**



**381 700**

## COMPLETE DISPENSE POINT KITS

### Part No. 381 501

1/2" mono block IFCU for oil. Includes strainer, pulse meter, solenoid and display in one leak proof integrated unit. 1,500 psi maximum working pressure. 100 ppl / 95 ppq resolution.

### Part No. 381 551

1/2" fluid dispense unit for water based products. 150 psi maximum working pressure.

#### Includes the following:

Part No. 366 053: 1/2" NPT pulse meter for water based fluids. 300 ppl / 284 ppq resolution.

Part No. 1074: 1/2" solenoid valve, 24 VDC.

Part No. 1069: Cast Iron Y strainer, 1/2" NPTF.

Part No. 94122053: 1/2" brass connection nipple (2 pieces).

Part No. 381 550: IFDM fluid control module.

## DISPENSE POINT COMPONENT KITS

### Part No. 381 550

IFDM fluid control module. Includes a remote display and the software and the hardware required for controlling any solenoid valve and pulse meter combination.

### Part No. 381 552

1/2" fluid dispense unit for DEF. 150 psi maximum working pressure. Order IFDM separately.

#### Includes the following:

Part No. 680 301: 1/2" NPT pulse meter for DEF. 300 ppl / 284 ppq resolution.

Part No. 389 002: 1/2" solenoid valve, 24 VDC.

Part No. 945 705: 1/2" stainless steel connection nipple (2 pieces).

### Part No. 381 555

3/4" fluid dispense unit for oils. 1,500 psi maximum working pressure. Order IFDM separately.

#### Includes the following:

Part No. 366 057: 3/4" NPT pulse meter. 109 ppl / 103 ppq resolution.

Part No. 1075: 3/4" solenoid valve, 24 VDC.

Part No. 1079: Cast Iron Y strainer, 3/4" NPTF.

Part No. 2054: 1/2" stainless steel connection nipple (2 pieces).

### Part No. 381 553

3/4" fluid dispense unit for water based fluids and diesel. 150 psi maximum working pressure. Order IFDM separately.

#### Includes the following:

Part No. 366 057: 3/4" NPT pulse meter. 109 ppl / 103 ppq resolution.

Part No. 107 403: 3/4" solenoid valve, 24 VDC.

Part No. 107 900: Brass Y strainer, 3/4" NPTF.

Part No. 94122054: 3/4" connection nipple (2 pieces).

### Part No. 381 700

Remote display unit, (RDU). Allows dispense monitoring from remote locations.



**381 551**



## 1/2" PULSE TRANSMITTERS, 8 - 13 GAL/MIN AND 3/4" HIGH VOLUME PULSE TRANSMITTER, 21 GAL/MIN

Oval gear meters for use as in-line meters for oil, DEF, windshield wash solution or anti-freeze solution depending on the meter wetted materials. They can be wall mounted in the fluid line or at the pump outlet. Meters are shock proof and isolated from the fluid handled and the assembly is enclosed in a TPE molded shroud. Meter has an LED light that indicates when the solenoid valve linked with the meter is open if used in an Inventory Management System.



### ORDERING INFORMATION

PART No.	366 050	366 053	366 055	366 057
<b>WETTED PARTS</b>	<b>ALUMINUM</b> , acetal, AISI 316 stainless steel, NBR	<b>PVC</b> , acetal, AISI 316 stainless steel, Viton®	<b>AISI 316 STAINLESS STEEL</b> , acetal, Viton®	<b>ALUMINIUM</b> , acetal, AISI 316 stainless steel, NBR
<b>APPLICATIONS</b>	Medium pressure dispense of lubricants	Low pressure dispense of DEF, windshield wash and antifreeze solutions	Medium pressure dispense of DEF, windshield wash and antifreeze solutions	Medium pressure dispense of diesel and lubricants
<b>CONNECTION THREADS</b>	1/2" NPTF	1/2" NPTF	1/2" NPTF	3/4" NPTF
<b>FLOW RANGE</b>	1 - 8 gal/min	1 - 13 gal/min	1 - 13 gal/min	2 - 21 gal/min
<b>PULSES PER QUART</b>	310	303	303	103
<b>ACCURACY</b>	+/- 0.5 %	+/- 0.5 %	+/- 0.5 %	+/- 0.5 %
<b>MAXIMUM OPERATING PRESSURE</b>	1,450 psi	450 psi	1,450 psi	1,450 psi
<b>TEMPERATURE RANGE (FLUID)</b>	15 to 140 °F	15 to 140 °F	15 to 160 °F	15 to 140 °F



SOLENOID VALVES

#### Part No. 1065

24 VAC/DC solenoid valve for oil. Medium pressure normally closed solenoid valve for use on AC or DC systems. 1/2" NPTF inlet / outlet, maximum pressure: 3,000 psi. Equipped with protective screen.

#### Part No. 1074

24 VDC solenoid valve for air and water based fluids. Low pressure normally closed solenoid valve. 1/2" NPTF inlet / outlet. Maximum pressure 150 psi.

#### Part No. 389 002

24 VDC Solenoid valve for DEF. Low pressure normally closed solenoid valve with stainless steel body. 1/2" BSPF inlet / outlet, maximum pressure 150 psi.

#### Part No. 1075

24 VAC/DC solenoid valve for oil. Medium pressure normally closed solenoid valve for use on AC or DC systems. 3/4" NPTF inlet / outlet, maximum pressure: 3,000 psi. Equipped with protective screen.

#### Part No. 107 403

24 VDC solenoid valve for air, water based fluids and diesel. Low pressure normally closed solenoid valve. 3/4" NPTF inlet / outlet. Maximum pressure 150 psi.

#### Part No. 107 042

24 VAC solenoid valve for air and water. Low pressure normally opened solenoid valve. 1/2" NPTF inlet / outlet. Maximum pressure 150 psi.



Y STRAINERS

Y strainers with cleanable screen filter.

#### Part No. 1069

Cast Iron, 1/2" NPTF.

#### Part No. 1079

Cast Iron, 3/4" NPTF.

#### Part No. 1089

Cast Iron, 1" NPTF.

#### Part No. 107 900

Brass, 3/4" NPTF.

#### Part No. 108 900

Brass, 1".

## AMS SOFTWARE

Thanks to the Network Protocol Converter (NTPC) and the AMS WIN PC 3.0 software package, it is possible to reliably communicate the AMS system with a PC. System parameters (users, dispense points, tanks, products, etc.) are easily established and the system reporting capabilities are enhanced. The system software allows you to:

- Setup system parameters using a PC or lap top.
- Monitor inventory through declining balance and manual adjustments.
- Email a warning once the fluid inventory reaches a certain warning level.
- Automatic, real time inventory control and adjustment using an additional TRM or ATS tank control module.
- Export transactions to an Excel file.

### Part No. 381 300

NTPC + AMS WinPC Software to convert an existing non PC interfaced system already included with President Keypads Part No. 381 003, 381 005, 381 013 and 381 015.

### Part No. 381 301

NTPC only. Only sold as a verified service replacement.

### Part No. 381 352

AMS WinPC Software only.

## ACP INTERFACE (WEB SERVICE)

**The AMS system can be interfaced with most Management Information Packages using the ACP program.**

- The ACP program allows the AMS Win PC Software to interconnect with the most popular data management systems (DMS) in the market, offering an efficient bidirectional communication.
- Web service interface developed using communication standards (SAOP, XML, WSDL).
- Single or multiple validations of transactions (ex: Job Number, Oil Type, Liters, etc.).
- Export of all transactions data to the customer DMS.
- Other communication formats available (only single validation), such as: Text Files (.TXT) or Database (.ODBC).
- Contact your SAMSON Distributor who will assist you with the ACP software you need.

**VALIDATION**, Single or multiple fields



**DATA EXPORT TO DMS**, Transaction completed



### Part No. 381 660

ACP Generic user configurable Dealer Management Software Interface. (Add on for the AMS WinPC software that is included with President Keypads Part No 381 003, 381 005, 381 013 and 381 015).

### Part No. 381 666

ACP/ADP Dealer Management Software interface. (Add on for AMS WinPC software included with President Keypads Part No. 381 003, 381 005, 381 013 and 381 015).



## CABLE AND ACCESSORIES

The SAMSON Control Master System uses an innovative simple single cable layout. Two sizes are available depending on the length of the cable run and the number of flow control units. Optimizing the system layout for thin cable and prewired jumpers saves labor time and Cost.

Cables are five conductors, with two twisted shielded pairs and one ground. Cables are color coded to match circuit board tables and training/installation materials. Use of Samson Cable or the specified Belden cable is required for warranty consideration and after sales service.

**Part No. 381 953**

18" Samson 22/24AWG thin cable with prewired IFCU connector plugs for IFCU to IFCU connection.

**Part No. 381 956**

1,000' Belden 3084A 22/24AWG thin cable.

**Part No. 381 958**

1,000' Belden 3082A 15/18AWG thick cable.

**Part No. 381 961**

500' Belden 3084A 22/24AWG thin cable.

**Part No. 381 962**

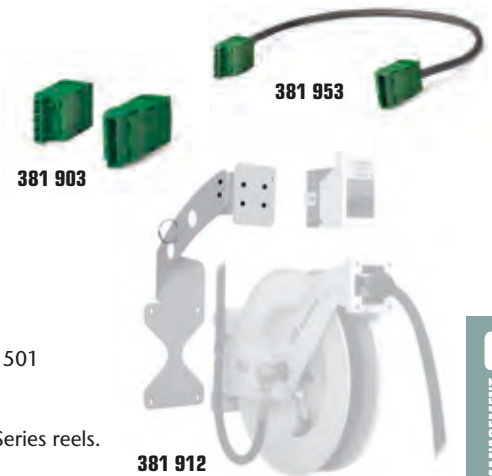
500' Belden 3082A 15/18AWG thick cable.

**Part No. 381 903**

Electrical connector for IFCU. Included with PN 380 501

**Part No. 381 912**

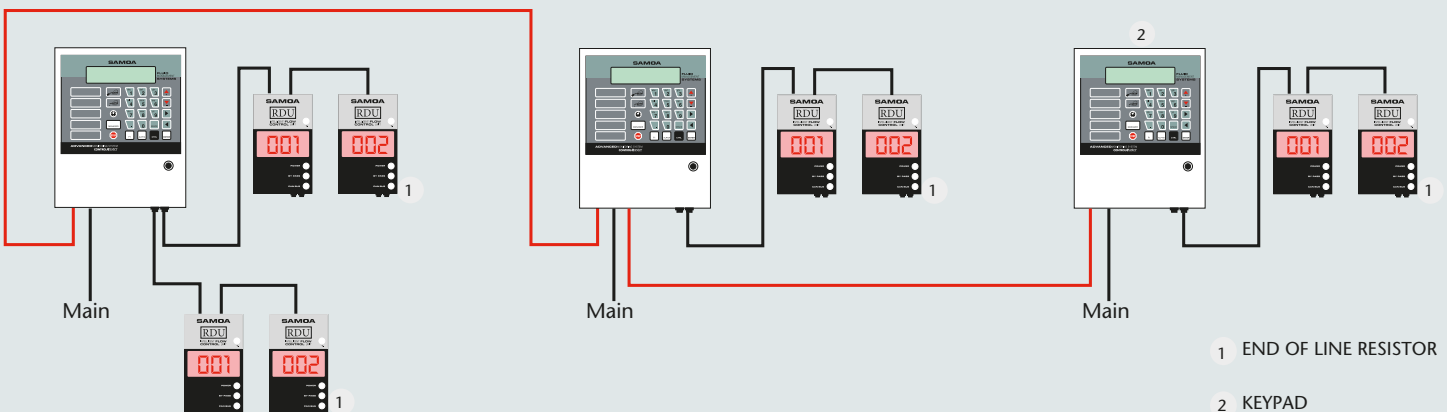
Bracket to mount an IFCU along side 1400 and 504 Series reels.



**CABLE SELECTION TABLE**

NB IFCU	THIN WIRE	THICK WIRE
1	Less than 200'	More than 200'
2	Less than 200'	More than 200'
3	Less than 120'	More than 120'
4	Less than 90'	More than 90'
5	Less than 72'	More than 72'
6	Less than 60'	More than 60'
7	Less than 50'	More than 50'
8	Less than 45'	More than 45'

## SAMPLE WIRING DIAGRAM



## TRM

### THE TANK ROOM MANAGER (TRM)

**The Control Master system has the capability to control a total of 16 tanks/products in any combination of fresh or waste product.**

#### FRESH OILS/LIQUIDS

The Tank Room Manager directly measures the liquid level on dispensing products with a barometric probe, and can be used on virtually any liquid with a known density. In addition, the TRM can manage either one global air solenoid valve for all of the dispensing pumps or each pump individually with separate air solenoid valves in 24VAC or 24VDC. Each TRM measures four tanks, up to a total of 16 tanks in any one system. For waste products use the ATS.

#### Part No. 381 153

Tank Room Manager (TRM) for use with IMS; manages up to four tanks.

#### Part No. 381 157

Tank Room Manager (TRM) for stand alone use; manages up to four tanks.

#### Part No. 381 405

Tank probe; one per tank.

#### Part No. 1074

24 VDC Air Solenoid Normally Closed (NC) Low pressure brass bodied NC solenoid for use as an air solenoid. 1/2" NPTF inlet/outlet. Max 150 psi.

#### Part No. 107 043

24 VDC Air Solenoid Normally Closed (NC) Low pressure brass bodied NC solenoid for use as an air solenoid. 3/4" NPTF inlet/outlet. Max 150 psi.

#### Part No. 108 502

24 VDC Air Solenoid Normally Closed (NC) Low pressure brass bodied NC solenoid for use as an air solenoid. 1" NPTF inlet/outlet. Max 150 psi.



1074

## ATS

### THE ALARM TECH SUPERVISOR (ATS)

#### WASTE OILS/LIQUIDS

The Alarm Tech Supervisor uses float switches to measure the level of Waste Oil or Waste Antifreeze. In addition, the ATS can manage one air solenoid valve in 24VAC to control the waste pump and shut it off at a high level condition.

#### Part No. 381 152

Alarm Tech Supervisor (ATS) for use with IMS; manages up to four tanks

#### Part No. 381 400

Single Bung mount single float sensor.

#### Part No. 381 401

Single Bung Mount two float sensor.

#### Part No. 381 158

Flashing red alarm light for remote location.

#### Part No. 107 042

24 VAC Air 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 150 psi.



## 07 BULK FLUID DISPENSING PACKAGES

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## BULK FLUID DISPENSING PACKAGES

Complete bulk fluid dispensing packages with 140, 230 and 330 Gallon CUBET tanks. CUBET tanks are ULC listed and they are made from HD-8760 high density copolymer that offers the following advantages:

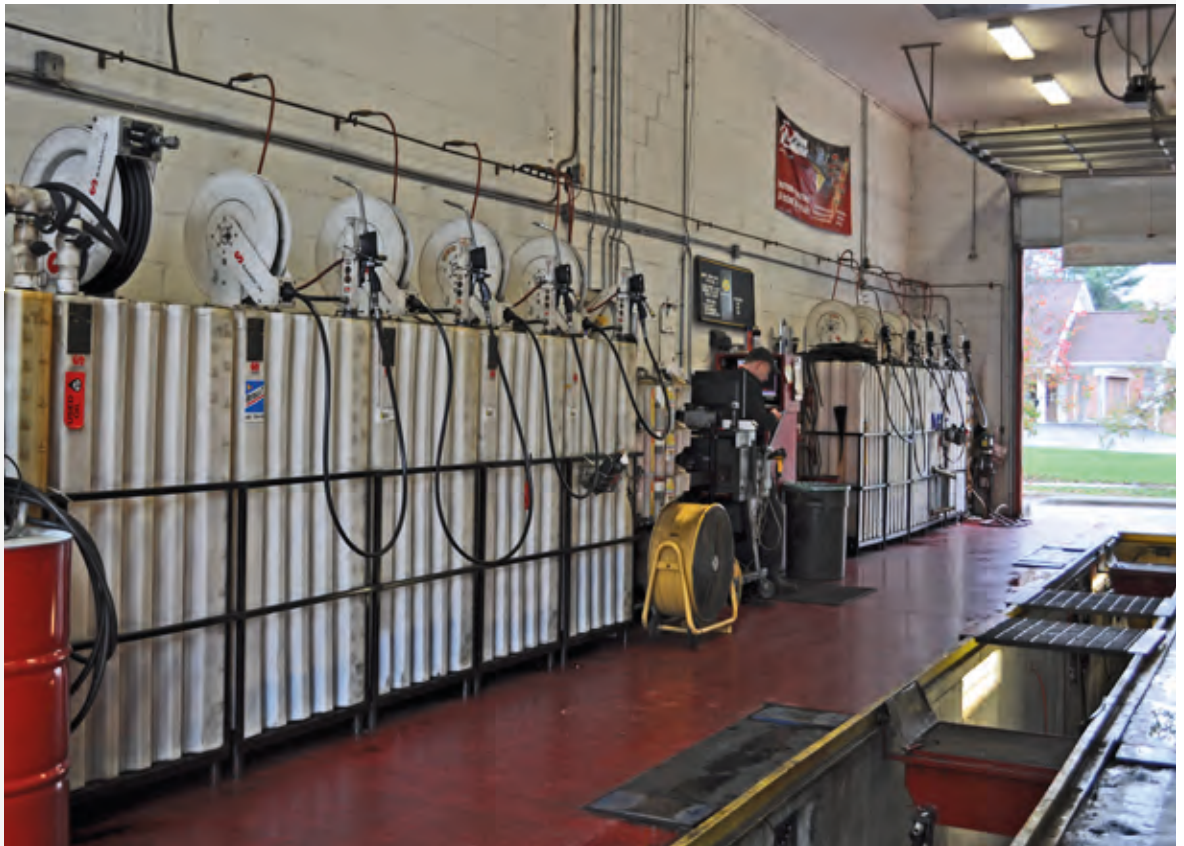
- Environmentally superior.
- Long term UV stabilization.
- 250 mil wall thickness.
- Level always visible, no gauge needed.
- No vent cap needed.
- Will not leak or rust, seamless construction.
- Space saving, conserves floor space.

CUBETS can accommodate oil, water based fluids and other chemicals.

They are also available with a dual containment steel basket that holds 110% of the tank volume.



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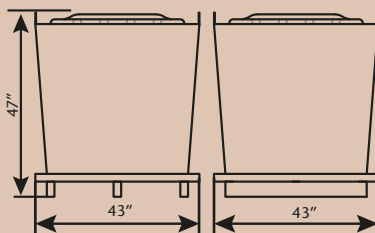
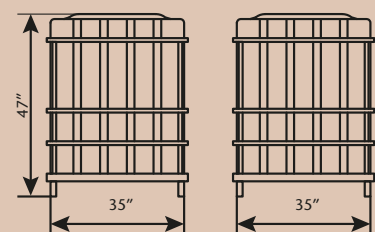
07

BULK  
PACKAGES



## 140 GAL PACKAGES

Dimensions



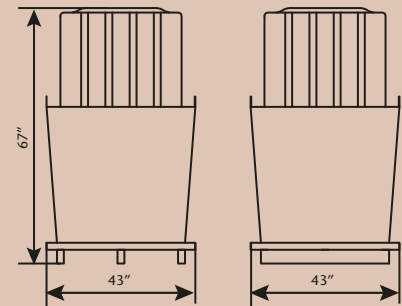
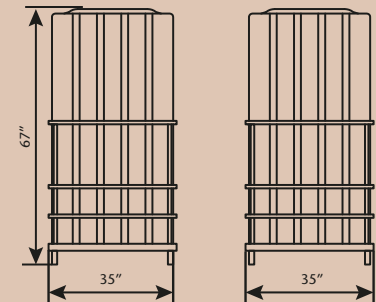
PART No.	DISPENSE HOSE	DISPENSE HANDLE	TANK TYPE	FLUIDS
BARE TANKS				
3140	140 gal tank - tank and cage only		Cage	ALL
3140DC	140 gal tank - tank and dc only		Dual containment	ALL
PACKAGES FOR OIL WITH PM2 3:1 PUMP				
3214	10' Hose 847	Metered handle 365 536	Cage	OILS
3214DC			Dual containment	OILS
3216	30' x 1/2" hose reel 506 202		Cage	OILS
3216DC			Dual containment	OILS
PACKAGES FOR DEF WITH AIR-POWERED DIAPHRAGM PUMP 552 015				
550 004 140	30' x 1/2" hose reel 506 702	Automatic nozzle 688 303	Cage	DEF
PACKAGES FOR DEF WITH 110 V AC ELECTRIC DIAPHRAGM PUMP 560 215				
555 112 140	30' x 1/2" hose reel 506 702	Automatic nozzle 688 303	Cage	DEF
PACKAGES FOR WATER BASED FLUIDS WITH AIR-POWERED DIAPHRAGM PUMP 552 016				
3218	10' Hose 824 2	Dispense handle 186 300	Cage	WWF/AF
3218DC			Dual containment	WWF/AF



## 230 GAL PACKAGES



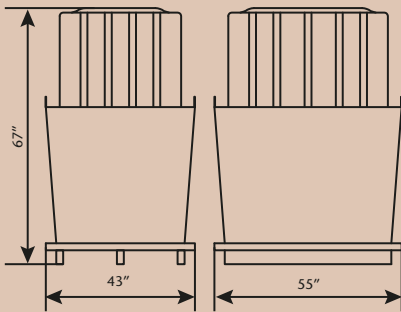
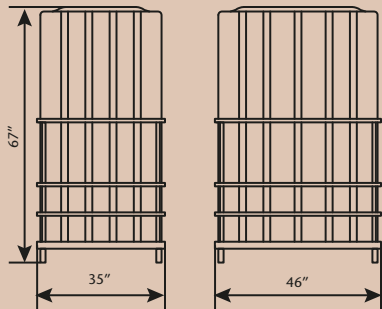
Dimensions



PART No.	DISPENSE HOSE	DISPENSE HANDLE	TANK TYPE	FLUIDS
BARE TANKS				
3223	230 gal tank - tank and cage only		Cage	ALL
3223DC	230 gal tank - tank and DC only		Dual containment	ALL
PACKAGES FOR OIL WITH PM2 3:1 PUMP				
3234	10' Hose 847	Metered handle 365 536	Cage	OILS
3234DC			Dual containment	OILS
3232	30' x 1/2" Hose reel 506 702		Cage	OILS
3232DC			Dual containment	OILS
3236	50' x 1/2" Hose reel 506 722		Cage	OILS
3236DC			Dual containment	OILS
PACKAGES FOR OIL WITH PM4 5:1 PUMP				
3238	50' x 1/2" Hose reel 506 722	Metered handle 365 536	Cage	OILS
3238DC			Dual containment	OILS
PACKAGES FOR DEF WITH AIR-POWERED DIAPHRAGM PUMP 552 164A				
550 004 230	30' x 1/2" Hose reel 506 702	Automatic nozzle 688 303	Cage	DEF
PACKAGES FOR DEF WITH 110 V AC ELECTRIC DIAPHRAGM PUMP 560 215				
555 112 230	30' x 1/2" Hose reel 506 702	Automatic nozzle 688 303	Cage	DEF
PACKAGES FOR WATER BASED FLUIDS WITH AIR-POWERED DIAPHRAGM PUMP 552 164				
3228R	30' x 1/2" Hose reel 506 122	Dispense handle 186 300	Cage	WWF/AF
3228RDC			Dual containment	WWF/AF
3228	10' Hose 824 2		Cage	WWF/AF
3228DC			Dual containment	WWF/AF

## 330 GAL PACKAGES

Dimensions



PART No.	DISPENSE HOSE	DISPENSE HANDLE	TANK TYPE	FLUIDS
BARE TANKS				
3333	330 gal bulk tank - tank and cage only		Cage	ALL
3333DC	330 gal bulk tank - tank and dc only		Dual containment	ALL
PACKAGES FOR OIL WITH PM2 3:1 PUMP				
3334	10' Hose 847	Metered handle 365 536	Cage	OILS
3334DC			Dual containment	OILS
3332	30' x 1/2" Hose reel 506 702		Cage	OILS
3332DC			Dual containment	OILS
3336	50' x 1/2" Hose reel 506 722		Cage	OILS
3336DC			Dual containment	OILS
PACKAGES FOR OIL WITH PM4 5:1 PUMP				
3338	50' x 1/2" Hose reel 506 722	Metered handle 365 536	Cage	OILS
3338DC			Dual containment	OILS
PACKAGES FOR DEF WITH AIR-POWERED DIAPHRAGM PUMP 552 164A				
550 004 330	30' x 1/2" hose reel 506 702	Automatic nozzle 688 303	Cage	DEF
PACKAGES FOR DEF WITH 110 V AC ELECTRIC DIAPHRAGM PUMP 560 215				
555 112 330	30' x 1/2" hose reel 506 702	Automatic nozzle 688 303	Cage	DEF
PACKAGES FOR WATER BASED FLUIDS WITH AIR-POWERED DIAPHRAGM PUMP 552 164				
3328R	30' x 1/2" hose reel 506 122	Dispense handle 186 300	Cage	WWF/AF
3328RDC			Dual containment	WWF/AF
3328	10' Hose 824 2		Cage	WWF/AF
3328DC			Dual containment	WWF/AF

**TANK-LESS PUMP AND REEL PACKAGES**

PUMPMASTER 2 - 3:1 RATIO PUMP AND HOSE REEL PACKAGES FOR 55 GAL DRUMS



	DRUM MOUNTED PACKAGES		WALL MOUNTED PACKAGES	
PART No.	900 305	900 306	900 301	900 302
PUMPMASTER 2 - 3:1 PUMP	354 120	354 120	353 120	353 120
HOSE REEL	506 222 50' x 1/2"	506 222 50' x 1/2"	506 222 50' x 1/2"	506 222 50' x 1/2"
HOSE HOOK UP KIT	904	904	904	904
1/4" MINI FILTER REGULATOR COMBO	955	955	955	955
SUCTION KIT	-	-	912	912
CONTROL HANDLE	365 537	2199 (Preset)	365 537	2199 (Preset)

PUMPMASTER 4 - 5:1 RATIO PUMP AND HOSE REEL PACKAGES FOR 55 GAL DRUMS



	DRUM MOUNTED PACKAGES		WALL MOUNTED PACKAGES	
PART NO.	900 505	900 506	900 501	900 502
PUMPMASTER 4 - 5:1 PUMP	348 120	348 120	347 120	347 120
HOSE REEL	506 222 50' x 1/2"	506 222 50' x 1/2"	506 222 50' x 1/2"	506 222 50' x 1/2"
HOSE HOOK UP KIT	906	906	906	906
3/8" FILTER REGULATOR COMBO	957	957	957	957
SUCTION KIT	-	-	912	912
CONTROL HANDLE	365 537	2199 (Preset)	365 537	2199 (Preset)

## 08 DEF DISPENSING KITS

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## LEVER ACTION AND PNEUMATIC PUMP KITS

### LEVER ACTION PUMP KITS



All Polypropylene construction with EPDM seals, 2" BSP 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 8 oz per stroke. The telescopic suction tube extends from 12.5 to 37 inches to fit most containers, including 5, 16 and 55 gallon commercial sizes. 8 foot dispense hose.

PART No.	DESCRIPTION
<b>300 602</b>	Lever pump (polypropylene / EPDM) with 750 540 8' dispense hose and 361 003 handle
<b>300 601</b>	Lever pump with 750 540 8' dispense hose, 361 003 handle and 366 760 meter



**361 003**



**366 760**



**750 540**

### STANDARD DUTY PNEUMATIC PUMP KITS (UNASSEMBLED) - Directflo® PUMPS (NON-METERED)

Pneumatic kits are complete as shown, with a 991 air regulator/gauge and 930/931 air coupler and nipple. Suction hose end terminates in a 3/4" BSPP (F) PP nipple, order Micromatic suction adaptor separately. Assembly instructions included. (No suction coupler included).

KIT PART No.	PUMP	BRACKET	OUTLET HOSE	HANDLE	METER	INLET HOSE
<b>560 301A</b>	552 164A	360 137	20' (750 538)	Standard 361 003	-	5' Hose
<b>560 303A</b>	552 164A	360 137	20' (750 538)	Automatic 688 303	-	5' Hose

**560 301A**



55 Gallon 275/330 G

**560 303A**



55 Gallon 275/330 G

### STANDARD DUTY PNEUMATIC PUMP KITS (UNASSEMBLED) - Directflo® PUMPS (METERED)

KIT PART No.	PUMP	BRACKET	OUTLET HOSE	HANDLE	METER	INLET HOSE
<b>560 302A</b>	552 164A	360 137	20' (750 538)	Standard 361 003	366 760	5' Hose
<b>560 304A</b>	552 164A	360 137	20' (750 538)	Automatic 688 303	366 760	5' Hose

**NOTE:** Order a 1305 or 1307 and make it portable!

**560 302A**



55 Gallon 275/330 G

**560 304A**



55 Gallon 275/330 G



STANDARD-DUTY KITS WITH SOLURA SERIES PUMP WITH BRACKET (UNASSEMBLED)

Electric pump kits (120V) are complete as shown, with a 10' power cord. Suction hose end terminates in a 3/4" BSPP (F) PP nipple, order Micromatic suction adaptor separately. Assembly instructions included. (No suction coupler included).

KIT PART No.	PUMP	BRACKET	OUTLET HOSE	HANDLE	METER	INLET HOSE
560 301E	560 215	360 137	20' (750 538)	Standard 361 003	-	5' Hose
560 303E	560 215	360 137	20' (750 538)	Automatic 688 303	-	5' Hose



STANDARD-DUTY KITS WITH SOLURA SERIES PUMP WITH BRACKET AND METER (UNASSEMBLED)

Electric pump kits (120V) are complete as shown, with meter and a 10' power cord. Suction hose end terminates in a 3/4" BSPP (F) PP nipple, order Micromatic suction adaptor separately. Assembly instructions included. (No suction coupler included).

KIT PART No.	PUMP	BRACKET	OUTLET HOSE	HANDLE	METER	INLET HOSE
560 302E	560 215	360 137	20' (750 538)	Standard 361 003	366 760	5' Hose
560 304E	560 215	360 137	20' (750 538)	Automatic 688 303	366 760	5' Hose

**NOTE:** Order a 1305 or 1307 and make it portable!



## PORTABLE AND STATIONARY PACKAGES



550 014

555 111

### PREMIUM HEAVY-DUTY PORTABLE PACKAGES

#### Part No. 550 014

Heavy-duty portable air operated package for 55 gallon drum with dispense hose includes 1305 three wheel heavy-duty cart with 552 164A DF50 diaphragm pump, 366 010 DEF meter, 750 524 3/4" x 12' dispense hose with stainless steel fittings, 1/4" filter regulator combo, 1/4" coupler and connector and 688 303 stainless steel automatic nozzle.

#### Part No. 555 111

120 VAC electric pump complete package with portable drum cart. Includes 1305 heavy-duty cart with large pneumatic tires and locking/steering rear caster; allows for easy maneuvering and secure positioning of cart. Includes 560 215 120 VAC swash plate piston pump; 8 gal/min flow rate; 10' power cord, 750 524 3/4" x 12' dispense hose, 688 303 stainless steel automatic shut off nozzle and 366010 battery powered digital meter with display.

#### NOTE:

3/4" Suction hose terminates in 3/4" BSPP (M) fitting, order suction coupler separately from accessories page.



555 004



550 367

### PNEUMATIC PREMIUM HEAVY DUTY STATIONARY PACKAGES

#### Part No. 555 004

Diaphragm pump & hose reel package includes 552 164A DF50 diaphragm pump, 506 702 30' hose reel, 366 010 meter, 955 air filter regulator combo, 950 321 mini air shut off valve, 5' fluid connecting hose, 5' air connecting hose, 8' suction hose and 688 303 stainless steel automatic nozzle. 3/4" suction hose terminates in 3/4" male BSPP O-ring fitting, order suction coupler separately from the accessories page.

#### Part No. 550 367

Diaphragm pump & hose package includes 552 164A DF50 diaphragm pump, 750 524 3/4" x 12' dispense hose, 366 010 meter, 955 air filter regulator combo, 950 321 mini air shut off valve, 5' fluid connecting hose, 5' air connecting hose, 8' suction hose and 688 303 stainless steel automatic nozzle. 3/4" suction hose terminates in 3/4" male BSPP O-ring fitting, order suction coupler separately from the accessories page.



555 112



555 113

### ELECTRIC PREMIUM HEAVY DUTY STATIONARY PACKAGES

#### Part No. 555 112

120 VAC electric pump complete stationary package. Includes 560 215 120 VAC pump; 8 gal/min; 10' power cord, 506 702 30' hose reel, 680 303 stainless steel automatic nozzle, 366 010 battery powered digital meter with display. 3/4" suction hose terminates in 3/4" BSPP (M) Fitting, order suction coupler separately from the accessories page.

#### Part No. 555 113

120 VAC electric pump complete stationary package. Includes 560 215 120 VAC pump; 8 gal/min; 10' power cord, 680 303 stainless steel automatic nozzle, 366 010 battery powered digital meter with display. 12' dispense hose. 3/4" suction hose terminates in 3/4" BSPP (M) Fitting, order suction coupler separately from accessories page.

#### NOTE:

Stationary kits are mounted to a plate that can be mounted to 360 109 wall mount bracket or 360 106 top tote bracket, order separately.

## DEF HANDLES

PART No.	DESCRIPTION
<b>361 001</b>	Plastic manual handle with locking trigger, 3/4" male plastic barb inlet
<b>361 002</b>	Plastic manual handle with locking trigger, 1" male plastic barb inlet
<b>361 003</b>	Plastic manual handle with locking trigger, 1" BSPP female threaded inlet
<b>688 302</b>	Stainless automatic with magnetic interlock and override ring 3/4" BSPP (F)
<b>688 303</b>	Stainless automatic 3/4" BSPP (F)



Spout ext. Ø 3/4"

## METERS, PULSERS, SOLENOIDS

PART No.	DESCRIPTION
<b>366 010</b>	Digital meter totalizer; dispenses in pints, quarts, gallons or liters; 1/2" BSPP (F), 13 gal/min, 450 psi
<b>366 760</b>	Turbine flow meter measures up to 99,999 Units in qt/pt/l/g and totalizes in l/g. Includes resettable and non-resettable totalizer. Polyamide body with polypropylene impeller 1" BSPP (M) inlet and outlet
<b>680 301</b>	Pulser: 1/2 BSPP (F) 8 gal/min
<b>680 299</b>	High volume pulser; 1" BSPP (F) 25 gal/min
<b>389 002</b>	Stainless steel solenoid: 1/2" BSPP (F) 24 VDC: normally closed
<b>389 003</b>	Stainless steel solenoid; 1" BSPP (F) 24 VDC: normally closed



## MOUNTING BRACKETS

PART No.	DESCRIPTION
<b>360 109</b>	Wall mount
<b>360 106</b>	Tote top mount
<b>360 137</b>	Drum/ tote bracket



## SUCTION SYSTEMS

PART No.	DESCRIPTION
<b>910 311</b>	Four prong Micromatic RSV SS/SS coupler
<b>910 311P</b>	Four prong Micromatic RPV composite coupler
<b>910 319</b>	Three prong Micromatic EPV SS/POLY coupler
<b>910 312</b>	Micromatic RSV SS regular NPT bung thread four prong insert (normal bung thread/pipe thread)
<b>910 312P</b>	Micromatic RPV composite regular NPT bung thread four prong insert (normal bung thread/pipe thread)
<b>910 313</b>	Micromatic RSV SS coarse/buttress thread four prong insert
<b>910 313P</b>	Micromatic RPV composite insert coarse/buttress thread four prong insert
<b>910 314</b>	275 IBC/drum length suction tube 41" for Micromatic RSV/RPV insert (cut to 31.5 to fit drum)
<b>910 317</b>	330 IBC/tank length suction tube 60" for Micromatic insert

**NOTE:** RSV and RPV are fully interchangeable with each other and differ only in the materials of construction. EPV is a different system and is not interchangeable.



**NOTE:** Micromatic EPV plastic inserts require special tools and special down tubes to install and are normally only available on single use containers already fitted by the packager. Insert shown for illustration only, not available from SAMSON.



## COUPLERS, FITTINGS AND HOSES

PART No.	STAINLESS STEEL
<b>93160004</b>	1/2" BSPP (M) x 3/4" BSPP (M) SS
<b>93160008</b>	1/2" BSPP (M) x 1/2" BSPP (M) SS
<b>93160023</b>	1/2" BSPP (M) x 1" BSPP (M) SS
<b>93160024</b>	3/4" BSPP (M) x 3/4" BSPP (M) w/seal ring SS
<b>93160005</b>	3/4" BSPP (M) x 1" BSPP (M) SS
<b>944 631</b>	Hose clamp for 1" hose SS
<b>944 628</b>	Hose clamp for 3/4" hose SS
<b>945 708</b>	1" BSPP (F) X 1" BSPP (F) coupler w/base seal SS
<b>945 725</b>	3/4" BSPP (M) x 3/4" hose barb swivel SS
<b>945 731</b>	1" BSPP (F) - 3/4" hose barb swivel SS-PP
<b>945 631</b>	1/2" BSPP (F) swivel nut x 1/2" hose barb SS
<b>945 632</b>	90° 1/2" BSPP (F) swivel nut x 1/2" hose barb SS
<b>945 635</b>	1/2" NPT (M) x 1/2" hose barb SS
<b>945 636</b>	3/4" BSPP (M) x 1/2" HOSE BARB SS
<b>945 703</b>	1/2" BSPP (M) x 1/2" NPT (M) SS
<b>945 705</b>	1/2" BSPP (M) x 1/2" BSPP (M) SS
<b>945 711</b>	1" BSPP (M) x 3/4" BSPP (M) SS
<b>945 722</b>	3/4" BSPP (M) - 3/4" BSPP (M) SS
<b>945 730</b>	1/2" BSPP (M) -1/2" BSPP (F) SS



**945 708**

PART No.	POLYPROPYLENE
<b>689 059</b>	1/2" BSP (M) x 1/2" BSP (M) PP
<b>689 061</b>	1/2" BSP (F) x 3/4" BSP (F) PP
<b>689 062</b>	1/2" BSP (M) x 3/4" BSP (F) PP
<b>689 056</b>	3/4" BSP (F) x 1" BSP (F) PP
<b>689 055</b>	1" BSP (F) x 1" BSP (F) PP
<b>689 060</b>	1" BSP (M) x 1" BSP (M) PP
<b>689 054</b>	1/2" BSP (M) x 3/4" hose barb PP
<b>689 058</b>	90 DEGREE 3/4" BSP (F) x 3/4" hose barb PP
<b>945 580</b>	3/4" BSP (M) x 3/4" hose barb PP
<b>689 045</b>	1" BSP (M) x 3/4" hose barb PP
<b>689 072</b>	1" BSP (F) x 3/4" hose barb PP
<b>689 046</b>	1" BSP (M) x 1" hose barb PP
<b>689 073</b>	1" BSP (F) x 1" hose barb PP
<b>689 076</b>	S64 x 5M (M) buttress to 2" BSP (F) PP



**689 072**

PART No.	DESCRIPTION	HOSE DIAMETER	LENGTH	ONE END	OTHER END
<b>750 522</b>	3' DEF hose 90° x 90°	1/2"	3'	90° cone W O-ring 1/2 (F)	90° Cone W O-ring 1/2 (F)
<b>750 523</b>	8' 1/2" DEF hose 90° x 3/4 BSPP (M)	1/2"	8'	90° cone W O-ring 1/2 (F)	3/4" BSPP (M)
<b>750 524</b>	12' 1/2" DEF hose 90° x 3/4 BSPP (M)	1/2"	12'	90° cone W O-ring 1/2 (F)	3/4" BSPP (M)
<b>750 385</b>	30' 1/2" DEF hose 90° x 3/4 BSPP (M)	1/2"	30'	90° cone W O-ring 1/2 (F)	3/4" BSPP (M)
<b>750 526</b>	8' 3/4" DEF hose 90° x open	3/4"	8'	90° cone W O-ring 1/2 (F)	Open
<b>750 527</b>	3' 1/2" DEF hose 90° x 1" BSPP (M)	1/2"	3'	90° cone W O-ring 1/2 (F)	1" BSPP (M)
<b>750 528</b>	8' 1/2" DEF hose 3/4" BSPP (M) X 1" BSPP (M)	1/2"	8'	3/4" BSPP (M)	1" BSPP (M)
<b>750 530</b>	30" 3/4 (F) sweep x 1" BSPP (M)	3/4"	30"	90° cone W O-ring 3/4 (F)	1" BSPP (M)
<b>750 531</b>	30" 3/4 (F) sweep x 1" BSPP (F) SWIVEL	3/4"	30'	90° cone W O-ring 3/4 (F)	1" BSPP (F) SW
<b>750 532</b>	40" 3/4 (F) sweep x 1" BSPP (F) SWIVEL	3/4"	40'	90° cone W O-ring 3/4 (F)	1" BSPP (F) SW
<b>750 533</b>	50" 3/4 (F) sweep x 1" BSPP (F) SWIVEL	3/4"	50'	90° cone W O-ring 3/4 (F)	1" BSPP (F) SW
<b>750 534</b>	20" 3/4 (F) sweep x 1" BSPP (F) SWIVEL	3/4"	20"	90° cone W O-ring 3/4 (F)	1" BSPP (F) SW
<b>750 535</b>	30" 3/4 (F) sweep x 1" BSPP (F)	3/4"	3'	90° cone W O-ring 3/4 (F)	1" BSPP (F) SW
<b>750 537</b>	50' DEF hose standard duty single braid suction/dispense	3/4"	50'	Open	Open
<b>750 538</b>	20' DEF hose standard duty single braid suction/dispense	3/4"	20'	Open	Open
<b>750 539</b>	5' DEF hose standard duty single braid suction/dispense	3/4"	5'	Open	Open
<b>750 540</b>	8' DEF hose standard duty single braid suction/dispense	1"	8'	Open	Open



## 09 WASTE OIL EQUIPMENT

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**M**obile waste oil drains are used for gravity or suction collection of motor oil and gear oil, as well as other automotive, non-aggressive A-III class fluids. Models for gravity collection are fitted with a telescopic bowl and they can be used under vehicle lifts or inside lubrication pits for collection of the used fluid. All drains include a 5 gallon capacity, height adjustable collection bowl for wider reach. All 27 gallon models include over-sized extension bowl with anti-splash screen. All models are equipped with a level gauge. Once full, depending on model, the reservoir can be discharged either using a remote pump through a hydraulic type connector fitted to the bottom of the unit or pressurizing the unit reservoir at 3.5 psi (0,5 bar) maximum.



**Gravity collection with pressure discharge.** Discharge is done through a 5' hose pressurizing the unit reservoir. Includes a safety valve to avoid over pressurization.

**Part No. 3724**  
**27 gallon** gravity waste oil drainer. Pressure discharge.

**Part No. 3734**  
**18 gallon** gravity waste oil drainer. Pressure discharge.

Order **Part No. 737 968** for optional bowl extension.

**Gravity collection with remote pump discharge.** Discharge is performed by connecting the unit to a wall mounted discharge pump kit through a top mount cam-lock coupler.

**Part No. 3723**  
**27 gallon** gravity waste oil drainer. Remote pump discharge.

**Part No. 3733**  
**18 gallon** gravity waste oil drainer. Remote pump discharge.

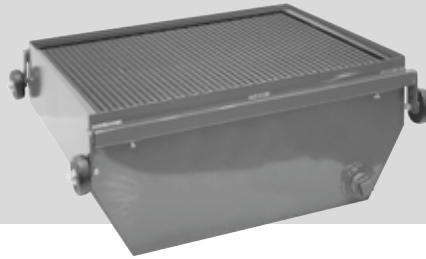
Order **Part No. 737 968** for optional bowl extension.

### USED FLUID COLLECTION - SPECIALTY DRAINERS



#### Part No. 1352

Low boy mobile drainer, 25 gallon. Heavy duty 28 gallon used oil wagon. Only 9" high. Built in baffles and splash deflectors. Heavy duty, 14 gauge construction. Recessed shelf for draining filter. 6" HD wheels. Empties quickly, 3/4" drain valve. Can be easily connected to a pumping system for evacuation. (Order Part No. 1314 dry-break nipple).



#### Part No. 1355

34 gallon rolling pit drain. Heavy duty construction, with anti-splash screen. Accommodates 31 1/2" - 49 1/2" opening. Dimensions: 28" W x 24" L x 12" H.

#### Part No. 1356 (not shown)

Hook up kit for 1355 with short nipple, quarter turn ball valve, camlock coupler and dust cap.



#### Part No. 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. 9 gallon capacity, air discharge to empty unit. Drain tray adjusts from 29" to 37" high.



#### Part No. 1347

Deluxe 17", 5 gallon funnel with drain tube, dipstick and 2" bung bushing adaptor (fits 16 gal bung type). Drum not included).

#### Part No. 1349 (not shown)

Deluxe 17", 5 gallon funnel with drain tube, dipstick and 16 Gal drum cover. (Drum not included).

#### Part No. 737 968 (not shown)

25" plastic extension bowl insert with anti-splash screen.

#### Part No. 1360

Heavy Duty pedestal type drain. Extends to 78". Includes Heavy Duty deluxe 17", 5 Gal bowl. Order 1361 valve adaptor extra.

#### Part No. 1361

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



#### Part No. 373 344

All metal under-vehicle used fluid drain. Functional and economical 7 gallon capacity used fluid drain. Features a 11-1/4" diameter bowl with filter; height adjustable from 38" to 66".



#### 1351 SERIES

Oil drains designed for 16 gallon kegs, include a 17" steel drain bowl with gallon capacity, unique keg cover with anti-leak lip, telescopic drain tube dipstick level indicator, bung adaptor and four wheel band dolly.

#### Part No. 135 100

For use on customer supplied 16 gallon keg.

#### Part No. 135 101

Complete with 16 gallon keg supplied in package.

#### Part No. 135 103

Complete with top-mounted suction kit (suction tube and dry break nipple), for use with customer supplied 16 gallon keg.

#### Part No. 135 104

Complete with top-mounted suction kit (suction tube and dry break nipple), and 16 gallon keg supplied in package.



## COMBINED OIL SUCTION AND GRAVITY COLLECTION UNITS

Can be used remotely once vacuum is created inside the steel reservoir. Telescopic collection bowl with extension bowl insert and anti-splash grid.

**Part No. 3725**  
**27 gallon** combined oil suction and gravity collection unit.

**Part No. 3720**  
**27 gallon** combined oil suction and gravity collection unit. With 10 quart transparent chamber that can be used as vacuum reservoir and allows inspection of the extracted waste oil.

## OIL SUCTION UNITS

Can be used remotely once vacuum is created inside the steel reservoir.

**Part No. 3721**  
**27 gallon** oil suction unit. With 10 quart transparent chamber that can be used as vacuum reservoir and allows inspection of the extracted waste oil.

**Part No. 3726**  
**27 gallon** oil suction unit. With 10 quart transparent chamber that can be used as vacuum reservoir and allows inspection of the extracted waste oil.



3735

## COMBINED OIL SUCTION AND GRAVITY COLLECTION UNIT

Can be used remotely once vacuum is created inside the steel reservoir. Discharge through hose by pressurizing the unit.

### Part No. 3735

**18 gallon** combined oil suction and gravity collection unit.



3731

## OIL SUCTION COLLECTION UNIT WITH TRANSPARENT CHAMBER

Includes a 10 quart transparent chamber that can be used as a vacuum reservoir and allows an immediate inspection of the extracted waste oil. Can be used remotely once vacuum is created inside the steel reservoir. Discharge through hose by pressurizing the unit.

### Part No. 3731

**18 gallon** waste oil suction collection unit with transparent chamber.



3736

## OIL SUCTION COLLECTION UNITS

Can be used remotely once vacuum is created inside the steel reservoir.

### Part No. 3736

**18 gallon** waste oil suction collection unit. Discharge through hose by pressurizing the unit.

### Part No. 3716

**6 gallon** waste oil suction collection unit.



3716

### EVACUMASTER WASTE OIL SUCTION UNIT

Single point waste oil suction unit for collecting waste oil directly from the vehicle's engine using a suction wand inserted into the engine oil dipstick tube. The unit is installed alongside the service bay and provides the cleanest method for waste oil collection.

Direct extraction from engine to storage tank eliminates operator contact with waste oil and eliminates spills. It also eliminates the use of mobile units and all leaking drain plug issues.

An air operated pump, specially designed for suction applications, extracts the waste oil and pumps it to a remote storage tank. The unit can be used together with a waste oil hose reel (506 503 or 507 503) for extended reach.

The unit includes a special piston pump for waste oil suction, on/off valve, air filter with pressure regulator, vacuum gauge for monitoring unit performance, extra large capacity suction filter, 9' (3 m) suction hose and complete kit of suction wands and adaptors.

#### Part No. 379 711

Wall mounted waste oil suction unit.

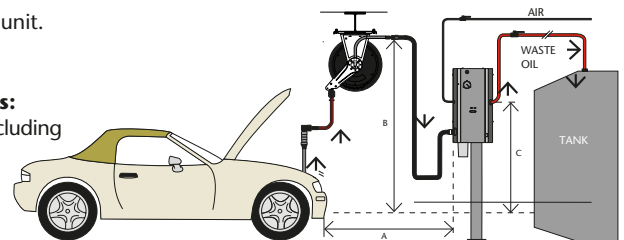
#### Part No. 379 710

Pedestal mounted waste oil suction unit.

#### TYPICAL INSTALLATION

##### Maximum installation distances:

- A:** Maximum distance 36' (12 m), including hose reel hose fully extended.
- B:** Maximum suction height, 8' (2,5 m).
- C:** Maximum height between pump outlet and engine oil sump level, 3' (1 m).



### EVACUMASTER WASTE OIL PORTABLE UNIT

#### Part No. 379 707

Evacumaster 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.

#### Part No. 379 708

Evacumaster with Drain Bowl. Same as the Part No. 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 drain plug. Drain can be pressurized for evacuation into the shop tank.



379 708



379 707

**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.



## WASTE OIL EVACUATION PUMP KIT

### Part No. 379 701

Wall mounted waste oil evacuation package with 1" UL listed diaphragm pump.

#### Includes the following:

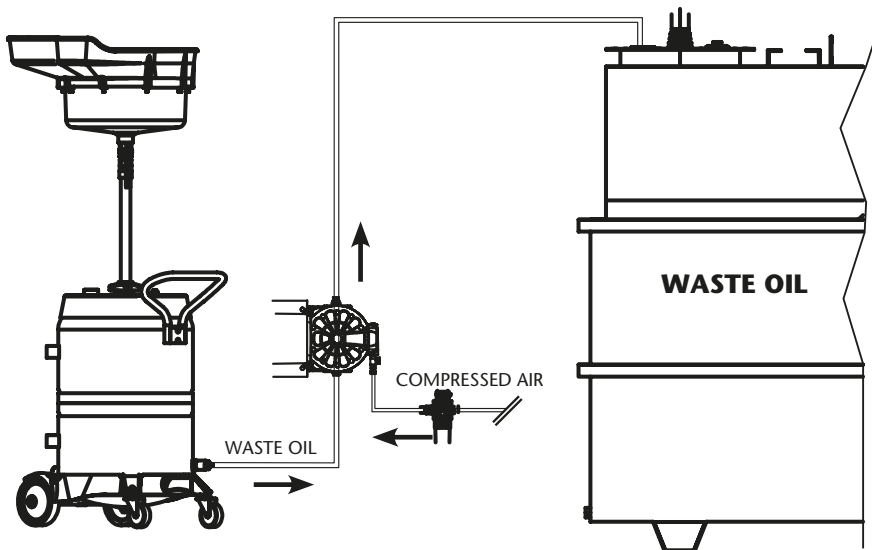
Part No. 2834, UL listed 1" aluminum diaphragm pump with Buna-N diaphragms  
 Part No. 360 109, wall bracket  
 Part No. 955, air filter and regulator combo, 1/4" NPTF  
 Part No. 2048, pump to air filter and regulator connector  
 Part No. 2055, 1" NPTBE nipple  
 Part No. 1589, 1" polypropylene T strainer filter.  
 Part No. 1313, 3/4" dry break coupler  
 Part No. 1314, 3/4" dry break nipple  
 Part No. 801, air hose, 1/4" NPT  
 Part No. 863, 1" x 5' fluid outlet hose  
 Part No. 930, 1/4" FPT air coupler  
 Part No. 931, 1/4" FPT air nipple



379 701

### Part No. 379 016

Waste oil evacuation pump kit, same as Part No. 379 701 except with DF100 central flow aluminum diaphragm pump with TPE diaphragms. (Not UL listed pump).



379 016

In some circumstances, it might be required to mount the DF diaphragm pump vertically to facilitate air evacuation. In this case, mount the pump with the fluid inlet looking downwards and the fluid outlet looking upwards.

## USED OIL SUCTION WANDS AND ADAPTORS

INDIVIDUAL WANDS AND ADAPTORS			WAND AND ADAPTOR KITS				
Part No.	Type	Description OD x ID x Length	737 950*	1925	1926	1927**	737 975
<b>737 946</b>	Flex	0.31 x 0.23 x 66.92"					
<b>737 947</b>	Adaptor	AUDI, VOLKSWAGEN GROUP	•			•	
<b>737 948</b>	Adaptor	PEUGEOT GROUP	•			•	
<b>737 949</b>	Flex	0.27 x 0.19 x 39.37"	•				•
<b>737 951</b>	Flex Differential Wand	0.47 x 0.39 x 39.37"					
<b>737 952</b>	Flex	0.23 x 0.15 x 27.55"	•	•		•	•
<b>737 953</b>	Flex	0.31 x 0.23 x 27.55"	•	•		•	•
<b>737 954</b>	Rigid Copper	0.19 x 0.15 x 27.55"	•				
<b>737 955</b>	Rigid Copper	0.23 x 0.19 x 27.55"	•				•
<b>737 958</b>	Flex	0.23 x 0.15 x 47.24"			•	•	
<b>737 959</b>	Flex	0.31 x 0.23 x 47.24"			•	•	
<b>737 960</b>	Flex	0.19 x 0.15 x 27.55"		• (2)		• (2)	
<b>737 961</b>	Flex	0.19 x 0.15 x 39.37"			• (2)	• (2)	
<b>737 972</b>	Wand Holder	Plastic wand holder					

\* Included in all 3700 series portable packages.

\*\* Included in all 3797 packages.

## USED FLUID SYSTEM ACCESSORIES

### HIGH LEVEL COMPRESSED AIR CONTROL DEVICE

#### Part No. OA-1

Air operated bung mounted high level control device constructed of anodized aluminum. Float activated unit activates when high level is reached by sounding a whistle and a positive air line control. UL Listed, normally open, turns off air when in alarm

#### Part No. 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

#### Part No. 1089 - 1" Cast Iron 'Y' Strainer

Solid cast iron construction and 40 mesh screen

#### Part No. 1313 - 3/4" Dry Break Coupler

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

#### Part No. 1314 - 3/4" Dry Break Nipple

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

#### Part No. CAM 7C - 3/4" Camlock Cap

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

#### Part No. CAM 7P - 3/4" Camlock Plug

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

#### Part No. CAM 7D - 3/4" Camlock Coupler

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

#### Part No. CAM 7M - 3/4" Camlock Coupler

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

#### Part No. CAM 7F - 3/4" Camlock Nipple

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

#### Part No. CAM 7A - 3/4" Camlock Nipple

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

#### Part No. 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

#### Part No. 2392 - 3/4" Four Way Reversing Valve (not shown)

Same as 2391 but uses 3/4" NPTF ports

#### Part No. 94112004 Special Adaptor

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



## 10 LUBRICATION TOOLS AND ACCESSORIES

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## LEVER ACTION GREASE GUNS



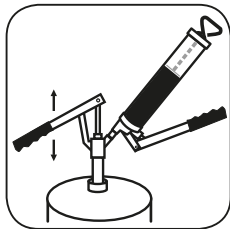
Locking with ratchet



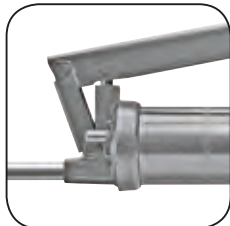
Suction filling



Cartridge loading



Loading with filler pump



Rugged cast-iron gun head for durability

All SAMSON lever action grease guns have the following features and benefits:

- Very tough, Heavy Duty, cast iron head for maximum durability, uniform pressure and flow.
- Precision machined piston ensures leak free high pressure operation without requiring the use of seals.
- Heavy duty knurled barrel with large pitch threads for easy barrel removal and installation.
- Locking follower rod, heavy duty beveled follower and spring.
- Supplied ready to fill using various methods (cartridge, loader pump and suction).



1205

### 14 OZ CARTRIDGE OR 16 OZ BULK GREASE GUNS

Universal grease guns to be used with 14 oz (400 g) grease cartridges or with bulk grease. Bulk grease loading by suction or using a filler pump. Maximum working pressure: 7,500 psi (500 bar).

#### Part No. 1200

Standard duty grease gun complete with rigid pipe outlet and 3 jaw coupler; includes port for optional filler fitting.

#### Part No. 1205

Heavy-Duty gun complete with rigid pipe outlet and 3 jaw coupler; also includes filler fitting and vinyl handle grip.

#### Part No. 1206

Same as Part No. 1205 except with flex hose outlet and 3 jaw coupler.

#### Part No. 1210

Professional Series gun with variable stroke handle for use in heavy-duty constant use applications; also includes filler fitting, air bleeder valve, rigid pipe outlet with 3 jaw coupler, vinyl handle grip and removable valve checks.

#### Part No. 1212

Same as Part No. 1210 except with 360° adjustable rigid outlet pipe which locks in any position.



## DELUXE PISTOL-GRIP SERIES

### Part No. 1220

Heavy duty high pressure cast iron head. Straight outlet pipe and coupler with ball check and hardened jaws.

Head has port for optional filler fitting.

Heavy duty barrel with large threads and rubber seal.

Heavy duty rod, spring and follower.

One hand action for hard to reach fittings.

Rugged baked enamel finish.

Capacity per stroke: 0.04 ounce.

### Part No. 1221 (Not shown)

Same as 1220 except with flex hose.

Capacity per stroke: 0.04 ounce.



1220

## PROFESSIONAL PISTOL-GRIP SERIES

### Part No. 1222

Has all the features of Part No. 1220 Plus:

Removable valve checks for ease of maintenance.

Air bleeder valve.

Filler fitting for 3-way loading.

Metallic baked finish.

Zinc plated handle and linkage.

Vinyl handle grip.

Capacity per stroke: 0.04 ounce.

### Part No. 1227 (Not shown)

Same as 1222 except with flex hose. Capacity per stroke: 0.04 ounce.



1222

## PROFESSIONAL SUCTION PUMP SERIES

### Part No. 1225

Clear vinyl flex hose with removable holding clip.

Heavy duty 16 oz capacity, knurled barrel.

Large positive pull handle.

Metallic baked finish.



1225

## STANDARD GUN SERIES

### Part No. 1230

Single shot non-reciprocating 40:1 air motor.

Filler fitting for 3-way loading.

Air bleeder valve

Curved outlet pipe and coupler.

Baked enamel and zinc plate finish.



1230



## AIR OPERATED GREASE GUNS

### Part No. 1233

#### PROFESSIONAL GUN SERIES - SINGLE SHOT

Air operated, 60:1 pressure ratio grease gun.  
Uses standard 14 oz grease cartridges.  
Combination bleeder valve and filler fitting  
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.  
Air connection: 1/4" NPTF.  
Trigger shots per oz delivered: 30.

### Part No. 1235

#### SPECIAL INDUSTRIAL SERIES - SINGLE SHOT

Air operated, 60:1 pressure ratio grease gun.  
Unique, exclusive air powered follower plate, ideal for heavy greases.  
Large 33 1/2 oz capacity heavy duty knurled barrel.  
Filler fitting for 2-way loading.  
Wire braid flex hose extension and coupler.  
Air connection: 1/4" NPTF.  
Trigger shots per oz delivered: 30.



1233



1235

## BATTERY OPERATED GREASE GUN

### Part No. 160 100

18 V Ni-MH Battery grease gun suitable for use with either bulk grease loading or grease cartridges.

#### Includes the following:

- Heavy duty carrying case.
- 2 rechargeable battery packs
- 1 hour 120 V quick battery charger.
- 3' grease outlet hose with spring kink protector at each end and 3 jaw grease coupler.
- Air bleeder valve.
- Shoulder strap.

### Part No. 160 101

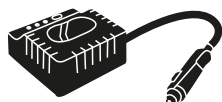
Same as Part No. 160 100 but with Li-ION batteries, for lighter weight and improved battery life.

#### TECHNICAL SPECIFICATIONS

<b>BATTERY PACKS</b>	2 x 18V / 1500 mAh
<b>BATTERY CHARGER</b>	1 hour, 120V
<b>MAX PRESSURE</b>	8,000 psi (450 bar)
<b>TOTAL WEIGHT (APPROX.)</b>	18.7 pounds (8,5 kg)
<b>GUN WEIGHT (APPROX.)</b>	8.4 pounds (3,8 kg)
<b>DELIVERY HOSE LENGTH</b>	42" (105 cm)
<b>FLOW RATE</b>	3 oz/min (90 g/min)
<b>CASE DIMENSIONS</b>	16 1/2" x 21 1/2" (420 mm x 550 mm)

#### SPARE PARTS

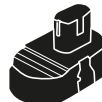
<b>Part No. 169 004</b>	Carry case
<b>Part No. 710 776</b>	Grease barrel
<b>Part No. 946 402</b>	Grease barrel to gun head seal
<b>Part No. 169 012</b>	Outlet hose



**169 001** - 12V battery charger (only for 160 100) with cigarette lighter plug.



**169 002** - 120V Ni-MH battery charger.  
**169 011** - 120V Li-ION battery charger.



**169 003** - 18V Ni-MH battery pack.  
**169 009** - 18V Li-ION battery pack.

**VERY IMPORTANT: NEVER INTERCHANGE** battery packs and/or battery chargers between Ni-MH (160 100) and Li-ION (160 101) versions.

## GREASE FITTINGS

### 1/4" - 28 TAPER

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



### 1/4" PIPE

<b>687</b>	1/4" Pipe thread, straight
<b>689</b>	1/4" Pipe thread, 65° angle



### 1/8" PIPE

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



### GREASE FITTING PACKAGES



DESCRIPTION	PART No.		
	650 100	650 200	650 300
1/4"- 28 TAPER STRAIGHT - 651	26	-	30
1/4"- 28 TAPER 90° - 656	12	-	-
1/4"- 28 TAPER 45° - 657	12	-	12
1/8" PIPE STRAIGHT - 674	26	-	30
1/8" PIPE 45° - 678	12	-	12
1/8" PIPE 90° - 673	12	-	12
1/4" PIPE 45° - 688	-	-	12
6 mm x 1.00 STRAIGHT - 691	-	26	12
6 mm x 1.00 45° - 694	-	12	12
6 mm x 1.00 90° - 697	-	12	-
8 mm x 1.00 STRAIGHT - 692	-	26	-
8 mm x 1.00 45° - 695	-	12	12
8 mm x 1.00 90° - 698	-	12	-

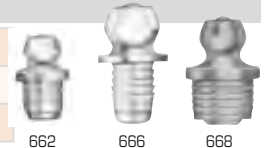
### METRIC

<b>691</b>	6 mm x 1.0, straight
<b>692</b>	8 mm x 1.0, straight
<b>694</b>	6 mm x 1.0, 45° angle
<b>695</b>	8 mm x 1.0, 45° angle
<b>697</b>	6 mm x 1.0, 90° angle
<b>698</b>	8 mm x 1.0, 90° angle



### DRIVE TYPE

<b>662</b>	1/4" Drive type, straight
<b>666</b>	3/16" Drive type, straight
<b>668</b>	5/16" Drive type, straight



### BUTTONHEAD FITTINGS

<b>1290</b>	Standard - 1/8" MPT
<b>1291</b>	Standard - 1/4" MPT
<b>1292</b>	Giant - 1/4" MPT
<b>1293</b>	Giant - 1/4" MPT



Grease fittings are available individually or in the following package configurations. Use the fitting number with applicable 3 digit suffix for quantity and packaging requested. See example below for Model 692 (8 mm x 1 mm Metric Fitting).



<b>010</b> PLASTIC BAG OF 10 FITTINGS	<b>011</b> CLAMSHELL PACK OF 10 FITTINGS	<b>020</b> PLASTIC BAG OF 20 FITTINGS
<b>692 010</b>	<b>692 011</b>	<b>692 020</b>



<b>021</b> CLAMSHELL PACK OF 20 FITTINGS	<b>050</b> PLASTIC BAG OF 50 FITTINGS	<b>100</b> PLASTIC BAG OF 100 FITTINGS	<b>500</b> 500 BOX FITTINGS
<b>692 021</b>	<b>692 050</b>	<b>692 100</b>	<b>692 500</b>

## SPECIALTY GREASE PUMPS



1996



1995

### BUCKET PUMPS

Bucket pumps include a 35 lb leak proof, all steel oval shaped bucket with carrying handle and foot rest for easy handling and stability.

#### Part No. 1996

Multi pressure grease bucket pump. High pressure 6,000 psi lever action grease pump. Oval shaped 35 lb steel container with foot rest. Includes 7' grease hose and hydraulic coupler. Adjustable pressure and volume. Capacity per stroke: 0.04, 0.03, 0.02 pound (depending on the position of the lever).

#### Part No. 1995

3.6 gallon oil bucket pump for dispensing high viscosity lubricants. Includes a medium pressure lever action pump with a 5' rubber hose with shut off valve and 135° angled nozzle.



1999



1984

### PEDAL ACTION GREASE PUMP 11 lb

#### Part No. 1999

Pedal action grease pump. 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 11lb steel container. Capacity per stroke: 0.06 ounces.

### HIGH PRESSURE GREASE PUMPS

#### Part No. 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. Capacity per stroke: 0.06 ounces.

#### Part No. 1994

Heavy duty hand operated high pressure (5,000 psi) grease pump unit. Fits 120 lb keg. Complete with pump, cover, 5' hose, pipe with coupler and follower plate. Capacity per stroke: 0.06 ounces.

## FILLER FITTINGS, COUPLERS, ADAPTORS



**1209**  
Filler fitting thin type,  
1/8"NPTM



**1251**  
Rubber tip seal-off adaptor,  
1/8"NPTF



**1213**  
Filler fitting standard  
1/8"NPTM



**1252**  
Needle nose adaptor,  
1/8"NPTF



**1214**  
Air bleeder valve  
1/8"NPTM



**1254**  
Needle nose adaptor with  
lock sleeve, 1/8"NPTF



**1226**  
Standard buttonhead  
coupler, 1/8"NPTF



**1255**  
Lock sleeve, 1/8"NPTM



**1228**  
Giant buttonhead coupler,  
1/8"NPTF



**1257**  
Lock sleeve, 1/8"NPTF



**1237**  
Clamp type hand lever  
grease gun holder



**1265**  
90° adaptor, coupler and  
lock sleeve, 1/8"NPTF



**1250**  
Injector needle  
adaptor



**1266**  
Threaded swivel adaptor,  
1/8"NPTF



**1267**  
Rubber tip seal-off with  
lock sleeve, 1/8"NPTF



**1270**  
Rigid flex adaptor with  
hydraulic coupler, 1/8"NPTF

## GREASE OUTLET HOSES FOR HAND OPERATED EQUIPMENT

Grease outlet hoses, 3,000 psi, 1/8" NPTM.

<b>1260</b>	Whip hose	12"
<b>1262</b>	Whip hose	18"
<b>1264</b>	Whip hose	24"
<b>1229</b>	Whip hose with giant buttonhead coupler	18"
<b>1249</b>	Whip hose with giant buttonhead coupler and lock sleeve	18"
<b>1259</b>	Whip hose with 4 jaw narrow coupler	12"
<b>1269</b>	Whip hose with 4 jaw narrow coupler and lock sleeve	12"



**1260**



**1229**



**1249**



**1269**

## GREASE OUTLETS

For use with hand operated equipment.

<b>1201</b>	6" Curved outlet pipe; 1/8" NPTM x 1/8" NPTM
<b>1202</b>	6" Curved outlet pipe with 1224 coupler; 1/8" NPTM
<b>1203</b>	6" straight outlet pipe; 1/8" NPTM x 1/8" NPTM
<b>1204</b>	6" Straight outlet pipe with 1224 coupler; 1/8" NPTM
<b>1211</b>	6" Curved outlet pipe with 360° adjustable locking outlet nut and 1224 coupler; 1/8" NPTM
<b>1224</b>	4 Jaw narrow coupler; 1/8" NPTF



**1201**



**1202**



**1203**



**1204**



**1211**



**1224**

For use with air operated equipment.

<b>1122</b>	Angled rigid outlet with 1124 coupler; 1/8" NPTM
<b>1120</b>	Angled rigid outlet; 1/8" NPTM x 1/8" NPTM
<b>1124</b>	3 Jaw high pressure coupler
<b>121 000</b>	3 Jaw high pressure narrow coupler



**1122**



**1120**



**1124**



1011



1021



1322



1320

## PORTABLE HAND OPERATED LUBE PUMPS

For gear lube and ATF

### Part No. 1011

Hand operated, non metered, multi fluid dispenser for 16 gal open top drum. Includes:

Part No. 1000: hand operated pump with cover mounting adaptor.

Part No. 1304: Four wheel band dolly.

Part No. 1936: Deluxe drum cover for 16 gal drums.

Part No. 731 210: 5' fluid hose assembly with curved nozzle.

### Part No. 1021

Same as 1011 except with 366 000 electronic meter 366 000, and 5' fluid hose with shut off valve 731 310 and curved outlet nozzle 1136.

## PRESSURIZED LUBE DISPENSERS

### Part No. 1322

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. 6 1/2" gallon tank with sight gauge, 5' clear visible dispensing hose and electronic meter fluid control handle.

### Part No. 1320

Same as 1322 except with non-metered lube handle.



1986



1988



1991



1987

## GEAR OIL DISPENSERS

### Part No. 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.

## GREASE GUN FILLER PUMPS

### Part No. 1988

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

### Part No. 1989

Same as Part No. 1988 except with drum cover and follower plate to fit 120 lb kegs.

## BEARING PACKERS

### Part No. 1991

Heavy Duty hand operated bearing packer. Fits 35 lb pail. Complete with pump, cover, packet, dust cap and follower plate.

### Part No. 1992

Same as Part No. 1991 except with drum cover and follower plate to fit 120 lb kegs.

## FILLER PUMPS FOR CENTRALIZED GREASING UNITS

### Part No. 1987

Heavy Duty hand operated filler pump for filling the reservoir of centralized greasing systems. Fits 35 lb pails. Complete with pump, cover, 5' transparent hose and a 2-HK (1/4") hydraulic connector.

### Part No. 108 503

Same as Part No. 1987 except with drum cover to fit 120 lb kegs.



## DRUM PUMPS FOR OIL



**605 000**

### HIGH PERFORMANCE DRUM PUMP

**Part No. 605 000**

High performance drum pump. Lever action transfer pump for use with all types of lubricants, even those with higher viscosity, like gear oil. Lever can be mounted in four different positions to change the delivery volume per stroke: from 0.48 to 0.96 qts. Pump includes telescoping suction tube with bung adaptor for use with 16 gallon kegs and 55 gallon drums.



**1240**

### DRUM PUMP FOR FLUIDS

**Part No. 1240**

Drum pump for fluids. 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. Capacity per stroke: 0.48 quarts.



**1243**

### LEVER ACTION DRUM PUMP

**Part No. 1243**

Lever action drum pump. Same features as Model 1240 plus: a larger pump body with greater internal volume. Has Viton® seals, usable with alcohols, detergents, solvents, oils and anti-freeze. Long curved removable steel spout with garden hose threads. Capacity per stroke: 0.48 quarts.



**8013**

### ROTARY PUMPS

**Part No. 8013**

Rotary action pump. Lightweight rotary pump manufactured in PVC to handle chemicals and acid based products. Features bi-directional operation. Delivery is rated at over 3.75 gal/min at 60 cycles per minute. Includes adjustable bung bushing and a 3 piece down tube that extends from 13 to 37 inches to fit most containers, including 5, 16 and 55 gallon commercial sizes. Capacity per stroke: 0.26 quart.



**1245**

**Part No. 1245**

Rotary action drum pump. 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. Capacity per stroke: 0.42 quart.

### OPTIONAL DELIVERY HOSE

**Part No. 314 540**

Rubber 5' delivery hose with shut off valve and nozzle.

## MEDIUM PRESSURE OIL PUMPS

Lever action transfer pumps for high viscosity lubricants. Pump includes 2" height adjustable bung adaptor to fit directly onto drums, covers or containers. Pump with steel suction tube, foot valve and piston and NBR seals. Delivery: 0.03 gal per stroke. Outlet thread: 3/4" NPTM.

### MEDIUM PRESSURE TRANSFER PUMP

**Part No. 306 300**

For 5 gallon pails.

**Part No. 306 200**

For 5 gallon pails & 16 gallon kegs.

**Part No. 306 100**

For 16 gallon kegs.

**Part No. 306 400**

For 55 gallon drums.

### ACCESSORIES:

**Part No. 730 603**

Angled steel delivery spout. Fits directly to the pump outlet.

**Part No. 314 530**

Delivery hose. Transparent 5' hose with 135° nozzle.

**Part No. 314 540**

Delivery hose. 5' rubber hose, with shut off valve and 135° nozzle.

**306 100**



**314 540**

**10**

LUBRICATION  
TOOLS

## DRUM PUMPS FOR VARIOUS FLUIDS



300 500

### LIFT ACTION PUMPS FOR CHEMICAL FLUIDS

#### Part No. 300 401

Lift action pump for chemical products in 55 gal drums. Lift action pump with polypropylene covered piston and PTFE seals. 40" suction tube, 2" bung adaptor and outlet spout. Black pump with red bung adaptor and spout nut. Recommended for use with acid based fluids, detergents and kerosene based solvents.

#### Part No. 300 400

Lift action pump for chemical products. Same as model 300 401, but with 20" suction tube for 5 to 16 gal drums.

#### Part No. 300 500

Lift action pump for chemicals in 5 to 16 gal drums. Lift action pump with nylon covered piston and PTFE seals. 20" suction tube, bung adaptor with three screws and outlet spout. Black pump with yellow bung adaptor and spout nut. Recommended for use with solvents.

#### Part No. 300 501

Lift action pump for chemical products, 55 gal drums. Same as model 300 500, but with 40" suction tube for 55 gal drums.

NOTE: Please check fluid compatibility with the pump prior to its use.



3006

### PLASTIC LEVER PUMPS

Lever action pumps with a unique toggle mechanism that provides a very smooth operation. Pumps are manufactured in polypropylene and include a 2" bung adaptor with a lockable nut that allows placing the pump in its optimal position for an easier lever action. Pump delivery per stroke: 17 oz. Includes delivery hose.

#### Part No. 3006

Lever action pump, polypropylene/EPDM. Blue color pump with EPDM seals. Can be used with DEF. Blue color pump.

#### Part No. 3007

Lever action pump, polypropylene/Viton®. Red color pump, with Viton® seals. Compatible with a wide range of chemicals. Red color pump.

#### Part No. 3009

Lever action pump, polypropylene/NBR. White color pump, with NBR seals. Compatible with lubricants. White color pump.

#### Part No. 8010

6' Polypropylene dispensing hose.



1247

### NYLON BARREL PUMP

#### Part No. 1247

Barrel pump. 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.



1244

### SIPHON TRANSFER PUMP

#### Part No. 1244

Lever action siphon pump. Design allows transfer by siphoning once the pump has been primed, giving a continuous flow of 2 gal/min. Bung thread fits 16 and 55 gal drums. With 5' (1,5 m) clear delivery hose, metal nozzle and PVC suction tube. For anti-freeze, light mineral oils, diesel, detergent and other automotive and light petroleum fluids.



5807

### CHEMICAL HAND PUMP

#### Part No. 5807

Grade 316 stainless steel lift pump with PTFE seals, includes 2" bung adaptor. Full 33" stroke, delivers 0.86 qt per stroke. 37" down tube for 16 and 55 gallon drums Bung height adjustable from 14" to 35 1/2".

## FUNNELS, MEASURES AND OIL CANS



### BRASS PUMP OILERS

**Part No. 2308**

1/2 pint brass pump oiler with steel can and rigid spout.

**Part No. 2309**

Same as Part No. 2308 except with flex spout.

**Part No. 2311**

1 pint brass pump oiler with steel can and rigid spout.

**Part No. 2310**

Same as Part No. 2311 except with flex spout.

**Part No. 2312**

1 1/2 pint brass pump oiler with steel can and rigid spout.

**Part No. 2313**

Same as Part No. 2312 except with flex spout.

**Part No. 2315**

1 quart brass pump oiler with steel can and rigid spout.

**Part No. 2314**

Same as Part No. 2315 except with flex spout.



### HD HIGH PRESSURE MACHINE OILER

**Part No. 2326**

1 pint heavy duty, high pressure, cast iron pump with filter screen and rigid spout.



### PLASTIC FUNNELS AND MEASURES

**Part No. 2351**

7-1/2" funnel with flex-spout, filter, anti-splash rim and finger grip.

**Part No. 2352**

Large heavy duty funnel with regular filter.

**Part No. 2353**

Large heavy duty funnel with diesel filter.

**Part No. 2377**

5 quart flex-spout measure with lid, quart and liter calibration.

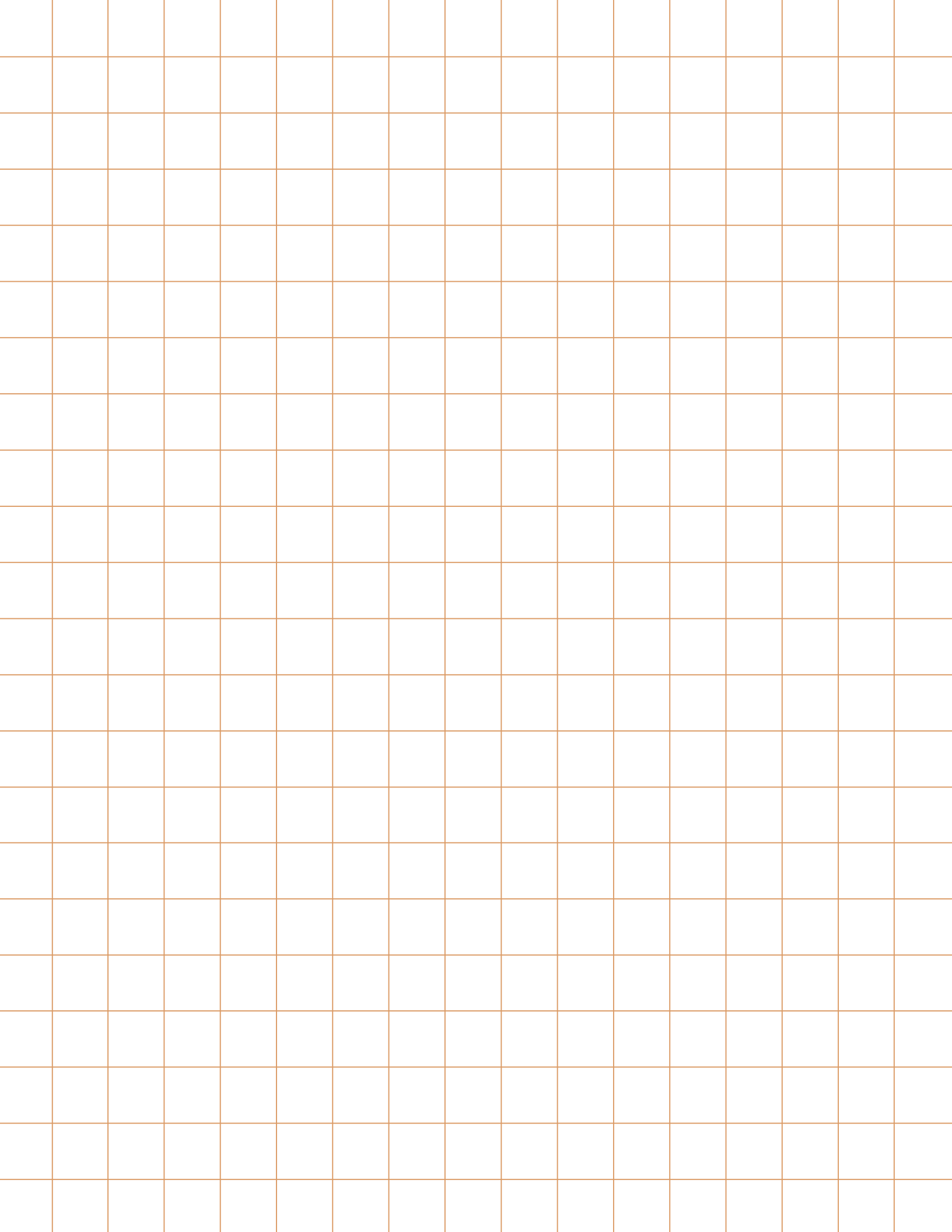
**Part No. 2318**

Rigid spout for funnel Part No. 2351 and measures Part No. 2377.

**Part No. 2319**

Flex-spout for funnel Part No. 2351 and measures Part No. 2377.





# 11 INSTALLATION ACCESSORIES

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## ACCESSORIES FOR LUBE TRUCKS AND TRAILERS



Lube trucks of all shapes, sizes and capabilities.



A small sampling of lube service trucks constructed using SAMSON Lubrication Equipments.



Mobile lube trucks, trailers, and platforms are utilized in situations where it is necessary to bring the lubricants to the piece of equipment or machine. For example, the construction industry has many pieces of equipment such as dozers, scrapers, haul trucks, and other equipment where it is more practical and economical to service in the field. Industrial applications such as in-plant use are also another application where moving the lube equipment to the machine is the proper solution.

Due to the high quality and durability of Samson's product offering, Samson has strong relationships with a variety of mobile lube service fabricators throughout North America. We partner with these companies to address your specific needs and design a service platform that is an efficient solution to your mobile lubrication challenges.

Contact us today to find out how we can make this solution work for you!

### 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.

#### Part No. 2391

1" NPT (F) 4 way reversing valve.

#### Part No. 2392 (not shown)

3/4" NPT (F) 4 way reversing valve.

#### Part No. 2440 (not shown)

#### Hold Down Kit for lube trucks

Secures 120 lb / 16 gal keg to truck bed.

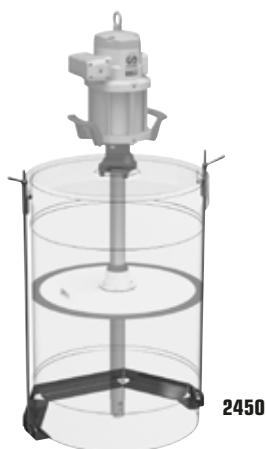
#### Part No. 2450

#### Hold Down Kit for lube trucks

Secures 400 lb / 55 gal drum to truck bed.

#### Part No. 2449

Bung seal kit.

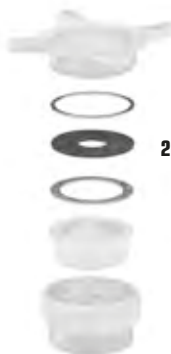


2450

Pump, follower plate, drum cover and drum are not included.



2391



2449

## AIR TREATMENT



970



971



956

AIR REGULATOR AND GAUGES			
970	973	976	980
1/4"	3/8"	1/2"	3/4"

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

FILTER, REGULATOR, LUBRICATOR WITH AUTO DRAIN					
983	984	985	986	987	988
1/4"	3/8"	1/2"	3/4"	Mounting bracket for 1/4" and 3/8" package	Mounting bracket for 1/2" and 3/4" package

FILTER, REGULATOR, COMBO UNITS WITH AUTO DRAIN IN COMPACT UNIT			
952	956	957	958
3/4"	1/4"	3/8"	1/2"

MINI UNITS				
991	992	993	995	955
1/4" Regulator	1/4" Lubricator	1/4" Filter	1/4" FRL package	1/4" Filter regulator



972



979



983



995

## COUPLERS AND CONNECTORS

### 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



### COUPLER CONNECTOR INTERCHANGE LINCOLN SERIES

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



1/4" BODY SIZE COUPLERS		
THREAD SIZE	FEMALE THREAD	MALE THREAD
1/4"	950F04	950M04

1/4" BODY SIZE CONNECTORS		
THREAD SIZE	FEMALE THREAD	MALE THREAD
1/4"	953F04	953M04



### COUPLER CONNECTOR INTERCHANGE INDUSTRIAL 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
1/2" BODY SIZE COUPLERS		
3/8"	938F06	938M06
1/2"	938F08	938M08

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 CONNECTORS		
3/8"	947F06	947M06
1/2"	947F08	947M08



11


INSTALLATION  
ACCESSORIES

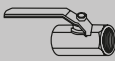
## INSTALLATION ACCESSORIES


 <b>HEX NIPPLES M x M</b>		
MODEL	THREAD	THREAD
2047	1/2 - 27 M	1/8" NPTM
2056	1/2 - 27 M	1/4" NPTM
2040	1/2 - 27 M	1/2 - 27 M
2049	1/2 - 27 M	3/8" NPTM
2036	1/2 - 27 M	1/2" NPTM
2050	1/8" NPTM	1/8" NPTM
2044	1/8" NPTM	1/4" NPTM
2521	1/8" NPTM	3/8" NPTM
2051	1/4" NPTM	1/4" NPTM
2048	1/4" NPTM	3/8" NPTM
2052	3/8" NPTM	3/8" NPTM
2035	3/8" NPTM	1/2" NPTM
2522	1/2" NPTM	1/4" NPTM
2053	1/2" NPTM	1/2" NPTM
2523	3/4" NPTM	3/8" NPTM
2094	3/4" NPTM	1/2" NPTM
2095	3/4" GHTM	1/2" NPTM
2025	3/4" GHTM	1/2" NPTM
2054	3/4" NPTM	3/4" NPTM
1953	1" NPTM	3/4" NPTM
2055	1" NPTM	1" NPTM

 <b>BUSHINGS M x F</b>		
MODEL	THREAD	THREAD
2581	1/8" NPTM	3/8" NPTF
2582	1/8" NPTM	1/2" NPTF
2059	1/4" NPTM	1/8" NPTF
2583	1/4" NPTM	1/2" NPTF
2043	3/8" NPTM	1/2 - 27 F
2063	3/8" NPTM	1/8" NPTF
2060	3/8" NPTM	1/4" NPTF
2584	3/8" NPTM	3/8" NPTF
2037	1/2" NPTM	1/2 - 27 F
2064	1/2" NPTM	1/8" NPTF
2585	1/2" NPTM	1/8" NPTF
2062	1/2" NPTM	1/4" NPTF
2061	1/2" NPTM	3/8" NPTF
2097	1/2" NPTM	1/2" NPTF
2586	1/2" NPTM	3/4" NPTF
2587	3/4" NPTM	1/4" NPTF
2046	3/4" NPTM	3/8" NPTF
2065	3/4" NPTM	1/2" NPTF
2500	1" NPTM	1/2" NPTF


2066	1" NPTM	3/4" NPTF
2561	1 1/2" NPTM	3/4" NPTF
2023	1 1/2" NPTM	1" NPTF

 <b>LOW PRESSURE BALL VALVE 400 psi</b>	
MODEL	THREAD
2013	1/4" NPTF
2088	1/2" NPTF
2091	3/4" NPTF
2084	1" NPTF


 <b>MEDIUM PRESSURE BALL VALVE 2,000 psi</b>	
MODEL	DESCRIPTION
2074	1/2" NPTF
2083	3/4" NPTF


 <b>HIGH PRESSURE NEEDLE VALVE 10,000 PSI</b>	
MODEL	DESCRIPTION
2077	1/2" NPTF
2089	3/4" NPTF
2093	1" NPTF


 <b>REDUCING ADAPTORS M x F</b>		
MODEL	THREAD	THREAD
2034	1/2 - 27 M	1/8" NPTF
2041	1/2 - 27 M	1/4" NPTF
2033	1/2 - 27 M	3/8" NPTF
2017	1/8" NPTM	1/2 - 27 F
2096	1/8" NPTM	1/4" NPTF
2042	1/4" NPTM	1/2 - 27 F
2501	1/4" NPTM	3/8" NPTF
2502	1/4" NPTM	1/2" NPTF
2508	3/8" NPTM	1/2" NPTF
2511	1/2" NPTM	3/4" NPTF
2075	1/2" NPTM	3/4" GHTF

 <b>COUPLINGS F x F</b>		
MODEL	THREAD	THREAD
2019	1/8" NPTF	1/2 - 27 F
2067	1/8" NPTF	1/8" NPTF
2038	1/4" NPTF	1/2 - 27 F

2068	1/4" NPTF	1/4" NPTF
2072	3/8" NPTF	1/2 - 27 F
2069	3/8" NPTF	3/8" NPTF
2058	3/8" NPTF	1/2" NPTF
2070	1/2" NPTF	1/2" NPTF
2071	3/4" NPTF	3/4" NPTF
2537	3/4" NPTF	1" NPTF
2073	1" NPTF	1" NPTF


 <b>BUNG BUSHINGS</b>	
MODEL	DESCRIPTION
2028	PM3 55:1
360 001	PM2 1:1 AND PM4 3:1
360 006	PM45 10:1 only
609 104	PM45 grease pumps and PM60 80:1 only
360 007	1000 AND 1008
360 000	PM2 3:1 AND PM4 8:1
360 002	PM4 5:1
410 002	PM3+3 60:1


 <b>SWIVEL UNIONS M x F</b>		
MODEL	SWIVEL THREAD	THREAD
1942	1/4" NPSM (F)	1/4" NPTM
1944	3/8" NPSM (F)	1/4" NPTM
1948	3/8" NPSM (F)	3/8" NPTM
1951	3/8" NPSM (F)	1/2" NPTM
1943	1/2" NPSM (F)	3/8" NPTM
1949	1/2" NPSM (F)	1/2" NPTM
1957	1/2" NPSM (F)	3/4" NPTM
1945	3/4" NPSM (F)	1/2" NPTM
1952	3/4" NPSM (F)	3/4" NPTM
1954	3/4" NPSM (F)	1" NPTM
1955	1" NPSM (F)	3/4" NPTM
1946	1" NPSM (F)	1" NPTM

 <b>SWIVEL UNIONS F x F</b>		
MODEL	SWIVEL THREAD	THREAD
1960	1/4" NPSM (F)	1/4" NPTF
1961	3/8" NPSM (F)	1/4" NPTF
1962	3/8" NPSM (F)	3/8" NPTF
1963	1/2" NPSM (F)	3/8" NPTF
1964	1/2" NPSM (F)	1/2" NPTF
1965	3/4" NPSM (F)	1/2" NPTF

1958	3/4" NPSM (F)	3/4" NPTF
1966	3/4" NPSM (F)	1" NPTF
1941	1" NPSM (F)	1/2" NPTF
1969	1" NPSM (F)	3/4" NPTF
1967	1" NPSM (F)	1" NPTF

 <b>SWIVEL ADAPTORS M x M</b>		
MODEL	SWIVEL THREAD	THREAD
1950	1/2" NPTSM	1/2 - 27 M

 <b>SWIVEL 90'S M x F</b>		
MODEL	SWIVEL THREAD	THREAD
1947	1/4" NPSM (F)	1/4" NPTM
1977	3/8" NPSM (F)	1/4" NPTM
1978	3/8" NPSM (F)	3/8" NPTM
1979	3/8" NPSM (F)	1/2" NPTM
1980	1/2" NPSM (F)	3/8" NPTM
1981	1/2" NPSM (F)	1/2" NPTM
1982	3/4" NPSM (F)	3/4" NPTM

 <b>SWIVEL 90'S F x F</b>		
MODEL	SWIVEL THREAD	THREAD
1970	1/4" NPSM (F)	1/4" NPTF
1971	3/8" NPSM (F)	3/8" NPTF
1972	3/8" NPSM (F)	1/2" NPTF
1973	1/2" NPSM (F)	1/2" NPTF
1997	3/4" NPSM (F)	1/2" NPTF
1974	3/4" NPSM (F)	3/4" NPTF
1968	3/4" NPSM (F)	1" NPTF
1983	1" NPSM (F)	1/2" NPTF
1985	1" NPSM (F)	3/4" NPTF
1993	1" NPSM (F)	1" NPTF

 <b>STREET ELLS M x F</b>		
MODEL	THREAD	THREAD
2514	1/2" NPTM	1/2" NPTF
2547	3/8" NPTM	3/8" NPTF
2519	3/4" NPTM	3/4" NPTF
2549	1" NPTM	1" NPTF

 <b>ELBOWS</b>		
MODEL	THREAD	THREAD
2513	1/2" NPTF	1/2" NPTF
2512	1/2" NPTM	1/2" NPTM

## TANK GAUGES

### SWING ARM STYLE FLOAT GAUGE FITS 2" TANK OPENING

#### Part No. 2640

Tanks with 32" interior height.

#### Part No. 2641

Tanks with 44" interior height.

#### Part No. 2642

Tanks with 48" interior height.

#### Part No. 2643

Tanks with 60" interior height.

#### Part No. 2644

Tanks with 72" interior height.



2641

## VENT CAPS & BUSHINGS



2631



2632



2613

### FILL CAPS AND TANK VENTS

#### Part No. 2631

2" Vented style Fill Cap with hinged cover.

#### Part No. 2632

2" Standard (mushroom) Vent.

#### Part No. 2633

3" Emergency Vent.

#### Part No. 2634

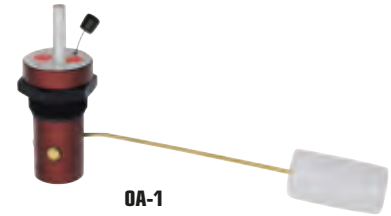
4" Emergency Vent.

### DOUBLE TAP BUSHING

#### Part No. 2613

2" NPTM x 1 1/2" NPTF double tap bushing.

## HIGH LEVEL TANK SENSOR



OA-1

Air operated float level sensor alarm with high level sensor and alarm whistle, rotating collar allows 360° indexing of float.

#### Part No. OA-1

Normally open, turns air off when in alarm.

## LOW PRESSURE HOSES FOR AIR/WATER (LP)

PART No.	DESCRIPTION	LENGTH	DIAMETER	FITTINGS	WORKING PRESSURE
801	1/4" LP HOSE 2'	2.5'	1/4"	1/4" NPT MALE FIXED x 1/4" NPT MALE SWIVEL	300 psi
802	1/4" LP HOSE 5'	5'	1/4"	1/4" NPT MALE FIXED x 1/4" NPT MALE SWIVEL	300 psi
807	1/4" LP HOSE 7.5'	7.5'	1/4"	1/4" NPT MALE FIXED x 1/4" NPT MALE FIXED	150 psi
803	1/4" LP HOSE 10'	10'	1/4"	1/4" NPT MALE FIXED x 1/4" NPT MALE SWIVEL	300 psi
805	1/4" LP HOSE 25'	25'	1/4"	1/4" NPT MALE FIXED x 1/4" NPT MALE SWIVEL	300 psi
806	1/4" LP HOSE 30'	30'	1/4"	1/4" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	300 psi
808	1/4" LP HOSE 40'	40'	1/4"	1/4" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	300 psi
809	1/4" LP HOSE 50'	50'	1/4"	1/4" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	300 psi
812	3/8" LP HOSE 2.5'	2.5'	3/8"	3/8" NPT MALE FIXED x 3/8" NPT MALE SWIVEL	300 psi
813	3/8" LP HOSE 5'	5'	3/8"	3/8" NPT MALE FIXED x 3/8" NPT MALE SWIVEL	300 psi
814	3/8 LP HOSE 10'	10'	3/8"	3/8" NPT MALE FIXED x 3/8" NPT MALE SWIVEL	300 psi
815	3/8" x 15' LP HOSE	15'	3/8"	3/8" NPT MALE FIXED x 3/8" NPT MALE SWIVEL	300 psi
816	3/8" LP HOSE 25'	25'	3/8"	3/8" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	300 psi
817R	3/8" LP HOSE 30'	30'	3/8"	3/8" NPT MALE FIXED x 3/8" ' NPT MALE SWIVEL	300 psi
817	3/8" LP HOSE 30'	30'	3/8"	3/8" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	300 psi
817 4	3/8" x 1/4" LP HOSE 30'	30'	3/8"	1/4" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	300 psi
818	3/8" LP HOSE 40'	40'	3/8"	3/8" NPT MALE FIXED x 3/8" ' NPT MALE SWIVEL	300 psi
818 4	3/8" x 1/4" LP HOSE 40'	40'	3/8"	1/4" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	300 psi
819	3/8" LP HOSE 50'	50'	3/8"	3/8" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	300 psi
819 4	3/8" x 1/4" LP HOSE 50'	50'	3/8"	3/8" NPT MALE FIXED x 1/4" ' NPT MALE SWIVEL	300 psi
819R	3/8" LP HOSE 50'	50'	3/8"	3/8" NPT MALE FIXED x 3/8" ' NPT MALE SWIVEL	300 psi
820	3/8" LP HOSE 60'	60'	3/8"	3/8" NPT MALE FIXED x 1/2' NPT MALE SWIVEL	300 psi
822	1/2" LP HOSE 2'	2.5'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	300 psi
823	1/2" LP HOSE 5'	5'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	300 psi
824	1/2" LP HOSE 10'	10'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	300 psi
825	1/2" LP HOSE 15'	15'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	300 psi
827	1/2" LP HOSE 20'	20'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	300 psi

## LOW, MEDIUM AND HIGH PRESSURE HOSES

PART No.	DESCRIPTION	LENGTH	DIAMETER	FITTINGS	WORKING PRESSURE
<b>826</b>	1/2" LP HOSE 30'	30'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	300 psi
<b>828</b>	1/2" LP HOSE 40'	40'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	300 psi
<b>829R</b>	1/2" LP HOSE 50'	50'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	300 psi
<b>829</b>	1/2" LP HOSE 50'	50'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	300 psi
<b>830</b>	1/2" LP HOSE 60'	60'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	300 psi
<b>831</b>	1/2" x 75' LP HOSE	75'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	300 psi
<b>829 100</b>	1/2" LP HOSE 100'	100'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	300 psi
<b>857 001</b>	LP DIESEL HOSE	2.5'	3/4"	3/4" NPT MALE FIXED x 3/4" NPT MALE SWIVEL	250 psi
<b>857 002</b>	LP AIR/WATER HOSE	2.5'	3/4"	3/4" NPT MALE FIXED x 3/4" NPT MALE SWIVEL	250 psi
<b>857 405</b>	3/4" x 5' LP HOSE	5'	3/4"	3/4" NPT MALE FIXED x 3/4" NPT MALE FIXED	300 psi
<b>832</b>	3/4" x 8' LP HOSE	8'	3/4"	3/4" NPT MALE FIXED x 3/4" NPT MALE FIXED	300 psi
<b>832 050</b>	3/4" x 50' LP HOSE	50'	3/4"	3/4" NPT MALE FIXED x 3/4" NPT MALE SWIVEL	300 psi
<b>863 002</b>	1" LP HOSE 30"	2.5'	1"	1" NPT MALE FIXED x 1" NPT MALE SWIVEL	250 psi
<b>863 413</b>	1" LP HOSE 30"	2.5'	1"	1" NPT MALE FIXED x 1" NPT MALE FIXED	300 psi
<b>863 452</b>	1" LP HOSE 50'	50'	1"	1" NPT MALE FIXED x 1" NPT MALE FIXED	300 psi
<b>MEDIUM PRESSURE HOSES FOR LUBRICANTS (MP)</b>					
<b>833</b>	3/8" MP HOSE 30"	2.5'	3/8"	3/8" NPT MALE FIXED x 3/8" ' NPT MALE SWIVEL	3000 psi
<b>834</b>	3/8" MP HOSE 5'	5'	3/8"	3/8" NPT MALE FIXED x 3/8" ' NPT MALE SWIVEL	2500 psi
<b>835</b>	3/8" MP HOSE 10'	10'	3/8"	3/8" NPT MALE FIXED x 3/8" ' NPT MALE SWIVEL	2500 psi
<b>837</b>	3/8" MP HOSE 20'	20'	3/8"	3/8" NPT MALE FIXED x 3/8" ' NPT MALE SWIVEL	2500 psi
<b>838</b>	3/8" MP HOSE 25'	25'	3/8"	3/8" NPT MALE FIXED x 3/8" ' NPT MALE SWIVEL	2500 psi
<b>839</b>	3/8" MP HOSE 30'	30'	3/8"	3/8" NPT MALE FIXED x 3/8" ' NPT MALE SWIVEL	1250 psi
<b>841</b>	3/8" MP HOSE 40'	40'	3/8"	3/8" NPT MALE FIXED x 3/8" ' NPT MALE SWIVEL	2000 psi
<b>842</b>	3/8" MP HOSE 50'	50'	3/8"	3/8" NPT MALE FIXED x 3/8" ' NPT MALE SWIVEL	2500 psi
<b>843</b>	3/8" MP HOSE 60'	60'	3/8"	3/8" NPT MALE FIXED x 3/8" ' NPT MALE SWIVEL	2500 psi
<b>845</b>	1/2" MP HOSE 30"	2.5'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	2000 psi
<b>846</b>	1/2" MP HOSE 5'	5'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	2000 psi
<b>846 7</b>	1/2" MP HOSE 7'	7'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	2000 psi
<b>847 002</b>	1/2" MP HOSE 10'	10'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE FIXED	1250 psi
<b>847</b>	1/2" MP HOSE 10'	10'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	2000 psi
<b>848</b>	1/2" MP HOSE 15'	15'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	2000 psi
<b>849</b>	1/2" MP HOSE 20'	20'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	2000 psi
<b>850</b>	1/2" MP HOSE 25'	25'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	2000 psi
<b>851</b>	1/2" MP HOSE 30'	30'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	2000 psi
<b>850 718</b>	506 SERIES DELIVERY HOSE 30' x 1/2"	30'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE FIXED	2000 psi
<b>851R</b>	1/2" MP HOSE 30'	30'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	2000 psi
<b>853</b>	1/2" MP HOSE 40'	40'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	2000 psi
<b>854</b>	1/2" MP HOSE 50'	50'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	2000 psi
<b>854R</b>	1/2" MP HOSE 50'	50'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE RA SWIVEL	2000 psi
<b>855R</b>	1/2" MP HOSE 60'	60'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE RA SWIVEL	1250 psi
<b>855</b>	1/2" MP HOSE 60'	60'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	2000 psi
<b>856</b>	1/2" MP HOSE 75'	75'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	2000 psi
<b>854 100</b>	1/2" MP HOSE 100'	100'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	2000 psi



## LOW, MEDIUM AND HIGH PRESSURE HOSES

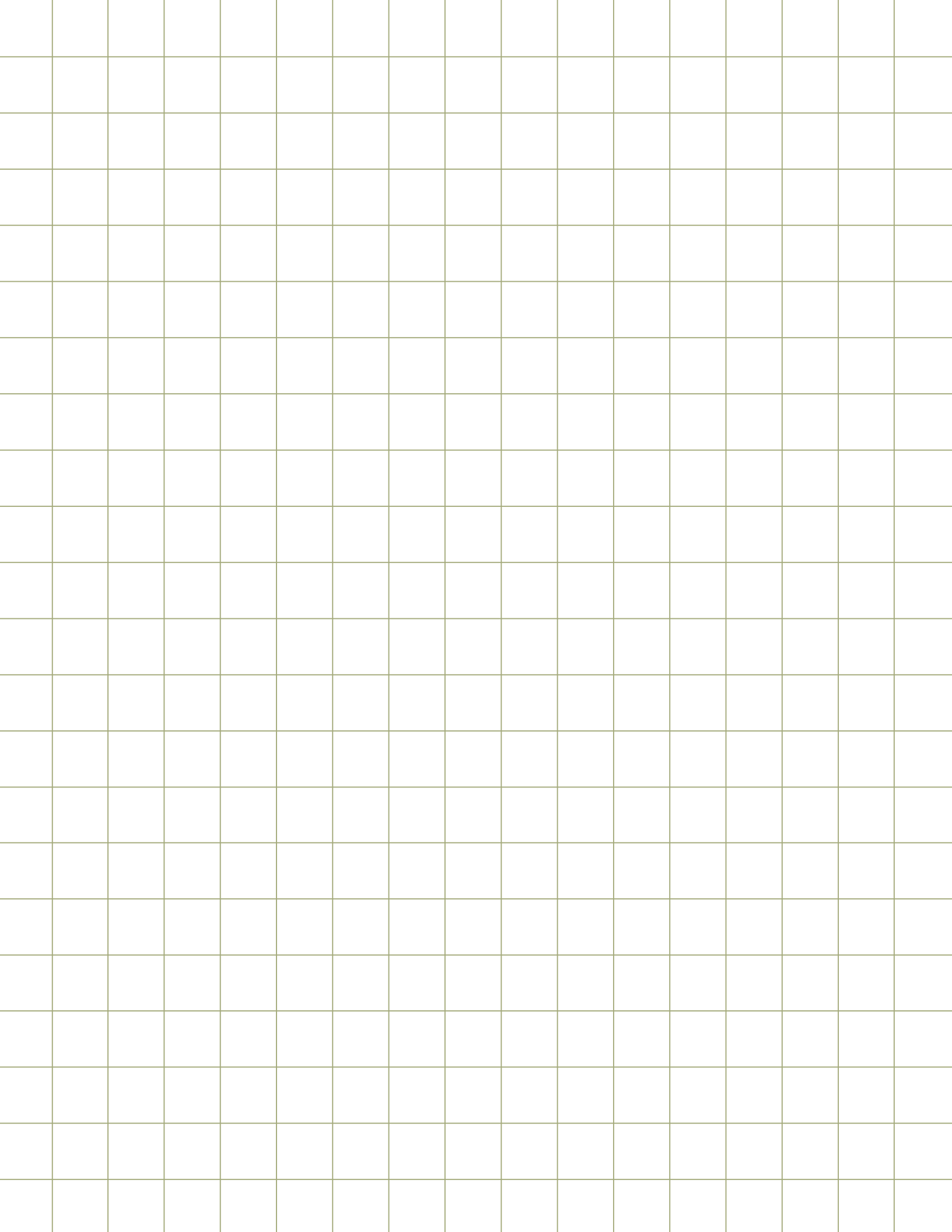
PART No.	DESCRIPTION	LENGTH	DIAMETER	FITTINGS	WORKING PRESSURE
<b>860</b>	3/4" MP HOSE 2.5'	2.5'	3/4"	3/4" NPT MALE FIXED x 3/4" NPT MALE SWIVEL	1250 psi
<b>863 303</b>	3/4" MP HOSE 30"	2.5'	3/4"	3/4" NPT MALE FIXED x 3/4" NPT MALE SWIVEL	1250 psi
<b>857 003</b>	3/4" MP HOSE 30"	2.5'	3/4"	3/4" NPT MALE FIXED x 3/4" NPT MALE SWIVEL	3500 psi
<b>857</b>	3/4" MP HOSE 5'	5'	3/4"	3/4" NPT MALE FIXED x 3/4" NPT MALE SWIVEL	1250 psi
<b>867</b>	3/4" MP HOSE 10'	10'	3/4"	1" NPT MALE FIXED x 3/4" NPT MALE SWIVEL	1000 psi
<b>858</b>	3/4" MP HOSE 10'	10'	3/4"	3/4" NPT MALE FIXED x 3/4" NPT MALE SWIVEL	1250 psi
<b>861</b>	3/4" MP HOSE 20'	20'	3/4"	3/4" NPT MALE FIXED x 3/4" NPT MALE SWIVEL	1250 psi
<b>859</b>	3/4" MP HOSE 50'	50'	3/4"	3/4" NPT MALE FIXED x 3/4" NPT MALE SWIVEL	2000 psi
<b>857 465</b>	3/4" MP HOSE 65'	65'	3/4"	3/4" NPT MALE FIXED x 3/4" NPT MALE FIXED	1250 psi
<b>863 423</b>	1" MP HOSE 30"	2.5'	1"	1" NPT MALE FIXED x 1" NPT MALE FIXED	1250 psi
<b>863 003</b>	1" MP HOSE 30"	2.5'	1"	1" NPT MALE FIXED x 1" NPT MALE SWIVEL	3500 psi
<b>863</b>	1" MP HOSE 5'	5'	1"	1" NPT MALE FIXED x 1" NPT MALE SWIVEL	1250 psi
<b>863 451</b>	1" MP HOSE 50'	50'	1"	1" NPT MALE FIXED x 1" NPT MALE FIXED	1250 psi
<b>HIGH PRESSURE HOSES FOR GREASE (HP)</b>					
<b>870</b>	1/4" HP HOSE 2'	2.5'	1/4"	1/4 MALE NPT SWIVEL x 1/4" MALE NPT	5000 psi
<b>871</b>	1/4" HP HOSE 5'	5'	1/4"	1/2 27 FEMALE x 1/2" 27 FEMALE	5000 psi
<b>871 000</b>	1/4" HP HOSE 5'	5'	1/4"	1/4 MALE NPT SWIVEL x 1/4" MALE NPT	5000 psi
<b>877</b>	7' 1/4" HP HOSE	7'	1/4"	1/4 MALE NPT SWIVEL x 1/2" 27 FEMALE	5000 psi
<b>877 000</b>	7' 1/4" HP HOSE	7'	1/4"	1/4 MALE NPT SWIVEL x 1/4" MALE NPT	5000 psi
<b>872</b>	1/4" HP HOSE 10'	10'	1/4"	1/2 27 FEMALE x 1/2" 27 FEMALE	5000 psi
<b>872 000</b>	1/4" HP HOSE 10'	10'	1/4"	1/4 MALE NPT SWIVEL x 1/4" MALE NPT	5000 psi
<b>873</b>	1/4" HP HOSE 15'	15'	1/4"	1/2 27 FEMALE x 1/2" 27 FEMALE	5000 psi
<b>873 000</b>	1/4" HP HOSE 15'	15'	1/4"	1/4 MALE NPT SWIVEL x 1/4" MALE NPT	5000 psi
<b>874</b>	1/4" HP HOSE 20'	20'	1/4"	1/2 27 FEMALE x 1/2" 27 FEMALE	5000 psi
<b>874 000</b>	1/4" HP HOSE 20'	20'	1/4"	1/4 MALE NPT SWIVEL x 1/4" MALE NPT	5000 psi
<b>875</b>	1/4" HP HOSE 25'	25'	1/4"	1/2 MALE NPT SWIVEL x 1/2" 27 FEMALE	5000 psi
<b>875 000</b>	1/4" HP HOSE 25'	25'	1/4"	1/2 MALE NPT SWIVEL x 1/4" MALE NPT	5000 psi
<b>875W</b>	1/4" HP HOSE 25'	25'	1/4"	1/2 27 FEMALE x 1/2" 27 FEMALE	5000 psi
<b>876</b>	1/4" HP HOSE 30'	30'	1/4"	1/2 MALE NPT SWIVEL x 1/2" 27 FEMALE	5000 psi
<b>850 706</b>	506 SERIES DELIVERY HOSE 30' x 1/4"	30'	1/4"	3/8" NPT MALE FIXED x 1/4" NPT MALE FIXED	5000 psi
<b>876 000</b>	1/4" HP HOSE 30'	30'	1/4"	1/2 MALE NPT SWIVEL x 1/4" MALE NPT	5000 psi
<b>876R</b>	1/4" HP HOSE 30'	30'	1/4"	1/2 MALE RA NPT SWIVEL x 1/4" MALE NPT	5000 psi
<b>878</b>	1/4" HP HOSE 40'	40'	1/4"	1/2 MALE NPT SWIVEL x 1/2" 27 FEMALE	5000 psi
<b>878 000</b>	1/4" HP HOSE 40'	40'	1/4"	1/2 MALE NPT SWIVEL x 1/4" MALE NPT	5000 psi
<b>879</b>	1/4" HP HOSE 50'	50'	1/4"	1/2 MALE NPT SWIVEL x 1/2" 27 FEMALE	5000 psi
<b>879 000</b>	1/4" HP HOSE 50'	50'	1/4"	1/2 MALE NPT SWIVEL x 1/4" MALE NPT	5000 psi
<b>880</b>	1/4" HP HOSE 60'	60'	1/4"	1/2 MALE NPT SWIVEL x 1/2" 27 FEMALE	5000 psi
<b>880 000</b>	1/4" HP HOSE 60'	60'	1/4"	1/2 MALE NPT SWIVEL x 1/4" NPT MALE	5000 psi
<b>883</b>	3/8 HP HOSE 2'	2.5'	3/8"	3/8 NPT MALE SWIVEL x 3/8" NPT MALE	4000 psi
<b>884</b>	3/8" HP HOSE 5'	5'	3/8"	3/8 NPT MALE SWIVEL x 3/8" NPT MALE	4000 psi
<b>885</b>	3/8 HP HOSE 10'	10'	3/8"	3/8 NPT MALE SWIVEL x 3/8" NPT MALE	4000 psi
<b>887</b>	3/8" HP HOSE 20'	20'	3/8"	3/8 NPT MALE SWIVEL x 3/8" NPT MALE	4000 psi
<b>888</b>	3/8" HP HOSE 25'	25'	3/8"	3/8 NPT MALE SWIVEL x 3/8" NPT MALE	4000 psi

## LOW, MEDIUM AND HIGH PRESSURE HOSES

PART No.	DESCRIPTION	LENGTH	DIAMETER	FITTINGS	WORKING PRESSURE
<b>889</b>	3/8" HP HOSE 30'	30'	3/8"	3/8 NPT MALE SWIVEL x 3/8" NPT MALE	4000 psi
<b>889 000</b>	3/8" HP HOSE 30'	30'	3/8"	1/2 NPT MALE SWIVEL x 1/4" MALE NPT	4000 psi
<b>891</b>	3/8" HP HOSE 40'	40'	3/8"	3/8 NPT MALE SWIVEL x 3/8" NPT MALE	4000 psi
<b>891 000</b>	3/8" HP HOSE 40'	40'	3/8"	1/2 NPT MALE SWIVEL x 1/4" MALE NPT	4000 psi
<b>892</b>	3/8" HP HOSE 50'	50'	3/8"	3/8 NPT MALE SWIVEL x 3/8" NPT MALE	4000 psi
<b>850 704</b>	506 SERIES DELIVERY HOSE 50' x 3/8"	50'	3/8"	3/8" NPT MALE FIXED x 3/8" NPT MALE FIXED	4000 psi
<b>892 000</b>	3/8" HP HOSE 50'	50'	3/8"	1/2 NPT MALE SWIVEL x 1/4" MALE NPT	4000 psi
<b>892R</b>	3/8" HP HOSE 50'	50'	3/8"	1/2 NPT RA MALE SWIVEL x 1/4" MALE NPT	4000 psi
<b>893</b>	3/8" HP HOSE 60'	60'	3/8"	3/8 NPT MALE SWIVEL x 3/8" NPT MALE	4000 psi
<b>850 705</b>	506 SERIES DELIVERY HOSE 60' x 3/8"	60'	3/8"	3/8" NPT MALE FIXED x 3/8" NPT MALE FIXED	4000 psi
<b>893 000</b>	3/8" HP HOSE 60'	60'	3/8"	1/2 NPT MALE SWIVEL x 1/4" MALE NPT	4000 psi
<b>893R</b>	3/8" HP HOSE 60'	60'	3/8"	1/2 NPT RA MALE SWIVEL x 1/4" MALE NPT	4000 psi
<b>894</b>	3/8" HP HOSE 75' W 1/4" NPTM END	75'	3/8"	1/2 NPT MALE SWIVEL x 1/4" MALE NPT	4000 psi
<b>SPECIALTY HOSES FOR DEF, DIESEL, SUCTION AND OTHER</b>					
<b>813 000</b>	3/8" LP HOSE 5' BUNA LINER, NYLON ENDS	5'	3/8"	3/8" NPT MALE FIXED NYLON x 3/8" NPT MALE FIXED NYLON	300 psi
<b>869</b>	2' BY 1 1/2" GRAVITY DRAIN HOSE	2.5'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE FIXED	150 psi
<b>822 2</b>	1/2" LP HOSE 2' W PLASTIC ENDS	2.5'	1/2"	1/2" POLY MALE x 1/2" POLY MALE	150 psi
<b>750 380</b>	DEF HOSE 90° x 3/4" BSPP MALE	2.5'	1/2"	90° Cone W oring 1/2" FEMALE SS x 1/2" BSPP MALE SS	200 psi
<b>822 020</b>	1/2" LP DEF HOSE 2' POLY FITTINGS 1/2"	2.5'	1/2"	1/2" NPT MALE POLY x 1/2" NPT MALE POLY	250 psi
<b>750 503</b>	DEF 3' DISPENSE HOSE 1/2" NPT NYLON	3'	1/2"	1/2" MALE NPT POLY x 1/2" MALE NPT POLY	200 psi
<b>750 522</b>	3' DEF HOSE 90° x 90°	3'	1/2"	90° Cone W oring 1/2" FEMALE SS x 90° Cone W oring 1/2" FEMALE SS	200 psi
<b>750 527</b>	3' 1/2" DEF HOSE 90° x 1" BSPP MALE	3'	1/2"	90° Cone W oring 1/2" FEMALE SS x 1" BSPP MALE SS	200 psi
<b>823 2</b>	1/2" LP HOSE 5' PLASTIC ENDS	5'	1/2"	1/2" POLY MALE x 1/2" POLY MALE	150 psi
<b>823 000</b>	1/2" LP HOSE 5' BUNA LINER, NYLON ENDS	5'	1/2"	1/2" NPT MALE POLY x 1/2" NPT MALE POLY	300 psi
<b>823 408</b>	1/2" LP DEF HOSE 8' PLASTIC ENDS W SPRI	8'	1/2"	1/2" POLY MALE x 1/2" POLY MALE	150 psi
<b>750 523</b>	8' 1/2" DEF HOSE 90° x 3/4 BSPP MALE	8'	1/2"	90° Cone W oring 1/2" FEMALE SS x 3/4" BSPP MALE SS	200 psi
<b>750 528</b>	8' 1/2" DEF HOSE 3/4" BSPP MALE x 1" BSPP MALE	8'	1/2"	3/4" BSPP MALE SS x 1" BSPP MALE SS	200 psi
<b>824 2</b>	1/2" LP HOSE 10' PLASTIC ENDS	10'	1/2"	1/2" POLY MALE x 1/2" POLY MALE	150 psi
<b>750 500</b>	DEF 12' DISPENSE HOSE 1/2" POLY NPT	12'	1/2"	1/2" MALE NPT POLY x 1/2" MALE NPT POLY	200 psi
<b>750 524</b>	12' 1/2" DEF HOSE 90° x 3/4" BSPP MALE	12'	1/2"	90° Cone W oring 1/2" FEMALE SS x 3/4" BSPP MALE SS	200 psi
<b>750 385</b>	30' 1/2" DEF HOSE 90° x 3/4" BSPP MALE	30'	1/2"	90° Cone W oring 1/2" FEMALE SS x 3/4" BSPP MALE SS	200 psi
<b>826 2</b>	1/2" LP HOSE 30' PLASTIC ENDS	30'	1/2"	1/2" NPT MALE POLY x 1/2" NPT MALE POLY	300 psi
<b>829 2</b>	1/2" LP HOSE 50' W PLASTIC ENDS	50'	1/2"	1/2" POLY MALE x 1/2" POLY MALE	150 psi
<b>750 384</b>	DEF HOSE 90° x 3/4 BSPP MALE	50'	1/2"	90° Cone W oring 1/2" FEMALE SS x 3/4" BSPP MALE SS	200 psi
<b>829G</b>	1/2" LP HOSE 50' GREEN	50'	1/2"	1/2" NPT MALE FIXED x 1/2" NPT MALE SWIVEL	250 psi
<b>898</b>	3/4" BY 22 1/4" VISI-FLEX HOSE FOR 1353	2'	3/4"	3/4" NPT MALE x 3/4" NPT MALE	150 psi
<b>750 530</b>	DEF INLET HOSE 3/4"	2.5'	3/4"	90° Cone W oring 3/4" MALE SS x 1" BSPP MALE SS	200 psi
<b>750 531</b>	DEF 30' 3/4" F SWEEP x 1" BSPP FEMALE SWIVEL	2.5'	3/4"	90° Cone W oring 3/4" FEMALE SS x 1" BSPP FEMALE SW SS	200 psi
<b>750 535</b>	DEF INLET HOSE 3/4"	3'	3/4"	90° Cone W oring 3/4" FEMALE SS x 1" BSPP FEMALE SW SS	200 psi
<b>862</b>	3/4" CLEAR SUCTION HOSE 4'	4'	3/4"	3/4" NPT MALE FIXED x 3/4" NPT MALE FIXED	150 psi
<b>745 304</b>	3/4" x 4' CLEAR SUCTION HOSE	4'	3/4"	3/4" NPT MALE FIXED x 2" NPT MALE	150 psi
<b>745 306</b>	3/4" x 4' CLEAR SUCTION HOSE	4'	3/4"	3/4" NPT MALE FIXED x 2" NPT MALE	150 psi
<b>750 539</b>	DEF HOSE STANDARD DUTY	5'	3/4"	OPEN x OPEN	200 psi

## LOW, MEDIUM AND HIGH PRESSURE HOSES

PART No.	DESCRIPTION	LENGTH	DIAMETER	FITTINGS	WORKING PRESSURE
<b>750 540</b>	DEF HOSE STANDARD DUTY	8'	3/4"	OPEN x OPEN	200 psi
<b>750 526</b>	8' 3/4" DEF HOSE 90° x OPEN	8'	3/4"	90° Cone W oring 1/2" FEMALE SS x OPEN	200 psi
<b>750 534</b>	DEF 20' 3/4" F SWEEP x 1" BSPP FEMALE SWIVEL	20'	3/4"	90° Cone W oring 3/4" FEMALE SS x 1" BSPP FEMALE SW SS	200 psi
<b>750 538</b>	DEF HOSE STANDARD DUTY	20'	3/4"	OPEN x OPEN	200 psi
<b>750 515</b>	30' 3/4" BSPP MALE x 3/4" BSPP MALE SWIVEL	30'	3/4"	3/4 BSPP MALE x 3/4" BSPP MALE SWIVEL	200 psi
<b>750 531</b>	DEF 30' 3/4 F SWEEP x 1" BSPP FEMALE SWIVEL	30'	3/4"	90° Cone W oring 3/4" FEMALE SS x 1" BSPP FEMALE SW SS	200 psi
<b>750 516</b>	40' 3/4" BSPP MALE x 3/4" BSPP MALE SWIVEL	40'	3/4"	3/4 BSPP MALE x 3/4" BSPP MALE SWIVEL	200 psi
<b>750 532</b>	DEF 40' 3/4 F SWEEP x 1" BSPP FEMALE SWIVEL	40'	3/4"	90° Cone W oring 3/4" FEMALE SS x 1" BSPP FEMALE SW SS	200 psi
<b>750 505</b>	50' 3/4" BSPP MALE x 3/4" BSPP MALE SWIVEL	50'	3/4"	3/4 BSPP MALE x 3/4" BSPP MALE SWIVEL	200 psi
<b>750 533</b>	DEF 50' 3/4" F SWEEP x 1" BSPP FEMALE SWIVEL	50'	3/4"	90° Cone W oring 3/4" FEMALE SS x 1" BSPP FEMALE SW SS	200 psi
<b>750 537</b>	DEF HOSE STANDARD DUTY	50'	3/4"	OPEN x OPEN	200 psi
<b>863 350</b>	3/4" DIESEL HOSE 50'	50'	3/4"	3/4" NPT MALE FIXED x 3/4" NPT MALE FIXED	250 psi
<b>857 475</b>	3/4" LP DIESEL HOSE 75'	75'	3/4"	3/4" NPT MALE FIXED x 3/4" NPT MALE FIXED	250 psi
<b>863 001</b>	LP DIESEL HOSE	2.5'	1"	1" NPT MALE FIXED x 1" NPT MALE SWIVEL	250 psi
<b>863 405</b>	1" LP HOSE 5' BUNA LINER, NYLON ENDS	5'	1"	1" NPT MALE POLY x 1" NPT MALE POLY	200 psi
<b>863 403</b>	1" DIESEL HOSE 30"	30'	1"	1" NPT MALE FIXED x 1" NPT MALE FIXED	250 psi
<b>863 450</b>	1" LP DIESEL HOSE 50'	50'	1"	1" NPT MALE FIXED x 1" NPT MALE FIXED	200 psi
<b>863 505</b>	1 1/2" LP HOSE 5' BUNA LINER, NYLON ENDS	5'	1 1/2"	1 1/2" MALE FIXED x 1 1/2" MALE FIXED	150 psi
<b>863 605</b>	2" LP HOSE 5' BUNA LINER, NYLON ENDS	5'	2"	1/2" POLY MALE x 1/2" POLY MALE	150 psi



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