# Ingersoll Rand ARO Lubrication Equipment Catalog





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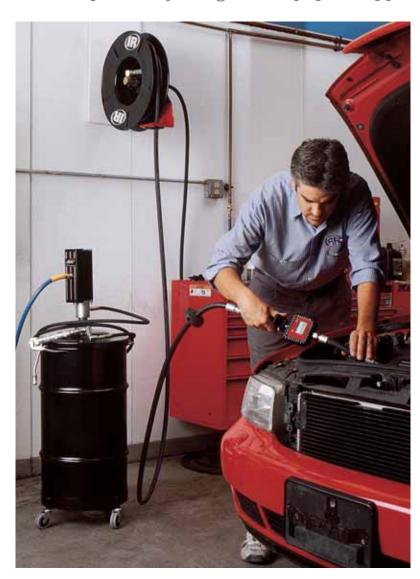
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#### **Lubrication Equipment Warranty**

Ingersoll Rand / ARO lubrication equipment is built with the finest materials to deliver reliable products with extended durability. Our warranty is your assurance of a quality product. See your Ingersoll Rand distributor for details.

## **Lubrication Equipment**

Ingersoll Rand / ARO lubrication equipment reflects the same high standards of performance as our tools and air compressors, with a full range of products that will keep all types of fluids moving efficiently. They are backed by more than 70 years of experience in pump and air system technology, and include models specifically designed for popular applications.



- Piston pumps for grease or for motor oil, gear oil, and transmission fluid
- Unique design improves flow, reduces pulsation, and extends service life
- 50 percent fewer parts than comparable pumps
- Fast, easy, in-line service, with no special tools required
- Stall-free, ice-free air motor with tough, durable housing
- Diaphragm pumps for drum use with oil and other light fluids — or for direct use with antifreeze, water, windshield cleaning fluid, fuel, solvents, oils, transmission fluid, and waste oil
- Patented unstallable air valve applies constant pressure to ensure resets
- Bolted construction provides better joint integrity and fast, easy servicing
- No lubrication or complex controls required
- Digital / metered fluid control handles are precise and easy to use
- High-pressure grease control handles
- Hand-held grease guns
- Convenient hose reels for a clean, safe workplace
- Professional grade oil drains
- Full range of general lubrication fittings and accessories

All Ingersoll Rand / ARO lubrication equipment is built to a global quality standard to deliver unmatched dependability and productivity.

Call your distributor for complete details and recommendations for your facility.

### Typical Quick-lube Installation

#### **EQUIPMENT ROOM** 11 11 9 16 Air compressor Chassis Windshield Automatic Motor oil solvent **Gear oil** transmission (from mixture fluid bulk tank) 19

- 1. Pump: PD05P-ARS-PTT-B
- **2.** 1/2" (12.7 mm) air line filter: **F25241-110**
- **3.** 1/2" (12.7 mm) material hose: **623501-5**
- 4. Wall-mount bracket: 76763
- 5. Pump: LM2305A-11-B
- 6. Wall-mount bracket: 61113
- **7.** 1-1/2" (38.1 mm) ID material hose **(by others)**
- **8.** Siphon tube assembly: **66779** with 1-1/2" (F) x 1" (38.1 mm x 25.4 mm) reducing bushing
- **9.** 1/4" (6.3 mm) ID air hose: **622201-3**
- 10. Siphon tube assembly: 61409
- Air line filter / regulator:
   P29221-610 (gauge included)
- **12.** Pump: **LM2305A-41-B** 55-gal service (208.2 L)
- **13.** Single-post lift: **640067 400-lb service (181.4 kg)**
- 14. Pump: LP3005-1 400-lb service (181.4 kg) LP3002-1 120-lb service (54.4 kg)
- Follower plate assembly: 640015-1 400-lb service (181.4 kg)
   640165 120-lb service (54.4 kg)
   (included with LP3002-1)
- **16.** Pump: **LM2305A-11-B**
- 17. Wall-mount bracket: 61113
- **18.** 1-1/2" (38.1 mm) ID material hose: **(by others)**
- **19.** 1" (25.4 mm) pipe swivel union: **75368** with 1-1/2" (F) x 1" (M) (38.1 mm x 25.4 mm) reducing bushing

High-pressure relief valve kit: 61118

#### Windshield solvent, automatic transmission fluid, antifreeze

An excellent delivery pump for all types of fluids, the Ingersoll Rand / ARO 1/2'' (12.7 mm) diaphragm pump is the best-selling diaphragm pump in the country – and it's covered by a 5-year warranty.

Model PD05P-ARS-PTT-B 1:1 ratio 13 gpm (49.1 l/m) (free flow)



## Motor/gear oil, automatic transmission fluid

This reliable, hard-working pump comes complete with air coupler and connector, plus a 2'' (50.8 mm) bung adapter.

Model LM2305A-41-B 5:1 ratio 3" (76.2 cm) air motor 9 gpm (34.0 l/m) (free flow)



#### Chassis

Designed for high-pressure delivery of grease, the pump will handle your toughest chassis lube needs. Comes with air / material hose plus drum cover.

Model LP3005-1 50:1 ratio 3" (76.2 cm) air motor 7.5 pounds per minute (3.4 kg/min) (free flow)



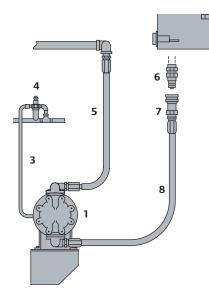
#### Waste oil

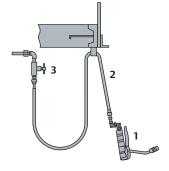
The Ingersoll Rand / ARO 1" (25.4 mm) diaphragm pump's simple design will provide years of trouble-free waste oil handling. All of our diaphragm pumps are covered by a 5-year warranty for an extra measure of user security.

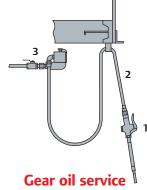
Model 666100-3C9-C 1:1 ratio 35 gpm (132.4 l/m) (free flow)



#### **PIT AREA**







#### Waste oil system

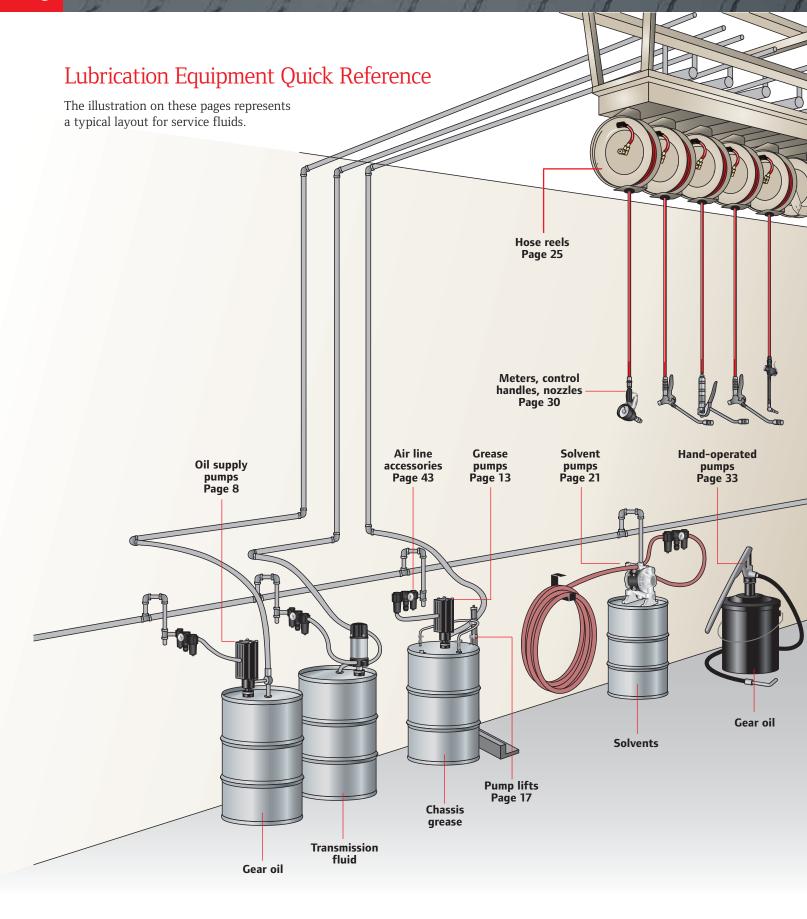
- **1.** 1" (25.4 mm) diaphragm pump: **666100-3C9-C**
- 2. Wall-mount bracket: 66100
- **3.** 1/4" (6.3 mm) air hose: **622201-5**
- 4. Air line filter / regulator, gauge: P29122-600
- **5.** 1" (25.4 mm) ID material outlet hose: **628067-3**
- 6. Fluid connector: 920227. Fluid coupler: 92021
- **8.** 1" (25.4 mm) ID material inlet hose: **628066-6**

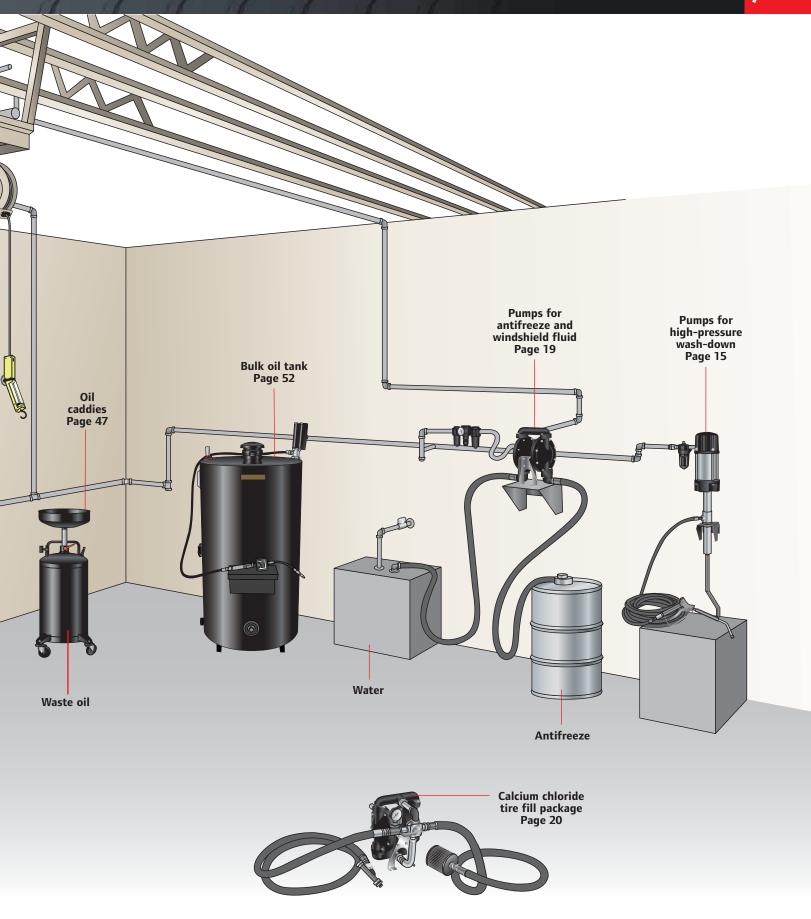
#### **Chassis service**

- 1. High-pressure control handle: 636111 Swivel: 636077
- **2.** 1/4" (6.3 mm) ID material hose: **624201-10**
- **3.** 1/2" (12.7 mm) high-pressure shut-off valve: **636042 (order separately)**
- 1. Control handle: 635391-1
- **2.** 1/2" (12.7 mm) material hose: **623501-10** In-line meter: **635190-1**
- **3.** 1/2" (12.7 mm) medium-pressure shut-off valve: **66592 (order separately)**









## **Piston Pumps**

### LM Series Piston Pumps

#### Built tough to fit the way you work

LM Series piston pumps deliver unmatched industrial-strength performance for pumping fluids with sizes to fit small (16-gal / 35-lb, 60.5 L / 15.8 kg) or large (275-gal / 400-lb, 1040.9 L / 181.4 kg) containers. Working flow rates range from two to six gallons per minute. Pumps are offered from 3:1 to 50:1 ratios, in order to meet the requirements of any application.

#### **Features and benefits**

- Pump's patented design improves flow, reduces pulsation, and extends service life
- Offers simple self-service maintenance due to advanced design with 50% fewer parts
- Reduces service time, due to in-line service design with no special tools required
- Features stall-free, ice-free air motor with tough, durable housing

#### Why Ingersoll Rand / ARO?

Our LM series is ideal for pumping grease, motor oil, gear oil, or transmission fluid. The simple, durable design allows for piston pump service by any owner or qualified technician. Also look for our convenient grease and oil pump packages.

- Flexibility LM pumps can be serviced in-line and feature a rugged all-weather design (3:1 pumps only)
- Dependability Valving design uses no trip rods or push pins that usually break
- Durability Our stall-free, ice-free air motor is contained in a rugged housing
- Commitment Ingersoll Rand pumps come with a 5-year warranty



### Motor Oil, Gear Oil, Transmission Fluid

Model		Working flow gpm (l/m)	Free flow gpm (I/m)	Fluid inlet / outlet NPTF (mm)	Container size gal (L)	Air inlet in (mm)
3:1 PISTON PUM	IP .					
LM2203A-11-C	(-12-C = BSP Thread)	6 (23)	9 (34)	3/4" / 1/2" (19 / 13)	Stub	1/4" (6)
LM2203A-31-C	(-32-C = BSP Thread)	6 (23)	9 (34)	3/4" / 1/2" (19 / 13)	16 (60.6)	1/4" (6)
LM2203A-41-C	(-42-C = BSP Thread)	6 (23)	9 (34)	3/4" / 1/2" (19 / 13)	55 (208.2)	1/4" (6)
LM2203A-51-C	(-52-C = BSP Thread)	6 (23)	9 (34)	3/4" / 1/2" (19 / 13)	275 (1040.9)	1/4" (6)
5:1 PISTON PUM	IP					
LM2305A-11-B	(-12-B = BSP Thread)	6 (23)	9 (34)	1-1/2" / 1/2" (38 / 13)	Stub	1/4" (6)
LM2305A-31-B	(-32-B = BSP Thread)	6 (23)	9 (34)	1-1/2" / 1/2" (38 / 13)	16 (60.6)	1/4" (6)
LM2304A-41-B	(-42-B = BSP Threads)	6 (23)	9 (34)	1-1/2" / 1/2" (38 / 13)	55 (208.2)	1/4" (6)
LM2304A-51-B	(-52-B = BSP Threads)	6 (23)	9 (34)	1-1/2" / 1/2" (38 / 13)	275 (1040.9)	1/4" (6)





### Piston Pump Packages

Model	Description	Pump model	Meter	Control handle	Dolly	Drum cover	Hose	Valve
OIL PUMP PAC	KAGES							
LP2100-1-B	3:1 ratio, 16-gal (60.6 L) portable pump package	LM2203A-31-C	635190-1 (pint)	635391-1	640058-2	94421	623501-6	67085
LP2100-2-B	3:1 ratio, 16-gal (60.6 L) portable pump package	LM2203A-31-C	635190-3 (L)	635391-1	640058-2	94421	623501-6	67085
LP3100-1-B	3:1 ratio, 16-gal (60.6 L) portable pump package	LM2305A-31-B	635190-1 (pint)	635391-1	640058-2	94421	623501-6	N/A
LP3100-2-B	3:1 ratio, 16-gal (60.6 L) portable pump package	LM2305A-31-B	635190-3 (L)	635391-1	640058-2	94421	623501-6	N/A





### Heavy-duty Piston Pumps (for oil service)

Model	Working flow gpm (I/m)	Free flow gpm (I/m)	Air inlet NPT (F) in (mm)	Fluid outlet NPT (F) in (mm)	Container size gal (L)	Accessories
PISTON PUM	P I:I KAIIU 2" DIAN	METER AIR MOTOR (2	200 SERIES)			
612041-1	9 (34)	18 (68)	1/4" (6.3)	3/4" (19.1 mm)	55 (208.2)	Bung adapter
612041-3	9 (34)	18 (68)	1/4" (6.3)	3/4" (19.1 mm)	55 (208.2)	Bung adapter
612042-1	9 (34)	18 (68)	1/4" (6.3)	3/4" (19.1 mm)	275 (1041)	Bung adapter
PISTON PUM	P 9:1 RATIO 4-1/4"	DIAMETER AIR MOTO	OR (425 SERIES)			
662420-B	3.9 (14.8)	21 (79.4)	1/4" (6.3)	3/4" (19.1 mm)	Stub	
662409	3.9 (14.8)	21 (79.4)	1/4" (6.3)	3/4" (19.1 mm)	16 (60.6)	
662410-B	3.9 (14.8)	21 (79.4)	1/4" (6.3)	3/4" (19.1 mm)	55 (208.2)	_

#### 612041-1

1:1 ratio pump ideal for pumping motor oil, gear oil, and transmission fluid. This model fits a standard 55-gal (208.2 L) drum (including bung adaptor).

#### 612042-1

1:1 ratio piston pumps are ideal for moving oils and fluids at high volumes. This model is designed for 275 obround tanks.

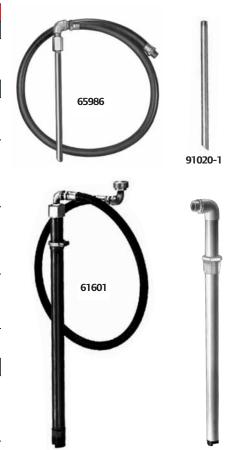
#### 662410-В

425 Series pumps are designed with a 9:1 pump ratio, 4-1/4" (108 mm) air motor, and are ideal for pumping heavy oils over long distances.



## **Piston Pump Accessories**

Model	Description	For use with
5-GAL CONT	AINERS	
65986	Siphon tube has 6' (1.8 m) long, 3/4" (19 mm) ID hose with 3/4" (1.9 cm) NPT (M) outlet; hose is neoprene over Thiokol and includes 91020-1 tube.	Wall-mounted stub pumps
55-GAL CON	TAINERS	
65986-1	Siphon tube has 6' (1.8 m) long, 3/4" (19 mm) ID hose with 3/4" (1.9 cm) NPT (M) outlet; hose is neoprene over Thiokol.	Drum cover for closed drum w/ 2" (50.8 mm) bung opening
61601	Speeds 55-gal (208.2 L) drum change-over. No need to handle pump. Includes 622651-06 hose, Y45-24-C adapter bushing, Y43-5-C street elbow, and 65109 (36" long, 914 mm) carbon steel suction tube; 3/4" (19 mm) NPT(F) fluid outlet.	Wall-mounted stub pumps
66779	For pumping from 55-gal (208.2 L) drum. PVC tube has foot valve for positive priming. Includes 76193 bung adapter, adjustable to approximately 35-1/2" (902 mm); 1" (25.4 mm) NPT (F) fluid outlet.	Stub pumps and diaphragm pumps
61409	For pumping from 55-gal (208.2 L) drum. 90° PVC siphon tube, 35-1/2" (902 mm) long with 2" bung adapter for 55-gal drums. Can easily be cut to desired length,on site; 1/2" (12.7 mm) NPT (F) outlet.	1/2" diaphragm pumps and stub pumps
91020-2	1/2" (12.7 mm) galvanized suction tube for 55-gal (208.2 liter) containers; 36" long (914 mm).	
275-GAL CO	VTAINERS	
66779-2	For pumping from 275-gal (1040.9 L) tanks. PVC diaphragm tube has foot valve for positive priming. Includes 76193 bung adapter, adjustable to approximately 48-1/4" (1232 mm). 1" (25.4 mm) NPT (F) fluid outlet.	Stub pumps and pumps



66779

### Fittings

Model	Hose size ID in (mm)	Hose length ft (m)	Hose material	Fluid inlet NPT (M) in (mm)	Fluid outlet (NPT) in (mm)	Used with
SIPHON H	OSE, CARBO	ON STEEL FI	TTINGS			
622701-6	1" (25.4)	6' (1.8)	Nylon tube with oil-resistant cover	1" (25.4)	1" (25.4)	Carbon steel siphon tube
STAINLES	S STEEL FIT	TINGS				
622702-6	1" (25.4)	6' (1.8)	Nylon tube with oil-resistant cover	1" (25.4)	1" (25.4)	Stainless steel siphon tube
622702-10	1" (25.4)	10' (3)	Nylon tube with oil-resistant cover	1" (25.4)	1" (25.4)	Stainless steel siphon tube

### Inlet Material Filters

Model	Description	For use with
651830	Filter element keeps foreign matter from entering lower pump end	Adapts to 91020-1 or -2 pipe extension.
66480	Filter and check valve assembly constructed of 316 stainless steel, assembly has 1" (25.4 mm) NPT (F) connections and 40-mesh screen; 4-3/4" (121 mm) long x 2-1/8" (54 mm) in diameter	Used with suction tubes when fluid is corrosive and viscosity requires a foot valve for positive priming.

651830



66480

### Wall Mount Bracket

Model	Description	For use with
61113	2" (50.8 mm) NPT (F) opening for bung-type pumps; bracket can slip over rim of open-head drum or be wall-mounted	55-gal (208.1 L) bung-type pumps and 200 Series, Thunder Series and 425 Series stub pumps fitted with bung adapters
66100	Wall-mount bracket has removable mounting plate	425 Series, 4" (101.6 mm) stroke pumps
66101	Wall-mount bracket has removable mounting plate	425 Series, 6" (152.4 mm) stroke pumps



### **Bung Adapters**

	-	
Model	Description	For use with
60870	2" (50.8 mm) (M) for use with 2-1/8" (57.1 mm) siphon tube	200 Series, 1:1 ratio immersed pumps 425 Series, 9:1 ratio immersed pumps
67145-3-B	2" (50.8 mm) (M)	Thunder Series, 3:1 oil pumps
67145-4-B	2" (50.8 mm) (M)	Thunder Series, 5:1 oil pumps
BUNG ADAF	PTER SEAL KITS	
67088-3	Water-tight seal kit includes 67145-3 bung adapter and 67088 seal kit	Thunder Series 3:1 oil pumps
67088-4	Same as above, except includes 67145-4 bung adapter and 67088 seal kit	Thunder Series 5:1 oil pumps



67145-X



67145-X-B

## **Grease Pumps**

### Grease Pumps

Model		orking flow r minute (kg/min)	Free flow pounds per minute (kg/min)	Fluid outlet in (mm)	Container size gal (L)	Air inlet in (mm)
50:1 PISTON PU	MP					
2" DIAMETER AI	IR MOTOR (3" STROKE)					
LM2250E-21-B	(-22 = BSP thread)	2(1)	9 (4)	3/8" (9.5)	35 (132.4)	1/4" (6)
LM2250E-31-B	(-32 = BSP thread)	2(1)	9 (4)	3/8" (9.5)	120 (454.2)	1/4" (6)
LM2250E-41-B	(-42 = BSP thread)	2(1)	9 (4)	3/8" (9.5)	400 (1514.2)	1/4" (6)
LM2250E-61-B	(-61 = BSP thread)	2(1)	9 (4)	3/8" (9.5)	60 (227.1)	1/4" (6)
3" DIAMETER AI	IR MOTOR (3" STROKE)					
LM2350E-21-B	(-22-B = BSP thread)	4 (2)	7.5 (3)	3/8" (9.5)	35 (132.4)	1/4" (6)
LM2350E-31-B	(-32-B = BSP thread)	4 (2)	7.5 (3)	3/8" (9.5)	120 (454.2)	1/4" (6)
LM2350E-41-B	(-42-B = BSP thread)	4 (2)	7.5 (3)	3/8" (9.5)	400 (1514.2)	1/4" (6)
LM2350E-61-B		4 (2)	7.5 (3)	3/8" (9.5)	60 (227.1)	1/4" (6)

### Grease Pump Packages

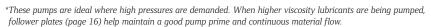
Model	Size	Pump model	Meter	Control handle	Dolly	Drum cover	Hose	Follower plate	Handle	Adapter	Z-Swivel
2" DIAMETE	R AIR MOTOR										
LP2001-1-B	35-lb (15.8 kg)	LM2250E-21-B	N/A	N/A	N/A	94420	N/A	640095-2-B	94334	N/A	N/A
LP2002-1-B	35-lb (15.8 kg)	LM2250E-21-B	N/A	636111	N/A	94420	624201-10	640095-2-B	94334	76493	636077
LP2003-1-B	120-lb (54.4 kg)	LM2250E-31-B	N/A	N/A	N/A	94421	N/A	640165	N/A	N/A	N/A
LP2004-1-B	120-lb (54.4 kg)	LM2250E-31-B	N/A	636111	N/A	94421	624201-10	640165	N/A	76493	636077
LP2006-1-B	120-lb (54.4 kg)	LM2250E-31-B	N/A	636111	640058-2	94421	624201-10	640165	N/A	76493	636077
3" DIAMETE	R AIR MOTOR										
LP3001-1	35-lb (15.8 kg)	LM2350E-21-B	N/A	636103	N/A	94420	624201-10	640095-2-B	94334	76493	636077
LP3002-1	120-lb (54.4 kg)	LM2350E-31-B	622201-3	N/A	N/A	94421	624401-4	640165	N/A	N/A	N/A
LP3003-1	120-lb (54.4 kg)	LM2350E-31-B	N/A	636103	640057	94421	624201-10	640165	N/A	76493	636077
LP3004-1	120-lb (54.4 kg)	LM2350E-31-B	N/A	636111	640058-2	94421	624201-10	640165	N/A	76493	636077
LP3005-1	400-lb (181.4 kg)	LM2350E-41-B	622201-3	N/A	N/A	94422	624401-4	640015-1	N/A	N/A	N/A
LP3007-1	60-lb (27.2 kg)	LM2350E-61-B	N/A	636111	N/A	71740-1	624401-4	N/A	N/A	N/A	N/A





### Grease NLGI 0 - 3 lb

Model	Max per minute @ 90 psi lb (kg)	Air inlet NPT in (mm)	Fluid inlet NPP in	Fluid outlet NPT in (mm)	Accessories included
50:1 PISTO	N PUMP				
BASIC PUN	ЛРS 120-LB D	RUM, 4-1/4" DIA	METER AIR MO	OTOR (4" STROKE	)*
662402	6 (2.7)	1/2" (12.7) (F)	Immersed	1/2" (12.7) (F)	Pump only
400-LB DR	UM, 4-1/4" D	IAMETER AIR M	OTOR (4" STRO	KE)	
662400-C	6 (2.7)	1/2" (12.7) (F)	Immersed	1/2" (12.7) (F)	Pump only
100:1 PIST	ON PUMP				
BASIC PUN	/IPS 120-LB D	RUM, 6" DIAMET	ER AIR MOTOR	(4" STROKE)	
662605**	2.1 (.8)	1/2" (12.7) (F)	Immersed	1/2" (12.7) (F)	F/R/L C28241-810
400-LB DR	UM, 6" DIAM	ETER AIR MOTOF	R (4" STROKE)		
662608**	2.1 (.8)	1/2" (12.7) (F)	Immersed	1/2" (12.7) (F)	F/R/L C28241-810



<sup>\*\*</sup>WARNING: These 100:1 pumps deliver pressures up to 10,000 psi, which is in excess of the rated capacity of the accessories shown in this catalog. These 100:1 pumps can only be used in permanently installed systems where the pump is connected directly to piping with the proper rating for the application.



### Grease Pump Packages

piping with the proper rating for the application.

Package description	
EASE PUMP PACKAGES	
, 4-1/4" (107.9 MM) DIAMETER AIR MOTOR	
400-lb (181.4 kg) grease package includes $662400$ -C pump, $621501$ -05 air hose (5′ / 1.52 m), $624401$ -8 material hose (8′ / 2.1 m), $4148$ bung adapter (order follower plate $640015$ -2 when required)	
400-lb (181.4 kg) grease package includes 662400-C pump, L26241-110 air lubricator, 621501-05 air hose (5' / 1.5 m), 624401-8 material hose (8' / 24 m), and 60898 drum cover (order follower plate 640015-2 when required)	
E, 6" DIAMETER AIR MOTOR	
120-lb (54.4 kg) grease package includes 662605 pump, C28241- 810 air filter / Regulator / Lubricator, 66715 drum cover, and 640152-1 follower plate	
400-lb (181.4 kg) grease package includes 662608 pump, C28241- 810 air filter / regulator / lubricator, 71060-1 drum cover, 60870 bung adapter, and 640015-5 follower plate	
	air hose (5′ / 1.52 m), 624401-8 material hose (8′ / 2.1 m), 4148 bung adapter (order follower plate 640015-2 when required)  400-lb (181.4 kg) grease package includes 662400-C pump, L26241-110 air lubricator, 621501-05 air hose (5′ / 1.5 m), 624401-8 material hose (8′ / 24 m), and 60898 drum cover (order follower plate 640015-2 when required)  5E, 6" DIAMETER AIR MOTOR  120-lb (54.4 kg) grease package includes 662605 pump, C28241-810 air filter / Regulator / Lubricator, 66715 drum cover, and 640152-1 follower plate  400-lb (181.4 kg) grease package includes 662608 pump, C28241-810 air filter / regulator / lubricator, 71060-1 drum cover, 60870

## **Grease Pump Accessories**

### High-pressure Wash and Tire-Fill Pump Package

### High-power cleaning solutions

#### Perfect for cleaning:

- $\boldsymbol{\cdot}$  Cars and trucks
- Engines
- Construction equipment
- Aircraft
- · Farm equipment
- · Plant structures
- · Railroad equipment
- · Fleet vehicles

### With the application of:Degreasers

- Detergents
- · Cleaning solutions
- Water
- · Metal brighteners
- · Aluminum brighteners



Model	Description
SPRAY W	ASH PUMP PACKAGE
613104	4-1/4" (107.9 mm) High-pressure wall-mounted spray package includes 613100-1 pump, 61113 wall bracket, 61139-1 55-gal suction tube assembly, 622427-40 material hose (40' / 12.2 m), 641523 control handle, 61133 spray wand, TP6250-18 spray tip and L26241-010 Air Line lubricator

Model	Ratio	Max per minute gal (L)	Cycles per gal (L)	cu in per cycle (L)		kings material lower	Fluid inlet	Fluid outlet NPT in (mm)	Air inlet NPT in (mm)
BASIC PUM	PS								
STUB 4-1/4	l" DIAMET	ER AIR MOTOR ,	4" STROKE						
613100-1	10:1	3.9 (14.8)	21 (5.5)	11 (0.18)	Buna N	Buna N	Barbed	3/8" (9.5) (F)	1/2" (12.7) (F)

### Dollies, Hand Trucks

Model	Description
DOLLIES	
16-GAL DR	им
640057	Platform-type dolly has four swivel casters and three drum clamps; for use with steel or fiber drums
640058-2	Band-type dolly has four rubber-wheeled casters and screw clamp; for use with steel or fiber drums
HAND TRU	CKS
16-GAL DR	им
640062	Two-wheel truck has clamp rod and two base supports to hold drum; wheels are rubber
640149	Three-wheel truck includes hinged handle, swivel-type front wheel, and two 6" (152 mm) rubber rear wheels



### Drum Covers

Diuiii	COVEIS							
Model	Description	For use with						
5 GAL / 3	5-LB PAIL							
94420	Has 2" (50.8 mm) NPT (F) bung opening and three hold-down screws (fits 10.23" – 12", 259.8 mm – 304.8 mm OD drums)	Thunder Series 5-gal (18.9 L) bung pumps						
16 GAL /	16 GAL / 120-LB DRUM							
66492	Has pump opening, mounting holes, and tie-down brackets; order tie-down rods separately (fits 12.75" – 15", 323.8 mm – 381 mm OD Drums)	Models 662402 and 662409						
94421	Has 2" (50.8 mm) NPT (F) bung opening and three hold-down screws (fits 13-1/8" – 14-7/8", 333.3 mm – 377.8 mm OD drums)	Thunder Series 16-gal / 120 lb (60.6 L / 54.4 kg) bung pumps						
55 GAL /	400-LB DRUM							
71060-1	Has 2" (50.8 mm) NPT (F) bung opening and tie-down brackets; order tie-down rods separately (fits 20" – 24-5/8", 508 mm – 625.5 mm OD drums)	200 Series and 425 Series, 55-gal / 400-lb (208.1 L / 181.4 kg) bung-type						
94422	Has 2" (50.8 m) NPT (F) bung opening and three hold-down screws; bung pumps (fits 21-7/8" – 23-5/8", 555.6 mm – 600.1 mm OD drums)	55-gal (208.1 L) drum cover models LM2250E-41-B and LM2350E-41-B						



94420



94421



71060-1



94422

### Follower Plates

Model	Wiper seal material	OD of pump tube to be fitted in (mm)	For use with
35-LB TAPERED	PAIL (FITS 10" - 11	" ID DRUMS)	
640095-1-B	Rubber	1" (25)	Thunder Series 60:1
640095-2-B	Rubber	1-1/2" (38)	LM2250E-21-B, LM2350E-21-B
640095-3-B	Rubber	2" (51)	Hand pumps
120-LB DRUM (	FITS 13" – 14" ID DF	RUMS)	
640027	Buna-N	2" (51)	Hand pumps
640152	Buna-N	1-7/8" (48)	425 Series, 50:1
640152-1	Buna-N	2-1/8" (54)	600 Series, 100:1
640165	Buna-N	1-1/2" (38)	LM2250E-31-B, LM2350E-31-B
400-LB DRUM (	FITS 20" – 23" ID DF	RUMS)	
640015-2	Buna-N	1-7/8" (48)	425 Series, 50:1
640015-5	Buna-N	2-1/8" (54)	600 Series, 100:1
640015-1	Buna-N	1-1/2" (38)	LM2250E-41-B, LM2350E-41-B



640095-2-B



640015-1

### **Bung Adapters**

	-ap sold	
Model	Description	For use with
BUNG ADAPT	ERS	
4148	2" (50.8 mm) (M) for use with 1-7/8" (47.6 mm) siphon tube	425 Series, 50:1 ratio grease pumps
67145-1	2" (50.8 mm) (M)	Thunder Series, 60:1 grease pumps
67145-2	2" (50.8 mm) (M)	Thunder Series, 50:1 grease pumps
BUNG ADAPT	ER SEAL KITS	
67088	Water-tight seal for use outdoors	Thunder Series



### Cover Tie-down Rods

Model	Description	For use with							
16-GAL /	16-GAL / 120-LB DRUM								
640164	Tie-down bracket kit fixes / holds down drum cover. Includes brackets, rods, mounting hardware. Use with 94421 Cover.	Thunder Series pumps.							
640091	Set of two tie-down rods and mounting brackets. Use with 66492 Cover.	Series 200 and 425, 16-gal / 120-lb (60.6 L / 54.4 kg) drum covers							
55-GAL /	400-LB DRUM								
71027-1	Set of two tie-down rods and mounting brackets. Use with 71060 cover.	Thunder Series, also 200 and 425 Series, 55-gal /400-lb (208.1 L / 181.4 kg) drum covers							



### Pump Lifts

ı amp	<u> </u>	
Model	Description	For use with
SINGLE-PO	OST LIFT	
640225	Air-operated lift for 16 gal / 120-lb (60.6 L / 54.4 kg) container size. Extended height 62" (1.6 mm). Suggested drum cover 94421.	Thunder Series LM2250E-31-B LM2350E-31-B LM2305A-31-B
640067	Single-acting cylinder for easy 55-gal /400-lb (208.1 L / 181.4 kg) drum change-over. Requires 71060-1 drum cover. Extended height 92" (2.3 mm).	425 Series, Thunder Series



## **Diaphragm Pumps**

3/8" - 2" (9.5 mm - 50.8 mm) Fluid Ports

#### Why Ingersoll Rand / ARO?

Our diaphragm pumps are ideal for pumping oil or other light fluids such as antifreeze, water, windshield fluid, fuel (See UL 79 Approved Units), solvents, transmission fluid, and waste oil. Fluid ports for Ingersoll Rand / ARO diaphragm pumps range in size from 3/8" to 2" (9.5 to 51 mm) to meet the requirements of any application.

- Safety Bolted fasteners prevent fluid leaks harmful to workers and the environment
- Reliability Unbalanced valve design eliminates valve centering and pump stall-outs, even under low air inlet pressure
- Durability Diaphragms provide four times the life over competitors
- Flexibility Variety of body materials allow you to pump different fluids
- Commitment Ingersoll Rand / ARO diaphragm pumps come with a five-year warranty

#### Bolted construction for safe reliability and ease of assembly

All Ingersoll Rand / ARO diaphragm pumps use bolted construction that process professionals demand. Ingersoll Rand / ARO non-metallic diaphragm pumps also utilize fasteners that are constructed of 300 Series stainless steel for maximum chemical resistance.

**Bolted is safer** — Bolted construction reduces the risk of spills and environmental contamination, and the attendant, mandatory reports to regulatory agencies that spills can create.

**Bolted is reliable** — Bolted construction withstands the heavy loading that diaphragm pumps are subjected to, without concerns about breakage or loosening.

**Bolted is easier to assemble** — Our bolted design allows for easy positioning and alignment of parts during reassembly. This is a significant advantage over band-clamp style pump fasteners, which are difficult to align and hold together during reassembly.

**Bolted is less expensive** — This design uses standard bolts that cost significantly less to replace. Non-standard fastening devices (such as band clamps) are considered wear parts and are more expensive to replace.

### 2 Positive priming provides instant start-ups

Check valves are located close to the diaphragm chambers, ensuring a positive prime the first time, every time.

#### 3 Ideal for abrasion and solids-handling

Because Ingersoll Rand / ARO diaphragm pumps do not use the rotating, sliding seals found in rotary and centrifugal pumps, they're used by more process engineers to handle tough abrasion applications.

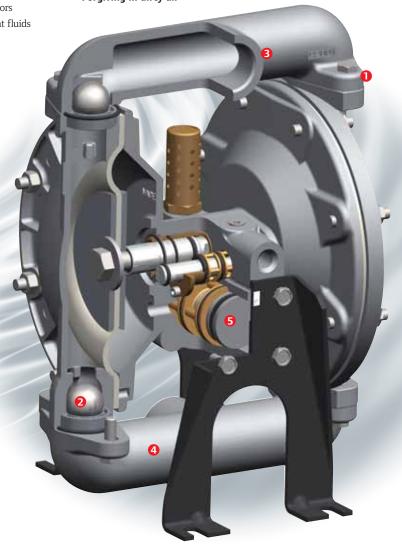
#### 4 Broad material selection

Ingersoll Rand / ARO offers a wide selection of materials, allowing your choice of the best possible wetted and non-wetted materials suited to your application.

### • Ingersoll Rand / ARO patented unbalanced air valve

Our unbalanced air valve design makes all Ingersoll Rand / ARO diaphragm pumps unstallable. Because the unbalanced valve cannot settle in a neutral position when the pump is shut down, it can't become stuck, requiring the operator to hammer on the pump in order to start up again.

- Eliminates shifting / freezing problems
- · Uses significantly less power than competition
- · Does not require lubrication
- Forgiving in dirty air



### Pro-Series Diaphragm Pumps

Model	Body materials (wetted)	Diaphragm / ball material	Air inlet NPT (F) in (mm)	Fluid inlet / outlet material in (mm)	Max flow gpm l/m	Compatible fluids	Replaces model
3/8" PORTS							
PD03P-ARS-PTT	Polypropylene	Teflon	1/4" (6.3)	3/8" (9.5)	10.6 (40.1)	Windshield fluid, motor / gear oil, transmission fluid, antifreeze	New
PD03P-ARS-PCC	Polypropylene	Hytrel	1/4" (6.3)	3/8" (9.5)	10.6 (40.1)	Windshield fluid, motor / gear oil, transmission fluid, antifreeze	New
PD03P-AES-DTT A	Acetal (groundable	) Teflon	1/4" (6.3)	3/8" (9.5)	10.6 (40.1)	Solvents	New
PD03P-AES-DCC A	Acetal (groundable	) Hytrel	1/4" (6.3)	3/8" (9.5)	10.6 (40.1)	Windshield fluid, motor / gear oil, transmission fluid, antifreeze	New
1/2" PORTS							
PD05P-ARS-PTT-B	Polypropylene	Teflon	1/4" (6.3)	1/2" (12.7)	14.4 (54.5)	Windshield fluid, motor / gear oil, transmission fluid, antifreeze	66605J-344*
PD05P-ARS-PCC-B	Polypropylene	Hytrel	1/4" (6.3)	1/2" (12.7)	14.4 (54.5)	Windshield fluid, motor / gear oil, transmission fluid, antifreeze	66605J-322*
PD05P-ARS-PAA-B	Polypropylene	Santoprene	1/4" (6.3)	1/2" (12.7)	14.4 (54.5)	Windshield fluid, antifreeze	66605J-388*
PD05P-AES-DTT-B	Acetal	Teflon	1/4" (6.3)	1/2" (12.7)	14.4 (54.5)		666056-6A4*
PD05P-AES-DCC-B	Acetal	Hytrel	1/4" (6.3)	1/2" (12.7)	14.4 (54.5)	Windshield fluid, motor / gear oil, transmission fluid, antifreeze	66605H-622*
66605J-344*	Polypropylene	Teflon	1/4" (6.3)	1/2" (12.7)	13 (49.2)	Windshield fluid, motor / gear oil, transmission fluid, antifreeze	
66605J-322*	Polypropylene	Nitrile	1/4" (6.3)	1/2" (12.7)	13 (49.2)	Windshield fluid, motor / gear oil, transmission fluid, antifreeze	
66605J-388*	Polypropylene	Polyurethane	1/4" (6.3)	1/2" (12.7)	13 (49.2)	Windshield fluid, motor / gear oil, transmission fluid, antifreeze	
1" PORTS							
666100-344-C	Aluminum	Teflon	1/4" (6.3)	1" (25.4)	35 (132.5)	Windshield fluid, motor / gear oil, transmission fluid, antifreeze, solve	nts
666100-3C9-C	Aluminum	Hytrel	1/4" (6.3)	1" (25.4)	35 (132.5)	Windshield fluid, motor / gear oil, transmission fluid, antifreeze	
666100-322-C	Aluminum	Buna	1/4" (6.3)	1" (25.4)	35 (132.5)	Windshield fluid, motor / gear oil, transmission fluid, antifreeze	
1-1/2" PORTS							
666150-362-C	Aluminum	Nitrile / Acetal	1/2" (12.7)	1-1/2" (38.1)	90 (340.7)	Windshield fluid, motor / gear oil, transmission fluid, antifreeze	
2" PORTS							
666250-9C9-C	Aluminum	Hytrel	3/4" (19.1)	2" (50.8)	172 (651.1)	Windshield fluid, motor / gear oil, transmission fluid, antifreeze	

<sup>\*</sup>These pumps have been superseded and will be discontinued in the near future. See recommended replacements above.

### Pro-Series Specialty Application Diaphragm Pumps

Model 1" PORTS 650717-C	Body material (wetted) Aluminum	ball n	ragm / naterial / Acetal	Air inlet NPT (F) in (mm)	Fluid inlet / outlet materia in (mm)	gpm (L,	/min) fluids
1-1/2" POR 650718-C 2" PORTS	Aluminum	Viton	/ Acetal	1/2" (127 mm)	1-1/2" (38.1 mm	n) 75 (28	3.9) Fuel (UL 79 approved)
650719-C <b>Model</b>	Aluminum  Application	Viton , Manifold material	/ Acetal  Diaphragr O-ring  material	NPT / F	2" (50.8 mm)  Fluid outlet  NPT / F  in (mm)	105 (39 Max gpm (L/min)	Package includes
1/2" PORTS					(	31 (=,)	
612999-5	Waste oil evacuation	Polypropylene	Nitrile	1/4" (6)	1/2" (13)	11 (42)	Wall mount, inlet and outlet fluid hoses
612999-6	Waste oil evacuation	Polypropylene	Nitrile	1/4" (6)	1/2" (13)	11 (42)	Hanging bracket and outlet hose
670042	Fuels	Aluminum	Viton	1/4" (6)	1/2" (13)	12 (45.4)	UL Pump only
<b>1" PORTS</b> 650715-C	50 / 50 mix of antifreeze and water	Aluminum	Nitrile	1/4" (6)	1" (25.4)	35 (133)	Pump only
612999-3	50 / 50 mix of antifreeze and water	Aluminum r	Nitrile	1/4" (6)	1" (25.4)	35 (133)	Wall mount, siphon tubes, material hoses
612999-4	Waste oil evacuation	Aluminum	Nitrile	1/4" (6)	1" (25.4)	35 (133)	Wall mount, inlet and outlet fluid hoses
613201-2-C	Calcium chloride tire filling	Aluminum	Neoprene	2 1/4" (6)	1" (25.4)	35 (133)	Inlet and outlet hoses, strainer, 8' suction hose, control handle, check valve



650715-C Fuel AntiFreeze/Water Blending Pump (1", 25.4 mm NPTF Outlet)

This 1:1 ratio pump has dual inlets to allow simultaneous pumping and blending of antifreeze and water.



#### 613201-2-C Calcium Chloride Tire-fill Pump Package

Designed for the purpose of evacuating and filling tires with calcium chloride ballast solution. Package includes a 666100-441-C, 1" (25.4 mm) port diaphragm pump. Aluminum construction with neoprene diaphragms and Teflon® checks for compatibility with corrosive calcium chloride and 60154 hose / strainer / gun assembly. Also includes check valve and all required clamps and related hardware.



650717-C U.L. approved Fuel Pump

Designed specifically for high-volume transfer, bulk-unloading, or fueling applications. These pumps meet UL 79 specification code and are compatible with gasoline, aviation fuel, diesel fuel, fuel oil and kerosene.

### Pro-Series Drum Diaphragm Pumps

#### **Drum Pumps**

ARO Drum Pumps are available in three body materials for optimum fluid compatibility: choose from aluminum, stainless steel or polypropylene body construction.

#### **Drum Pump Packages**

■ Package Components Factory-Matched – ARO Drum Pump package components contain pre-specified, matching materials of construction for complete fluid compatibility

#### Drum Pump Packages can be ordered in 3 styles:

- Basic: Pump, bung adapter, air safety shut-off, siphon tube, weather seal, and base
- Complete / Transfer: basic pump plus fluid hose or fluid hose with non-drip nozzle
- Complete / Dispensing: basic pump plus foot valve, hose and dispensing nozzle



#### **Pump Features**

- 11-gpm (13.4 l/m) flow capability: drum pumps offer plenty of capacity to satisfy a broad range of transfer application volume demands
- Stall-free operation: ARO diaphragm drum pumps feature a patented unbalanced air valve design that avoids stall-out, even under low air-inlet pressures
- Bolted construction: ARO diaphragm drum pumps utilize bolted fasteners for leak-tight integrity
- 5-year warranty

Ratio		Displacement per cycle gal (L)	NPT / F	inlet	outlet	pressure	diameter	Shipping weight lb (kg)	
1:1 RA	TIO DRUM PU	<b>MP PERFORMA</b>	NCE SPECIF	ICATION	S				

1:1 11 (41.6) .039 (.15) 1/4 (18) Siphon 1/2" - 14 100 (6.8) 3/32" (2.4) 22 (10) Polypropylene, basic package tube for 26 (11.8) Aluminum, basic package 55-gal Drum 36 (16.3) Stainless, basic package

Model	Pump housing and seats	Pump dia. and balls	Lock out valve (P/N 104253-2)	Foot valve	10' (3.0 m) hose ASM	Dispense valve	Fluid service
DAB05-PPTT-2-A	Polypropylene	PTFE (Teflon)	X	-	-	-	Acids & Caustics
DAB05-PPCC-2-A	Polypropylene	Hytrel	X	-	-	-	Oil
DAB05-PPUU-2-A	Polypropylene	Polyurethane	X	-	-	-	Water / Oil
DAB05-PPAA-2-A	Polypropylene	Santoprene	X	-	-	-	Mild Acids / Mild Caustics
DAB05-PPCC-2-N	Polypropylene	Hytrel	X	-	Nitrile	-	Oil
DAB05-PPCC-B-M	Polypropylene	Hytrel	X	X	Nitrile	No-drip	Oil
DAB05-PPAA-2-B	Polypropylene	Santoprene	X	-	EPDM	-	Mild Acids / Mild Caustics
DAB05-PPUU-2-C	Polypropylene	Polyurethane	X	-	Vinyl	-	Water / Oil
DAB05-PPCC-B-J	Polypropylene	Hytrel	X	X	Reinforced Nitrile	X	Oil
DAB05-PPAA-B-K	Polypropylene	Santoprene	X	X	EPDM	X	Mild Acids / Mild Caustics
DAB05-SSTT-2-A	Stainless Steel	PTFE (Teflon)	X	-	-	-	Solvent
DAB05-ASTT-2-A	Alum / SS	PTFE (Teflon)	X	-	-	-	Solvent
DAB05-APCC-2-A	Alum / Poly	Hytrel	X	-	-	-	Oil / Some Solvents
DAB05-APCC-2-0	Alum / Poly	Hytrel	X	-	Nitrile	-	Oil / Some Solvents
DAB05-APCC-B-P	Alum / Poly	Hytrel	X	X	Nitrile	No-drip	Oil / Some Solvents
DAB05-APCC-B-D	Alum / Poly	Hytrel	X	X	-	X	Oil / Some Solvents
DAB05-APCC-B-L	Alum / Poly	Hytrel	X	X	Reinforced Nitrile	X	Oil /Some Solvents
DAB05-ASAA-2-A	Alum / SS	Santoprene	X	-	-	-	Water

### Natural Gas-driven Diaphragm Pumps

From ARO, the world leader in stall and ice-free pump technology, comes three new natural gas-driven diaphragm pump models. Introducing the new CSA Certified diaphragm pumps. CSA (Canadian Standards Association) is internationally known for standards and certification of natural gas-powered equipment. These pumps are the ideal answer to fluid handling operations in remote locations, such as oil and gas facilities, where sweet natural gas is an available energy source. Combined with ARO's patented valve technologies, these gas-driven pumps have the wetted and body materials to deliver superior fluid compatibility and performance in a portable package.

#### **Feature**

- Ice-free, stall-free operation
- Bolted construction for leak-tight material integrity
- All-metal construction
- Flows up to 35.1 gpm (133 l/m)
- Lube-free operation
- Grounding strap included with pump
- Ported exhaust
- 5-year warranty
- CSA Certified: meets the CSA U.S. / International requirement No. 2.01 for natural gas-operated diaphragm pumps

Model	Ratio	Max flow gpm (L/min)	Displacement per cycle gal (L)	Gas inlet female NPT / F	Fluid inlet NPT / F	Fluid outlet NPT / F	Exhaust port NPT	Max operating pressure psi (bar)	Suspended solids max diameter in (mm)	Weight lb (kg)	Max dry suction lift ft (m)
1/2" PORTS											
PG05A-AAS-FGG-E	3 1:1	12.0 (45.4)	0.039 (0.15)	1/4"-18	1/2"-14	1/2"-14	3/8"-18	100 (6.9)	3/32" (2.4)	10.4 (4.7)	9.1' (2.8)
1" PORTS											
6661H0-1C9-C	1:1	35 (133)	0.16 (0.60)	1/4"-18	1"-11-1/2	1"-11-1/2	3/8"-18	120 (8.3)	1/8" (3.2)	19 (8.6)	20' (6.1)







6661H0-1C9-C



## **Diaphragm Pump Accessories**

#### Hose

1/2'' (12.7 mm) ID hose comes in 10' (3.0 m) lengths.

Model	Material	For use with	Fittings end / end	Dispensing nozzle used with (order separately)
621517-10	Nitrile	Polypropylene	Cam / bare	N/A
621516-10	Nitrile	Polypropylene	Cam / brass 1/4"-18 (6.3 mm) NPT male	635129
621523-10	Nitrile	Polypropylene	Cam / non-drip nozzle	N/A
621515-10	EPDM	Polypropylene	Cam / bare	N/A
621519-10	Vinyl	Polypropylene	Cam / bare	N/A
621514-10	EPDM	Polypropylene	Cam / 1" (25.4) NPT	95199
622514-10	Nylon	Polypropylene	1/2" (12.7 mm) NPT / 1/2" (12.7 mm) NPT 316 stainless stee	l
621518-10	Nitrile	Aluminum	Cam / bare	N/A
621520-10	Nitrile	Aluminum	Cam / brass 1/4"-18 (6.3 mm) NPTF	635129
621524-10	Nitrile	Aluminum	Cam / non-drip nozzle	N/A



**621514-10, 95200, 95199**Hose, swivel, and dispensing nozzle



Note: Hose requires 95189 to adapt to 1/2" port.

### Fluid Dispensing Nozzles

Model	Description	
95199	Composite Nozzle	High-flow nozzle works like gasoline nozzle; features tough composite (polypropylene) construction for caustic service
95200	Swivel	1'' (25.4 mm) (M) X $1''$ (25.4) NPT (F) Polypropylene hose swivel attaches between hose and dispensing nozzle and allows operator to rotate freely; use with 95199
95183	Oil Tapper	Easy-pull tapper attaches directly to pump outlet port and provides even flow dispensing; aluminum construction for oil service
77617	Oil Tapper Fitting	Plated carbon steel 1/2"-14 (12.7 mm) NPTF x 3/8"-18 (9.5 mm) NPTF -1; used to attach 95183 oil tapper to 1/2" aluminum pump
635129	Bibb with Trigger	1/4" (6.3 mm) NPT(F) inlet, zinc die casting with brass, and nitrile seals for water or oil service; radiator-type bibb has $1/4$ " (6.3 mm) fluid inlet and non-drip tip



### Foot Valves

Recommended for use with dispensing nozzle. Assembly includes housing, ball check, and O-ring.

Model	Description
637336	Polypropylene with Viton O-ring and ball. Use with 67231.
637337	Stainless steel with Viton O-ring and ball. Use with 67231-6 or 67231-7.



Drum Bung Adapter Kits
Kit contains base, bung adapter, bung seal, siphon tube, weather seal, and hardware for 55-gallon (208.1 L) drums.

Model	Base material	Tube material	Weather seal	Base seal
67231	Polypropylene	Polypropylene	UHMW PE	Viton
67231-6	Aluminum	Stainless Steel	Viton	Viton
67231-7	Stainless Steel	Stainless Steel	Viton	Viton



Note: Fasteners are 300 Series Stainless Steel

## Bulk Tank Adapter Kits Kit contains base, threaded adapter, and hardware.

Model	Description
67234	Polypropylene / Viton O-ring seal
67234-7	300 series stainless steel



### Pump Outlet Adapter

Model	Description
95189	Composite Fitting - 1/2" (12.7 mm) NPT (in) x MaleCam adapter (polypropylene)
95190	Aluminum Fitting - 1/2" (12.7 mm) NPT (in) x MaleCam adapter (aluminum)

### **Suction Tubes**

Suction Tubes								
Model	Description	Pumps used with						
SUCTION .	TUBES							
91020-1	1/2" (12.7 mm) galvanized suction tube for 5-gal containers; 16" (406.4 mm) long	1/2" (12.7 mm) diaphragm pumps						
65986-1	Siphon tube has 6' (1.8 m) long, $3/4$ " (19.1 mm) ID hose with $3/4$ " (19.1 mm) NPT (M) outlet; hose is Neoprene over Thiokol	Drum cover for closed drum with 2" (50.8 mm) bung opening						
66779	For pumping from 55-gal (208.1 L) drum; PVC tube has foot valve for positive priming; includes 76193 bung adapter, adjustable to approximately 35-1/2" (901.7 mm); 1" (25.4 mm) NPT (F) fluid outlet	Stub pumps and diaphragm pumps						
61409	For pumping from 55-gal (208.1 L) drum; 90° PVC siphon tube, 35-1/2" (901.7 mm) long with 2" (50.8 mm) bung adapter for 55 gal (208.1 L) drums that can easily be cut to desired length on site; 1/2" (12.7 mm) NPT (F) outlet	1/2" (12.7 mm) diaphragm pumps and stub pumps						
61412-1	For pumping from 275-gal (1040.9 L) tank; Threads directly into pump inlet, includes 2" (50.8 mm) bung adapter 45-1/2" (1.2 m) long; schedule 80 PVC pipe can easily be cut to desired length on site; 1/2" (12.7 mm) NPT (M) fluid outlet	1/2" (12.7 mm) diaphragm pump						



### Wall-mount Bracket

Wan mount bracket						
Model	Description	Pumps used with				
DIAPHRAGI	M PUMPS					
76763	Wall-mount bracket allows pump to be located convenient to container	1/2" (12.7 mm) diaphragm pumps				
66100	Wall-mount bracket has removable mounting plate	1" (25.4 mm) diaphragm pumps				
62133	Wall-mount bracket	1-1/2" (38.1 mm) diaphragm pumps				



## **Hose Reels**

### Heavy-duty Hose Reels

Model	Performance rating	Max pressure psi (bar)	Hose length ft (m)	Hose ID in (mm)	Inlet / outlet NPT in (mm)	Length in (mm)	Dimension: width in (mm)	s Height in (mm)	Spool material	Use
LOW-PR	ESSURE HOSE R	REELS								
6332	Heavy-duty	300 (20.7)	35' (10.7)	1/2" (12.7)	3/8" / 1/2" (9.5 / 12.7)	17.75" (450.8)	7" (177.8)	20.37" (517.3)	Composite	Air, water, compatible solvents
6338	Heavy-duty	300 (20.7)	35' (10.7)	3/8" (9.5)	3/8" / 3/8" (9.5 / 9.5)	17.75" (450.8)	7" (177.8)	20.37" (517.3)	Composite	Air, water, compatible solvents
6358	Heavy-duty	300 (20.7)	50' (15.2)	3/8" (9.5)	3/8" / 3/8" (9.5 / 9.5)	17.75" (450.8)	7" (177.8)	20.37" (517.3)	Composite	Air, water, compatible solvents, nitrogen
6358G	Heavy-duty	300 (20.7)	50' (15.2)	3/8" (9.5)	3/8" / 3/8" (9.5 / 9.5)	17.75" (450.8)	7" (177.8)	20.37" (517.3)	Composite	Air, water, compatible solvents, nitrogen
MEDIUN	MEDIUM-PRESSURE HOSE REELS									
6432	Heavy-duty	2000 (137.9)	35' (10.7)	1/2" (12.7)	1/2" / 1/2" (12.7 / 12.7)	17.75" (450.8)	7" (177.8)	20.37" (517.3)	Composite	Oil, antifreeze

Note: All models supplied with hose.

#### 6358 Low-pressure Heavy-duty Reel

This new composite hose reel provides excellent durability at a great value. All composite reels are made of a tough glass-filled composite material combined with a strong steel base.



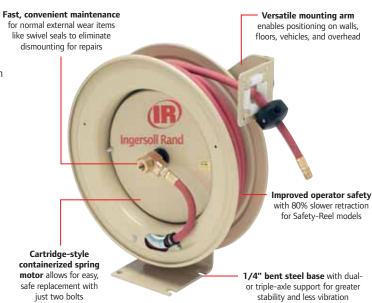
### Ultra-duty Hose Reels

#### Fully redesigned with you in mind

The Ingersoll Rand / ARO ultra-duty hose reels offer improved strength and durability in a hose reel design. The versatile guide arm adjusts for convenient wall, floor, and ceiling mounting positions. Models are available for air, water, oil, and fluid service. The Safety-Reel design (SR models) features a controlled retraction mechanism to reduce property damage and improve operator safety.

#### **Features and benefits**

- Spun-steel disc design for added strength and durability
- Containerized spring motor for fast and convenient maintenance
- Solid steel axle with precision bearings for smooth rotation
- Safety-Reel models feature 80% slower retraction to reduce property damage and improve operator safety



Model	Hose ID in (mm)	Inlet / outlet NPT in (mm)	Length ft (m)	psi (bar)	Weight lb (kg)
ULTRA-DUTY					
LOW-PRESSURE — A	AIR / WATER				
7UL3035	3/8" (9)	3/8" (9)	35' (11)	300 (21)	38 (17)
7UL3050	3/8" (9)	3/8" (9)	50' (15)	300 (21)	43 (20)
7UL3050-SR	3/8" (9)	3/8" (9)	50' (15)	300 (21)	43 (20)
7UL4030	1/2" (13)	1/2" (13)	30' (9)	300 (21)	45 (20)
7UL4050	1/2" (13)	1/2" (13)	50' (15)	300 (21)	48 (24)
7UL4050-SR	1/2" (13)	1/2" (13)	50' (15)	300 (21)	48 (24)
MEDIUM-PRESSURE	— OIL / FLUID				
7UM4025	1/2" (13)	1/2" (13)	25' (8)	2,500 (172)	49 (23)
7UM4025-SR	1/2" (13)	1/2" (13)	25' (8)	2,500 (172)	49 (23)
7UM4050	1/2" (13)	1/2" (13)	50' (15)	2,500 (172)	67 (30)
7UM4050-SR	1/2" (13)	1/2" (13)	50' (15)	2,500 (172)	67 (30)
HIGH-PRESSURE —	GREASE				
7UH3025	3/8" (9)	3/8" (9)	25' (8)	4,000 (276)	49 (22)
7UH3025-SR	3/8" (9)	3/8" (9)	25' (8)	4,000 (276)	49 (22)
7UH3050	3/8" (9)	3/8" (9)	50' (15)	4,000 (276)	65 (30)
7UH3050-SR	3/8" (9)	3/8" (9)	50' (15)	4,000 (276)	65 (30)

Note: All models supplied with hose.

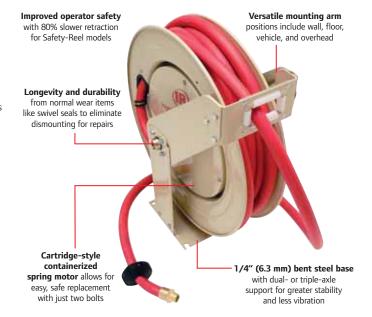
### Supreme-duty Hose Reels

#### Fully redesigned with you in mind

The supreme-duty series is designed for vehicle or heavy-duty applications requiring extra life and enhanced durability. The dual pedestal design offers triple-axle support points for improved strength and stability. Models are available for air, water, and fluid service. The Safety-Reel design features a controlled retraction mechanism to reduce property damage and improve operator safety.

#### **Features and benefits**

- Offers triple axle support
- Dual-pedestal design excellent for vehicle applications
- Spun-steel disc design for added strength and durability
- Safety-Reel models feature 80% slower retraction to reduce property damage and improve operator safety
- Adjustable guide arm for wall, floor, and ceiling mounting positions



Model	Hose ID in (mm)	Inlet / outlet NPT in (mm)	Length ft (m)	psi (bar)	Weight lb (kg)
SUPREME-DUTY					
LOW-PRESSURE —	AIR / WATER				
7SL3050-SR	3/8" (9)	3/8" (9)	50' (15)	300 (21)	61 (28)
7SL3075-SR	3/8" (9)	3/8" (9)	75' (23)	300 (21)	82 (37)
7SL4050-SR	1/2" (13)	1/2" (13)	50' (15)	300 (21)	63 (29)
7SL4075-SR	1/2" (13)	1/2" (13)	75' (23)	300 (21)	82 (37)
MEDIUM-PRESSURI	E — OIL / FLUID				
7SM4050-SR	1/2" (13)	1/2" (13)	50' (15)	2,500 (172)	77 (35)
HIGH-PRESSURE —	GREASE				
7SH1100-SR	1/4" (6)	1/4" (6)	100' (30)	5,000 (345)	104 (47)

Note: All models supplied with hose.

### **Auxiliary Reels**

#### **Power cord reels**

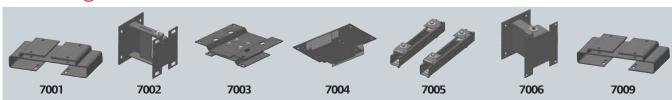
- 50′ (15.2 m) x 16-gauge AWG cord for electrical applications up to 13 amps (115 volts)
- Features an optional fluorescent angle light with tool tap plug
- Available with a single industrial-type 3-prong receptacle (115 volts)
- Safety-Reel models feature 80% slower retraction to reduce property damage and improve operator safety
- Adjustable guide arm for wall, floor, and ceiling mounting positions



Model	AWG Rating	Max Rating amps	Voltage Rating volts	Length ft (m)	Weight lb (kg)	Notes
<b>AUXILIARY REELS</b>						
ELECTRIC CORD						
7E16050A-SR	16 GA	13	115	50' (15)	36 (16)	Comes with plug
7E16050D-SR	16 GA	13	115	50' (15)	37 (17)	Comes with light

Note: All models supplied with hose.

### Mounting Accessories for Hose Reels



Accessory	Model	Compatible With	Features
Overhead mounting bracket	IR-7001	Ultra-duty and electric cord reel	Overhead mounting bracket for I or H beam, 5" x 6" (127 mm x 152.4 mm) flange
Overhead mounting bracket	IR-7009	Supreme-duty	Overhead mounting bracket for I or H beam, 8" x 9" (203.2 mm x 228.6 mm) flange
Wall-mount swing bracket	IR-7002	Ultra-duty and electric cord reel	180° swing bracket for vertical mounting
Floor-mount swivel bracket	IR-7003	Ultra-duty, supreme-duty, electric cord reel	345° swivel bracket for horizontal mounting
Ceiling-mount bracket, required with IR-7005	IR-7004	Ultra-duty, electric cord reel	Easy installation bracket, reel slides in and out for easy overhead mounting; must be ordered with IR-7005 for I or H beam installation
I or H beam adapter, requires IR-7004	IR-7005	Ultra-duty, electric cord reel	Easy installation bracket, I or H beam adapter; must be ordered with IR-7004.
Wall-mount swing bracket	IR-7006	Supreme-duty	180° vertical mounting bracket; powder-coated crinkle black
Reelcraft adapter plate	IR-7007		Custom adapter bracket for Reelcraft models 4000, 5000, 5806, and 7000 Series; $3'' \times 5''$ (76.2 mm x 127 mm) and $4'' \times 5''$ (101.6 mm x 127 mm) base patterns
Graco adapter plate	IR-7008		Custom adapter bracket for Graco 500 Series 3" x 5" (76.2 mm x 127 mm) and 4" x 5" (101.6 mm x 127 mm) base patterns

## **Control Handles**

#### Non-metered Fluid Control Handles

Model	Description	Max working pressure psi (bar)	Fluid inlet NPT (F) in (mm)	Fluid outlet
MOTOR OIL	, GEAR OIL, TRANSMISSION FLUID			
HIGH-VOLU	IME			
635193	Has flexible rubber hose with non-drip nozzle; use with 1:1 and 3:1 pumps; Non-drip tip	600 (41)	3/4" (19.1)	629212
635395-2	Has flexible rubber hose with non-drip nozzle; use with 5:1 and 9:1 pumps; non-drip tip	900 (63)	3/4" (19.1)	629212
STANDARD	-VOLUME			
635392	Has flexible rubber hose, built-in swivel and filter, and non-drip nozzle; non-drip tip	1,000 (69)	1/2" (12.7)	60164
635399	Has flexible rubber hose, built-in swivel, and right-angle non-drip nozzle; non-drip tip	1,000 (69)	1/2" (12.7)	70790
WATER, AN	TIFREEZE			
635129	Radiator bibb	300 (21)	1/4" (6.3)	Non-drip tip



### Digital, Metered Fluid Control Handles

Our metered control handle features a patented oval gear wheel design for precise and reliable measurement. Its digital LCD readout operates on two standard alkaline batteries.

4 (15)

635391-1

- Lightweight
- · Precise
- Fast reset Totalizes

1/2" (12.7)

Non-drip tip

Model	Max flow rate gpm (L)	Meter / totalizing increments	Max working pressure psi (bar)	Fluid inlet NPT (F) in (mm)	Fluid outlet
METERED, RI	GID NOZZLE M	ODELS			
635390-11	4 (15)	Pints / gallons	1,000 (69)	1/2" (12.7)	Non-drip tip
635390-22	4 (15)	Quarts / gallons	1,000 (69)	1/2" (12.7)	Non-drip tip
635390-33	4 (15)	Liters / liters	1,000 (69)	1/2" (12.7)	Non-drip tip
NON-METERI	ED, RIGID NOZZ	LE MODELS (HAND	LE AND NOZZLE O	NLY)	
635391-11	4 (15)	-	1,000 (69)	1/2" (12.7)	Non-drip tip
METERED, FL	EXIBLE NOZZL	E MODELS			
635390-1	4 (15)	Pints / gallons	1,000 (69)	1/2" (12.7)	Non-drip tip
635390-2	4 (15)	Quarts / gallons	1,000 (69)	1/2" (12.7)	Non-drip tip
635390-3	4 (15)	Liters / liters	1,000 (69)	1/2" (12.7)	Non-drip tip
NON-METERI	ED, FLEXIBLE N	OZZLE MODELS (HA	NDLE AND NOZZL	E ONLY)	

1,000 (69)



### Digital, Metered Fluid Control Handles (continued)

Model	Max flow rate gpm (L)	Meter / totalizing increments	Max working pressure psi (bar)	Fluid inlet NPT (F) in (mm)
METER ONLY				
635190-1	4 (15)	Pints / gallons	1,000 (69)	1/2" (12.7)
635190-2	4 (15)	Quarts / gallons	1,000 (69)	1/2" (12.7)
635190-3	4 (15)	Liters / liters	1,000 (69)	1/2" (12.7)
METER, CONT	TROL HANDLES (	WITHOUT NOZZLES)		
635390-10	4 (15)	Pints / gallons	1,000 (69)	1/2" (12.7)
635390-20	4 (15)	Quarts / gallons	1,000 (69)	1/2" (12.7)
635390-30	4 (15)	Liters / liters	1,000 (69)	1/2" (12.7)



**635190-X**Order protective boot 74066 separately.

### Metered Fluid Control Handles

Model	Units Of measure	Totalizing increments	Working pressure psi (bar)	Inlet size in (mm)	Fluid outlet
PRESET, DIG	SITAL METER	ED FLOW CONT	rol		
	9		et quantity of fluid is up to 9,999 units.	delivered and r	neter
635360-2	Quarts	Gallons	1,000 (69)	1/2" (12.7)	Non-drip flex extension
635360-22	Quarts	Gallons	1,000 (69)	1/2" (12.7)	Non-drip rigid extension
635360-3	Liters	Liters	1,000 (69)	1/2" (12.7)	Non-drip flex extension
635360-33	Liters	Liters	1,000 (69)	1/2" (12.7)	Non-drip rigid extension

	Preset unit automatically shuts off when set quantity of fluid is delivered and meter indicator returns to zero. Totalizer registers up to 9,999 units.				
635364	1 to 60 quarts	Gallons	1,000 (69)	1/2" (12.7)	9/16" (14.3 mm) diameter non-drip tip
635365	1 to 60 gallons	Gallons	1,000 (69)	1/2" (12.7)	9/16" (14.3 mm) diameter non-drip tip
635367	1 to 60 liters with auto shut-off	Liters	1,000 (69)	1/2" (12.7)	9/16" (14.3 mm) diameter non-drip tip



### Non-drip Nozzle / Hose

Model	Description	Fluid inlet NPT in (mm)	Length in (mm)	Max working pressure psi (bar)
MOTOR OIL	, GEAR OIL, TRANSMISSION FLUID			
629212	Non-drip nozzle / hose	3/4" (19.1)	12" (305)	900 (62)
629226	Non-drip nozzle / hose	1/2" (12.7)	11" (279)	900 (62)
629516	Non-drip nozzle / hose	1/2" (12.7)	13" (330)	1,000 (69)
629521	Right-angle nozzle / hose	1/2" (12.7)	15" (381)	1,000 (69)
6786	Right-angle, rigid, non-drip nozzle	1/4" (6.3)	6-1/2" (165)	1,000 (69)
60798	Rigid, non-drip nozzle	1/2" (12.7)	5-1/2" (133)	1,000 (69)
NOZZLE, FL	EXIBLE HOSE, WITH NON-DRIP TIP			
629245-1	Flexhose, non-drip tip	1/2" (12.7)	15" (381)	1,000 (69)
NOZZLE, RI	GID TUBE WITH NON-DRIP TIP			
629245-2	Rigid tube, non-drip tip	1/2" (12.7)	13" (330)	1,000 (69)



## **Control Handle Accessories**

### High-pressure Grease Control Handles

nigh-pressure Grease Control Handles					
Model	Description	Max working pressure psi (bar)	Fluid inlet NPT (F) in (mm)	Fluid outlet in (mm)	
GREASE	CONTROL HANDLES				
636101	Dispenses lubrication at line pressure for lubricating grease fittings; does not include nozzle or hydraulic coupler; for applications requiring high-flow capacity; remove the 1/8" (3.2 mm) (M) x 3/8" (9.5 mm) (M) adapter for 3/8" (9.5 mm) (F) porting	7,50 (517)	3/8" (9.5) (F)	11/16" - 16 (17.5) (M) or 1/8" (3.2) NPT (F)	
636111	Dispenses lubricant at line pressure for lubricating grease fittings; includes inlet material filter and curved nozzle with hydraulic coupler; remove the 1/8" (3.2 mm) (M) x 3/8" (9.5 mm) (M) adapter for 3/8" (9.5 mm) (F) porting	7,500 (517)	1/8" (3.2) (M) or 3/8" (9.5) (F)	Hydraulic coupler	
636103	High-pressure booster handle delivers line pressure for normal lubrication; trigger booster feature delivers 10,000 psi (689 bar) to loose tougher fittings; include curved nozzle with hydraulic coupler, inlet material filter and manual pressure vent for easy disconnection; do not use with whip hose	İ	1/8" (3.2) (M) or 3/8" (9.5) (F)	Hydraulic coupler	
WHIP HO	SES FOR GREASE CONTROL HANDLES*				
629742	Extra-long, wire braid (624201-02) whip hose with hydraulic coupler and swivel; overall length of 29-1/2" (749 mm for use with coupler 636111 high-pressure control handle; allows operator to access hard-to-reach fittings		1/8" (3.2) (F)	636046 hydraulic	







### Specialty Application Control Handle

Model	Description
WATER, ANT	TIFREEZE, WINDSHIELD FLUID
635129	Fluid dispensing nozzle $-$ 635129 bibb with trigger $1/4$ " (6.3 mm) NPT(F) inlet, zinc die casting with brass, and nitrile seals for water or oil service; radiator-type bibb has $1/4$ " (6.3 mm) fluid inlet and non-drip tip



<sup>\*</sup>WARNING: Not for use with 636103 high-pressure booster handle.

## **Hand-operated Pumps**

### Grease NLGI 0 – 3 lb

Model	Description
LUBRICATIO	ON PUMPS, 35-LB, DRUM COVER TYPE
611016	Ball joint lubricator — Can deliver up to 1/4 oz (7.3 mL) of lubricant per stroke; includes 72006 drum cover, 622511-10 hose assembly, 640095-3-B follower plate, and 72806 booster control handle; control handle capable of generating up to 7,500 psi (517.1 bar)



### Motor Oil, Gear Oil, Transmission Fluid

Model	Description		
5-GAL			
611170	Capable of high-volume delivery; includes 621597-5 hose / dispensing, 2:1, 4:1, 7:1 nozzle assembly with 5' (1.5 m), 1/2" (12.7 mm) ID hose and 72006 drum cover		



## Hand-held Grease Guns

Model	Performance rating	Max input pressure psi (bar)	Max output pressure psi (bar)	Grease coupler	Included
HAND-HELD GREASE GUNS					
550	Heavy-duty	Hand lever	10,000 (689.5)	4-jaw coupler	6" (152.4 mm) extension and 18" (457.2 mm) whip hose
570	Heavy-duty	Hand lever	7,500 (517.1)	4-jaw coupler	3.5" (88.9 mm) extension and 18" (457.2 mm) whip hose
590	Heavy-duty	150 (10.3)	6,000 (413.6)	4-jaw coupler	6" (152.4 mm) extension
5190	Ultra-duty	150 (10.3)	6,000 (413.6)	4-jaw coupler	6" (152.4 mm) extension

#### 550 Heavy-duty Grease Gun

This heavy-duty grease gun has a comfort grip handle and can develop up to 10,000 psi. (689.5 bar) Features include an easy-to-load locking plunger, an ergonomic T-handle, and afiller nipple and air vent. The 550 comes standard with a 6" (152.4 mm) angle extension and an 18" (457.2 mm) whip hose, both with a four-jaw coupler.



This heavy-duty grease gun has a 40:1 pressure ratio, an easy-to-load locking plunger, an ergonomic T-handle, and a filler nipple and air vent. The 590 comes standard with a 6" (152.4 mm) angle extension with a four-jaw coupler.

#### 570 Heavy-duty Grease Gun

This heavy-duty grease gun has a comfort grip handle and can develop up to 7,500 psi. (517.1 bar) Features include an easy-to-load locking plunger, an ergonomic T-handle, and a filler nipple and air vent. The 570 comes standard with a 3.5" (88.9 mm) straight extension and an 18" (457.2 mm) whip hose, both with a four-jaw coupler.

#### 5190 Ultra-duty Grease Gun

A new, ergonomic design, the 5190 grease gun has a handle that can be swiveled  $180^{\circ}$  from the cartridge. The larger handle improves comfort while still packing a 40.1 pressure ratio.



## **Fittings and Accessories**

### Grease Gun Accessories

#### **Button head coupler**

#### 636020

Standard button coupler. Can be converted to either push-on or pull-on.

#### 636024

Standard button coupler. Can be converted to either push-on or pull-on.



636024

Model	Inlet thread connection in (mm)	Length in (mm)	Max working pressure psi (bar)
636020	7/ 16"-27 (11.1) (F)	_	8,000 (552)
636024	1/8" (3.2) NPT (F)	_	8,000 (552)
636027	1/8" (3.2) NPT (F)	1-5/8" (41)	6,000 (414)
636028	1/8" (3.2) NPT (F)	1-5/8" (41)	10,000 (689)
636046	1/8" (3.2) NPT (F)	1-7/16" (37)	6,000 (414)

#### **Standard Hydraulic Couplers**

#### 636027

Small-diameter hydraulic coupler.

#### 636028

Reversible jaw hydraulic coupler.



636028



Small-diameter hydraulic coupler with ball check.



636046

#### **Swivels**

Model	Description	Size NPT in (mm)
636077	Z Swivel	1/8" (3.2) (M) x 1/8" (3.2) (F)
636086- B	Z Swivel	1/4" (6.3) (M) x 1/4" (6.3) (F)
636087- B	Z Swivel	1/4" (6.3) (M) x 1/4" (6.3) (F) with filter element
635106	Z Swivel	1/2" (12.7) (F) x 3/8" (9.5) (M)
636075	Straight Swivel	1/8" (3.2) (M) x 1/8" (3.2) (F)
636085	Straight Swivel	3/8" (9.5) (M) x 3/8" (9.5) (F)
635117	Straight Swivel	1/2" (12.7) (M) x 1/2" (12.7) (F)
635108	Straight Swivel	3/4" (19.1) (M) x 3/4" (19.1) (F)
635107	Straight Swivel	3/8" (9.5) (M) x 1/2" (12.7) (F)
676	Male Adapter	1/8" (3.2) (M) x 1/8" (3.2) (M)





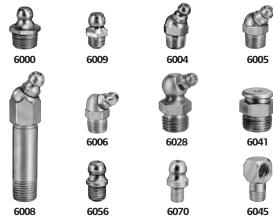




### **Grease Fitting Accessories**

Model	Description	Thread size NPT in (mm)	Height in (mm)
STRAIGH	IT		
6000	Straight	1/8" (3.2) (M)	21/32" (16.7)
6001	Straight	1/8" (3.2) (M)	1-1/4" (31.7)
6026	Straight	1/4" (6.3) (M)	7/8" (22.2)
6009	Short straight	1/4" - 28 (6.3)	17/32" (13.5)
6010	Long straight	1/4" - 28 (6.3)	11/16" (17.5)
ELBOW			
6004	30° elbow	1/8" (3.2) (M)	29/32" (23.0)
6005	45° elbow	1/8" (3.2) (M)	7/8" (22.2)
6011	45° elbow (short)	1/4" - 28 (6.3)	13/16" (20.6)
6006	65° elbow	1/8" (3.2) (M)	7/8" (22.2)
6028	67-1/2° elbow	1/4" (6.3) (M)	1-5/32" (29.4)
6013	90° elbow (short)	1/4" - 28 (6.3)	3/4" (19.1)
DRIVE TYPE FITTINGS			
6060	Straight	5/16" (7.9) serrated	5/8" (15.9)
6056	Straight	1/4" (6.3) serrated	37/64" (14.7)
6069	Straight	3/16" (4.8) serrated	19/32" (15.1)
6070	Straight (less spring and ball)	3/16" (4.8) serrated	37/64" (14.7)
ELBOW E	BODIES		
6045 90° elbow		1/8" (3.2) (M) x 1/8" (3.2) (F)	1" (25.4)
BUTTON	-HEAD FITTINGS		
2087*	Standard	1/8" (3.2) (M)	13/16" (20.6)
6041	Giant	1/2" (12.7) (M)	1-3/32" (27.8)

*POA status	pricing	required.
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Model	Description
GREASE FIT	TTING EASY-OUT TOOLS
636053	Four-function tool  • Easy-out for removing broken fittings  • 1/8" (3.2 mm) NPT tap  • 3/8" (9.5 mm) socket for removing hydraulic fittings  • 7/16" (11.1 mm) socket for removing hydraulic fittings
636054	Four-function tool  • Easy-out for removing broken fittings  • 1/4"-28 (6.3 mm) tap  • 5/16" (7.9 mm) socket for removing hydraulic fittings  • 3/8" (9.5 mm) socket for removing hydraulic fittings





### **Grease Fitting Assortment**

Model	Quantity	Model	Description
100-piece selection of the most coin a five-compartment plastic con			
640049	20	6000	1/8" (3.2 mm) NPT (M) straight
	50	6009	1/4"-28 (6.3 mm) (M) short straight
	10	6004	1/8" (3.2 mm) NPT (M) 30° elbow
	10	6006	1/8" (3.2 mm) NPT (M) 65° elbow
	10	6013	1/4"-28 (6.3 mm) (M) 90° elbow

# **General Installation Accessories**

## **Overrun Controls**

Model	Air inlet NPT(F) in (mm)	Air outlet NPT(F) in (mm)	Pressure range psi (bar)	For use with		
ARO-STOP® VALVES						
ARO-STOP valves shut off air to pump when material container is empty or fluid line is broken.  Both have quick-set and reset features.						
635040	1/4" (6.3)	1/4" (6.3)	20 - 175 (1.4 - 12.1)	Thunder Series and (1.4 - 12) 200 Series and 1/2" (12.7 mm) diaphragm pump		
(max flow rate of 23 scfm @ 90 psi) (includes connecting hose)						
23644-400	1/2" (12.7)	1/2" (12.7) NPT (M)	20 – 175 (1 4 – 12 1)	425 Series and 600 Series only (1.4 - 12) and 1" (25.4 mm) diaphragm pump		



## **Protect your investment**

Pump run away happens when a material container is depleted and the pump cycles fast and needlessly. It's not good. So, protect your pump investment with an ARO-STOP® valve.



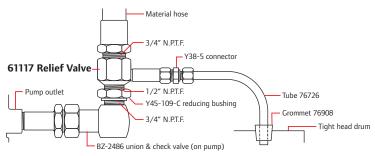




Model	Description	For use with
LOW-LE\	/EL CUTOFF	
640153	Low-level cutoff prevents the entry of air into the fluid line by closing the pump intake when material supply is exhausted. Threads to bottom of siphon tube for impersion in fluid. Also serves as a check valve	200 Series and 425 Series pumps with 1-1/2" (38.1 mm) NPT (F) threads (not for pumps that exceed 6 GPM [22.7 l/m]), Thunder Series 3" (76.2 mm) air motor pumps

## Pressure Relief Valve / Valve Kit

Model	Description
PRESSUF	RE RELIEF VALVE / VALVE KITS
61117	Pressure relief valve is used on material outlet side of pump to automatically allow bleed-back of material to container in applications where thermal expansion is present.
61118	Pressure relief valve kit includes 61117 relief valve, reducing bushing, compression coupling, 3' (0.9 m) of plastic drain tubing, and grommet (for drum attachment)



## General Accessories

#### 640058-2

Dolly for 16-gal (60.6 L) keg.

#### 94421

Drum cover for 16-gal (60.6 L) keg.

#### 640165

Follower plate for 3" (76.2 mm) Thunder Series and 120-lb (54.4 kg) container. For use with Thunder Series grease.

### 640015-1

Follower plate for 3" (76.2 mm) Thunder Series and 400-lb (181.4 kg) container. For use with Thunder Series grease.



640015-1

## 640095-1-B

Follower plate for 2" (50.8 mm) Thunder Series and 35-lb (15.9 kg) container. For use with Thunder Series grease.

## 640095-2-B

Follower plate for 3"(76.2 mm) Thunder Series and 35-lb (15.9 kg) container. For use with Thunder Series grease.



67145-1

Bung adapter for 2" (50.8 mm) Thunder Series grease pump. For use with Thunder Series grease.

## 67145-2

Bung adapter for 3" (76.2 mm) Thunder Series grease pump. For use with Thunder Series grease.



67145-3-B

Bung adapter for 2" (50.8 mm) Thunder Series oil pump. For use with Thunder Series oil.



67145-X-B

## 67145-4-B

Bung adapter for 3" (76.2 mm) Thunder Series oil pump. For use with Thunder Series oil.

#### 640153

Low level cutoff for  $3^{\circ}$  (76.2 mm) Thunder Series oil pump. For use with Thunder Series oil.

#### 61118

Pressure relief valve kit.

#### 95183

Oil tapper 3/4" (19.1 mm) NPT inlet.

#### 77617

Oil tapper fitting (converts oil tapper to 1/2", 12.7 mm inlet).

#### 640164

Tie-down kit for 16-gal / 120-lb ( $60.6\ L$  /  $54.4\ kg$ ) containers.

#### 71027-1

Tie-down kit for 55-gal / 400-lb (208.1 L / 181.4 kg) containers.

## Dispensing Accessories

## 621516-10

10' (3.0 m) hose and dispensing bibb for use with diaphragm pump.



## 635129

Dispensing bibb for use with diaphragm pump.

## 621523-10

10' (3.0 m) hose with no-drip nozzle. For use with diaphragm pump.



## 95189

Poly cam coupler 1/2" (12.7 mm) NPT (M)

## 95190

Aluminum cam coupler 1/2" (12.7 mm) NPT (M)

## Installation Accessories

#### 65986-1

Siphon tube with 6' (1.8 m) hose for 55-gal (208.1 liter) drum with 2" (50.8 mm) bung. For use with Thunder Series and diaphragm pumps.

#### 61601

Siphon tube with 6' (1.8 m) hose for 55-gal (208.1 liter) drum for wall-mounted pump. For use with Thunder Series pump.

### 66779

Siphon tube for 55-gal (208.1 liter) drum. For use with Thunder Series and diaphragm pumps.

## 66779-1

Siphon tube for 55-gal (208.1 liter) drum. For use with Thunder Series and diaphragm pumps.

## 66779-2

Siphon tube with  $6'\ (1.8\ m)$  hose for 275 Series container. For use with Thunder Series and diaphragm pumps.

## 622701-6

6' (1.8 m) siphon hose. For use with Thunder Series and diaphragm pumps.

## 61113

Wall-mount for stub pumps. For use with Thunder Series pump.

## 61412

Siphon tube for 1/2" (12.7 mm) diaphragm pump.

## 76763

Wall-mount for 1/2" (12.7 mm) diaphragm pumps.

## 66100

Wall-mount for 1" (25.4 mm) diaphragm pumps.



## High-pressure Hose

	ID .	OD	Fitting threads both ends	Max pressure	Length
Model	in (mm)	in (mm)	in (mm)	psi (bar)	ft (m)
	SE, NEOPRENE C	.OVER			
1-WIRE BRAI	D				
623501-2	1/2" (12.7)	29/32" (23.0)	1/2" (12.7) NPT (M)	2,000 (138)	2' (0.6)
623501-5	1/2" (12.7)	29/32" (23.0)	1/2" (12.7) NPT (M)	2,000 (138)	5' (1.5)
623501-6	1/2" (12.7)	29/32" (23.0)	1/2" (12.7) NPT (M)	2,000 (138)	6' (1.8)
623501-8	1/2" (12.7)	29/32" (23.0)	1/2" (12.7) NPT (M)	2,000 (138)	8' (2.4)
2-WIRE BRAI	D				
624201-2	1/4" (6.3)	11/16" (17.5)	1/8" (3.2) NPT (F)	5,000 (345)	2' (0.6)
624201-6	1/4" (6.3)	11/16" (17.5)	1/8" (3.2) NPT (F)	5,000 (345)	6' (1.8)
624201-10	1/4" (6.3)	11/16" (17.5)	1/8" (3.2) NPT (F)	5,000 (345)	10' (3)
624201-30	1/4" (6.3)	11/16" (17.5)	1/8" (3.2) NPT (F)	5,000 (345)	30' (9.1)
624401-4	3/8" (9.5)	27/32" (21.4)	3/8" (9.5) NPT (M)	4,000 (276)	4' (1.2)
624401-8	3/8" (9.5)	27/32" (21.4)	3/8" (9.5) NPT (M)	4,000 (276)	8' (2.4)
624601-4	3/4" (19.1	1-1/4" (31.7)	3/4" (19.1) NPT (M)	2,250 (155)	4' (1.2)
ELASTOMER TUBE, POLYESTER COVER					
1-WIRE BRAI	D				
628067-3	1" (25.4)	1-1/4" (31.7)	1" (25.4) NPT (M)	800 (55)	3' (0.9)

In selecting a hose, be sure the hose material is compatible with the fluid being pumped and that the maximum working pressure will not be exceeded in the application. Only those hose length options listed with each model are available. Substitute -XX with -5, -15, -25, etc., to indicate length selection. (Example: Substitute -XX with length selection, such as -50. If length is single digit, use that digit only. Do not add zeros.)

## \*CAUTION: These hoses cannot be used with 100:1 ratio pumps.

Never use a hose with a maximum pressure rating lower than the highest pressure the pump can generate.

## Low-pressure Hose

Model	ID in (mm)	OD in (mm)	Fitting threads both ends in (mm)	Max pressure psi (bar)	Length ft (m)		
NEOPRENE T	UBE, NEOPREN	E COVER					
2-FABRIC BR	AID						
622651-5	3/4" (19.1)	1-3/16" (30.2)	3/4" (19.1) NPT (M)	600 (41)	5' (1.5)		
622651-6	3/4" (19.1)	1-3/16" (30.2)	3/4" (19.1) NPT (M)	600 (41)	6' (1.8)		
622651-10	3/4" (19.1)	1-3/16" (30.2)	3/4" (19.1) NPT (M)	600 (41)	10' (3)		
622651-15	3/4" (19.1)	1-3/16" (30.2)	3/4" (19.1) NPT (M)	600 (41)	15' (4.6)		
BUNA-N TUB	E, NEOPRENE (	OVER					
2-FABRIC BR	2-FABRIC BRAID						
622201-3	1/4" (6.3)	5/8" (15.9)	1/4" (6.3) NPT (M)	250 (17)	3' (0.9)		
622201-5	1/4" (6.3)	5/8" (15.9)	1/4" (6.3) NPT (M)	250 (17)	5' (1.5)		
622201-25	1/4" (6.3)	5/8" (15.9)	1/4" (6.3) NPT (M)	250 (17)	25' (7.6)		

# Fluid Control Valves

Model	Inlet outlet NPT in (mm)	Body material	Seat material	Max working pressure psi (bar)
BALL VALV	ES			
	trol the on-off flow of fluid m compatibility for application.		r working pressur	e
61124	3/4" (19.1) (F)	Bronze	Buna-N	200 (14)
66592	1/2" (12.7) (F)	Carbon steel	Teflon	2,000 (138)
66593	3/8" (9.5) NPS (M) x 3/8" (9.5) (M)	303 stainless steel	Teflon	4,000 (276)
PLUG VALV	ES			
Y28-1	1/4" (6.3) (F)	Brass	N/A	150 (10)
Y28-2	1/8" (3.2) (F)	Brass	N/A	150 (10)
NEEDLE VA	LVES			
636042	1/2" (12.7) (F)	Carbon steel	Leather	8,000 (552)
636043	1/2" (12.7) (M) x 1/2" (12.7) (F)	Carbon steel	Leather	8,000 (552)
92818	1/4" (6.3) (F) x 1/4" (6.3) (M)	Brass	Leather	125 (9)
GLOBE VAL	VES			
Y26-1	3/4" (19.1) (F)	Brass	Graphite	125 (9)
BALL VALV	ES			
104077-2	1/4" (6.3) (F)	Nickel-plated brass	Teflon	225 (16)
104077-3	3/8" (9.5) (F)	Nickel-plated brass	Teflon	225 (16)
104077-4	1/2" (12.7) (F)	Nickel-plated brass	Teflon	225 (16)



# Fittings

Model	Thread size NPT in (mm)	Material of construction		
	NGS — 150 PSI (10 BAR) MAX	construction		
6,750 PSI (446 BAF	R) MAX			
77617	3/8" (9.5) (M) x 1/2" (12.7) (M)	Zinc-plated steel		
5,000 PSI (345 BAF	R) MAX			
76751	1/4" (6.3) (M) x 11/16"-16 (17.5) (M)	Steel		
8,000 PSI (552 BAF	R) MAX			
2722	1/8" (3.2) (M) x 11/16-16" (17.5) (M)	Steel		
73581	1/4" (6.3) (M) x 3/8" (9.5) (M)	Steel		
76493	1/8" (3.2) (M) x 3/8" (9.5) (M)	Steel		
REDUCING BUSHINGS — 150 PSI (10 BAR) MAX				
Y45-5-C	1/4" (6.3) (F) x 1/2" (12.7) (M)	Iron		
Y45-9-C	1/2" (12.7) (F) x 3/4" (19.1) ((M)	Iron		



# $Fittings \ ({\tt continued})$

Model	Thread size NPT in (mm)	Material of construction
3,000 PSI (207 BAR		construction
Y45-102-C	1/8" (3.2) (F) x 3/8" (9.5) (M)	Steel
Y45-105-C	1/4" (6.3) (F) x 1/2" (12.7) (M)	Steel
Y45-106-C	3/8" (9.5) (F) x 1/2" (12.7) (M)	Steel
Y45-109-C	1/2" (12.7) (F) x 3/4" (19.1) (M)	Steel
10,000 PSI (690 BA		
6788	1/4" (6.3) (F) x 1/2" (12.7) (M)	Steel
STREET ELBOWS -	- 150 PSI (10 BAR) MAX	
Y43-1-C	1/8" (3.2) (M) x 1/8" (3.2) (F)	Iron
Y43-2-C	1/4" (6.3) (M) x 1/4" (6.3) (F)	Iron
Y43-4-C	1/2" (12.7) (M) x 1/2" (12.7) (F)	Iron
Y43-5-C	3/4" (19.1) (M) x 3/4" (19.1) (F)	Iron
Y43-6-C	1" (25.4) (M) x 1" (25.4) (F) plated	Iron
STRAIGHT COUPLI	NGS — 150 PSI (10 BAR) MAX	
Y43-44	1/2" (12.7) (F) x 1/2" (12.7) (F)	Iron
Y43-48-C	1-1/2" (38.1) (F) x 1-1/2" (38.1) (F)	Iron
REDUCING COUPLI	NGS — 8,000 PSI (552 BAR) MAX	
4280	1/8" (3.2) (F) x 3/8" (9.5) (F)	Steel
SHORT NIPPLES —	150 PSI (10 BAR) MAX	
Y27-2-C	1/4" (6.3) (M) x 1/4" (6.3) (M)	Plated iron
Y27-52-C	1/4" (6.3) (M) x 1/4" (6.3) (M)	Plated iron
Y27-54-C	1/2" (12.7) (M) x 1/2" (12.7) (M)	Plated iron
Y27-55-C	3/4" (19.1) (M) x 3/4" (19.1) (M)	Plated iron
Y27-56-C	1" (25.4) (M) x 1" (25.4) (M)	Plated iron
Y27-58-C	1-1/2" (38.1) (M) x 1-1/2" (38.1) (M)	Plated iron
8,000 PSI (552 BAR	R) MAX	
676	1/8" (3.2) (M) x 1/8" (3.2) (M)	Steel
1950	1/4" (6.3) (M) x 1/4" (6.3) (M)	Steel
70749	1/2" (12.7) (M) x 1/2" (12.7) (M)	Steel
LONG NIPPLES —	150 PSI (10 BAR) MAX	
LENGTH — 2" (51	MM)	
Y44-11-C	1/4" (6.3)	Plated iron
LENGTH — 2-1/2"		
Y44-12-C	1/4" (6.3)	Plated iron
ELBOWS — 150 PS		
Y43-12-C	1/4" (6.3) (F) x 1/4" (6.3) (F)	Iron
Y43-15-C	3/4" (19.1) (F) x 3/4" (19.1) (F)	Iron
3,000 PSI (207 BAR		
Y43-214-N	1/2" (12.7) (F) x 1/2" (12.7) (F)	Steel
Y43-215	3/4" (19.1) (F) x 3/4" (19.1) (F)	Steel



Y45-106-C



Y43-2-C



Y43-44



4280





Y43-214-N

## Fittings (continued)

Model	Thread size NPT in (mm)	Material of construction	Max pressure psi (bar)
SWIVEL UNI	ONS		
75364	1/4" (6.3) (M) x 1/4" (6.3) (F)	Steel	10,000 (690)
75365	3/8" (9.5) (M) x 3/8" (9.5) (F)	Steel	9,000 (621)
75366	1/2" (12.7) (M) x 1/2" (12.7) (F)	Steel	6,750 (466)
75367	3/4" (19.1) (M) x 3/4" (19.1) (F)	Steel	4,375 (302)
75368	1" (25.4) (M) x 1" (25.4) (F)	Steel	3,550 (245)
75369	1/4" (6.3) (F) x 1/4" (6.3) (F)	Steel	10,000 (690)
75370	3/8" (9.5) (F) x 3/8" (9.5) (F)	Steel	9,000 (621)
PLAIN TEE -	- FEMALE		
Y43-32-C	1/4" (6.3) x 1/4" (6.3) x 1/4" (6.3)	Iron	150 (10)
Y43-233-C	3/8" (9.5) x 3/8" (9.5) x 3/8" (9.5)	Steel	3,000 (207)
PIPE PLUGS	– MALE		
Y17-50	1/8" (3.2) countersunk (hex)	Steel	10,000 (690)
Y17-51	1/4" (6.3) countersunk (hex)	Steel	10,000 (690)
FEMALE AD	APTER		
4280	3/8" (9.5) (F) x 1/8" (3.2) NPT (F)	Steel	8,000 (552)
ADAPTER UI	NIONS		
Y167-3	1/2" (12.7) (F) x 3/8" (9.5) NPT (M)	Steel	6,000 (414)
Y167-4	3/4" (19.1) (F) x 1/2" (12.7) NPT (M)	Steel	5,000 (345)
Y167-5	1/2" (12.7) (F) x 1/4" (6.3) NPT (M)	Steel	6,000 (414)
4295	1/8" (3.2) PTF SAE short (F) x 7/16"-27 (11.1) (M)	Steel	8,000 (552)
4616	1/2" (12.7) (F) x 1-3/8"-18 (34.9) (M)	Steel	8,000 (552)
5847	3/8" (9.5) (F) x 9/16"-27 (M)	Steel	8,000 (552)



75364



Y43-233-C



Y17-10

# Fluid Couplers

Model	Description
92021	Quick connect fluid coupler (female) $-3/4$ " (19.1) NPT (F) couples with 92022 fluid connector
92022	Quick connect fluid connector (male) $-3/4$ " (19.1) NPT (F) couples with 92021 fluid coupler

WARNING: To ensure safe operation, be sure the maximum working pressure of your fluid handling system does not exceed the maximum working pressure of the fittings.

# 92021



92022

## Fluid Ball Check Unions

Model	Body material	Ball material	Seat material	Inlet NPT in (mm)	Outlet NPT in (mm)	Max working pressure psi (bar)
65845	Carbon steel	440C stainless steel	440 F stainless steel	3/4" (19.1) (M)	3/4" (19.1) (M)	8,000 (552)
66559	Carbon steel	440C stainless steel	440 F stainless steel	1" (25.4) (M)	1" (25.4) (F)	8,000 (552)



**65845**Used to prevent back flow of material.

# Filters, Regulators, and Lubricators

## Filters, Regulators, Lubricators

Your Ingersoll Rand air tools will last longer and have fewer problems and repair costs when you use the high-quality filters, regulators, and lubricators specifically made to match your tool.

### **Filters**

Ingersoll Rand compressed air filters are designed to remove airborne solid and liquid contaminants that can plug small orifices and affect performance, or cause excessive wear and premature equipment failure. Several types of filters are offered, including models with coalescing elements for removal of oil aerosols and particles down to 0.3 microns.



## Regulators

Ingersoll Rand air line regulators provide controlled, consistent air pressure as required for specific air equipment connected to the air system. They are designed to deliver the pressure you need, with precise control over outlet pressure. They also conserve compressed air and help maintain relative torque and speed control.



## Lubricators

Ingersoll Rand fog-type lubricators help ensure that air equipment receives the required lubrication to maintain optimum performance, reduce wear, and extend life. They are designed to provide the correct amount of oil, with a constant ratio to CFM. Precise oil feed adjustment allows the proper oil delivery rate. Lubricators should be installed close to the downstream application to ensure effective distribution oil to the equipment.



## Point-of-purchase display packaging

Some of our filters, regulators, and lubricators up to 1/2" (12.7 mm) NPT are packaged in clamshell-style packaging for easy, flexible display options and effective, self-selling graphics and copy.



## Combination Units with Gauge

Size NPT (F) in (mm)	Filter-Regulator- Lubricator	Packaging type
1/4" (6.3) mini	C121-820	Clamshell
1/4" (6.3)	C221-810	Clamshell
3/8" (9.5)	C231-810	Clamshell
1/2" (12.7)	C241-810	Clamshell
3/4" (19.1)	C28453-810	
1" (25.4)	C28463-810	
1-1/4" (31.7)	C28473-810	
1-1/2" (38.1)	C28483-810	
	·	·

## **Individual Units**

marviadar Omes			
Specifications	Filter	Regulator	Lubricator
1/8" NPT (F) MINI			
Catalog Number	F111-420	R111-600	L111-120
Flow Rate — scfm	345	13	190
Adjustable Pressure Range — psig	N/A	5 – 125	N/A
Bowl Size — oz (mL)	1.1 (32.5)	N/A	1.1 (32.5)
Bowl Type Co	mposite nyl	on N/A C	omposite nylon
Weight — lb (g)	1.5 (42.5)	1.4 (39.1)	1.5 (42.5)
Packaging Type	Clamshell	Clamshell	Clamshell
1/4" NPT (F) MINI			
Catalog Number	F121-420	R121-600	L121-120
Flow Rate — scfm	38	13	41
Adjustable Pressure Range — psig	N/A	5 – 125	N/A
Bowl Size — oz (mL)	1.1 (32.5)	N/A	1.1 (32.5)
Bowl Type Co	mposite nyl	on N/A C	omposite nylon
Weight — lb (g)	1.5 (42.5)	1.3 (37.9)	1.5 (42.5)
Packaging Type	Clamshell	Clamshell	Clamshell
1/4" NPT (F)			
Catalog Number	F221-410	R221-600	L221-110
Flow Rate — scfm	54	100	75
Adjustable Pressure Range — psig	N/A	5 – 125	N/A
Bowl Size — oz (mL)	6 (177.4)	N/A	6 (177.4)
Bowl Type	Metal	N/A	Metal
Weight — lb (g)	1.5 (42.5)	1.4 (39.1)	1.5 (42.5)
Packaging Type	Clamshell	Clamshell	Clamshell
3/8" NPT (F)			
Catalog Number	F231-410	R231-600	L231-110
Flow Rate — scfm	100	130	100
Adjustable Pressure Range — psig	N/A	5 – 125	N/A
Bowl Size — oz (mL)	6 (177.6)	N/A	6 (177.6)
Bowl Type	Metal	N/A	Metal
Weight — lb (g)	1.5 (42.5)	1.3 (37.9)	1.4 (40.8)
Packaging Type	Clamshell	Clamshell	Clamshell

## Individual Units (continued)

Specifications	Filter	Regulator	Lubricator
1/2" NPT (F)			
Catalog Number	F241-410	R241-600	L241-110
Flow Rate — scfm	122	150	110
Adjustable Pressure Range — psig	g N/A	5 – 125	N/A
Bowl Capacity — oz (mL)	6 (177.4)	N/A	6 (177.4)
Bowl Type	Metal	N/A	Metal
Weight — lb (g)	1.4 (40.8)	1.3 (37.9)	1.4 (40.8)
Packaging Type	Clamshell	Clamshell	Clamshell
3/4" NPT (F)			
Catalog Number F	25451-110	R27451-100	L26451-110
Flow Rate — scfm	345	125	190
Adjustable Pressure Range — psig	g N/A	5 – 125	N/A
Bowl Capacity — oz (mL)	2.9 (84.8)	N/A	6.1 (180.6)
Height — in (mm) 8	.4" (213.3)	5.9" (149.8)	9.4" (237.7)
Width — in (mm)	2.9" (73.7)	2.9" (73.7)	2.4" (60.7)
1" NPT (F) (METAL BOWLS)			
Catalog Number F	25461-110	R27461-100	L26461-110
Flow Rate — scfm	345	200	200
Adjustable Pressure Range — psig (bar	r) N/A 10	) – 125 (0.7 – 8.	6) N/A
Bowl Capacity — oz (mL)	8 (236.5)	N/A	19 (561.9)
Height — in (mm) 1	1.5" (291.1)	7.8" (198.9)	10.7" (271.0)
Width — in (mm)	3.9" (100.0)	3.9" (100.0)	3.9" (100.0)

# In-line Series Filters-Regulators

		,
Specifications	Filter	Lubricator
1/4" NPT (F)		
Catalog Number	F25451-110	L26451-110
Flow Rate — scfm	168	200
Adjustable Pressure Range —	psig N/A	N/A
Bowl Capacity — oz (mL)	2.8 (82.8)	6.1 (180.4)
Height — in (mm)	8.4" (213.4)	9.4" (238.8)
Width — in (mm)	2.9" (73.7)	2.4" (61)
Catalog Number	N/A	L01-03-000
Flow Rate — scfm	N/A	22
Bowl Capacity — oz (mL)	N/A	0.25 (7.4)
Height — in (mm)	N/A	3" (76.2)
Width — in (mm)	N/A	1-1/8" (28.6) hex

# Combination Over/Under Filters-Regulators

Specifications	1/8" NPT (F) mini	1/4" NPT (F) mini	1/4" NPT (F) standard	3/8" NPT (F) standard	1/2" NPT (F) standard
Catalog Number	P114-620	P124-620	P224-610	P234-610	P244-610
Flow Rate — scfm	13	13	93	135	140
Adjustable Pressure Range — psig (bar)	5 – 125 (0.3 – 8.6)	5 – 125 (0.3 – 8.6)	5 - 125 (0.3 - 8.6)	5 – 125 (0.3 – 8.6)	5 – 125 (0.3 – 8.6)
Bowl Size — oz	_	_	6 (177.4)	6 (177.4)	6 (177.4)
Bowl Type	Composite	Composite	Metal	Metal	Metal
Weight — lb (g)	2.1 (952.5)	2 (920.7)	2.1 (952.5)	2 (920.7)	2 (920.7)
Packaging Type	Clamshell	Clamshell	Clamshell	Clamshell	Clamshell



## Air Line Filter, Regulators, and Lubricators

Model	Inlet NPT (F) in (mm)	Bowl	Filter sump capacity oz (mL)	Filter element microns	Flow scfm	Max inlet pressure psi (bar)
MODULE / A	IR 1000					
FILTER						
F25121-200	1/4" (6.3)	Polycarbonate	0.6 (18)	20	12	200 (14)
REGULATOR	(29850 GAUGE I	NOT INCLUDED. SE	EE PG. 34) PRESS	URE RANGE (	F REGULA	TOR: 5-125 PSI
R27121-100	1/4" (6.3)	N/A	N/A	N/A	13	250 (17)
LUBRICATOR						
L26121-100	1/4" (6.3)	Polycarbonate	1.1 (33)	N/A	60	200 (14)
PIGGY-BACK	FILTER-REGU	LATOR (GAUGE N	OT INCLUDED. S	EE PG. 34)		
P29122-100	1/4" (6.3)	Polycarbonate with auto drain	1.1 (33)	20	12	200 (14)
FILTER-REGU	ILATOR-LUBRI	CATOR (INCLUDE	ES GAUGE)			
C28121-800	1/4" (6.3)	Polycarbonate	1.1 (33)	20	13	200 (14)
MODULE / A	IR 2000 (ALL B	OWLS INCLUDE SI	IGHT GAUGES)			
FILTER						
F25221-110	1/4" (6.3)	Metal	6 (177)	40	54	175 (12)
F25241-110	1/2" (12.7)	Metal	6 (177)	40	122	175 (12)
F25231-110	3/8" (9.5)	Metal	6 (177)	40	100	175 (12)
REGULATOR	(INCLUDES GAU	IGE) PRESSURE RA	ANGE OF REGULA	ATOR: 5-125 (0	0.3 – 8.6 BA	AR) PSI
R27221-600	1/4" (6.3)	N/A	N/A	N/A	100	200 (14)
R27241-600	1/2" (12.7)	N/A	N/A	N/A	150	200 (14)
R27231-600	3/8" (9.5)	N/A	N/A	N/A	130	-
LUBRICATOR						
L26221-110	1/4" (6.3)	Metal	6 (177)	N/A	75	175 (12)
L26241-110	1/2" (12.7)	Metal	6 (177)	N/A	110	175 (12)
PIGGY-BACK	FILTER-REGU	LATOR (INCLUDE	S GAUGE) REGUI	LATOR RANGE	: 5-125 (0.	3 – 8.6 BAR) PS
P29221-610	1/4" (6.3)	Metal	6 (177)	40	93	200 (14)
P29241-610	1/2" (12.7)	Metal	6 (177)	40	140	200 (14)
		CATOR (INCLUDE 3 – 8.6 BAR) PSI	ES GAUGE AND M	OUNTING BR	ACKET)	
C28221-810	1/4" (6.3)	Metal	6 (177)	40	N/A	175 (12)
C28231-810	3/8" (9.5)	Metal	6 (177)	40	N/A	175 (12)
C28241-810	1/2" (12.7)	Metal	6 (177)	40	N/A	175 (12)
· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		·		



Ingersoll Rand / ARO Module / Air

- · Each unit has threaded ports and can be used with standard pipe nipples
- · Totally modular design permits removal of unit from line without disturbing hard piping, speeds up regular or unscheduled maintenance
- · Modular spacers have retained O-rings and fasteners to prevent loss during routine maintenance
- · Push-pull regulator knob allows easy, one-hand adjustment
- Safety lock-out valve provides protection from unexpected start-ups
- Modular end pipe adapters fit 1/4", 3/8", 1/2", and 3/4" pipe sizes
- · High-tech modern appearance enhances any service area; black powdercoat finish provides long-lasting protection against weather and hard use







F25121-200

R27121-100

L26121-100









F25221-110



R27221-600



L26221-110



Limited selection shown for more information on the entire line of Ingersoll Rand / ARO filters, regulators, and lubricators, please refer to form 9340-R.

# Air Line Filter, Regulators, and Lubricators

	,	8	,			
Model	Inlet NPT (F) in (mm)	Bowl	Capacity oz (mL)	Filter element microns	Flow scfm	Max inlet pressure psi (bar)
HEAVY-DUT	ГҮ					
FILTER						
25341-020	1/2" (12.7)	Polycarbonate with guard	10 (295)	40	82	200 (14)
25351-020	3/4" (19.1)	Polycarbonate with guard	10 (295)	40	87	200 (14)
25361-020	1" (25.4)	Polycarbonate with guard	10 (295)	40	88	200 (14)
REGULATO	R (100067 GAUG	E NOT INCLUDED. 9	SEE BELOW)			
PRESSURE	RANGE OF RE	GULATOR: 0 – 12!	5 PSI			
27344-000	1/2" (12.7)	N/A	N/A	N/A	256	250 (17)
27354-000	3/4" (19.1)	N/A	N/A	N/A	287	250 (17)
27364-000	1" (25.4)	N/A	N/A	N/A	293	250 (17)
LUBRICATO	R					
26341-020	1/2" (12.7)	Polycarbonate with guard	10 (295)	40	65	200 (14)
26351-020	3/4" (19.1)	Polycarbonate with guard	10 (295)	40	75	200 (14)
26361-020	1" (25.4)	Polycarbonate with guard	10 (295)	40	75	200 (14)
FILTER-REG	ULATOR-LUBF	RICATOR (INCLUDE	S GAUGE)			
PRESSURE	RANGE OF RE	GULATOR: 5 – 12!	5 PSI			
28343	1/2" (12.7)	Polycarbonate with guard	10 (295)	40	65	200 (14)
28353	3/4" (19.1)	Polycarbonate with guard	10 (295)	40	75	200 (14)
28363	1" (25.4)	Polycarbonate with guard	10 (295)	40	75	200 (14)



# Air Regulator Gauges

Model	Description	Lens material	Pressure range psi (bar)	Thread NPT in (mm)	For use with
GAUGES					
29850	Regulator gauge	Polycarbonate	0 - 160 (0 - 11)	1/8" (3.2)	Module Air 1000
100067	Regulator gauge	Polycarbonate	0 - 160 (0 - 11)	1/4" (6.3)	Module Air 2000 and Heavy-duty



29850

**28353**Regulator shown with optional 100067 gauge.

## Mounting Hardware

	0		
Model	Description	For use with	
BRACKET A	ND PANEL NUTS		
29077	Wall-mounting bracket	Heavy-duty	
29623	Wall-mounting bracket	Module Air 2000	
104173	Panel nut	Module Air 2000	
29668	Wall-mounting bracket	Module Air 1000	
104094	Panel nut	Module Air 1000	

Limited selection shown — for more information on the entire line of Ingersoll Rand / ARO filters, regulators, and lubricators, please refer to form 9340-R.

# Waste Oil and Fresh Oil Caddy Systems

## Self-evacuating Waste Oil Caddy

The fast and affordable way to transfer used oil to any bulk storage tank using compressed air. Ingersoll Rand self-evacuating waste oil caddies eliminate the need for waste oil pumps. Pressurized draining reduces downtime and increases productivity.

## **Features and benefits**

- Compatible with most existing shop air systems, unlike many other caddies that require restricted psi
- Offers increased mobility with casters on all corners, two locking
- Increases productivity levels less time waiting for draining and more time in the bay
- Comes standard with regulator, gauge, and either a 6' (1.8 m) hose with nozzle or a 3/4" (19.1 mm) cam coupler
- Minimizes spills with an automatic ball check valve in the downtube



## Waste Oil Caddies

Model	Max inlet pressure psi (bar)	Tank capacity gal (L)	Height range in (mm)	Fluid outlet	Air inlet in (mm)	Funnel size in (mm)
WASTE OI	L CADDIES					
62131	150 (10)	21 (80)	49" - 70" (1244.6 - 1778)	6' (1.8 m) hose with nozzle	1/4" (6)	16" (406)
67384	150 (10)	21 (80)	49" - 70" (1244.6 - 1778)	3/4" (19.1 mm) cam coupler	1/4" (6)	20" (508)

#### 62131

This self-evacuating oil drain can be connected to shop air up to a recommended 70 psi (4.8 bar), unlike most drains that are restricted to 10-20 psi (0.7 -1.4 bar). At 60 psi (4.1 bar), the oil drain can be evacuated in under two minutes. The 62131 comes with casters on all corners (two locking), regulator, gauge, 5' (1.5 m) output hose, and utilizes an automatic check ball in the down tube.



#### 67384

The 67384, similar to 62131, allows shop air to be connected to the drain for fast and reliable operation. The model includes an automatic check ball, padded handle, and 3/4" (19.1 mm) high flow cam coupler outlet. The 67384 contains a larger funnel.



## Accessories

Model	Туре	Description	For Use With
621603-6	Connection kit	Includes 6' (1.8 m) waste oil hose with female 3/4" (19.1 mm) coupler and air supply line	67384
96268	Transmission funnel	22" x 35" (558.8 – 889 mm) funnel fits standard 61231 and 61235 funnels	62131
96548	Transmission funnel	24" x 35" (609.6 – 889 mm) transmission funnel fits standard 67384 units	67384
96269	Tool tray	Polypropylene tool tray holds tools, filters, funnels, etc. connects to down tube and handle	62131, 61235, 67384

## Fresh Oil Caddy

## Built tough to fit the way you work

The 24-gal (90.8 liter) Ingersoll Rand fresh oil caddy system provides a cost-effective solution for dispensing synthetic oil. These caddies are easy to use and require minimal maintenance. The fresh oil caddy system eliminates the need to add costly bulk storage tanks for oils and fluids. Specialized fluids, such as 5W-20 synthetic motor oils, can now be stored in the fresh oil caddy system and wheeled to the vehicle to be dispensed.

## **Features and benefits**

- Increases productivity by increasing mobility
- Uses a 3:1 piston pump with air filter-regulator and gauge
- Dispenses fluids through a 6' (1.8 m) long 1/2" (12.7 mm) diameter hose
- Includes a digital dispensing meter (totalizing)
- Improves mobility around the shop with 6" (152.4 mm) front casters

#### 612999-24

Our fresh oil caddy provides a cost-effective portable option to expensive oil systems. The fresh oil caddy provides a great way to reduce costs and increase productivity. The system is ideal for specialized fluids such as 5W-20 synthetic motor oils.



Model	Capacity gal (L)	Air inlet in (mm)	Fluid outlet in (mm)	Max. working flow rate gpm (L/min)	Free flow rate gal (L/min)	Operating air pressure psi (bar)
FRESH OIL CA	DDY					
612999-24	24 (91)	1/2" (13)	1/2" (13)	6 (23)	9 (34)	40 - 100 (3 - 7)

## Oil Drains and Accessories

Model OIL DRAINS	Description	Height range in (mm)	Capacity gal (L)	Includes
615003- B	16-gal (60.6 L) oil drain kit	39" - 67" (990.7 mm - 1701.8 mm)	16 (60.5)	Funnel, screen, drum cover, dipstick
615019-1	16-gal (60.6 L) oil drain	41" - 69" (1041.4 mm - 1752.6 mm)	16 (60.5)	Dolly, funnel, screen, drum, drum cover, dipstick, drain
615028	Low-profile oil drain	10" (254 mm)	20 (75.7)	Dolly, funnel, screen, drum, drum cover, dipstick, drain

## 615019-1

A professional oil drain that adjusts between 41" and 69" (1041.4 mm and 1752.6 mm) high, and includes a smooth-rolling dolly for easy and safe movement. A convenient dipstick is provided to measure contents level. This model includes the drum with a drain valve.



#### 615014

16-gal (60.6 L) drum with shut-off valve.

## 61580

Transmission funnel.



## 640058-2

Dolly for 16-gal (60.6 L) keg.



# **Bulk Fluid Management**

Coupler/Connector, Dust Plug and Cover. Also includes 28353 Heavy-Duty Air Filter/Regulator/Lubricator C28241-810.

## Bulk Grease Pump Packages

Model BULK GREAS	Description E PUMP PACKAGE, 4-1/4" DIAMETER AIR MOTOR	Ratio	Max per minute @ 90 psi Ib	Air inlet NPT in (mm)	Fluid inlet NPT in (mm)	Fluid outlet NPT in (mm)
NP423F01-1	Medium Pressure 23:1 Bulk Grease Package — Includes 650492-P43-B Pump with 91790 Muffler, 65138 Floor Mount, 7' (2.1 m) of 1" (25.4 mm) Material Hose with a High-Presure Ball Valve, 2' (0.6 m) of 3" (76.2 mm) Diameter Suction Hose with Fluid Coupler/Connector, Dust Plug and Cover. Also includes C28241-810 Air Filter/Regulator/Lubricator.	23:1	15	1/2" (12.7) (F)	Flange Mount	1" (25.4) (F)
BULK GREAS	E PUMP PACKAGE, 6" DIAMETER AIR MOTOR					
NP646F01-1	<b>High Flow, High Pressure, 46:1 Bulk Grease Package</b> — Includes 650692-P43-B Pump with same components listed in the NP4230F01-1 package above.	46:1	15	1/2" (12.7) (F)	Flange Mount	1" (25.4) (F)
BULK GREAS	E PUMP PACKAGE, 8" DIAMETER AIR MOTOR					
NP813F01-1	High Flow, Low Pressure, 13:1 Bulk Grease Package — Includes 650871-E-C Pump with 92460 Muffler, 65139 Floor Mount, 7' (2.1 m) of 1" (25.4 mm) Material Hose, with a High Pressure Ball Valve, 2' (0.6 m) of 3" (76.2 mm)Diameter Suction Hose with Fluid					



## Bulk Oil Tanks

Ingersoll Rand offers both horizontal and vertically configured double-walled tanks designed to meet all your bulk storage needs. Flexible anchoring options, spill containment features, and overspill protection devices are just some of the many options that protect your workspace and the environment. And, our standard one-year warranty on systems and five-year warranty on ARO pumps provide added peace of mind.

## **Features and benefits**

- Features double-walled design for greater environmental protection
- Pumps bulk fluids quickly and efficiently using high quality ARO pumps
- Totalizes fluids with an accurate digital meter
- Dispenses fluids into containers through an optional dispensing bar and spigot
- Offers fewer moving parts leading to less pump wear and to reduced maintenance costs





Model	Length in (mm)	Width diameter in (mm)	Height in (mm)	Tank size gal (liter)	Pump	Max flow rate gpm (I/m)
BULK OIL TA	NKS					
612999-180	N/A	36" (914.4)	45" (1143)	180 (681.3)	LM2203A-11-C	6 (22.7)
612999-250	N/A	36" (914.4)	60" (1524)	250 (946.3)	LM2203A-11-C	6 (22.7)
612999-300	N/A	36" (914.4)	72" (1828.8)	300 (1135.6)	LM2305A-11-B	6 (22.7)
615-180BTD	72" (1828.8)	26" (660.4)	38" (965.2)	180 (681.3)	PD05P-AAS-PGG or 666100-362-C	13 or 35 (49.2 or 132.5)
615-250BTD	72" (1828.8)	34" (863.6)	38" (965.2)	250 (946.3)	PD05P-AAS-PGG	13 (49.2)
615-300BTD	72" (1828.8)	40" (1016)	38" (965.2)	300 (1135.6)	PD05P-AAS-PGG	13 (49.2)

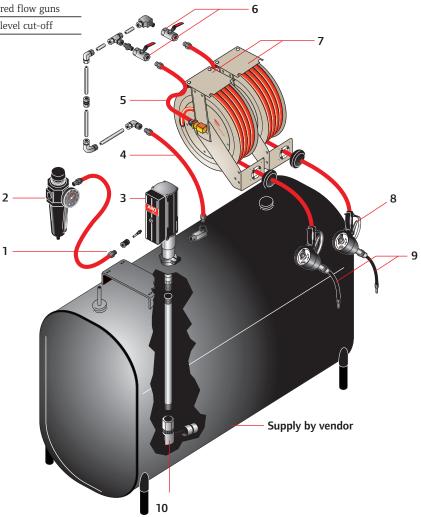
# **Typical Application Installations**

## 275-gal Bulk Oil Tank

Item	Quantity	Part Number	Description
1	1	622201-5	Hose assembly
2	1	P224-610	Air regulator
3	1	LM2203A-11-C	Pump
4	1	623501-5	Hose assembly
5	2	623501-2	Hose assembly
6	2	66592	1/4" turn valve
7	2	7UM4050-SR	Hose reel assembly
8	3	75366	Adapter fittings
9	2	635360-2	Metered flow guns
10	1	640153	Low-level cut-off
	•		

## Lube Equipment and Accessories

Model	lodel Category			
BULK OIL TANKS				
615-180BTD	Bulk tanks, 180-gal (681.3 L)			
612999-180	Bulk tanks, 180-gal (681.3 L)			
615-250BTD	Bulk tanks, 250-gal (946.3 L)			
612999-250	Bulk tanks, 250-gal (946.3 L)			
615-300BTD	Bulk tanks, 300-gal (1135 L)			
612999-300	Bulk tanks, 300-gal (1135 L)			

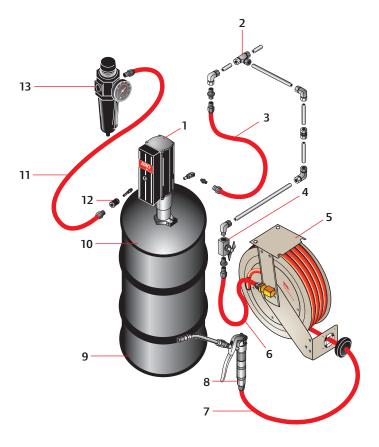


# 55-gal Grease / Reel

1		Item Quantity Part Number Description			
1					
	1	LM2350E-41-B	Pump unit		
2	1	75365	Adapter fitting		
3	1	624401-4	Hose assembly		
4	2	636042	1/4" (6.3 mm) turn val		
5	2	7UH3050-SR	Hose reel assembly		
6	2	636088	Z-swivel		
7	2	636111	Grease control handle		
8	2	624401-4	Hose assembly		
9	1	640015-1	Follower assembly		
10	1	94422	Drum assembly		
11	1	622201-3	Hose assembly		
1 <b>2</b>	1	75364	Adapter fitting		
13	1	P224-610	Air regulator		

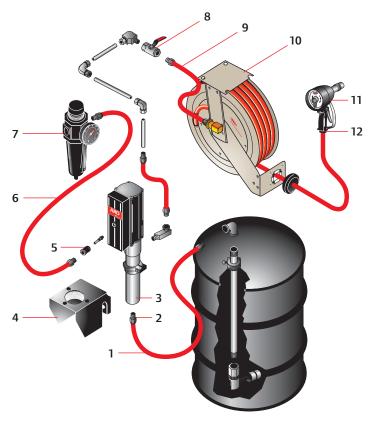
# 120-lb Drum Pump / Reel

		1 '			
Item	Quantity	Part Number	Description		
1	1	LM2250E-31-B	Pump unit		
2	1	Y43-233C	T union		
3	1	624401-4	Hose assembly		
4	1	636042	1/4" (6.3 mm) turn valve		
5	1	7UH3025-SR	Hose reel assembly		
6	1	624401-4	Hose assembly		
7	1	636088	Z-swivel		
8	1	636111	Grease control handles		
9	1	640165	Drum follower plate		
10	1	94421	Drum cover		
11	1	622201-3	Hose assembly		
12	1	75364	Adapter fitting		
13	1	P224-610	Air regulator		



# 55-gal Pump / Reel

		1 '			
Item	Quantity	Part Number	Description		
1	1	61601	55-gal (208.1 L) drum kit		
2	1	Y27-55-C	Adapter fitting		
3	1	LM2203A-11-C	Pump		
4	1	61113	Pump mounting bracket		
5	1	75364	Adapter fitting		
6	1	622201-3	Air hose		
7	1	P224-60	Air regulator		
8	1	66592	1/4" (6.3 mm) turn valve		
9	1	623501-2	Hose assembly		
10	1	7UM4050-SR	Hose reel assembly		
11	1	635360-2	Metered flow control		
12	1	75366	Adapter fitting		



# Warranty

## **Air Systems Components and Lubrication Equipment**

## Air Systems Components Warranty

Ingersoll Rand Fluid Products warrants to the original-use purchaser of the Ingersoll Rand / ARO air systems components depicted in this catalog that Ingersoll Rand will repair or replace, free of charges, including return shipping costs within the continental United States of America, any such product that under normal use and service proves defective in material or workmanship, as determined by Ingersoll Rand inspection, five years from date of purchase, provided the claimed defective product, or part thereof, is promptly returned to the Ingersoll Rand Service Repair Center or a factory-authorized service repair center, with transportation charges prepaid.

If Ingersoll Rand inspection discloses no defect in material or workmanship, repair or replacement and return will be made at customary charges.

The foregoing warranty supersedes, voids, and is in lieu of all or any other warranties, expressed or implied, and no warranty of merchantability or fitness for particular purpose is intended or made. The sole obligation of Ingersoll Rand and the sole remedy of the original-use purchaser is as stated above and in no event shall Ingersoll Rand be liable for any special, direct, indirect, incidental, consequential; or other damages or expenses of any nature including, without limitation, loss of profits or production time incurred by the original-use purchaser or any other party.

## Lubrication Equipment Warranty

Ingersoll Rand warrants to the original-use purchaser of the products depicted in this catalog that Ingersoll Rand will repair or replace, free of charges, including return shipping costs within the continental United States of America, any such product that under normal use and service proves defective in material and workmanship, as determined by Ingersoll Rand inspection, within (A) one year from date of purchase of said products, other than the following, (B) five years from date of purchase of LM and LP Series pumps, (C) five years from date of purchase of a diaphragm pump, and (D) five years from date of purchase of Ingersoll Rand / ARO-manufactured swivels, non-metered control handles, 4-1/4", 6", 8" pumps, drains, follower plates, tie-downs, siphon tubes, and drum covers, provided the claimed defective product, or part thereof, is promptly returned to the Ingersoll Rand factory or Customer Service Center with transportation charges prepaid.

This warranty does not cover failure of parts or components due to normal wear or damage, or wear that in the judgement of Ingersoll Rand / ARO arises from misuse, abrasion, corrosion, negligence, accident, substitution of non-Ingersoll Rand / ARO parts, faulty installation, or tampering.

If Ingersoll Rand inspection discloses no defect in material or workmanship, repair or replacement and return will be made at customary charges.

Equipment not covered by Ingersoll Rand warranty: accessories or components of equipment sold by Ingersoll Rand that are not manufactured by Ingersoll Rand (such as switches, hoses, meters, etc.) are subject to the warranty, if any, of their manufacturer. Ingersoll Rand will provide the purchaser with reasonable assistance in making such claims.

The foregoing warranty supersedes, voids, and is in lieu of all or any other warranties, expressed or implied, and no warranty of merchantability or fitness for particular purpose is intended or made. The sole obligation of Ingersoll Rand and the sole remedy of the original-use purchaser is as stated above and in no event shall Ingersoll Rand be liable for any special, direct, indirect, incidental, consequential, or other damages or expenses of any nature including, without limitation, loss of profits or production time incurred by the original-use purchaser or any other party.

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