









AMERICAN LUBRICATION EQUIPMENT CORPORATION

PRODUCT CATALOG V0120

CATALOG AT-A-GLANCE



DEF EQUIPMENT 2

10 OIL PUMPS & PACKAGES





PORTABLE OIL EQUIPMENT 16

20 GREASE PUMPS & PACKAGES





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38 DRUM PUMPS





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ELECTRIC PUMP PACKAGES

PUMP TECHNICAL SPECIFICATIONS

	120 Volts	12 Volts
Working Flow Rate	9 GPM	9 GPM
Max Fluid Pressure	50 PSI	50 PSI
Watts	400	260
RPM	1400	2800
Voltage	110V/60Hz	12V
Timer	6.5 Minutes	N/A

All Kits Includes:

- DEF Pump
- 4′ Suction Hose
- 20′ Delivery Hose
- Hose Tails & Clamps
- Mounting Bracket



DEF3-TM49N
(tote and dispense coupler not included)

120 VOLT TOTE SYSTEMS

	DEF3-TM49N*	DEF3-TM50N	DEF3-TN49N	DEF3-TN50N	DEF3-TM57N
Nozzle	DEF-49	DEF-50	DEF-49	DEF-50	DEF-57-SS
Meter	DEF-22	DEF-22	––	––	DEF-22
Mounting Bracket	DEF3-BKT	DEF3-BKT	DEF3-BKT	DEF3-BKT	DEF3-BKT
Dispense Coupler	––	––	––	––	––

	DEF3-TM49C	DEF3-TM49E	DEF3-TM49S	DEF3-TN50C	DEF3-TM50S	DEF3-TN49S	DEF3-TN58S
Nozzle	DEF-49	DEF-49	DEF-49	DEF-50	DEF-50	DEF-49	DEF-58
Meter	DEF-22	DEF-22	DEF-22	––	DEF-22	––	––
Mounting Bracket	DEF3-BKT	DEF3-BKT	DEF3-BKT	DEF3-BKT	DEF3-BKT	DEF3-BKT	DEF3-BKT
Dispense Coupler	DEF-34PL	DEF-39	DEF-34A	DEF-34PL	DEF-34A	DEF-34A	DEF-34A

120 VOLT PORTABLE SYSTEMS (55-GALLON DRUM)

	DEF3-TM49N4	DEF3-TM50N4	DEF3-TN50N4
Nozzle	DEF-49	DEF-50	DEF-50
Meter	DEF-22	DEF-22	––
Mounting Bracket	DEF3-BKT	DEF3-BKT	DEF3-BKT
Heavy-Duty Cart	TIM-401	TIM-401	TIM-401

120 VOLT STATIONARY SYSTEMS (55-GALLON DRUM)

	DEF3-DN49N	DEF3-DN50N
Nozzle	DEF-49	DEF-50
Meter	––	––
Mounting Bracket	DEF2-BKT	DEF2-BKT

* *Most Popular*

ELECTRIC PUMP PACKAGES

12 VOLT TOTE SYSTEMS

	DEF6-TM49N	DEF6-TN49N	DEF6-TN50N
Nozzle	DEF-49	DEF-49	DEF-50
Meter	DEF-22	––	––
Mounting Bracket	DEF3-BKT	DEF3-BKT	DEF3-BKT
Dispense Coupler	––	––	––

	DEF6-TM49C	DEF6-TM49E	DEF6-TM49S	DEF6-TN50C
Nozzle	DEF-49	DEF-49	DEF-49	DEF-50
Meter	DEF-22	DEF-22	DEF-22	––
Mounting Bracket	DEF3-BKT	DEF3-BKT	DEF3-BKT	DEF3-BKT
Dispense Coupler	DEF-34PL	DEF-39	DEF-34A	DEF-34PL

12 VOLT PORTABLE SYSTEMS (55-GALLON DRUM)

	DEF6-TM49N4
Nozzle	DEF-49
Meter	DEF-22
Mounting Bracket	DEF3-BKT
Heavy-Duty Cart	TIM-401

12 VOLT STATIONARY SYSTEMS (55-GALLON DRUM)

	DEF6-DM49N	DEF6-DN50N
Nozzle	DEF-49	DEF-50
Meter	DEF-22	––
Mounting Bracket	DEF2-BKT	DEF2-BKT



DEF6-TM49N4
(drum and dispense coupler not included)



DEF3-TM49E
(tote and dispense coupler not included)



DEF3-DN50N
(drum and dispense coupler not included)

AIR-OPERATED PUMP PACKAGES



DEF-10
(tote and dispense coupler not included)

PUMP TECHNICAL SPECIFICATIONS

	ARO PD07P-APS-PAA
Max Flow Rate	14.8 GPM
Working Flow Rate	6-7 GPM
Air Operating Range	30-50 PSI
Max Fluid Pressure	50 PSI
Air Inlet/Outlet (F)	1/4" NPT
Pump Inlet	3/4" NPT

All Kits Includes:

- ARO PD07P-APS-PAA 3/4" Diaphragm Pump
- ARO P-39224-624 Filter/Regulator
- 4' Suction Hose
- 20' Delivery Hose
- Hose Tails & Clamps
- Mounting Bracket

	Tote Mount		Portable	
	DEF-10*	**DEF-11**	**DEF-12**	**DEF-13**
Nozzle	––	DEF-49	––	DEF-49
Nozzle w/ Meter	DEF-58	––	DEF-58	––
Mounting Bracket	TIM-463	TIM-463	TIM-463	TIM-463
Heavy-Duty Cart	–––	––	TIM-401	TIM-401

* *Most Popular*

ECONOMICAL DEF PUMP

DURABLE
Ideal to be used on applications with extended run times and frequent stopping and starting

VERSATILE
Adjustable bung adapter allows pump to be used on 55-gallon drums and 275/330-gallon totes

CHEMICAL COMPATIBILITY
Polypropylene pump body makes this suitable for DEF, Windshield Washer Solvent and Antifreeze

FAST
10 GPM flow rate



DEF-1000	**Economical DEF Pump** Variable speed 110 volt DEF pump. Includes 16' power cord, 9.8' delivery hose with polyethylene nozzle & 2" buttress / 2" NPT bung adapter

SPECIFICATIONS

	DEF-1000
Flow Rate	10 GPM
Fluid Outlet Size	3/4" barb
Tube Length	48"
Tube Diameter	2"
Voltage	110 Volts
Used On	55-Gallon Drums & 275/330-Gallon Totes

FLUID COMPATIBILITY

Antifreeze

DEF

Windshield Washer Fluid

BARE ELECTRIC PUMPS

DEF3A-PUMP	**110-Volt Electric Pump with Timer** Includes 6' electric cord. 50.75 PSI (3.5 BAR maximum pressure, 1,400 RPM, 7-9 GPM and 3/4" barbed inlet/outlet.
DEF6-PUMP	**12-Volt Electric Pump** Includes only 6' cables. 2,800 RPM, 18 amp, 7-9 GPM and 3/4" barbed inlet/outlet.



DEF3A-PUMP

DIAPHRAGM PUMPS

	Body	Ball	Diaphragm & O-Ring	Air Inlet (F)	Inlet/Outlet	Maximum PSI	GPM Max
PD07P-APS-PAA	Polypropylene	Santoprene	Santoprene	1/4"	3/4"	100 PSI	14.8 GPM
PD10P-APS-PAA	Polypropylene	Santoprene	Santoprene	1/4"	1"	120 PSI	53 GPM



PD07P-APS-PAA



PD10P-APS-PAA

HAND-OPERATED DRUM PUMPS







	4166-DEFN	DEF-100AS	DEF-100AH
Container Size	55-Gallon Drums	55-Gallon Drums	55-Gallon Drums
Fluid Compatibility	DEF	DEF	DEF
Downtube Type	Polypropylene	Polypropylene	Polypropylene
Body Material	Polypropylene with Teflon® Seals	Polypropylene with Teflon® Seals	Polypropylene with Teflon® Seals
Pump Type	Rotary	Lever (piston)	Lever (piston)
Delivery	8 Ounces per Revolution	1 Gallon per 10 Strokes	1 Gallon per 10 Strokes
Nozzle	Manual Nozzle	Stainless Steel Spout	Manual Nozzle
Hose Length	9.8'	9.8'	9.8'

HOSE REEL

	DEF-52H33S
Hose Size	3/4"
Hose Length	33"
Hose Stop	Included
Inlet/Outlet	3/4" barb inlet / 3/4" hose outlet
Maximum PSI	210 PSI
Weight	53 lbs



DEF-52H33S

METER



DEF-22

Electronic DEF Meter

1" BSP(M) x 1" BSP(M). Measures in gallons, flow rate up to 31 gallons per minute.

CONTROL HANDLES



DEF-49

Stainless Steel Automatic Nozzle

(3/4" barb inlet)



DEF-50

Polyethylene Manual Nozzle

(3/4" barb inlet)



DEF-57

Polyethylene Automatic Nozzle

with magnetic mis-filling prevention adapter (3/4" barb inlet)



DEF-58

Polyethylene Automatic Nozzle

with built-in digital meter (3/4" barb inlet)

CONTROL HANDLE ACCESSORIES



DEF-57A

Magnetic Mis-filling Adapter



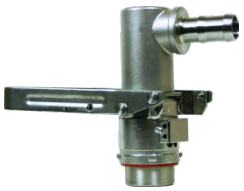
DEF-49-SWIVEL

3/4"(M) Swivel

(for DEF-49 only)

REUSABLE COUPLERS & DOWNTUBES

DEF-34A	**Stainless Steel Dispense Coupler** with 3/4" barbed outlet
DEF-34PL	**Composite Dispense Coupler** with 3/4" barbed outlet
DEF-40A	**Stainless Steel Container Valve**
DEF-40PL	**Composite Container Valve**
DEF-41	**Container Valve Install/Remove Tool**
DEF-54	**Vapor Recovery Fill Head Coupler** Inlet threads, 1" -11-1/2 NPT (M), Vapor recovery outlet threads, 1/4"-18 NPT (F)
DEF-TUBE55	**Downtube for Reusable Container Valves** Downtube is universal and must be cut down to length and is suitable for both drums and totes. Cut the end of the tube on an angle to prevent the downtube from sealing itself (via suction) to the drum/tote; Do not straight cut.
DEF-73	**Install/Removal Tool**



DEF-34A



DEF-34PL



DEF-54



DEF-40A

ONE-TIME USE COUPLERS & DOWNTUBES

DEF-39	**Dispense Coupler** 3/4" barbed outlet
DEF-42	**Container Valve**
DEF-43	**Downtube for 55-Gallon Drum**
DEF-44	**Downtube for 275-Gallon IBC**
DEF-45	**Downtube for 330-Gallon IBC**



DEF-40PL



DEF-39

MOUNTING BRACKETS

DEF2-BKT	**Drum Mounting Bracket for Electric DEF Pumps**
DEF3-BKT	**Tote-Mounting Bracket for Electric DEF Pumps**
TIM-463	**IBC Tote Bracket for 1/2" & 3/4" ARO Diaphragm Pumps & Electric DEF Pumps**



DEF-42



TIM-463

ADAPTERS

DEF-25	**Plastic Fitting** 1"(M) BSP x 3/4"(F) BSP
DEF-55	**Plastic Hose Tail Fitting** 3/4" barb x 1"(F) BSP
DEF-74	**Plastic Hose Tail Fitting** 3/4" barb x 1"(M) BSP
DEF-75	**Plastic Fitting** 90° socket 3/4" barb x 1"(F) BSP
DEF-75BT	**Plastic Fitting** 3/4" NPT x 3/4" barb
DEF-76	**Plastic Fitting** 90° socket 1"(F) BSP x 1"(F) BSP
DEF-78	**Plastic Fitting** 1"(M) BSP with ring nut and nipple x 3/4" barb
DEF-79	**Plastic Fitting** 1"(M) BSP x 1"(F) BSP
DEF-80	**Plastic Fitting** 1"(F) BSP x 1"(F) BSP
DEF-81	**Plastic Fitting** 3/4"(M) BSP x 1"(F) BSP (for auto nozzle)
4190	**Nylon Buttress Thread Adapter** 2" NPT (F) x 2" buttress (M). Converts 2" buttress thread to 2" NPT



DEF-55



DEF-25



DEF-80



4190

ACCESSORIES

DEF-25A	**Adapter Kit for DEF-22 Meter with Manual Nozzle**
DEF-31	**3/4" ID Delivery Hose (Per Foot)**
DEF-32	**3/4" ID Suction Hose (Per Foot)**
DEF-51A	**Stainless Steel Hose Clamps for 3/4" Hose (2 Each)**
DEF-53A	**Adapter Kit for DEF-22 Meter with Automatic Nozzle**
DEF-69	**6" Center Mount Cap with 2" Buttress Threads**
DEF-70	**Shipping Cap**
DEF-71	**Dust Cover**
DEF-72	**Tamper Wire**



DEF-51A



DEF-69

ARO THUNDER OIL PUMPS

RELIABLE DESIGN

Thunder pumps feature a patented, ice-free air motor contained in a rugged housing that is designed to withstand the harshest working environments. ARO is so confident in this design that it is backed by a 5-year warranty

LUBE-FREE AIR MOTOR

The air valves and the piston are pre-lubricated. Thunder pumps do not require an air line lubricator

NO MECHANICAL ASSIST

Thunder's patented valve design uses no trip rods, push pins, or springs. Instead of one mechanical pilot valve in the air motor, Thunder has two independent 3-way spool valves which work together to change the direction of the pump piston

IN-LINE SERVICE

Thunder pumps can be serviced in the tank or drum using just a standard wrench

FEWER PARTS

Thunder pumps are constructed with 50% fewer parts than the majority of comparable pumps. Fewer parts means less problems

COST-EFFECTIVE DESIGN

Most competitive pumps are too costly to repair after their warranty expires. Thunder's revolutionary design, inexpensive rebuild kits, and field serviceability all add up to a pump that has the lowest cost of ownership in the lubrication equipment market



LM2203A-11-C



LM2305A-11-B

3:1 SPECIFICATIONS

Ratio	3:1
Double-Acting	Yes
Air Motor Diameter	2"
Stroke	3"
Air Inlet	1/4"(F)
Fluid Outlet	1/2"(F)
Fluid Inlet (Stub)	3/4"(F)
Free Flow Rating	9 Gals/Min
Working Flow Rating	6 Gals/Min
Cycles per Gallon	37
Noise Level @ 100 PSI	80 db
Air Inlet Pressure	0 to 150 PSI
Rebuild Kit Part Number	**637224**

5:1 SPECIFICATIONS

Ratio	5:1
Double-Acting	Yes
Air Motor Diameter	3"
Stroke	3"
Air Inlet	1/4"(F)
Fluid Outlet	1/2"(F)
Fluid Inlet (Stub)	1-1/2"(F)
Free Flow Rating	9 Gals/Min
Working Flow Rating	6 Gals/Min
Cycles per Gallon	28
Noise Level @ 100 PSI	85 db
Air Inlet Pressure	0 to 150 PSI
Rebuild Kit Part Number	**637226**

FLUID COMPATIBILITY

Automatic Transmission Fluid | Gear Oil | Hydraulic Oil | Motor Oil | Synthetic Oil

ARO Thunder Oil Pumps

ARO 5 YEAR WARRANTY

Stub Pump Models

3:1 Pumps

	LM2203A-11-C*	LM-2203A-C*	LM-2203A-H*	LM-2203A-HWM*
Air Coupler	––	210	210	210
Air Connector	––	2608	2608	2608
Air Hose	––	––	AIR-HP1414-3	AIR-HP1414-3
Material Hose	––	––	TIM-4418-4S	TIM-4418-4S
Wall Bracket	––	––	––	TIM-460-A
Suction Hose	––	––	––	TIM-4416-8
Filter/Regulator	––	––	––	P-39224-624

5:1 Pumps

	LM2305A-11-B**	LM-2305A-C**	LM-2305A-H**	LM-2305A-HWM**
Air Coupler	––	210	210	23902-210
Air Connector	––	2608	2608	MSCF22-000
Air Hose	––	––	AIR-HP1414-3	AIR-HP1414-3
Material Hose	––	––	TIM-4418-4S	TIM-4418-4S
Wall Bracket	––	––	––	TIM-460-A
Suction Hose	––	––	––	TIM-4416-8
Filter/Regulator	––	––	––	P-39224-624

Stub Pump Installation Packages

LM-2203A-COMP*	**Complete 3:1 Stub Pump Installation Kit** Includes LM-2203A-H stub pump, P-39224-624 air filter/regulator and gauge, TIM-212-1 nipple, TIM-196-C check valve and TIM-2000-4 pressure relief kit
LM-2305A-COMP**	**Complete 5:1 Stub Pump Installation Kit** Includes LM-2305A-H stub pump, P-39224-624 air filter/regulator and gauge, TIM-212-1 nipple, TIM-166-LLC low-level cutoff and TIM-2000-4 pressure relief kit



LM-2305A-COMP

Tank & Drum Pump Models

3:1 Pumps



LM-2203A-41C

LM-2203A-31C*
3:1 Pump for 16-Gallon Drum
(built-in check valve)

LM-2203A-41C*
3:1 Pump for 55-Gallon Drum
(built-in check valve)

LM-2203A-51C*
3:1 Pump for 275-Gallon Obround Horizontal Tank
(built-in check valve)

LM-2203AV-61C*
3:1 Pump for 275-Gallon Obround Vertical Tank
(built-in check valve)

5:1 Pumps



LM-2305A-41B

LM-2305A-31B**
5:1 Pump for 16-Gallon Drum
(includes low-level cutoff)

LM-2305A-41B**
5:1 Pump for 55-Gallon Drum
(includes low-level cutoff)

LM-2305A-51B**
5:1 Pump for 275-Gallon Obround Horizontal Tank
(includes low-level cutoff)

LM-2305AV-61B**
5:1 Pump for 275-Gallon Obround Vertical Tank
(includes low-level cutoff)

* *Includes bung adapter 67145-3-B. For weather tight applications, order bung adapter 67088-3 separately.*
** *Includes bung adapter 67145-4-B. For weather tight applications, order bung adapter 67088-4 separately.*

ARO 1:1 TRANSFER PUMPS

ARO®

RELIABLE DESIGN

ARO 1:1 pumps feature a proven design. They are constructed with fewer parts. Fewer parts means less problems

DOUBLE-ACTING

All ARO 1:1 piston pumps are double-acting, ensuring high flow rates

LONG STROKE PISTON

Pumps feature a 6" long stroke design to ensure smooth delivery

DIVORCED DESIGN

These pumps incorporate a divorced design. The air motor is isolated from the lower pumping assembly. This assures that the materials being pumped do not contaminate the air motor



612041-3

SPECIFICATIONS

Ratio	1:1
Double-Acting	Yes
Air Motor Diameter	2"
Stroke	6"
Air Inlet	1/4"(F)
Fluid Outlet	3/4"(F)
Pump Style	Divorced Design
Free Flow Rating	18 Gals/Min
Working Flow Rating	9 Gals/Min
Air Inlet Pressure	0 to 150 PSI

REBUILD KIT

Air Motor	637084
Fluid Section	637083



612041-3

High-Volume Air-Operated Drum Transfer Pump

1:1 pump constructed of carbon steel and aluminum with Teflon® packings. Fits 16-gallon and 55-gallon drums with a 2"(F) opening. Includes air inlet needle valve and 2"(M) bung adapter.

FLUID COMPATIBILITY

Automatic Transmission Fluid | Gear Oil | Hydraulic Oil | Motor Oil | Solvents* | Synthetic Oil

** This pump is compatible with many solvents. Please call American Lubrication for specific solvent compatibility recommendations.*

THUNDER 3:1 TAPPER PUMPS

ARO 5 YEAR WARRANTY THUNDER SERIES PUMPS

VERSATILE

If your customer's needs change, just remove the tapper and the pump can be used for pumping to remote overhead reel applications

COMPLETE PACKAGES

All tapper pump packages include 3:1 pump, bung adapter, air filter/regulator, air coupler, air connector and tapper valve assembly

TAPPER

All tapper packages include a rugged, heavy-duty tapper assembly with a splash-reduction adapter. Part number TIM-724-1B (tapper only)



TIM-728-2

STUB PUMP MODEL

TIM-728-2*	**Stub Pump Tapper Package** Includes Thunder 3:1 pump, bung adapter, 1/4" nipple, P-39224-624 air filter/regulator/gauge, air coupler, air connector and oil dispensing tapper

55-GALLON MODEL

TIM-726-2*	**55-Gallon Tapper Package** Includes Thunder 3:1 pump, bung adapter, downtube, 1/4" nipple, P-39224-624 air filter/regulator/gauge, air coupler, air connector and oil dispensing tapper

275-GALLON MODEL

TIM-727-2*	**275-Gallon Tapper Package** Includes Thunder 3:1 pump, bung adapter, downtube, 1/4" nipple, P-39224-624 air filter/regulator/gauge, air coupler, air connector and oil dispensing tapper

TAPPER KIT

TIM-724-1B	**Tapper Kit** 1/2"(M) end



TIM-726-2



TIM-724-1B

** Includes bung adapter 67145-3-B. For weather tight applications, order bung adapter 67088-3 separately.*

ARO AFX OIL PUMPS

ARO® AFX™ ARO-FORCE PISTON PUMPS — 5 YEAR WARRANTY

NEW & IMPROVED DESIGN

AFX pumps feature a new innovative and simplistic design with universal parts without sacrificing the reliability of the legacy models

HEAVY-DUTY CONSTRUCTION

The AFX Series oil pumps are designed for long distance, heavy viscosity oils, industrial installations and cold weather applications

LUBE-FREE AIR MOTOR

AFX Series air motors are self lubricated and do not require an air line lubricator

MUFFLER

AFX Series pumps include a muffler which can also be ported to a remote location for quieter operation

9:1 & 10:1 RATIO

ARO AFX 4-1/4" oil pumps are ideal in systems requiring long piping runs

STRESS-FREE PERFORMANCE

4" stroke and easy 19.2 cycles per gallon dispensing rate lead to a long service free pump life



AF0409A13PFL1

SPECIFICATIONS

Ratio	9:1
Ratio (AF0409C81BBW2)	10:1
Double-Acting	Yes
Air Motor Diameter	4-1/4"
Stroke	4"
Air Inlet	1/2"
Fluid Outlet	3/4"
Fluid Outlet (613100-1)	3/8"
Fluid Inlet (Stub)	2"(F) or 1-1/2"(M)
Fluid Inlet (613100-1)	Barbed
Free Flow Rating	18.1 Gals/Min
Working Flow Rating	3.9 Gals/Min
Air Inlet Pressure	0 to 150 PSI

9:1 FLUID COMPATIBILITY

- Automatic Transmission Fluid
- Gear Oil
- Hydraulic Oil
- Motor Oil
- Synthetic Oil

9:1 REBUILD KIT

Packing Kit	637486
Air Motor Service Kit	637489

10:1 FLUID COMPATIBILITY

- Antifreeze

10:1 REBUILD KIT

Packing Kit	K1875C81BBW2
Air Motor Service Kit	637489

ARO AFX 9:1 OIL PUMPS

OIL PUMP MODELS

ARO® AFX™ ARO-FORCE PISTON PUMPS YEAR 5 WARRANTY



AF0409A13PFL1

AF0409A13PFL1*

9:1 Stub Pump
Order TIM-161 coupler separately to mount pump in tank

AF0409A53PFL1*

9:1 Pump for 55-Gallon Drum
(built-in check valve)

OIL PUMP PACKAGES



DM0409A53PFL1000*

55-Gallon Drum Pump Package
Includes AF0409A53PFL1 pump with TIM-4258-5 air hose (5'), TIM-4418-8S material hose (8') and 60869 bung adapter

ANTIFREEZE PUMP MODEL



AF0409C81BBW2*

10:1 Stainless Steel Stub Pump for Antifreeze & Antifreeze Mixtures
Pump has 3/8" hose barbed inlet for easy connection to suction hose. When using in 55-gallon drum applications, order part number 61139-1 suction tube assembly separately.

* *Order bung adapter 60869 separately*

55-GALLON AIR-OPERATED OIL DISPENSING CARTS ARO®

OPTIONS

55-gallon dispensing carts are available with air-operated oil pumps and diaphragm pumps

MOBILITY

Heavy-duty three-wheel cart allows drums to be moved with ease on any shop's surface (TIM-401)

COST EFFECTIVE

Dispensing carts are a lower cost alternative to installing overhead reels



TIM-730
(container not included)

	TIM-729	TIM-729-P	TIM-730	NEW TIM-730-P	TIM-732	TIM-733	NEW TIM-733-50
Pump	3:1	3:1	3:1	3:1	1/2" Diaphragm Pump	3:1	3:1
Pump Mounting	Drum Mount	Drum Mount	Cart Mount	Cart Mount	Cart Mount	Drum Mount	Drum Mount
Air Coupler	Included	Included	Included	Included	Included	Included	Included
Filter/Regulator	P-39224-624	P-39224-624	P-39224-624	P-39224-624	P-39224-624	P-39224-624	P-39224-624
Delivery Hose	20'	20'	8'	8'	8'	25' Reel	50' Reel
Control Handle	TIM-601-FM	TIM-900B-1	TIM-601-FM	TIM-900B-1	Non-Metered	TIM-601-FM	TIM-601-FM
Fluid Compatibility	Oil	Oil	Oil	Oil	Oils & Antifreeze	Oil	Oil



TIM-729
(container not included)



TIM-729-P
(container not included)



TIM-730
(container not included)



TIM-732
(container not included)



TIM-733
(container not included)

16-GALLON AIR-OPERATED OIL DISPENSERS

ARO®

OPTIONS

16-gallon air-operated oil dispensers are available with 3:1 or 5:1 pumps, with platform dollies or heavy-duty 3-wheel carts

MOBILITY

The dolly or cart option allows kegs to be moved with ease on any shop's surface

COST EFFECTIVE

Dispensing carts are a lower cost alternative to installing overhead reels



LP2100-1-ALC
(container not included)

	LP2100-1-B*	LP2100-1-ALC*	LP3100-1-B*	LP3100-1-ALC*
Pump	3:1	3:1	5:1	5:1
Drum Cover	Included	Included	Included	Included
Meter	Digital Pint	Digital Pint	Digital Pint	Digital Pint
Control Handle	TIM-762-A	TIM-762-A	TIM-762-A	TIM-762-A
Material Hose	6'	6'	6'	6'
Platform Dolly	TIM-352	––	TIM-352	––
Cart	––	TIM-408	––	TIM-408



LP2100-1-ALC
(container not included)



LP3100-1-B
(container not included)

* *Order 210 coupler, 2608 connector and P-39224-624 filter/regulator/gauge separately*

SELF-CONTAINED OIL DISPENSERS

AIR-CHARGED OIL DISPENSER



TIM-390-A1

Heavy-Duty "Pumpless" Metered Oil Dispenser

24-gallon capacity. Ideal for use as a synthetic oil dispenser. The unit must be filled with oil and then charged to 100 PSI. The air hose can then be disconnected and the unit will dispense oil remotely. Dispenses approximately 8 gallons on the first charge and the remaining 12 gallons on the second charge. Flow rate approximately 2 gallons per minute. Safety pop-off valve prevents over-pressurization. Includes wide-mouth filling funnel (not shown), 2608 air connector, air filter, built-in fluid gauge, 6' discharge hose and a quart digital metered control valve TIM-601-FM.

Order 210 air coupler separately

PORTABLE ELECTRIC OIL TRANSFER PUMP WITH FILTER



TIM-307

Electric Oil Filter & Oil Transfer Cart

This filter cart is perfect for transferring oil and for decontaminating oil in bulk storage tanks. The oil is extracted using a 6' suction hose with an integrated inlet screen. The extracted oil is filtered through a 10 micron replaceable cartridge filter and then pumped back through a 6' discharge hose that has a 3' extension tube on the end. Unit has a pressure gauge installed on the filter head which indicates when the filter needs to be replaced. Pump requires 115 VAC and is rated at 8 gallons per minute. Replacement filter number TIM-307-FIL.

Replacement filter TIM-307-FIL can be sold separately for TIM-307

Gear Oil Dispensers





	TIM-60	TIM-61
Container Size	5-Gallon	16-Gallon
Fluid Compatibility	Gear Oil	Gear Oil
Meter	No	No
Accessories	Carrying Handle & Drum Cover	Drum Cover
Hose Length	4'	4'
Nozzle	Goose Neck	Goose Neck

16-Gallon Heavy-Duty Oil Dispensers

	TIM-62-1A	TIM-62-2	TIM-62-2C	TIM-62-LD2	TIM-63-2
Fluid Compatibility	Gear/Motor/ Synthetic Oils & ATF	Gear/Motor/ Synthetic Oils & ATF	Gear/Motor/ Synthetic Oils & ATF	Gear/Motor/ Synthetic Oils & ATF	Gear Oil
Meter*	No	No	No	No	Digital In-Line Quarts
Accessories	Bare Pump & Bung Adapter Only	Drum Cover & Platform Dolly	Drum Cover & 3-Wheel Cart	Drum Cover	Drum Cover & Platform Dolly
Hose Length	5'	5'	5'	5'	5'
Nozzle	90° Rigid with Manual Non-Drip Tip	90° Rigid with Manual Non-Drip Tip	90° Rigid with Manual Non-Drip Tip	90° Rigid with Manual Non-Drip Tip	90° Rigid with Manual Non-Drip Tip

	TIM-63-2C	TIM-63-LD2	TIM-64-2	TIM-64-2C	TIM-64-LD2
Fluid Compatibility	Gear Oil	Gear Oil	Motor/Synthetic Oils & ATF	Motor/Synthetic Oils & ATF	Motor/Synthetic Oils & ATF
Meter*	Digital In-Line Quarts	Digital In-Line Quarts	Digital In-Line Quarts	Digital In-Line Quarts	Digital In-Line Quarts
Accessories	Drum Cover & 3-Wheel Cart	Drum Cover	Drum Cover & Platform Dolly	Drum Cover & 3-Wheel Cart	Drum Cover
Hose Length	5'	5'	5'	5'	5'
Nozzle	90° Rigid with Manual Non-Drip Tip	90° Rigid with Manual Non-Drip Tip	45° Rigid with Manual Non-Drip Tip	45° Rigid with Manual Non-Drip Tip	45° Rigid with Manual Non-Drip Tip

* *Unit of measure on meter can be set for pints, quarts, liters or gallons.*



TIM-62-2C
(container not included)



TIM-63-2
(container not included)

ARO THUNDER 50:1 GREASE PUMPS

RELIABLE DESIGN

Thunder pumps feature a patented, ice-free air motor contained in a rugged housing that is designed to withstand the harshest working environments. ARO is so confident in this design that it is backed by a 5-year warranty

PROTECTED INLET TUBE

Thunder grease pumps have 5/16" inlet holes in the sides of the bottom of the pick up tube. This helps eliminate problems caused by sucking plastic grease drum liners into the pump's lower section

LUBE-FREE AIR MOTOR

The air valves and the piston are pre-lubricated. Thunder pumps do not require an air line lubricator

NO MECHANICAL ASSIST

Thunder's patented valve design uses no trip rods, push pins, or springs. Instead of one mechanical pilot valve in the air motor, Thunder has two independent 3-way spool valves which work together to change the direction of the pump piston

IN-LINE SERVICE

Thunder grease pump air motors can be serviced in the drum using just a standard wrench

FEWER PARTS

Thunder pumps are constructed with 50% fewer parts than the majority of comparable pumps. Fewer parts means less problems

COST-EFFECTIVE DESIGN

Most competitive pumps are too costly to repair after their warranty expires. Thunder's revolutionary design, inexpensive rebuild kits, and field serviceability all add up to a pump that has the lowest cost of ownership in the lubrication equipment market

GREASE COMPATIBILITY

Thunder pumps are compatible with NLGI 0, NLGI 1, NLGI 2 and NLGI 3 grease



LM2250E-31-B

LM2350E-31-B

2" SPECIFICATIONS

Ratio	50:1
Double-Acting	Yes
Air Motor Diameter	2"
Stroke	3"
Air Inlet	1/4"
Material Outlet	3/8"
Free Flow Rating	9 lbs/Min
Working Flow Rating	2 lbs/Min
Noise Level @ 100 PSI	85 db
Air Inlet Pressure	0 to 150 PSI
Rebuild Kit Part Number	**637332**

3" SPECIFICATIONS

Ratio	50:1
Double-Acting	Yes
Air Motor Diameter	3"
Stroke	3"
Air Inlet	1/4"
Material Outlet	3/8"
Free Flow Rating	7.5 lbs/Min
Working Flow Rating	4 lbs/Min
Noise Level @ 100 PSI	85 db
Air Inlet Pressure	0 to 150 PSI
Rebuild Kit Part Number	**637227-B**

BARE PUMP MODELS

LM2250E-21-B*	**2" 50:1 Grease Pump for 35-Pound Container**
LM2250E-31-B*	**2" 50:1 Grease Pump for 120-Pound Container**
LM2350E-21-B*	**3" 50:1 Grease Pump for 35-Pound Container**
LM2350E-31-B*	**3" 50:1 Grease Pump for 120-Pound Container**
LM2350E-41-B*	**3" 50:1 Grease Pump for 400-Pound Container**

* *All pumps include bung adapter 67145-2. For weather tight applications, order seal kit 67088 separately. Order 210 coupler, 2608 connector and P-39224-624 filter/regulator/gauge separately.*



LM2250E-31-B

ARO Thunder 50:1 Grease Pumps

ARO 5 Year Warranty — Thunder Series Pumps

Stationary Pump Packages

2" Diameter Air Motor

	Size	Bare Pump	Drum Cover	Follower Plate	Material Hose	Air Hose	Z-Swivel	Control Handle
LP2001-1-B*	35-lb	LM2250E-21-B	TIM-367-1	TIM-368	—	—	—	—
LP2003-1-B*	120-lb	LM2250E-31-B	TIM-451-1	TIM-366	TIM-4516-4	AIR-HP1414-3	—	—
LP2004-1-B*	120-lb	LM2250E-31-B	TIM-451-1	TIM-366	TIM-4514-10	—	TIM-111-1	TIM-794

3" Diameter Air Motor

	Size	Bare Pump	Drum Cover	Follower Plate	Material Hose	Air Hose	Z-Swivel	Control Handle
LP3002-1*	120-lb	LM2350E-31-B	TIM-451-1	TIM-366	TIM-4516-4	AIR-HP1414-3	—	—
LP3005-1*	400-lb	LM2350E-41-B	TIM-369	—	TIM-4516-4	AIR-HP1414-3	—	—
LP3008-1*	35-lb	LM2350E-21-B	TIM-367-1	TIM-368	TIM-4514-10	—	—	—
LP3009-1*	400-lb	LM2350E-41-B	TIM-369	TIM-640015-1	TIM-4516-4	AIR-HP1414-3	—	—

Portable Grease Pump Packages

2" Diameter Air Motor

	Size	Bare Pump	Drum Cover	Follower Plate	Material Hose	Z-Swivel	Control Handle	Dolly/Cart
LP2002-1-B*	35-lb	LM2250E-21-B	TIM-367-1	TIM-368	TIM-4514-10	TIM-111-1	TIM-794	—
LP2006-1-B*	120-lb	LM2250E-31-B	TIM-451-1	TIM-366	TIM-4514-10	TIM-111-1	TIM-794	TIM-358
LP2006-1-ALC*	120-lb	LM2250E-31-B	TIM-451-1	TIM-366	TIM-4514-10	TIM-111-1	TIM-794	TIM-408

3" Diameter Air Motor

	Size	Bare Pump	Drum Cover	Follower Plate	Material Hose	Z-Swivel	Control Handle	Dolly/Cart
LP3001-1*	35-lb	LM2350E-21-B	TIM-367-1	TIM-368	TIM-4514-10	TIM-111-1	TIM-794	—
LP3003-1*	120-lb	LM2350E-31-B	TIM-451-1	TIM-366	TIM-4514-10	TIM-111-1	TIM-795-1	TIM-358
LP3004-1*	120-lb	LM2350E-31-B	TIM-451-1	TIM-366	TIM-4514-10	TIM-111-1	TIM-794	TIM-358
LP3004-1-ALC*	120-lb	LM2350E-31-B	TIM-451-1	TIM-366	TIM-4514-10	TIM-111-1	TIM-794	TIM-408
LP3005-1-ALC*	400-lb	LM2350E-41-B	TIM-369	TIM-640015-1	TIM-4514-10	TIM-111-1	TIM-794	TIM-401
LP3005-1-50R	400-lb	LM2350E-41B	TIM-369	TIM-640015-1	50' Reel	TIM-113	TIM-794	TIM-401

* *All pumps include bung adaptor 67145-2. For weather tight applications, order seal kit 67088 separately. Order 210 coupler, 2608 connector and P-39224-624 filter/regulator/gauge separately.*



LP2002-1-B
(container not included)



LP2004-1-B
(container not included)



LP2006-1-B
(container not included)



LP3005-1-ALC
(container not included)



LP3005-1-50R
(container not included)

ARO AFX GREASE PUMPS

ARO® AFX™ ARO-FORCE PISTON PUMPS — 5 YEAR WARRANTY

NEW & IMPROVED DESIGN

AFX pumps feature a new innovative and simplistic design with universal parts without sacrificing the reliability of the legacy models

HEAVY-DUTY CONSTRUCTION

The AFX Series oil pumps are designed for long distance, heavy viscosity oils, industrial installations and cold weather applications

LUBE-FREE AIR MOTOR

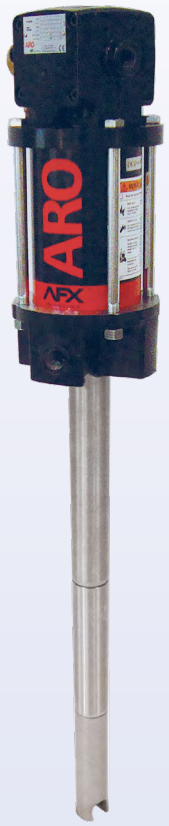
AFX Series air motors are self lubricated and do not require an air line lubricator

MUFFLER

AFX Series pumps include a muffler which can also be ported to a remote location for quieter operation

GREASE COMPATIBILITY

AFX grease pumps are compatible with NLGI 0, NLGI 1, NLGI 2 and NLGI 3 greases



AF0450L43PKL1

4-1/4" SPECIFICATIONS

Ratio	50:1
Double-Acting	Yes
Air Motor Diameter	4-1/4"
Stroke	4"
Air Inlet	1/2"(F)
Material Outlet	1/2"(F)
Max Delivery	6 lbs
Air Inlet Pressure	0 to 150 PSI

4-1/4" REBUILD KIT

Packing Kit	637485
Air Motor Only	637489

4-1/4" ACCESSORIES

Follower Plate 120-Pound	TIM-363
Follower Plate 400-Pound	TIM-364
Drum Cover 120-Pound	66492
Drum Cover 400-Pound	60898
Bung Adapter	4148

6" SPECIFICATIONS

Ratio	100:1
Double-Acting	Yes
Air Motor Diameter	6"
Stroke	4"
Air Inlet	1/2"(F)
Material Outlet	1/2"(F)
Free Flow Rating	2.1 lbs/Min
Max Delivery	2.1 lbs
Air Inlet Pressure	0 to 150 PSI

6" REBUILD KIT

Air Motor Service Kit	637489
Packing Kit	65130

6" ACCESSORIES

Integrated Ball Valve Regulator	67442
Follower Plate 120-Pound	640152-1
Follower Plate 400-Pound	640015-5
Drum Cover 120-Pound	66715
Drum Cover 400-Pound	71060-AL
Bung Adapter	4148

ARO AFX GREASE PUMPS

ARO® AFX™ ARO-FORCE PISTON PUMPS — 5 YEAR WARRANTY

BARE PUMP MODELS

4-1/4" Diameter Air Motor Type

AF0450L43PKL1‡	**4-1/4" 50:1 Grease Pump for 120-Pound Container**
AF0450L53PKL1‡	**4-1/4" 50:1 Grease Pump for 400-Pound Container**

6" Diameter Air Motor Type

AF060BL43PKL1**	**6" 100:1 Grease Pump for 120-Pound Container**
AF060BL53PKL1**	**6" 100:1 Grease Pump for 400-Pound Container**

‡ *Order 4148 bung adapter separately*
** *Order 60870 bung adapter separately*



AF0450L43PKL1

PUMP PACKAGES

4-1/4" Diameter Air Motor

	DM0450L53PKL1000	DC0450L53PKL1000
Size	400-Pound	400-Pound
Bare Pump	AF0450L53PKL1	AF0450L53PKL1
Drum Cover	––	60898
Follower Plate	––	––
Material Hose	TIM-4516-8	TIM-4516-8
Air Hose	TIM-4258-5	TIM-4258-5
Bung Adapter	4148	4148



DC0450L53PKL1000

6" Diameter Air Motor

	DC060BL53PKL1C11
Size	400-Pound
Bare Pump	AF60BL53PKL1
Drum Cover	71060-AL
Follower Plate	640015-5
Material Hose	––
Air Hose	––
Bung Adapter	60870

** *Order 60870 bung adapter separately*

WARNING

ARO 6" 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 a proper rating for the application.

GREASE FILLER PUMP



TIM-80

35-Pound Hand-Operated Grease Filler Pump

Ideal for filling hand grease guns. Includes follower plate, drum cover and loader valve which is compatible with the TIM-23 grease gun loader fitting.

Container not included.

35-POUND HAND-OPERATED GREASE PUMP



TIM-83-KM

35-Pound Hand-Operated Grease Pump

Delivers up to 5,000 PSI. Includes drum cover, tapered follower plate, 1/4" x 5' delivery hose, narrow diameter grease coupler and carrying handle.

WHEEL BEARING PACKER



TIM-66-A

Drum-Mounted Wheel Bearing Packer with Pump

Mounts directly to 25-pound to 50-pound standard grease containers. Ideal for packing several bearings in a short amount of time. For all car, boat, trailer and RV bearings having an ID of 1/2" to 5", and a height of 1/4" to 2". Rugged steel construction.

Container not included.

35-Pound Grease Packages

2" Diameter Air Motor

LP2002-1-B*	**35-Pound Grease Package** Includes LM2250E-21-B pump, TIM-367-1 drum cover with carry handle, TIM-368 follower plate, TIM-4514-10 10' material hose, TIM-111-1 Z-swivel and TIM-794 control handle

** Order 210 coupler, 2608 connector and P-39224-624 filter/regulator/gauge separately*



LP2002-1-B
(container not included)

3" Diameter Air Motor

LP3001-1*	**35-Pound Grease Package** Includes LM2350E-21-B pump, TIM-367-1 drum cover with carry handle, TIM-368 follower plate, TIM-4514-10 10' material hose, TIM-111-1 Z-swivel and TIM-795-1 control handle

** Order 210 coupler, 2608 connector and P-39224-624 filter/regulator/gauge separately*

120-Pound Grease Packages

2" Diameter Air Motor

LP2006-1-B*	**120-Pound Grease Package** Includes LM2250E-31-B pump, TIM-451-1 drum cover, TIM-366 follower plate, TIM-4514-10 10' material hose, TIM-111-1 Z-swivel, TIM-794 control handle and TIM-358 band dolly
LP2006-1-ALC*	**120-Pound Grease Package** Includes LM2250E-31-B pump, TIM-451-1 drum cover, TIM-366 follower plate, TIM-4514-10 10' material hose, TIM-111-1 Z-swivel, TIM-794 control handle and TIM-408 heavy-duty 3-wheel cart

** Order 210 coupler, 2608 connector and P-39224-624 filter/regulator/gauge separately*



LP2006-1-ALC
(container not included)

3" Diameter Air Motor

LP3004-1*	**120-Pound Grease Package** Includes LM2350E-31-B pump, TIM-451-1 drum cover, TIM-366 follower plate, TIM-4514-10 10' material hose, TIM-111-1 Z-swivel, TIM-794 control handle and TIM-358 band dolly
LP3004-1-ALC*	**120-Pound Grease Package** Includes LM2350E-31-B pump, TIM-451-1 drum cover, TIM-366 follower plate, TIM-4514-10 10' material hose, TIM-111-1 Z-swivel, TIM-794 control handle and TIM-408 heavy-duty 3-wheel cart

** Order 210 coupler, 2608 connector and P-39224-624 filter/regulator/gauge separately*



LP3004-1
(container not included)

400-Pound Grease Package

3" Diameter Air Motor

LP3005-1-50R	**Portable Grease Pump Package for 400-Pound Drum** Includes 50:1 ratio pump with 3" air motor, air coupler, air connector, air filter/regulator with gauge, drum cover, follower plate, material coupler, material connector, 3/8" x 50' grease reel package, 4' material connecting hose, Z swivel, control handle and heavy-duty three-wheel cart.



LP3005-1-50R
(container not included)

ARO 3/8" – 2" DIAPHRAGM PUMPS

ARO® 5 YEAR WARRANTY

PATENTED AIR VALVE
ARO's patented "unbalanced" air valve design eliminates stalling, a common occurrence in competitive pumps

HI-FLOW
These pumps offer high-volume delivery of material even at low air pressures

RUNS DRY
ARO diaphragm pumps can run dry without any damage to the pump

BOLTED CONSTRUCTION
Pumps feature bolted construction to avoid the proven problems created by band clamp type pump fasteners

LUBE-FREE AIR MOTOR
ARO diaphragm pumps are pre-lubricated. They do not require an air lubricator, eliminating maintenance concerns. *(The use of a lubricator is not recommended.)*

VARIABLE FLOW RATE
Adjusting the air pressure to the pump allows precise control over the pump's flow rate without damaging the pump

SIMPLE DESIGN
Provides trouble-free operation and virtually maintenance-free performance

VARIETY*
ARO diaphragm pumps are available in metallic and composite bodies, single and multiple-port designs, and many different ball, seat, and diaphragm configurations to suit your application



PD03P-ARS-PAA



666100-3C9-C



66605J-322

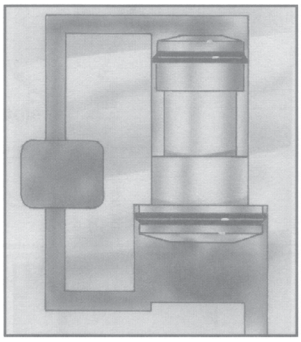


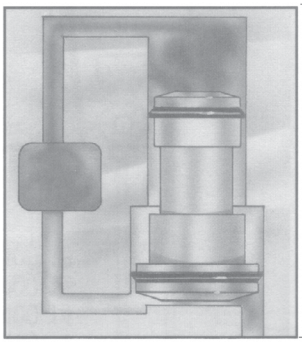
PD20A-AAP-GGG-B

FLUID COMPATIBILITY

- Antifreeze
- Automatic Transmission Fluid
- Gear Oil
- Hydraulic Oil
- Motor Oil
- Synthetic Oil
- Waste Oil
- Windshield Washer Fluid

"UNSTALLABLE" AIR VALVE





ARO's patented "unbalanced" major air valve has constant air pressure applied to its small end. This assures that the pump resets. Competitive designs lose their signal during every shift, making them vulnerable to stalling. To reverse the valve, air pressure is supplied to the larger end of the valve, allowing the valve to shift – note that constant air pressure continues to be applied to the small end.

* *ARO has a complete line of diaphragm pumps to handle most product pumping applications.*
Please call American Lubrication at 410-252-9300 for recommendations on fluids not listed above.

ARO® 5 YEAR WARRANTY

3/8" Diaphragm Pump

	Ball	Diaphragm & O-Ring	Body	Air Inlet (F)	Material Inlet & Outlet (F)	Maximum PSI	GPM Max
PD03P-ARS-PAA	Santoprene	Santoprene	Polypropylene	1/4"	3/8"	100 PSI	10.6 GPM

1/2" Diaphragm Pumps

	Ball	Diaphragm & O-Ring	Body	Air Inlet (F)	Material Inlet & Outlet (F)	Maximum PSI	GPM Max
66605J-322*‡	Nitrile	Nitrile	Polypropylene	1/4"	1/2"	100 PSI	13 GPM
66605J-344*	Teflon®	Teflon®	Polypropylene	1/4"	1/2"	100 PSI	13 GPM
PD05P-AAS-PGG*	Nitrile	Nitrile	Aluminum	1/4"	1/2"	100 PSI	13 GPM

* *Not recommended for oil use in a "closed" system (where the pump remains pressurized when not in use) without thermal relief kit model number TIM-RELIEF-KIT*

‡ *Use for antifreeze and windshield washer fluid*

1" Diaphragm Pumps

	Ball	Diaphragm & O-Ring	Body	Air Inlet (F)	Material Inlet & Outlet (F)	Maximum PSI	GPM Max
666100-344-C*	Teflon®	Teflon®	Aluminum	1/4"	1"	120 PSI	35 GPM
666100-362-C*‡	Acetal	Nitrile	Aluminum	1/4"	1"	120 PSI	35 GPM
666100-3C9-C*	Hytrel®	Hytrel®	Aluminum	1/4"	1"	120 PSI	35 GPM

* *Not recommended for oil use in a "closed" system (where the pump remains pressurized when not in use) without thermal relief kit model number TIM-RELIEF-KIT*

‡ *Use for waste oil applications*

1" 50/50 Antifreeze/Water Blending Pump

	Ball	Diaphragm & O-Ring	Body	Air Inlet (F)	Material Inlet (F)	Material Outlet (F)	Maximum PSI	GPM Max
650715-C	Acetal	Nitrile	Aluminum	1/2"	1-1/2"	1"	120 PSI	35 GPM

1-1/2" Diaphragm Pump

	Ball	Diaphragm & O-Ring	Body	Air Inlet (F)	Material Inlet & Outlet (F)	Maximum PSI	GPM Max
666150-362-C	Acetal	Nitrile	Aluminum	1/2"	1-1/2"	120 PSI	90 GPM

2" Diaphragm Pump

	Ball	Diaphragm & O-Ring	Body	Air Inlet (F)	Material Inlet & Outlet (F)	Maximum PSI	GPM Max
PD20A-AAP-GGG-B	Nitrile	Nitrile	Aluminum	3/4"	2"	120 PSI	170 GPM

ARO Diaphragm Drum Pump Package

ARO®

DRUM PUMP

5 YEAR WARRANTY

MATCHED COMPONENTS

ARO drum pump package components (adapters, siphon tubes, etc.) contain pre-specified, matching materials of construction for complete fluid compatibility

RUNS DRY

ARO diaphragm pumps can run dry without any damage to the pump

PATENTED AIR VALVE

ARO's patented "unbalanced" air valve design eliminates stalling, a common occurrence in competitive pumps

BOLTED CONSTRUCTION

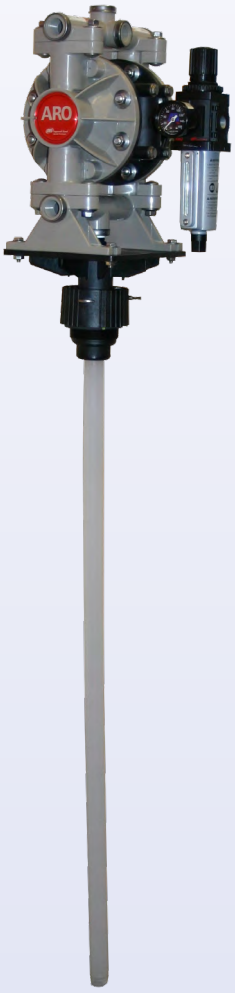
Pumps feature bolted construction to avoid the proven problems created by band clamp type pump fasteners

LUBE-FREE AIR MOTOR

All ARO 1/2" diaphragm pumps are pre-lubricated. They do not require an air lubricator, eliminating maintenance concerns. *(The use of a lubricator is not recommended.)*

SIMPLE DESIGN

Provides trouble-free operation and virtually maintenance-free performance



TIM-734
(Includes filter/regulator with gauge)

SPECIFICATIONS

Ratio	1:1
Double-Acting	Yes
Air Inlet	1/4"(F)
Material Outlet	1/2"(F)
Free Flow Rating	13 Gals/Min
Air Inlet Pressure	100 PSI Max.

	TIM-734*	TIM-734-TOTE*
Body	Polypropylene	Polypropylene
Seat	Polypropylene	Polypropylene
Ball & Diaphragm	Nitrile	Nitrile
Fluid Compatibility	Oil, Water & Antifreeze	Oil, Water & Antifreeze
Container Size	16 to 55-Gallon Drum	275 to 330-Gallon Tote

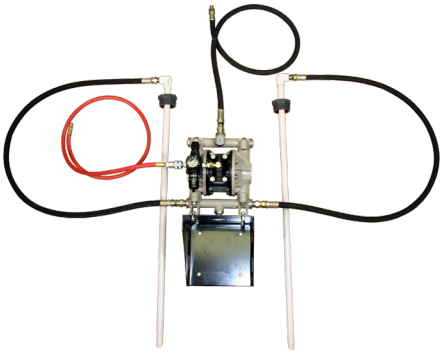
* *Package includes pump, bung adapter, siphon tube, filter/regulator with gauge, weather seal and base. Not recommended for oil use in a "closed" system (where the pump remains pressurized when not in use) without thermal relief kit model number TIM-RELIEF-KIT.*

Diaphragm Pump Packages

55-Gallon Antifreeze Pump Packages

ARO® 5 YEAR WARRANTY

612999-1*‡	**1/2" Wall Mounted Pump Package for Pre-Blended Antifreeze** Includes 66605J-322 pump, TIM-461-B wall mount bracket, TIM-1055 siphon tube assembly, two (2) TIM-4418-5 1/2" material hoses, AIR-HP1414-5 air hose, P-39224-624 air filter/regulator/gauge, 210 air coupler, 2608 air connector and TIM-212-1 1/4" air adapter
612999-2*‡	**1/2" Wall Mounted 50/50 Antifreeze/Water Blending Pump Package** Includes 666053-388 pump, TIM-461-B wall mount bracket, two (2) TIM-1055 siphon tube assemblies, three (3) TIM-4418-5 1/2" material hoses, AIR-HP1414-5 air hose, P-39224-624 air filter/regulator/gauge, 210 air coupler, 2608 air connector and TIM-212-1 1/4" air adapter
612999-3‡	**1" Wall Mounted 50/50 Antifreeze/Water Blending Pump Package** Includes 650715-C pump, TIM-461-B wall mount bracket, two (2) TIM-1058 siphon tube assemblies, two (2) 612999-4H 1" material hoses, TIM-1058 material hose, P-39224-624 air line filter/regulator/gauge, and AIR-HP1414-3 1/4" air hose

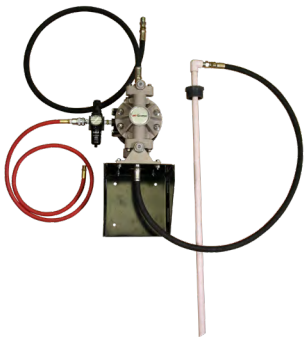


612999-2

* *Not recommended for oil use in a "closed" system (where the pump remains pressurized when not in use) without thermal relief kit model number TIM-RELIEF-KIT*

‡ *Only ARO pumps (66605J-322, 666053-388 and 650715-C) are covered by the ARO 5-Year Warranty, all other components are covered by standard American Lubrication warranty. For more warranty information, visit page 104.*

55-Gallon Windshield Washer Fluid Pump Package



612999-1*‡

1/2" Wall Mounted Pump Package for Windshield Washer Fluid

Includes 66605J-322 pump, TIM-461-B wall mount bracket, TIM-1055 siphon tube assembly, two (2) TIM-4418-5 1/2" material hoses, AIR-HP1414-5 air hose, P-39224-624 air filter/regulator/gauge, 210 air coupler, 2608 air connector and TIM-212-1 1/4" air adapter

* *Not recommended for oil use in a "closed" system (where the pump remains pressurized when not in use) without thermal relief kit model number TIM-RELIEF-KIT*

‡ *Only ARO pumps (66605J-322) are covered by the ARO 5-Year Warranty, all other components are covered by standard American Lubrication warranty. For more warranty information, visit page 104.*

55-Gallon Plastic Drum



TIM-I-55B

55-Gallon Translucent Blue Poly Drum

Ideal for 50/50 antifreeze and water applications or windshield washer solvent and water applications. TIM-I-55B is compatible with DEF Urea products.

Diaphragm Pump Waste Oil Packages

ARO® 5 YEAR WARRANTY

612999-4*	**Waste Oil Evacuation System** Includes 666100-362-C 1" diaphragm pump, TIM-461-B wall mount bracket, 612999-4H 1" pump inlet hose assembly, 628067-3 1" pump outlet hose assembly, P-39224-624 air line filter/regulator/gauge, AIR-HP1414-3 1/4" air line hose, TIM-180 fluid coupler and TIM-250-BV air valve
612999-5*	**Waste Oil Evacuation System** Includes 66605J-322 1/2" diaphragm pump, TIM-461-B wall mount bracket, 612999-5H 3/4" pump inlet hose assembly, TIM-4418-5S 1/2" pump outlet hose assembly, P-39224-624 air line filter/regulator/gauge, AIR-HP1414-3 1/4" air line hose and TIM-180 fluid coupler



612999-4

* *Only ARO pumps are covered by the ARO 5-Year Warranty, all other components are covered by standard American Lubrication warranty. For more warranty information, visit page 104.*

Differential Oil Evacuation Package



612999-6*

Portable 1/2" Evacuation System

1/2" differential oil evacuation package. Includes 1/2" ported diaphragm pump, tube brackets for hanging the unit from a pit-mounted waste oil drain, 6' fluid suction line, air filter/regulator with gauge and related tubing and fittings

* *Only ARO pumps are covered by the ARO 5-Year Warranty, all other components are covered by standard American Lubrication warranty. For more warranty information, visit page 104.*

UL Fuel Diaphragm Pumps

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, motor oil and kerosene.

To meet UL 79 specifications, pumps utilize pressure relief valves to limit dispensing line pressure to under 50 PSI. If line pressure between the pump and dispensing point exceeds 50 PSI due to thermal expansion, line compression, back pressure or gravity, the relief valve opens and bleeds off excess pressure. **The relief valve must be plumbed to return the bleed-off fuel to the storage container.**

	650717-C	650718-C
Ball	Acetal	Acetal
Seat	Kynar®	Kynar®
Diaphragm & O-Ring	Viton®	Viton®
Body	Aluminum	Aluminum
Air Inlet (F)	1/4"	1/2"
Material Inlet & Outlet (F)	1"	1-1/2"
Maximum PSI	50 PSI	50 PSI
GPM Max	29 GPM	75 GPM



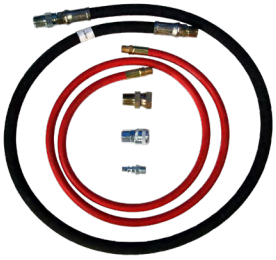
650717-C

Thunder Pump Connecting Hose Kits



TIM-4430

Connecting Hose Kit for Thunder Oil Pumps
Includes 3' air hose, 4' material hose, air coupler and connector and union adapter

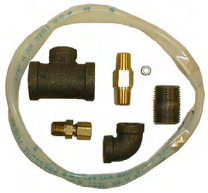


TIM-4431

Connecting Hose Kit for Thunder Oil Pumps
Includes 5' air hose, 5' material hose, union adapter, air coupler and connector

Pressure Relief Kits





	TIM-2000-4	TIM-2000-4A	TIM-RELIEF-KIT
Relief Setting	600 PSI	900 PSI	100 PSI
Description	**Pressure Relief Kit** Relieves pressure build-up in the fluid line due to thermal expansion. Valve must be plumbed back to the oil supply tank. Kit includes everything required for hook-up: tee-connection for discharge side of pump, relief valve, rubber hose and 2" steel adapter. Use on 3:1 and 5:1 pumps.	**Pressure Relief Kit** Relieves pressure build-up in the fluid line due to thermal expansion. Valve must be plumbed back to the oil supply tank. Kit includes everything required for hook-up: tee-connection for discharge side of pump, relief valve, rubber hose and 2" steel adapter. Use on 9:1 pumps.	**Pressure Relief Kit** Used on 1/2" and 1" diaphragm pump applications to reduce pressure build-up due to thermal expansion. Must be plumbed back to the supply tank. Used on diaphragm pumps.

Fluid Y-Strainer





	TIM-2000-6A	TIM-2000-10
Inlet/Outlet	1/2"(F)	1"(F)
Working Pressure	1,200 PSI	200 PSI
Description	**20 Mesh Filter** For keeping contaminants out of a fresh oil system	**20 Mesh Filter** For keeping contaminants out of a waste oil system

Stub Pump Suction Tubes

Suction tubes are made from black steel pipe. The tubes in these charts are based on using no check valve. Subtract 3" from the tube length if using a 3:1 (TIM-196-C) check valve, and subtract 5" from the tube length if using a 5:1 or 9:1 low-level cutoff (TIM-166-LLC). If using a 9:1 Series 425 pump order TIM-161 pipe coupler separately to connect the suction tube to the pump. (Used with bung adapters.)

Tank Used On	For 3:1 Pump 3/4" (M) Pipe	For 5:1 Pump 1-1/2" (M) Pipe	For 9:1 Pump 1-1/2" (M) Pipe
165-Gallon Workbench	**TIM-MTL75-25**	**TIM-MTL-23**	**TIM-MTL-15**
250-Gallon Workbench	**TIM-MTL75-25**	**TIM-MTL-23**	**TIM-MTL-15**
275-Gallon Horizontal Obround	**TIM-MTL75-37**	**TIM-MTL-35**	**TIM-MTL-26**
275-Gallon Vertical Obround	**TIM-MTL75-53**	**TIM-MTL-51**	**TIM-MTL-42**
525-Gallon Horizontal Obround	**TIM-MTL75-39**	**TIM-MTL-37**	**TIM-MTL-28**
500-Gallon Vertical Round	**TIM-MTL75-53**	**TIM-MTL-51**	**TIM-MTL-42**
Cube Style (60" Internal Depth)	**TIM-MTL75-53**	**TIM-MTL-51**	**TIM-MTL-42**



TIM-MTL75-37



TIM-MTL-35

Pump Inlet Check Valves



TIM-166-1



TIM-166-LLC



TIM-196-C

Used On	Thunder 5:1 Pumps	Thunder 5:1 & Series 425 Oil Pumps	Thunder 3:1 Pumps
Description	**Inlet Check Valve** Installs at the bottom of the pump suction tube to help the pump maintain prime during periods of non-use. 1-1/2"(F) inlet. Check valve is 4-5/8"(L) which must be taken into consideration when ordering the suction tube.	**Low-Level Cutoff & Inlet Check Valve** Installs at the bottom of the pump suction tube to help the pump maintain prime during periods of non-use. Also helps protect the pump by slowing down the cycle rate if the pump runs dry (no oil in tank). 1-1/2"(F) inlet. Low-level cutoff is 4-5/8"(L) which must be taken into consideration when ordering the suction tube.	**Inlet Check Valve** Installs at the bottom of the pump suction tube to help the pump maintain prime during periods of non-use. 3/4"(F) inlet. Check valve is 2-3/4"(L) which must be taken into consideration when ordering the suction tube.

BUNG ADAPTERS

	Description	Used On
67145-3-B	**2"(M) Thread**	Thunder 3:1 Oil Pumps
67145-4-B	**2"(M) Thread**	Thunder 5:1 Oil Pumps
67145-2	**2"(M) Thread**	Thunder Grease Pumps
4148	**2"(M) Thread for Use with 1-7/8" Siphon Tube**	Series 425 Grease Pumps & AFX Grease Pumps
60869	**2"(M) Thread for Use with 2-1/8" Siphon Tube**	AFX Oil Pumps
60870	**2"(M) Thread for Use with 2-1/8" Siphon Tube**	Series 200 1:1 Pumps, Series 425 Oil Pumps, Series 600 Grease Pumps & 6" AFX Grease Pumps
67088	**Water-Tight Seal Kit** Used in conjunction with bung adapters that come with Thunder grease pumps	Thunder Grease Pumps
67088-3	**Water-Tight Seal Kit** Consists of 67088 seal kit & 67145-3-B bung adapter	Thunder 3:1 Oil Pumps
67088-4	**Water-Tight Seal Kit** Consists of 67088 seal kit & 67145-4-B bung adapter	Thunder 5:1 Oil Pumps


67145-4-B


60869


4148

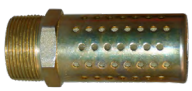

67088-3

AIR MOTOR MUFFLERS

	Inlet	Size	Used On
91790	1-1/4"(M)	3-1/2" x 11-3/16"	Series 425 & Series 600 Pumps
93110	3/8"(M)	7/8" x 2-5/8"	1" Diaphragm Pumps
93139	3/4"(M)	3-1/8" x 4-1/4"	1-1/2" Diaphragm Pumps
94117	1-1/2"(M)	2" x 4"	2" & 3" Diaphragm Pumps
96916	1/2"(M)	1" x 3"	AFX Oil & Grease Pumps


93110


91790


96916

MOUNTING BRACKETS

	Description	Used On
TIM-460-A	**Wall-Mount Bracket with 2" Threaded Opening**	All Thunder Oil Pumps
61113	**Wall-Mount Bracket with 2" Threaded Opening** Bracket is slotted to fit over rim of open-head drum	Series 200 Pumps, all Thunder Oil Pumps, Series 425 & AFX Stub Pumps fitted with bung adapters
TIM-461-B	**Wall-Mount Bracket**	1/2" & 1" Diaphragm Pumps
TIM-463	**IBC Tote-Bracket for Diaphragm Pumps**	1/2" & 1" Diaphragm Pumps
TIM-464-A	**IBC Tote-Bracket for Oil Pump & Reel-Mounting**	Thunder Oil Pumps, American Lubrication Reels with two (2) 2" Openings *Order 464-INSTL inslataion kit separately*



TIM-460-A



TIM-463



TIM-464-A

MOUNTING BRACKET KITS

	Description	Used On
TIM-460-3	**Kit for Wall-Mounting 3:1 Thunder Stub Oil Pumps** Includes wall-mount bracket, 3/4" x 6' suction hose, double-tap bushing & adapters *Order 3/4" downtube & check valve (TIM-196-C) separately*	Thunder 3:1 Stub Pumps
TIM-460-5	**Kit for Wall-Mounting 5:1 Thunder Stub Oil Pumps** Includes wall-mount bracket, 1" x 8' suction hose, double-tap bushing & adapters *Order 1-1/2" downtube & check valve (TIM-166-LLC) separately*	Thunder 5:1 Stub Pumps
TIM-465	**Tote Mounting & Siphon Kit** Includes tote mount bracket, suction hose & oil quick connects	Thunder 3:1 & 5:1 Pumps



TIM-465
(pump not included)

SIPHON TUBES FOR WALL-MOUNTED PUMPS

	TIM-1049	TIM-1052	TIM-1055	TIM-1056	TIM-1057	TIM-1058	TIM-1059	TIM-1059-V
Container Size	55-Gallon Drum	55-Gallon Drum	55-Gallon Drum	55-Gallon Drum	275-Gallon Tank	55-Gallon Drum	275-Gallon Tank	60" Height Tanks
Included Accessories	1" x 6' Suction Hose	1" x 6' Suction Hose	None	None	None	None	None	None
Tube Material	1-1/2" PVC	1-1/2" PVC	1/2" PVC	1/2" PVC	1/2" PVC	1-1/2" PVC	1-1/2" PVC	1-1/2" PVC
Foot Valve	Yes	Yes	No	No	No	Yes	Yes	Yes
Material Outlet Size	1-1/2"(M)	3/4"(M)	1/2"(F) x 90°	1/2"(M)	1/2"(M)	1"(F)	1"(F)	1"(F)
Used On	3" or 4-1/4" Stub Oil Pumps	2" Stub Oil Pumps	1/2" Diaphragm Pumps Wall-Mounted	1/2" Diaphragm Pumps Direct Drum-Mount	1/2" Diaphragm Pumps Direct Tank-Mount	Stub Pumps & 1/2" or 1" Diaphragm Pumps Wall-Mounted	Stub Pumps & 1/2" or 1" Diaphragm Pumps Wall-Mounted	Stub Pumps & 1/2" or 1" Diaphragm Pumps Wall-Mounted



TIM-1058

DRUM COVERS

	Drum Size	# of 2" Threaded Holes	Works with Tie-Down Kits	Used On
TIM-367-1	35-Pound	1	No	2" & 3" Bare Grease Pumps
TIM-451-1	16-Gallon/ 120-Pound	1	Yes*	All Thunder 2" & 3" Pumps
66492	16-Gallon/ 120-Pound	1	Yes*	AFX Series 4-1/4" Oil & Grease Pumps
66715	120-Pound	1	No	AFX Series 6" Grease Pumps
TIM-369	55-Gallon/ 400-Pound	1	No	All Thunder 2" & 3" Pumps
60898	55-Gallon/ 400-Pound	NA	No	AFX Series 4-1/4" Grease Pumps
71060-AL	55-Gallon/ 400-Pound	2	Yes*	All Thunder Pumps, AFX Series 4-1/4" Grease Pumps equipped with a bung adapter, & AFX Series 6" Grease Pumps

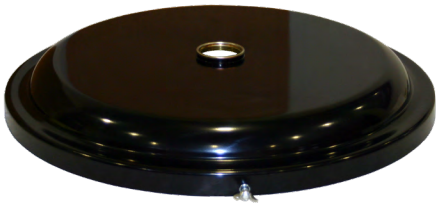
** Tie-down kits not included. Order tie-down kits separately.*



TIM-367-1



TIM-451-1



TIM-369



71060-AL

DRUM TIE-DOWN KITS

Tie-down kits facilitate the mounting of drums on lube trucks. Tie-down rods mount to the drum cover and are attached to the truck's floor bed to prevent the drum from moving. Kit includes two (2) tie-down rods and mounting hardware.

	640164	**71027-1**
Drum Size	16-Gallon, 120-Pound Drum	55-Gallon, 400-Pound Drum
Cover Used With	TIM-451-1	71060-AL
Used On	All Thunder 2" & 3" Pumps	All Thunder 2" & 3" Pumps & All AFX Series Pumps



640164

Pump Lifts

	640067
Description	Single-Acting Cylinder Lift for 55-Gallon or 400-Pound Drum
Max. Height	92"
Required Drum Cover	71060-AL
Used On	All Thunder 2" & 3" Pumps & All AFX Pumps



640067

Grease Follower Plates

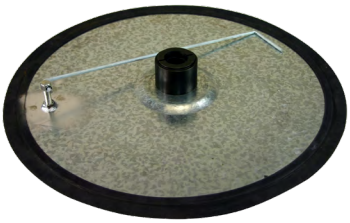
	Drum Size	Wiper Seal Material	Used On
TIM-368	35-Pound	Rubber	Thunder 2" & 3" Grease Pumps
TIM-366	120-Pound	Buna-N	Thunder 2" & 3" Grease Pumps
TIM-363	120-Pound	Buna-N	AFX Series, 50:1 Grease Pumps
640152-1	120-Pound	Buna-N	AFX Series, 100:1 Grease Pumps
TIM-640015-1	400-Pound	Buna-N	Thunder 3" Grease Pump
TIM-364	400-Pound	Buna-N	AFX Series, 50:1 Grease Pumps
640015-5	400-Pound	Buna-N	AFX Series, 50:1 Grease Pumps



TIM-368



TIM-363



TIM-640015-1

Drum Dollies



TIM-353



TIM-358



TIM-352



TIM-355-1

	TIM-353	TIM-358	TIM-352	TIM-355-1
Drum Size	35-Pound	120-Pound	120-Pound	400-Pound
Used On	Band Dolly with Polypropylene Wheels	Band Dolly with Polypropylene Wheels	Platform Dolly with Polypropylene Wheels	Band Dolly

Drum Carts

TIM-401	**Heavy-Duty Industrial Drum Cart** For use with either 55-gallon or 400-pound drums. Solid polymer wheels for durability and maneuverability on rougher surfaces. Equipped with fixed front wheels and caster rear wheel with locking brake. The unit includes a drum fastening system, hose hanger and control handle storage slot.
TIM-408	**3-Wheel Drum Cart** Includes hinged handle, swivel type front wheel and two (2) 6" diameter rubber rear wheels. Accommodates either 16-gallon or 120-pound drum.



TIM-401



TIM-408

Drum Accessories

TIM-351-8	**Drum Cradle with Wheels** This easy to use drum cradle is ideal for storing and moving 55-gallon drums. Includes four (4) 2-1/4" fixed poly wheels and an easy to use lever bar. Weight capacity is 600 pounds.
TIM-351-8HD	**Heavy-Duty Drum Cradle with Wheels** This cradle has two (2) 4" fixed wheels in the front and two (2) 4" swivel wheels in the rear for maximum mobility. Has an adjustable handle and weight capacity is 1,100 pounds.
TIM-351-1	**Aluminum Drum Wrench** Non-sparking. Opens 3/4" slotted bung and 2" cross bar bung.
TIM-32-34A	**Metal Drum Spigot** Self-closing drum spigot fits 3/4" NPT opening. Spigot allows for the use of a lock.
TIM-32-34P	**Polyethalyne Drum Spigot** Self-closing drum spigot fits 3/4" NPT opening. Spigot allows for the use of a lock. 10 pack.



TIM-351-8



TIM-351-8HD



TIM-351-1



TIM-32-34A

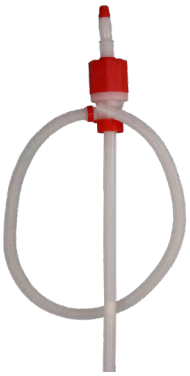






	TIM-75	TIM-77	TIM-79-SS
Container Size	16 to 55-Gallon Drums	16 to 55-Gallon Drums	16 to 55-Gallon Drums
Fluid Compatibility	Oils & Non-Corrosive Fluids	Oils & Non-Corrosive Fluids	Antifreeze, Strong Chemicals & Solvents that are compatible with the materials used in the body & downtube of the pump
Downtube Type	Steel Telescoping 18" to 34.5"	Telescoping 18" to 34.5"	Nylon/Stainless Steel
Body Material	Aluminum	Aluminum	Nylon & Stainless Steel with Teflon® Seals. Bung adapter is made of polypropylene.
Pump Type	Lever	Lever	Vertical Pull
Discharge	Twisting Non-Drip Spout	Twisting Non-Drip Spout	Twisting Non-Drip Spout
Delivery	12 Ounces per Stroke	16 Ounces per Stroke	8 Ounces per Stroke







	TIM-87	4188	4162
Container Size	5 to 55-Gallon Drums	5 to 55-Gallon Drums	5 to 55-Gallon Drums
Fluid Compatibility	Antifreeze, Windshield Washer Solvent & any product compatible with stainless steel & Teflon®	Various Chemicals, Solvents & Antifreeze	Antifreeze, Windshield Washer Fluid, Methanol, Chlorinated Solvents & some Water-Based Chemicals
Downtube Type	316 Stainless Steel & Teflon®	Polyethylene	Polyethylene
Body Material	316 Stainless Steel & Teflon®	Polyethylene/Polypropylene	Polyethylene/Polypropylene
Pump Type	Vertical Pull	Siphon	Lever
Discharge	Fixed 316 Stainless Steel Spout	5' x 8" Hose	Straight Spout
Delivery	7 Ounces per Stroke	Siphon	13 Ounces per Stroke

BUTTRESS THREAD ADAPTER



4190

Buttress Thread Adapter

2" NPT (F) x 2" buttress (M). Nylon adapter converts 2" buttress thread to 2" NPT. Ideal for using pumps with 2" NPT male threads on containers which have 2" buttress threads.

			
	TIM-74	**TIM-74-AL**	**TIM-322**
Container Size	16 to 55-Gallon Drums	16 to 55-Gallon Drums	16 to 55-Gallon Drums
Fluid Compatibility	Oils & Antifreeze	Oils	Oil, Gasoline & Other Petroleum-based Products
Downtube Type	Adjustable Bung Adapter	Aluminum	Telescoping 22" to 40"
Body Material	Cast Iron	Aluminum	Cast Iron
Pump Type	Rotary	Rotary	Lever–pull/push–can be padlocked
Discharge	Spout with 3/4"(M)	Spout with Swing-Arm Return Drain	5/8" x 8' Delivery Hose (3/4"(M) both ends) & Nozzle
Delivery	1 Gallon per 12 Revolutions	1 Gallon per 8 Revolutions	1 Gallon per 5 Strokes

			
	TIM-322-A	**TIM-323**	**4166-1**
Container Size	16 to 55-Gallon Drums	16 to 55-Gallon Drums	5 to 55-Gallon Drums
Fluid Compatibility	Oils & Diesel Fuel	Oils, Gasoline & Diesel Fuel	DEF, Antifreeze, Windshield Washer Fluid, Methanol, Chlorinated Solvents, & some Water-Based Chemicals
Downtube Type	Telescoping 22" to 40"	Telescoping 22" to 40"	Polyethylene
Body Material	Aluminum	Aluminum	Polypropylene with Teflon® Seals
Pump Type	Lever–pull/push–can be padlocked	Rotary–can be padlocked	Rotary
Discharge	5/8" x 8' Delivery Hose (3/4"(M) both ends) & Nozzle	5/8" x 8' Delivery Hose (3/4"(M) both ends) & Nozzle	Twisting Non-Drip Spout
Delivery	1 Gallon per 5 Strokes	1 Gallon per 10 Revolutions	8 Ounces per Revolution

ADVANTAGE PLUS SERIES

SLIDE-IN MOUNTING BRACKET
Optional slide-in bracket simplifies reel mounting. Easily allows one person to hang the reel in an overhead application

LATCH SPRING
Heavy-duty latch spring is designed for years of trouble-free service, and can be replaced without removing or disassembling the reel

ENCLOSED SPRING
Cartridge style spring motor is packed with grease and fully enclosed for extra safety. Springs are factory balanced for each size reel

MOUNTING FLEXIBILITY
Multi-position guide arm is easily adjusted for ceiling, floor, wall, tank, or truck mounting

STRENGTH BEADS
Reels are constructed with strength beads for added rigidity

ROLLED EDGES
Hubs are constructed of heavy gauge steel with rolled edges for extra strength and maximum protection

SELF-LUBRICATING
1" double supported steel axle with 1" self-lubricating precision bearings

RIGID CONSTRUCTION
Base plate and support post are built from heavy 1/4" plate steel to reduce flexing and fatigue

HI-FLOW SWIVEL
Load-free high-flow swivel allows maximum product delivery, and can be replaced without removing or disassembling the reel

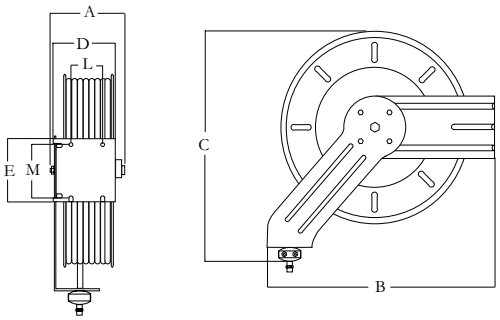
DURABLE FINISH
All Advantage Plus Series reels are powder-coated black for increased durability



TIM-3628-50

SIZE INDEX CHART

A	B	C	D	E	Mount L-M
8-7/16"	21-1/2"	20-5/8"	5-3/4"	9"	3-1/2" x 7-1/2"



14' maximum mounting height

AIR & WATER REELS – LOW PRESSURE

	For Use On	Hose Size	Max PSI	Delivery Hose	Hose Stop	Inlet/Outlet	Weight
TIM-3616-50	Air, Water, WWS	3/8"(M) x 50'	300 PSI	AIR-HP3838-50F	TIM-131-3	3/8"(F)	49 lbs
TIM-3616-65	Air, Water, WWS	3/8"(M) x 65'	300 PSI	AIR-HP3838-65F	TIM-131-3	3/8"(F)	53 lbs
TIM-3618-50A	Air, Water, WWS	1/2"(M) x 50'	300 PSI	TIM-4208-50F	TIM-131-4	1/2"(F)	60 lbs
TIM-3618-65A*	Air, Water, WWS	1/2"(M) x 65'	300 PSI	TIM-4208-65F	TIM-131-4	1/2"(F)	64 lbs

** These reels are equipped with a special factory-balanced spring designed specifically for 65' hose*

OIL REELS – MEDIUM PRESSURE

	For Use On	Hose Size	Max PSI	Delivery Hose	Hose Stop	Inlet/Outlet	Weight
TIM-3628-25	Oil, ATF, A/F	1/2"(M) x 25'	2,000 PSI	TIM-4418-25S	TIM-131-4	1/2"(F)	47 lbs
TIM-3628-50	Oil, ATF, A/F	1/2"(M) x 50'	2,000 PSI	TIM-4418-50S	TIM-131-4	1/2"(F)	55 lbs

GREASE REEL – HIGH PRESSURE

	For Use On	Hose Size	Max PSI	Delivery Hose	Hose Stop	Inlet/Outlet	Weight
TIM-3636-50	Grease	3/8"(M) x 50'	4,000 PSI	TIM-4506-50S	TIM-131-3	3/8"(F)	60 lbs



TIM-3616-50

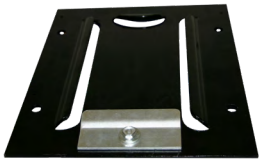


TIM-3628-50



TIM-3636-50

OPTIONAL SLIDE-IN MOUNTING BRACKET



TIM-3600-50

12-3/4" L x 10-1/2" W slide-in mounting bracket simplifies reel mounting by allowing for one man installations. Easily mounts to Uni-Strut® using Uni-Strut® hardware (not included). Can also be mounted by drilling and fastening to an I-Beam or H-Beam (fastening hardware not included). 1/8" steel construction.

ADVANTAGE² PLUS SERIES

DUAL ARM DESIGN
Adds rigidity to the reel making it well suited for heavy use, high ceilings or lube truck applications

LATCH SPRING
Heavy-duty latch spring is designed for years of trouble-free service, and can be replaced without removing or disassembling the reel

ENCLOSED SPRING
Cartridge style spring motor is packed with grease and fully enclosed for extra safety.

MOUNTING FLEXIBILITY
Multi-position guide arm is easily adjusted for ceiling, floor, wall, tank, or truck mounting

STRENGTH BEADS
Reels are constructed with strength beads for added rigidity

ROLLED EDGES
Hubs are constructed of heavy gauge steel with rolled edges for extra strength and maximum protection

RIGID CONSTRUCTION
Base plate and support post are built from heavy 1/4" plate steel to reduce flexing and fatigue

HI-FLOW SWIVEL
Load-free high-flow swivel allows maximum product delivery, and can be replaced without removing or disassembling the reel

DURABLE FINISH
All Advantage Plus Series reels are powder-coated black for increased durability

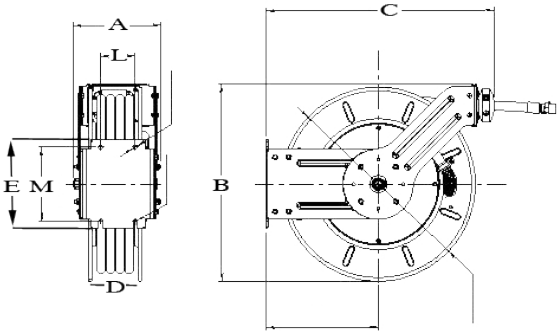
ADVANTAGE² DOUBLE-ARM REELS



TIM-3936-50

SIZE INDEX CHART

A	B	C	D	E	Mount L-M
9"	20-1/2"	23"	7-1/2"	9"	3-1/2" x 7-1/2"



AIR & WATER REELS – LOW PRESSURE

	For Use On	Hose Size	Max PSI	Delivery Hose	Hose Stop	Inlet/Outlet	Weight
TIM-3916-50	Air, Water, WWS	3/8"(M) x 50'	300 PSI	AIR-HP3838-50F	TIM-131-3	3/8"(F)	60 lbs
TIM-3916-65	Air, Water, WWS	3/8"(M) x 50'	300 PSI	AIR-HP3838-65F	TIM-131-3	3/8"(F)	64 lbs
TIM-3918-50A	Air, Water, WWS	1/2"(M) x 50'	300 PSI	TIM-4208-50F	TIM-131-4	1/2"(F)	71 lbs
TIM-3918-65A*	Air, Water, WWS	1/2"(M) x 65'	300 PSI	TIM-4208-65F	TIM-131-4	1/2"(F)	75 lbs

** These reels are equipped with a special factory-balanced spring designed specifically for 65' hose*

OIL REEL – MEDIUM PRESSURE

	For Use On	Hose Size	Max PSI	Delivery Hose	Hose Stop	Inlet/Outlet	Weight
TIM-3928-50	Oil, ATF, A/F	1/2"(M) x 50'	2,000 PSI	TIM-4418-50	TIM-131-4	1/2"(F)	68 lbs

GREASE REEL – HIGH PRESSURE

	For Use On	Hose Size	Max PSI	Delivery Hose	Hose Stop	Inlet/Outlet	Weight
TIM-3936-50	Grease	3/8"(M) x 50'	4,000 PSI	TIM-4506-50S	TIM-131-3	3/8"(F)	83 lbs



TIM-3916-50


TIM-3928-50



TIM-3936-50

ADAPTER PLATE



TIM-3900-50

The TIM-3900-50 Adapter Plate makes the Advantage Plus^2 Double Arm reel base compatible with the TIM-3600-50 Slide-in bracket. After the adapter plate is bolted to a double arm reel base, the reels can be slid into the TIM-3600-50 bracket.

PLATINUM SERIES PREMIUM DOUBLE-ARM

DOUBLE-ARM CONSTRUCTION
Reel is supported on both sides by pedestal style base and arm guides

ENCLOSED SPRING
Cartridge style spring motor is packed with grease and fully enclosed for extra safety. Springs are factory balanced for each size reel

MOUNTING FLEXIBILITY
Multi-position guide arm is easily adjusted for ceiling, floor, wall, tank or truck mounting

TRIPLE SUPPORT
Reel axle is independently supported in three separate places and has self-lubricating bearings

STRENGTH BEADS
Reels are constructed with strength beads for added rigidity

ROLLED-EDGE
Hubs are constructed of heavy gauge steel with rolled edges for extra strength and maximum protection

RIGID CONSTRUCTION
Base plate and support post are built from heavy 1/4" plate steel to reduce flexing and fatigue

LATCH-OUT PREVENTION
Hose reels can be installed to prevent "latch-out" or locked reel syndrome

HI-FLOW SWIVEL
Load-free Hi-Flow swivel allows maximum product delivery. Swivel O-ring seals are supported by Teflon® backup rings for added durability

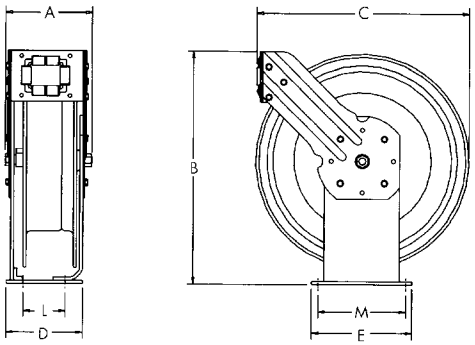
DURABLE FINISH
All Platinum Series reels are powder-coated grey for increased durability



TIM-3208-75P

SIZE INDEX CHART

Reel Dimensions In Inches						
Size Index	A	B	C	D	E	Mount L-M
1	9-1/4"	25-1/2"	23"	8"	9"	7" x 8"
2	9-3/4"	25-1/2"	23"	8"	9"	7" x 8"



AIR & WATER REELS – LOW PRESSURE

	Hose Size	Maximum PSI	Delivery Hose	Hose Stop	Inlet	Delivery Hose Thread Size	Weight	Size Index
TIM-3106-75P	3/8" x 75'	300 PSI	TIM-4216-75F	TIM-131-3	3/8"(F)	3/8"(M)	82 lbs	1
TIM-3106-100P	3/8" x 100'	300 PSI	TIM-4216-100F	TIM-131-3	3/8"(F)	3/8"(M)	85 lbs	1
TIM-3108-75P	1/2" x 75'	300 PSI	TIM-4208-75F	TIM-131-4	1/2"(F)	1/2"(M)	82 lbs	1
TIM-3108-100P	1/2" x 100'	300 PSI	TIM-4208-100F	TIM-131-4	1/2"(F)	1/2"(M)	95 lbs	1

OIL, ATF & ANTIFREEZE REELS – MEDIUM PRESSURE

	Hose Size	Maximum PSI	Delivery Hose	Hose Stop	Inlet	Delivery Hose Thread Size	Weight	Size Index
TIM-3208-75P	1/2" x 75'	2,500 PSI	TIM-4418-75S	TIM-131-4	1/2"(F)	1/2"(M)	100 lbs	1
TIM-3208-100P	1/2" x 100'	2,500 PSI	TIM-4418-100S	TIM-131-4	1/2"(F)	1/2"(M)	106 lbs	1

GREASE REEL – HIGH PRESSURE

	Hose Size	Maximum PSI	Delivery Hose	Hose Stop	Inlet	Delivery Hose Thread Size	Weight	Size Index
TIM-3306-75P	3/8" x 75'	4,000 PSI	TIM-4506-75	TIM-131-3	3/8"(F)	3/8"(M)	98 lbs	2

DIESEL FUEL, GASOLINE & OIL REEL

	For Use On	Hose Size	Maximum PSI	Inlet	Weight	Size Index
TIM-3412-50P	Evacuation, Fuel	3/4" x 50'	300 PSI	3/4"(F)	110 lbs	2



TIM-3208-75P



TIM-3306-75P



TIM-3412-50P

CABINET ENCLOSURES FOR ADVANTAGE PLUS REELS

CONSTRUCTION
Cabinet enclosures and end panels are constructed of 14-gauge steel

DURABLE FINISH
All steel parts are powder-coated with a white textured finish

ACCESS PANELS
Removable panels for easy access to the reels

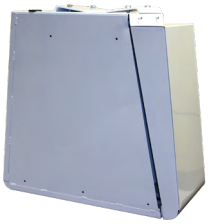
MOUNTING CHANNEL
Included 1/4" powder-coated mounting plate attaches to 4" to 7-1/2" flange on "I" or "H" beam

ROLLER GUIDES
Each reel cabinet includes a four-roller non-snag hose guide system that reduces hose wear



CABINET ENCLOSURES & ACCESSORIES

TIM-3600-CAB	**Single Cabinet Enclosure** For Advantage Plus Series Reels only. Top, bottom, and back panels are constructed of 14-gauge steel and are painted with a textured white powder-coated finish. Each cabinet includes mounting bracket, non-snag roller outlets and reel access panel. Once the cabinet is mounted the reel slides easily into place. Order one cabinet per reel. *Must remove hose-guide arm from reel before installing* *An unlimited number of cabinets can be bolted tight together, side by side.*
TIM-3600-PAN	**End-Panel Kit** Includes two end panels. Design allows for end user to customize the panels with their own logo/decal. Order one kit for each bank of reels.



TIM-3600-CAB



TIM-3600-PAN
(decal not included)

REQUIRED CONNECTING HOSES FOR CABINET ENCLOSURES

	AIR-HP3838-4NS	TIM-4218-4NS	TIM-4418-4NS	TIM-4516-4NS
Fluid Compatibility	Air	Air	Oil	Grease
Hose ID	3/8"	1/2"	1/2"	3/8"
Thread Size	3/8"(M) x 3/8"-90° Swivel (M)	1/2"(M) x 1/2"-90° Swivel (M)	1/2"(M) x 1/2"-90° Swivel (M)	3/8"(M) x 3/8"-90° Swivel (M)
Working PSI	300 PSI	300 PSI	2,000 PSI	4,000 PSI
Hose Length	4'	4'	4'	4'

HOSE REEL CONNECTING HOSES

	Fluid Compatibility	Hose ID	Thread Size	Maximum PSI	Hose Length	For Use On
AIR-HP3838-2	Air	3/8"	3/8"(M) x 3/8"(M)	300 PSI	2'	3/8" Air/Water Reels
AIR-HP3838-2N	Air	3/8"	3/8"(M) x 3/8"-90° Swivel (M)	300 PSI	2'	3/8" Air/Water Reels
TIM-4218-2N	Air	1/2"	1/2"(M) x 1/2"-90° Swivel (M)	300 PSI	2'	1/2" Air/Water Reels
TIM-4418-2NS	Oil	1/2"	1/2"(M) x 1/2"-90° Swivel (M)	2,000 PSI	2'	1/2" Oil Reels
TIM-4412-3	Oil	3/4"	3/4"(M) x 3/4"(M)	1,250 PSI	3'	3/4" Oil Reels
TIM-4412-5	Oil	3/4"	3/4"(M) x 3/4"(M)	1,250 PSI	5'	3/4" Oil Reels
TIM-4516-2N	Grease	3/8"	3/8"(M) x 3/8"-90° Swivel (M)	4,000 PSI	2'	3/8" Grease Reels

HOSE STOPS



TIM-254-D



TIM-131-A



TIM-131-3



TIM-131-4



TIM-430

	TIM-254-D	TIM-131-A	TIM-131-3	TIM-131-4	TIM-430
Hose ID	1/2"	1/4"	3/8"	1/2"	3/4"
Outside Diameter	3-1/2"	2-1/2"	3"	3"	3-1/2"
Reel	Quick-Lube Consoles	All 1/4" ID Hose Reels	3/8" Air Reels	1/2" Oil & Air Reels	3/4" Oil Reels
Style	Donut	Donut	Donut	Donut	Donut

PRO SERIES DIGITAL CONTROL VALVES

EXCLUSIVE DESIGN
This meter is built exclusively for American Lubrication Equipment Corporation incorporating numerous design ideas provided by their design team

FIELD REPAIRABLE
This design enables the user to replace the circuit board while the meter is installed under pressure

SUPERIOR DESIGN
Fluid is completely separated from the electronic head. The entire electronics head/puck is available as a replacement part

PROGRAMMABLE
All Pro Series digital meters are programmable to Pints, Quarts, Liters and Gallons

BATTERIES
New AAA battery design lasts up to 3 times longer

SHOCK-RESISTANT
Rugged shock-resistant design stands up to the harshest environments. Meter covers have a molded-in soft rubber shock-guard for added protection

MODULAR ASSEMBLY
Swivel, control valve, meter and tip assembly are separate units which simplifies repair

FILTER
All Pro Series digital control valves have built-in filters for added protection

TRIGGER GUARD & LOCK
All Trigger Guard (TG) style control valves have a built-in trigger guard which helps prevent accidental dispensing as well as a built-in trigger lock for hands-free dispensing

3-YEAR LIMITED WARRANTY
All Pro Series digital control valves come with a 3-year limited warranty



TIM-601-RM

TIM-600-FM

Operating Pressure	Operating Temperature	Storage Temperature	Weight (TIM-600-RM)
1,000 PSI	23° to 140° F	-5° to 158° F	2.8 lbs

SPECIFICATIONS

Meter Mechanism	Oval Gear
Measurement	Pints, Quarts, Liters, Gallons
Inlet/Outlet	1/2" NPT (F)
Flow Range (TIM-615)	.1 to 26 Qts/Min
Accuracy	± .5%
Repeatability	± .3%

FLUID COMPATIBILITY

- Automatic Transmission Fluid
- Gear Oil
- Hydraulic Oil
- Motor Oil
- Synthetic Oil

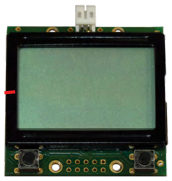
TIM-615 COMPONENT VIEW



Cover Assembly

Electronics Section with Fluid Isolation Plate

Measuring Chamber/Oval Gear Assembly



TIM-615-4
"Plug and play" circuit board can be replaced while the meter is under pressure

DIGITAL PRO SERIES TG STYLE CONTROL VALVES

	Metered Units	Totalizer Units	Tip Assembly	Tip Assembly Description	Tip Diameter	Working Flow Rate
TIM-600-FA	Pts/Qts/Lts/Gals	Lts/Gals	TIM-747	Flex Automatic	1/2"	2.5 GPM
TIM-600-FM	Pts/Qts/Lts/Gals	Lts/Gals	TIM-743	Flex Manual	5/8"	2.5 GPM
TIM-600-FMHF	Pts/Qts/Lts/Gals	Lts/Gals	TIM-743-1	Flex Manual Hi-Flow	15/16"	4 GPM
TIM-600-RA	Pts/Qts/Lts/Gals	Lts/Gals	TIM-746	Rigid Automatic	1/2"	2.5 GPM
TIM-600-RM	Pts/Qts/Lts/Gals	Lts/Gals	TIM-753	Rigid Manual	1/2"	2.5 GPM
TIM-600-RMGO	Pts/Qts/Lts/Gals	Lts/Gals	TIM-742	90° Rigid Manual	1/2"	2.5 GPM
TIM-600-RMHF	Pts/Qts/Lts/Gals	Lts/Gals	TIM-752	Rigid Manual Hi-Flow	15/16"	4 GPM

Order optional colored swivel guards separately. See page 59.



TIM-600-RM

DIGITAL PRO SERIES STANDARD CONTROL VALVES

	Metered Units	Totalizer Units	Tip Assembly	Tip Assembly Description	Tip Diameter	Working Flow Rate
TIM-601-FA	Pts/Qts/Lts/Gals	Lts/Gals	TIM-747	Flex Automatic	1/2"	2.5 GPM
TIM-601-FM	Pts/Qts/Lts/Gals	Lts/Gals	TIM-743	Flex Manual	5/8"	2.5 GPM
TIM-601-FMHF	Pts/Qts/Lts/Gals	Lts/Gals	TIM-743-1	Flex Manual Hi-Flow	15/16"	4 GPM
TIM-601-RA	Pts/Qts/Lts/Gals	Lts/Gals	TIM-746	Rigid Automatic	1/2"	2.5 GPM
TIM-601-RM	Pts/Qts/Lts/Gals	Lts/Gals	TIM-753	Rigid Manual	1/2"	2.5 GPM
TIM-601-RMGO	Pts/Qts/Lts/Gals	Lts/Gals	TIM-742	90° Rigid Manual	1/2"	2.5 GPM
TIM-601-RMHF	Pts/Qts/Lts/Gals	Lts/Gals	TIM-752	Rigid Manual Hi-Flow	15/16"	4 GPM

Order optional colored swivel guards separately. See page 59.



TIM-601-FM

Tip Extensions



TIM-743



TIM-753



TIM-747



TIM-746



TIM-742



TIM-752



TIM-743-1

PRO SERIES MECHANICAL CONTROL VALVES

SUPERIOR DESIGN
Enables the use of manual non-drip tips

DURABLE
No exposed pointers to break or turn backwards

MODULAR ASSEMBLY
Swivel, control valve, meter and tip assembly are separate units which simplifies repair

SELF-POWERED
Eliminates the headaches associated with dead batteries

SHOCK-RESISTANT
Rugged shock-resistant design stands up to the harshest environments. Meter bodies are equipped with a soft rubber shock-guard for added protection

FILTER
All Pro Series mechanical control valves have built-in filters for added protection

TRIGGER GUARD
All Trigger Guard (TG) style control valves have a built-in trigger guard which helps prevent accidental dispensing

TRIGGER LOCK
All TG style control valves have a built-in trigger lock, allowing hands-free operation

3-YEAR LIMITED WARRANTY
All Pro Series mechanical control valves come with a 3-year limited warranty



TIM-651-RM

TIM-650-FM

Operating Pressure	Operating Temperature	Storage Temperature	Weight (TIM-650-FM)
1,000 PSI	-4° to 176° F	-4° to 176° F	3.45 lbs

SPECIFICATIONS

Meter Mechanism	Oval Gear/Mechanical
Measurement	Quarts
Inlet/Outlet	1/2" NPT (F)
Flow Range (TIM-616)	0.25 to 8 Gals/Min
Accuracy	± 1%
Repeatability	± .2%

FLUID COMPATIBILITY

- Automatic Transmission Fluid
- Gear Oil
- Hydraulic Oil
- Motor Oil
- Synthetic Oil

MECHANICAL PRO SERIES TG STYLE CONTROL VALVES

	Metered Units	Totalizer Units	Tip Assembly	Tip Assembly Description	Tip Diameter	Working Flow Rate
TIM-650-FA	Quarts	Quarts	TIM-747	Flex Automatic	1/2"	2.5 GPM
TIM-650-FM	Quarts	Quarts	TIM-743	Flex Manual	5/8"	2.5 GPM
TIM-650-FMHF	Quarts	Quarts	TIM-743-1	Flex Manual Hi-Flow	15/16"	4 GPM
TIM-650-RA	Quarts	Quarts	TIM-746	Rigid Automatic	1/2"	2.5 GPM
TIM-650-RM	Quarts	Quarts	TIM-753	Rigid Manual	1/2"	2.5 GPM
TIM-650-RMHF	Quarts	Quarts	TIM-752	Rigid Manual Hi-Flow	15/16"	4 GPM

Order optional colored swivel guards separately. See page 59.



TIM-650-RM

MECHANICAL PRO SERIES STANDARD CONTROL VALVES

	Metered Units	Totalizer Units	Tip Assembly	Tip Assembly Description	Tip Diameter	Working Flow Rate
TIM-651-FA	Quarts	Quarts	TIM-747	Flex Automatic	1/2"	2.5 GPM
TIM-651-FM	Quarts	Quarts	TIM-743	Flex Manual	5/8"	2.5 GPM
TIM-651-FMHF	Quarts	Quarts	TIM-743-1	Flex Manual Hi-Flow	15/16"	4 GPM
TIM-651-RA	Quarts	Quarts	TIM-746	Rigid Automatic	1/2"	2.5 GPM
TIM-651-RM	Quarts	Quarts	TIM-753	Rigid Manual	1/2"	2.5 GPM
TIM-651-RMHF	Quarts	Quarts	TIM-752	Rigid Manual Hi-Flow	15/16"	4 GPM

Order optional colored swivel guards separately. See page 59.



TIM-651-FM

Tip Extensions



TIM-743



TIM-753



TIM-747



TIM-746



TIM-752



TIM-743-1

900 SERIES DIGITAL PRESET METERS

ERGONOMIC
900 Series meters are designed with an anatomical hand grip and a trigger that requires minimal pressure to operate

SWIVEL EXTENSION
All digital preset meters are equipped with a patented multi-position extension that threads directly into the meters body. Units with a rigid extension are also equipped with a rotatable non-drip tip

PROGRAMMABLE
User can store five (5) programmable preset values in the meter's memory that can be easily recalled at the time of dispense. The meter always stores the amount of the previous dispense as a sixth preset value

VERSATILE
Digital preset meters can be set up to measure in Pints, Quarts, Liters or Gallons

TRIGGER GUARD
Preset meters have a built-in trigger guard which helps prevent accidental dispensing

SWIVEL GUARD
Units are equipped with a black swivel guard which prevents the swivel from damaging the vehicle's finish while being serviced

L.E.D. DISPLAY
Large, easy to read L.E.D. display shows the dispensing amount and totalizer value at the same time

FILTER
All 900 Series digital control valves have built-in filters for added protection

BATTERIES
Meters use four (4) standard AA batteries which are field replaceable. The meter's memory is retained even during power loss



TIM-900B-1

Operating Pressure	Operating Temperature	Storage Temperature	Weight
1,000 PSI Max.	23° to 122° F	-31° to 140° F	3 lbs

SPECIFICATIONS

Measurements	Pints, Quarts, Liters, Gallons
Meter Mechanism	Oval Gear
Inlet Size	1/2"(F)
Flow Range	0.26 to 7.9 Gals/Min
Accuracy	±.5%
Repeatability	±.2%
Power	Four (4) 1.5-volt AA Batteries

FLUID COMPATIBILITY

- Automatic Transmission Fluid
- Gear Oil
- Hydraulic Oil
- Motor Oil
- Synthetic Oil

900 SERIES DIGITAL PRESET METERS







	TIM-900B-1	TIM-901B-1	TIM-901B-HF
Unit of Measure	Pts/Qts/Lts/Gals	Pts/Qts/Lts/Gals	Pts/Qts/Lts/Gals
Tip Extension	TIM-758-1	TIM-756-1	TIM-755-1
Tip Extension Description	Rigid Automatic	Flex Automatic	Flex Manual Hi-Flow
Tip Diameter	1/2"	1/2"	15/16"
Working Flow Rate	2.5 GPM	2.5 GPM	4 GPM

All 900 Series meters include a black swivel guard. For other color swivel guards see page 59.

Tip Extension



TIM-758-1*

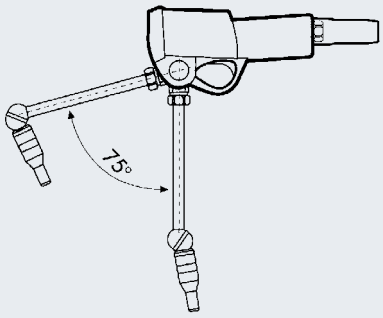


TIM-756-1*



TIM-755-1*

* *Tips are NOT backward compatible with black TIM-900-1 and grey TIM-900A-1 handles.*



All TIM-900 Series digital preset meters have a swiveling extension. Units equipped with rigid extensions also have a rotatable automatic non-drip tip.

MECHANICAL PRESET METERS

BALANCED DESIGN
Preset mechanical meters have a light-weight, balanced design for ease of use

IMPACT RESISTANT
An impact resistant nylon shroud protects the meter's knob and register dial

TRIGGER GUARD
Built-in trigger guard which helps prevent accidental dispensing

MANUAL TIPS
Units come equipped with manual Hi-Flow non-drip tips

INLET SWIVEL
1/2" (F) swivel comes standard on all mechanical style meters

Operating Pressure	Operating Temperature	Weight
1,000 PSI Max.	45° to 110° F	4 lbs



TIM-911-HF

SPECIFICATIONS

Inlet Size ..... 1/2"(F)
Flow Range ..... 0.4 to 3.0 Gals/Min
Accuracy – Preset ..... ±.3%
Accuracy – Mechanical ..... ±.65%

FLUID COMPATIBILITY

- Automatic Transmission Fluid
- Gear Oil
- Hydraulic Oil
- Motor Oil
- Synthetic Oil







	TIM-910-HF	TIM-911-HF	TIM-912-HF
Metered Units	16 Quarts	60 Quarts	60 Gallons
Totalizer Units	Quarts	Quarts/Gallons	Gallons
Tip Assembly	TIM-743-RHF	TIM-743-RHF	TIM-743-RHF
Description	Rigid Manual Hi-Flow	Rigid Manual Hi-Flow	Rigid Manual Hi-Flow
Tip Diameter	15/16"	15/16"	15/16"
Working Flow	3 GPM	3 GPM	3 GPM

Order optional colored swivel guards separately. See page 59.

1/2" IN-LINE METERS





	TIM-615	TIM-616
Type	Digital	Mechanical
Inlet/Outlet	1/2" NPT (F)	1/2" NPT (F)
Fluid Compatibility	Fluid Lubricants	Fluid Lubricants
Metered Units	Pts/Qts/Lts/Gals	Quarts
Totalizer Units	Liters/Gallons	Quarts
Working Flow Rate	1 to 32 Qts/Min	1 to 32 Qts/Min
Maximum PSI	1,000 PSI	1,000 PSI

3/4" – 1-1/2" IN-LINE DIGITAL METERS

In-line fluid meters allow for easy monitoring of fluid dispensing. The following digital electronic meters include two (2) 1.5V "N" style batteries (AAA batteries). Accuracy within the flow range is ± .5%, and repeatability is ± .2%.







	TIM-717-1	TIM-717-2	TIM-717-3
Inlet/Outlet	3/4"(F)	1"(F)	1-1/2"(F)
Fluid Compatibility	Lubricating Oils, Diesel Fuel & Antifreeze Mixtures	Lubricating Oils, Diesel Fuel & Antifreeze Mixtures	Lubricating Oils, Diesel Fuel & Antifreeze Mixtures
Metered Units	Pts/Qts/Lts/Gals	Pts/Qts/Lts/Gals	Pts/Qts/Lts/Gals
Totalizer Units	Gallons	Gallons	Gallons
Working Flow Rate	1.3 to 13 Gals/Min	2.6 to 26 Gals/Min	4 to 40 Gals/Min
Maximum PSI	1,000 PSI	435 PSI	290 PSI

760 SERIES NON-METERED CONTROL VALVES

MORE CHOICES
760 Series control valves come in a wide variety of configurations. Two valve styles and seven different tips allow you to choose the valve that best fits your application

LIGHT WEIGHT
Valve valves are made of aluminum creating a lightweight, perfectly-balanced design

IMPACT RESISTANT
Rugged impact-resistant design stands up to the harshest environments

FILTER
All 760 Series control valves have built-in filters for added protection

TRIGGER GUARD
All Trigger Guard (TG) style valves have a built-in trigger guard which helps prevent accidental dispensing

TRIGGER LOCK
All TG style valves have a built-in trigger lock, allowing hands-free operation

NON-DRIP TIPS
Valves are available in both manual and automatic non-drip tip configurations



TIM-761-TGM



TIM-762

Operating Pressure	Weight (TIM-761)	Weight (TIM-761-TG)
1,000 PSI	1.9 lbs	1.6 lbs

SPECIFICATIONS

Inlet Size . . . . . 1/2"(F)
Flow Range . . . . . 0.4 to 4.0 Gals/Min

FLUID COMPATIBILITY

- Automatic Transmission Fluid
- Gear Oil
- Hydraulic Oil
- Motor Oil
- Synthetic Oil

TG STYLE NON-METERED CONTROL VALVES

	Description	Tip Extension	Tip Diameter	Working Flow Rate
TIM-761-TG	Rigid Automatic	TIM-746	1/2"	2.5 GPM
TIM-761-TGM	Rigid Manual	TIM-753	1/2"	2.5 GPM
TIM-761-TGHF	Rigid Hi-Flow Manual	TIM-752	15/16"	4 GPM
TIM-761-TGGO	90° Rigid Manual	TIM-742	1/2"	2.5 GPM
TIM-762-TG	Flex Manual	TIM-743	5/8"	2.5 GPM
TIM-762-TGA	Flex Automatic	TIM-747	1/2"	2.5 GPM
TIM-762-TGHF	Flex Hi-Flow Manual	TIM-743-1	15/16"	4 GPM

Order optional colored swivel guards separately. See page 59.



TIM-762-TG

STANDARD NON-METERED CONTROL VALVES

	Description	Tip Extension	Tip Diameter	Working Flow Rate
TIM-761	Rigid Automatic	TIM-746	1/2"	2.5 GPM
TIM-761-M	Rigid Manual	TIM-753	1/2"	2.5 GPM
TIM-761-HF	Rigid Hi-Flow Manual	TIM-752	15/16"	4 GPM
TIM-761-GO	90° Rigid Manual	TIM-742	1/2"	2.5 GPM
TIM-762	Flex Manual	TIM-743	5/8"	2.5 GPM
TIM-762-A	Flex Automatic	TIM-747	1/2"	2.5 GPM
TIM-762-HF	Flex Hi-Flow Manual	TIM-743-1	15/16"	4 GPM

Order optional colored swivel guards separately. See page 59.



TIM-761-M

Tip Extensions



TIM-743



TIM-753



TIM-747



TIM-746



TIM-742



TIM-752



TIM-743-1

ARO NON-METERED CONTROL VALVES

ARO® 5 YEAR WARRANTY

FILTER
All ARO non-metered control valves have built-in filters for added protection

TRIGGER LOCK
Valves have a built-in trigger lock, allowing hands-free operation

SWIVEL
Standard control valves include 1/2" swivel. Order swivels for Hi-Flow versions separately

5-YEAR WARRANTY
All ARO standard and Hi-Flow non-metered control valves come with a 5-year limited warranty

Weight (635392)	Weight (635193)
2.2 lbs	3.2 lbs



635395-2

635193

SPECIFICATIONS

Inlet Size (Standard) . . . . . 1/2" NPT (F)
Inlet Size (Hi-Flow) . . . . . 3/4" NPT (F)
Flow Range (Standard) . . . . . 0.4 to 3 Gals/Min
Flow Range (Hi-Flow) . . . . . 0.4 to 10 Gals/Min

FLUID COMPATIBILITY

- Antifreeze Mixtures
- Automatic Transmission Fluid
- Gear Oil
- Hydraulic Oil
- Motor Oil
- Synthetic Oil

NON-METERED VALVES







	635392*	635193‡	635395-2‡
Type	Standard	Hi-Flow	Hi-Flow
Used On	3:1, 5:1 & 9:1 Pumps	1:1, 3:1 & 5:1 Pumps	9:1 Pumps
Description	Flexible Manual Non-Drip	Flexible Manual Non-Drip	Flexible Manual Non-Drip
Inlet	1/2"(F)	3/4"(F)	3/4"(F)
Tip Diameter	1/2"	1-1/8"	1-1/8"
Maximum PSI	1,000 PSI	600 PSI	900 PSI

* *Order optional colored swivel separately.*
‡ *ARO Hi-Flow non-metered valves do not include an inlet swivel. Order optional swivel (635108) separately, see page 59.*

HI-FLOW SWIVEL

	635108
Fluid Compatibility	Engine Oils & Antifreeze
Description	For Use on ARO Hi-Flow Non-Metered Valves
Inlet/Outlet	3/4"(M) x 3/4"(F)
Maximum PSI	1,000 PSI



635108

HI-FLOW/MEDIUM PRESSURE OIL NOZZLE

	TIM-48-S
Fluid Compatibility	Fluid Lubricants
Inlet	3/4" swivel (F)
Shut Off Style	Semi-Automatic
Working Flow Rate	20 GPM
Maximum PSI	1,450 PSI

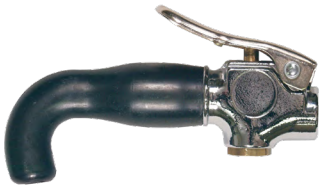


TIM-48-S

WATER & ANTIFREEZE BIBBS

Low volume dispensing valves for water or antifreeze.

	TIM-94-MI
Spout	Neoprene
Pressure Rating	300 PSI
Inlet	1/4"(F)



TIM-94-MI

SWIVEL GUARDS

Ideal for color coding products. Swivel guard helps protect cars from damage. Can be used on any ARO or American Lubrication oil control valve with a 1/2" swivel inlet.

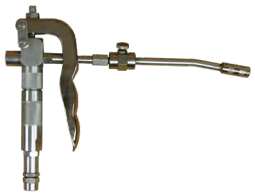


	TIM-720-BLU	TIM-720-YEL	TIM-720-BLK	TIM-720-GRN	TIM-720-RED
Color	Blue	Yellow	Black	Green	Red

STANDARD, BOOSTER & HI-FLOW CONTROL VALVES

ARO®



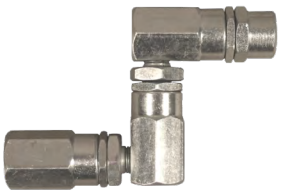




	TIM-794	TIM-795-1	636111
Inlet/Outlet	1/4"(F)	1/4"(F)	1/8"(M) & 3/8"(F)
Maximum Inlet PSI	7,500 PSI	7,500 PSI	7,500 PSI
Description	**Heavy-Duty Grease Control Valve** Includes whip hose and coupler.	**Heavy-Duty Booster Control Valve** Built-in trigger booster feature delivers up to 7,500 PSI to break loose tough fittings. Includes manual pressure vent for easy disconnect. Do not use with whip hose.	**ARO Heavy-Duty Grease Control Valve** Standard high-pressure grease control handle with inlet filter. Shipped with adapter to allow either 1/8"(M) or 3/8"(F) inlet. Maximum working 7,500 PSI.

GREASE SWIVELS & ACCESSORIES

	Type	Thread Size	Maximum PSI	Used On
TIM-111-1	Z-Swivel	1/4"(M) x 1/4"(F)	6,000 PSI	Existing Balcrank, Graco & American Lube Grease Systems
TIM-113	Z-Swivel	3/8"(F) x 1/4"(M)	6,000 PSI	3/8" ID Grease Hoses
TIM-115	Z-Swivel	1/8"(F) x 3/8"(F)	6,000 PSI	3/8" ID Grease Systems
TIM-116	Z-Swivel	1/8"(M) x 1/8"(F)	6,000 PSI	1/4" ID Grease Hoses
636088	Z-Swivel	3/8"(M) x 3/8"(F)	8,000 PSI	3/8" ID High-Volume Grease Systems
636075	Straight	1/8"(M) x 1/8"(F)	8,000 PSI	Grease Systems
636085	Straight	3/8"(M) x 3/8"(F)	8,000 PSI	Grease Systems



TIM-115



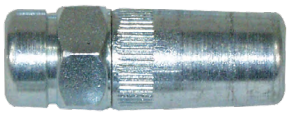
636088



636085

GREASE GUN COUPLERS





	TIM-100	TIM-101
Body	Narrow Diameter	Standard Diameter
Thread Size	1/8"(F)	1/8"(F)
Ball Check	Yes	Yes
Maximum PSI	10,000 PSI	10,000 PSI

GREASE WHIP HOSES

High pressure grease whip hoses can be connected to the outlet side of the rigid extension of a grease control valve to allow the service technician to access hard-to-reach fittings. These hose assemblies are constructed of two-wire braid hose and high pressure couplings giving them a working pressure of 5,000 PSI.
Do not use whip hoses with booster control valve (TIM-795-1).





	TIM-4360	TIM-4361
Thread Size	1/8"(M) x 1/8"(M)	1/8"(M) x 1/8"(M)
Hose Length	12"	18"
Connection Info	Order TIM-1230 adapter to connect to grease gun extension	Order TIM-1230 adapter to connect to grease gun extension

OIL BARS

Used as a dispensing option to reels, usually in conjunction with 5-quart measuring containers. Dispensing assembly now includes a custom splash-reduction adapter. Holes are pre-drilled in sides to facilitate the mounting of ready lights for use with fluid inventory control system. Available in single, double or triple spigot configurations. Units feature black powder-coated finish, non-drip spigots, flanged back for easy mounting, drip pan with bright zinc-plated grid and drain port. Shipped complete with mounting bracket and 30" connecting hose with 90° union adapter for easy connection to fluid line. All oil bars have the same dimensions: 23" H x 22" W x 15" D (above the drip pan). Metered units are equipped with TIM-615 digital quart meter.



TIM-3-A

SPIGOT REPAIR KIT

TIM-OILSPIGOT-KIT	**Spigot Repair Kit** Oil Bar (TIM-5-A2) and tapper spigot (TIM-724-1B) repair kit

	TIM-1-A	TIM-1A-DM	TIM-2-A	TIM-2A-DM	TIM-3-A	TIM-3A-DM
Number of Spigots	1	1	2	2	3	3
Metered or Non-Metered	Non-Metered	Metered	Non-Metered	Metered	Non-Metered	Metered



TIM-1-A

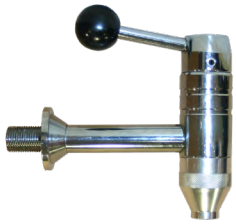


TIM-2-A



TIM-3A-DM

Oil Bar Accessories



TIM-5-A2

Oil Bar Spigot

Replacement spigot for oil bars. 1/2" NPT (M) threads.



TIM-6

Oil Bar Adapter Kit

Used to connect fluid dispensing system solenoid valve to oil bar. Use one (1) kit per outlet.



TIM-500-FV

Flow Control Valve

Used in the material line that supplies the oil bar to control and adjust the delivery rate and prevent splashing

Measuring Containers & Accessories



TIM-30-5A

6-Pack of 5-Quart Graduated Measuring Containers

Units include an easy-open hinged lid to help protect from contaminants. Color is transparent white for easy viewing of liquid level. Box contains six (6) units.



TIM-30-11A

Plastic Replacement Spout

For TIM-30-5A

TOUCHSCREEN DESIGN

State of the art touchscreen eliminates dated keypad design

TWO PRODUCT CAPABILITY

The 2003-P2 can dispense two products to 12 stations (6 stations per product)

EASY TO OPERATE

Touchscreen display prompts the user with operating instructions

PRODUCT NAME DISPLAY

Touchscreen can be set up to display any of 22 pre-programmed product descriptions with capability to add 5 additional products



PASSWORD PROTECTION

Programmable password protection prevents unauthorized use

EXTREMELY ACCURATE

Field calibrateable for the highest level of accuracy

CHANGEABLE UNIT OF MEASURE

Can be programmed in the field for Pints, Quarts, Gallons or Liters

WALL MOUNTABLE/COMPACT DESIGN

Touchscreen and expander/junction box include built-in wall mount feature for ease of installation. Wall mounted boxes take up less space and gets wiring out of the way of the user

PRINTER CAPABLE

Will work with any serial port printer. (Customer must purchase separately)

SPECIFICATIONS

System Capacity	Single Product, 1 to 12 Dispensing Points or 2 Products, 1 to 6 Dispensing Points Each
System Requirements	Properly Sized Thermal Relief Kit Required
Electrical Requirements	120 VAC, 60HZ
Pulse Meter	1,000 PSI Max, 1/2" NPT (F)
Fluid Solenoid	3,000 PSI Max, 1/2" NPT (F)
Wiring Requirements	22 Ga = <150'
	18 Ga = 151' - 250'
	16 Ga = 251' - 500'

FLUID COMPATIBILITY

- Antifreeze Mixtures
- Automatic Transmission Fluid
- Gear Oil
- Hydraulic Oil
- Motor Oil
- Synthetic Oil

2003

Fluid Inventory Control System

Includes touchscreen, expander/junction box, 14' connection cable (not shown), pulse meter, 1/2" fluid solenoid valve, ready light assembly, 1/2" union adapter and power supply. Handles one product to one dispensing point. Expandable to handle up to twelve dispensing points for one product by ordering additional TIM-2000-1 add-on station kits. Can be connected to an air solenoid safety kit (order separately). Touchscreen can be wall mounted using built-in mounting feature.

Requires either TIM-2000-4 or TIM-2000-4A pressure relief kit (order separately)



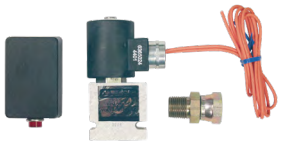
2003-P2	**Fluid Inventory Control System** For two product applications. Same as 2003 except with an additional pulse meter, fluid solenoid and ready light. Expandable up to six dispensing points per product by ordering additional TIM-2000-1 add-on station kits. *Requires either TIM-2000-4 or TIM-2000-4A pressure relief kit (order separately)*
2003-REP	**Fluid Inventory Control System** Includes touchscreen, expander/junction box, 14' connection cable (not shown) and power supply. Can be used to replace TIM-2002 Big ALEC IV.



2003-REP

ACCESSORIES

2003-14CAT	**14' Connector Cable** Used to connect the touchscreen to the expander/junction box.
TIM-2000-1	**Add-On Station Kit** For adding additional dispensing stations to the control console. Includes 3,000 PSI 1/2" fluid solenoid valve with inlet filter, 1/2" union adapter and ready light assembly.
TIM-2000-2	**1/4" Air Solenoid Safety Kit** For pumps with 1/4" air inlets. Shuts off air flow to the pump when fluid inventory control system is inactive. Helps prevent potential oil spills. Must be connected to expander/junction wiring box.
TIM-2000-2A1	**1/2" Air Solenoid Safety Kit** For pumps with 1/2" air inlets. Shuts off air flow to the pump when fluid inventory control system is inactive. Helps prevent potential oil spills. Must be connected to expander/junction wiring box.
TIM-2000-3A	**Wire Spool** 500' spool of 2-conductor 22-gauge wire
TIM-2000-4	**600 PSI Pressure Relief Kit** Relieves pressure build-up in the fluid line due to thermal expansion. Must be plumbed back to oil supply tank. Use on 3:1 and 5:1 pumps. *A pressure relief kit is required on all 2003 fluid inventory control systems*
TIM-2000-4A	**900 PSI Pressure Relief Kit** Relieves pressure build-up in the fluid line due to thermal expansion. Must be plumbed back to oil supply tank. Use on pumps with ratios above 5:1. *A pressure relief kit is required on all 2003 fluid inventory control systems*
TIM-2000-5	**Replacement Pulse Meter** 1,000 PSI maximum working pressure, 1/2" NPT (F) *Not for use with antifreeze.*
TIM-2000-6A	**1/2" Y-Strainer** Used for keeping contaminants out of the system.
TIM-365-5S	**Pulse Meter** 1,000 PSI maximum working pressure, 1/2" NPT (F). 40 pulse per gallon old style mechanical pulse meter for older Big ALEC and Little ALEC systems. Will also work on many competitive systems which use mechanical pulse meters. Handles antifreeze and antifreeze solutions as well as oils. *Should be used in place of standard pulse meter when pumping antifreeze*
TIM-6	**Oil Bar Adapter Kit** Used to connect fluid dispensing system solenoid valve to an oil bar. Use one kit per outlet.



TIM-2000-1



TIM-2000-2
TIM-2000-2A1



TIM-2000-3A



TIM-2000-4
TIM-2000-4A



TIM-2000-5



TIM-2000-6A



TIM-365-5S



TIM-6

SELF-EVACUATING WASTE OIL DRAINS

SELF-EVACUATING
Connect the house air supply directly to the preset regulator to evacuate the oil from the drain into any bulk waste oil storage tank

HEAVY-DUTY
Heavy-duty all-steel tank stands up to the harshest environments

LARGE CAPACITY
24-gallon capacity allows user to perform more oil changes before having to evacuate the unit

DRAIN BOWL
Metal drain bowl has built-in filter screen to prevent foreign matter from entering the drain

EXPANSION FUNNEL
Removable plastic drain bowl expansion funnel with built-in filter screen provides support for draining oil filters

DRAIN HOSE
Clear discharge hose with curved nozzle simplifies evacuation

BUILT-IN FLUID GAUGE
Allows operator see the oil level in the waste oil drain

SAFETY
Unit incorporates a tamper resistant air regulator with air gauge and a safety pop-off valve to prevent over pressurization

4-WHEEL SWIVEL DESIGN
Allows easy maneuverability, including on uneven surfaces

DRAIN PLUG
1" drain plug on the bottom of the unit for easy cleaning



TIM-317-A

TIM-317-A	**Self-Evacuating "Pumpless" Waste Oil Drain** Uses standard shop air set at 8 PSI to evacuate the drain into a waste oil holding tank. 24-gallon steel tank for use with used oils. Safety pop-off valve prevents over pressurization. Includes removable storage tray, built-in fluid gauge, 7' discharge hose with curved nozzle and manual shut-off valve, articulating 15-3/4" diameter metal drain bowl (TIM-317-37C) with oil filter draining screen and 24" removable plastic drain bowl expansion funnel (TIM-317-39). Stem adjusts 51" to 78". Powder-coated black paint. Assembly required. **Order 2608 air connector and 210 air coupler separately**
TIM-317-CAM	**Self-Evacuating "Pumpless" Waste Oil Drain** Uses standard shop air set at 8 PSI to evacuate the drain into a waste oil holding tank. 24-gallon steel tank for use with used oils. Safety pop-off valve prevents over pressurization. Includes removable storage tray, built-in fluid gauge, 6' discharge hose with camlock connector and manual shut-off valve, articulating 15-3/4" diameter metal drain bowl with oil filter draining screen and 24" removable plastic drain bowl expansion funnel. Stem adjusts 51" to 78". Powder-coated black paint. Assembly required. **This unit is designed to work in conjunction with TIM-CONV-CAM conversion hose kit and TIM-370-3M overfill alarm which must be ordered separately**
TIM-317-AAM	**Self-Evacuating Transmission Drain** Same as TIM-317 except equipped with steel transmission drain pan (TIM-317-PAN) instead of drain bowl. Collecting area of pan is 32" x 21-3/4".
TIM-CONV-CAM	**Hose Kit** Facilitates the connection between the TIM-317-CAM self-evacuating waste oil drain and the waste oil tank. The kit contains a 3/4" x 10' oil evacuation hose, 3/4" camlock coupler, air coupler, 1/4" x 12' recoil air hose (for connection to the TIM-370-3M overfill alarm) and a poster with operating instructions for the TIM-317-CAM drain.

24-Gallon Conventional Waste Oil Drain

HEAVY-DUTY
Heavy-duty all-steel tank stands up to the harshest environments

LARGE CAPACITY
24-gallon capacity allows user to perform more oil changes before having to evacuate the unit

DRAIN PAN
Metal drain bowl has built-in filter screen to prevent foreign matter from entering the drain

EXPANSION FUNNEL
Removable plastic drain bowl expansion funnel with built-in filter screen provides support for draining oil filters

BUILT-IN FLUID GAUGE
Allows operator see the oil level in the waste oil drain

4-WHEEL DESIGN
Allows easy maneuverability, including on uneven surfaces

DRAIN PLUG
1" drain plug on the bottom of the unit for easy cleaning



TIM-315-COMP2

TIM-315-COMP2	**Large Capacity Waste Oil Drain** 24-gallon (90 liter) steel waste oil drain for use with waste oil evacuation pumps. Holds 50% more waste oil than standard 16-gallon drum-mounted waste oil drains. Unit has an articulating 15-3/4" diameter metal drain bowl with an oil filter draining screen and a 24" removable plastic drain bowl expansion funnel. Single piece holding tank prevents oil leaks commonly associated with waste oil drains that use 16-gallon drums. Includes removable storage tray, built-in fluid gauge and 3/4" fluid quick disconnect (TIM-181). Designed to work with 612999-4 and 612999-5 waste oil evacuation systems. Stem adjusts 48-1/2" to 76". Powder-coated black paint. **Replaces TIM-315-A and TIM-315-1A waste oil drains** *Assembly required*

Labeling Kits

TIM-LABEL-KIT	**Antifreeze Label Kit** Includes four (4) 11" x 2" *Antifreeze Only* labels and one (1) 2" x 2" *Evacuate Drain Into Waste Antifreeze Tanks Only* labels. Ideal for use with TIM-317-A self-evacuating waste oil drains and TIM-315-COMP2 waste oil drains.
WASTE-LABEL-KIT	**Waste Oil Label Kit** Includes four (4) 11" x 2" *Waste Oil Only* labels and one (1) 2" x 2" *Evacuate Drain Into Waste Oil Tanks Only* labels. Ideal for use with TIM-317-A self-evacuating waste oil drains and TIM-315-COMP2 waste oil drains.



TIM-LABEL-KIT
(labels only, container not included)

SELF-EVACUATING WASTE OIL EXTRACTORS

SELF-EVACUATING
Connect the house air supply directly to the preset regulator to evacuate the oil from the drain into any bulk waste oil storage tank

LARGE CAPACITY
24-gallon capacity allows user to perform more oil changes before having to evacuate the unit

SUCTION WANDS
Variety of flexible wands and adapters included

VACUUM GAUGE
Robust gauge ensures peak performance

BUILT-IN FLUID GAUGE
Allows operator see the oil level in the waste oil drain

4-WHEEL SWIVEL DESIGN
Allows easy maneuverability, including on uneven surfaces

DRAIN PLUG
1" drain plug on the bottom of the unit for easy cleaning



TIM-341

TIM-340	**Self-Evacuating Waste Oil Extractor** 24-gallon waste oil extractor utilizes shop air to extract oil via suction probes directly into the units holding tank. Collecting waste oil can then be evacuated from the 24-gallon tank into larger waste oil tanks using shop air. Features an easy to read vacuum gauge for suction and safety pop-off valve to prevent over pressurization. Includes removable storage tray, built-in fluid gauge, 7' discharge hose, suction hose and 6-piece probe set. Power-coated black paint. Assembly required.
TIM-341	**Self-Evacuating Combo Waste Oil Extractor/Drain** 24-gallon combination waste oil extractor/drain utilizes shop air to extract oil via suction probes directly into the units holding tank as well as the traditional method of draining oil through the drain bowl into the tank. Collected waste oil can then be evacuated from the 24-gallon tank into larger waste oil tanks using shop air. Features include 15-3/4" articulating metal drain bowl with 24" plastic expansion funnel and oil filter draining screen, easy to read vacuum gauge for suction and safety pop-off valve to prevent over pressurization. Includes removable storage tray, built-in fluid gauge, 7' discharge hose, suction hose and 6-piece probe set. Power-coated black paint. Assembly required.



TIM-340

Polyethylene Drains



TIM-318

8-Gallon Waste Oil Drain

Drain has built-in handle, emptying spout and four (4) wheels for easy maneuvering. Oil level can be viewed through translucent body. Height adjusts from 48" to 65".



TIM-319

18-Gallon Waste Oil Drain

Drain has built-in handle, emptying spout, 2"(F) NPT opening with plug, gate valve for gravity draining and four (4) wheels for easy maneuvering. Oil level can be viewed through translucent body. Height adjusts from 55" to 73".

Low Profile Truck Drain



TIM-310*

20-Gallon Waste Oil & Antifreeze Drain

For truck maintenance facilities. Heavy-duty steel unit is powder-coated red. Drain has 5" diameter caster wheels, 38" long handle, 3/4"(M) drain connection and elbow. Designed to mate with 612999-4 or 612999-5 diaphragm pump evacuation system. 48" L x 31" W x 7-1/2" H.

* *Order TIM-181-N waste oil evacuation adapter kit separately*

Replacement Bowls

TIM-315-KIT	**15" Metal Replacement Bowl & Expansion Funnel for TIM-315 Series Drains**
TIM-316A-KIT	**15" Metal Replacement Bowl & Expansion Funnel for TIM-316 Series Drains**
TIM-315-BOWL	**15" Metal Replacement Bowl for TIM-315 Series Drains** Can be used with TIM-FUNNEL drain expansion funnel
TIM-316A-BOWL	**15" Metal Replacement Bowl for TIM-316 Series Drains** Can be used with TIM-FUNNEL drain expansion funnel
TIM-317-PAN	**Transmission Funnel** Steel construction with large collection area measuring 32" x 21-3/4". Adapts to drain model number TIM-317. For use in transmission shops.
TIM-317-37C	15.75" center mount replacement drain bowl for TIM-317-A or TIM-317-CAM waste oil drain
TIM-318-BOWL	**16" Replacement Bowl for TIM-318 & TIM-319 Drains**



TIM-316A-KIT



TIM-317-PAN

QUICK-LUBE PIT DRAIN

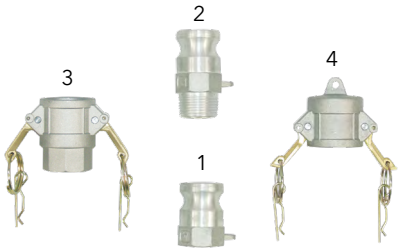


QL-308

35-Gallon Rolling Waste Oil Drain

For use in quick-lube facilities or truck maintenance shops. Heavy-duty steel unit is powder-coated yellow. Angled wheels provide easy drain movement and can be adjusted from 34" to 46". Drain bottom is sloped toward the two screened drain holes on the front and the rear of the unit. Drain holes are 1"(M). Drain includes pull handles on the front and rear of the unit, filter screen, and internal baffling. 31" L x 30-3/4" W x 11" H.

Order TIM-4675 camlock kit, TIM-1001-BV ball valve and TIM-4416-3 or TIM-4416-8 suction hose separately



TIM-4675

Waste Oil Adapter Kit

Allows TIM-308-B pit drain to be used in gravity drain or diaphragm pump evacuation systems. Includes 1"(M) camlock adapter (#2) with dust cap (#4) for pit drain, 1" camlock coupler (#3) for suction hose and 1" camlock adapter (#1) to be used as a suction hose hanger.

DIAPHRAGM PUMP WASTE OIL PACKAGES



612999-4*

Waste Oil Evacuation System

Includes 666100-362-C 1" diaphragm pump, TIM-461-A wall mount bracket, 612999-4H 1" pump inlet hose assembly, 628067-3 1" pump outlet hose assembly, P-39224-624 air line filter/regulator/gauge, AIR-HP1414-3 1/4" air line hose, TIM-180 fluid coupler and TIM-250-BV air valve



612999-5*

Includes 66605J-322 1/2" diaphragm pump, TIM-461-A wall mount bracket, 612999-5H 3/4" pump inlet hose assembly, TIM-4418-5 1/2" pump outlet hose assembly, P-39224-624 air line filter/regulator/gauge, AIR-HP1414-3 1/4" air line hose and TIM-180 fluid coupler

* *Only ARO pumps are covered by the ARO 5-Year Warranty, all other components are covered by standard American Lubrication warranty. For more warranty information, visit page 104.*

Differential Oil Evacuation Package



612999-6*

Portable 1/2" Evacuation System

1/2" differential oil evacuation package. Includes 1/2" ported diaphragm pump, tube brackets for hanging the unit from a pit-mounted waste oil drain, 6' fluid suction line, air filter/regulator with gauge and related tubing and fittings.

* *Only ARO pumps are covered by the ARO 5-Year Warranty, all other components are covered by standard American Lubrication warranty. For more warranty information, visit page 104.*

Waste Oil Tank Overfill Alarm



TIM-370-3M

Waste Oil Tank Overfill Alarm & Pump Shut-Off Assembly

Used to shut off the air supply to the pump when the tank approaches full capacity. When the unit shuts the air off to the pump, air is diverted to a whistle mounted on the unit to signal that the tank is full. The valve is automatically reset when the tank is empty and the air pressure is turned off. Mounts into a 2"(F) NPT tank opening. ULC listed under overfill protection devices, type B, for pressure fill applications. Air inlet/outlet 1/4"(F) NPT. 100 PSI maximum. Air flow capacity 20 CFM at 100 PSI.

WASTE OIL ACCESSORIES



TIM-2000-10

1" Y-Strainer

Includes 30 mesh screen. Installs on suction side of waste oil system to prevent contaminants from causing costly damage to the waste oil diaphragm pump.



TIM-WAND-1

Waste Oil Evacuation Wand

For TIM-319 waste oil drains. 22" metal tube is coupled to a TIM-181 fluid connector and strainer. Designed to mate with ARO 612999-4 or 612999-5 diaphragm pump evacuation systems.

1" DIAPHRAGM PUMP REVERSING VALVE

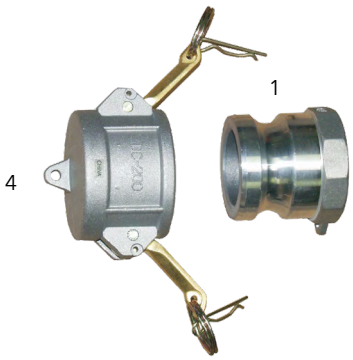


RV-1

Reversing Valve Assembly

Used in waste oil applications to reverse the flow direction of the diaphragm pump. Inlet and outlet threads are 1"(F). For use with any 1" diaphragm pump.

WASTE OIL TANK EVACUATION KIT

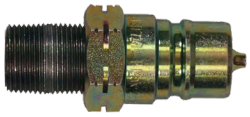


TIM-4676

Adapter Kit

Allows for easy evacuation of a waste oil tank. Includes TIM-4676-1 2"(F) camlock adapter (#1) and TIM-4676-4 2" camlock dust cap (#4). Adapter threads directly to a 2" contractor installed suction pipe running from ground level back to the waste oil tank.

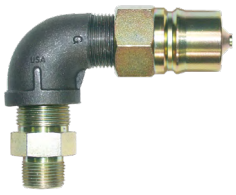
Fluid Connector Kits



TIM-181-N

Waste Oil Drain Adapter Kit

Use with TIM-310 truck drain. Enables drains to be used with ARO wall mount oil evacuation systems. Includes 3/4" fluid connector and 3/4" nipple.



TIM-181-G

Waste Oil Drain Adapter Kit

Allows American Lubrication drains to be used with existing Graco oil evacuation systems. Includes adapter, street elbow and 1" Graco compatible fluid connector.

Fluid Couplers & Connectors

Used in oil evacuation system for quick disconnect of diaphragm pump and suction discharge hoses.

Thread Size	Fluid Coupler	Fluid Connector	Maximum PSI
1/2"(F)	**TIM-178**	**TIM-179**	5,000 PSI
3/4"(F)	**TIM-180**	**TIM-181**	3,625 PSI
1"(F)	**TIM-182**	**TIM-183**	4,000 PSI



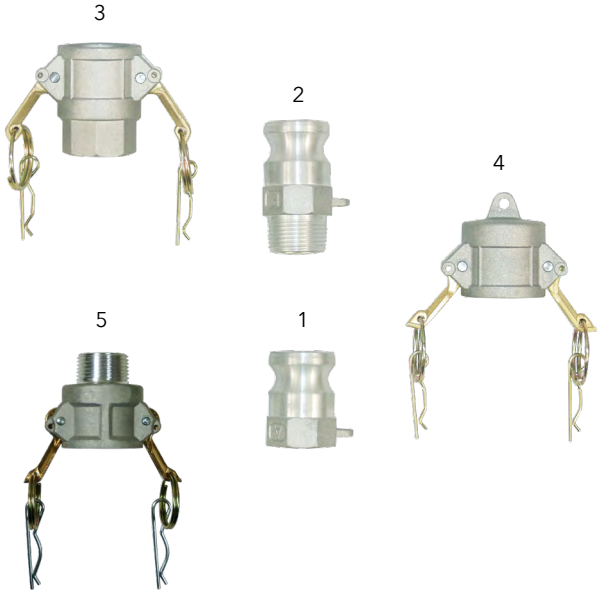
TIM-178



TIM-179

Camlocks & Connectors

TIM-4670-1	3/4" NPT (F) camlock adaptor
TIM-4670-2	3/4" NPT (M) camlock adaptor
TIM-4670-3	3/4" NPT (F) camlock coupler
TIM-4670-4	3/4" dust cap
TIM-4670-5	3/4" NPT (M) camlock coupler
TIM-4675-1	1" NPT (F) camlock adaptor
TIM-4675-2	1" NPT (M) camlock adaptor
TIM-4675-3	1" NPT (F) camlock coupler
TIM-4675-4	1" dust cap
TIM-4676-1	2" NPT (F) camlock adaptor
TIM-4676-2	2" NPT (M) camlock adaptor
TIM-4676-3	2" NPT (F) camlock coupler
TIM-4676-4	2" dust cap



TIM-4670

BULK OIL TANK PACKAGES

For over 99 years, American Lubrication Equipment Corporation has provided the best solutions for dispensing lubricants. Our pre-assembled tank packages are the most cost-effective way to dispense bulk lubricant in today's marketplace. Tank packages eliminate the expense associated with lubrication equipment installations. With no installation labor or piping costs, you will save hundreds—if not thousands—of dollars.

Our tank packages provide the quickest way to get a new customer up and running. Place an order today and it will leave our factory usually within 48 hours on a truck bound for the location of your choice. When it arrives, simply remove the protective packaging, connect the air hose and fill with oil. It's the fastest way to get your new customer up and running.

COST EFFECTIVE
Tank packages eliminate the installation expense associated with equipment installations

SIMPLE
Remove the protective packaging, connect the air hose, fill with oil, and your customer is up and running

FAST DELIVERY
Large inventory enables most packages to ship within 48 hours

MORE CHOICES
American Lubrication offers the broadest selection of tank packages on the market

PROTECTIVE PACKAGING
Tank packages are covered with custom protective packaging to help protect them from shipping damage

ENAMEL PAINT
All tank packages come standard with an enamel painted finish

UL 142 AND N.F.P.A. 30
All tanks are built to UL 142 and also meet the N.F.P.A. 30 specifications

FRESH AND WASTE OIL PACKAGES
American Lubrication offers single and double-wall packages for fresh oil systems and waste oil systems

48 hr — Most packages ship within 48 hours

UL — Tanks built to UL 142 specifications



275VDW-R23D



120BC-R23D



250-R25D



270VDW-R23DDT



165DW-R23D



500RVDW-RWO



275A-R23D

MAIN

APPLIES TO ALL PACKAGES

120B	120-Gallon Cube, White
120BC	120-Gallon Portable Bench (on casters)
120BDW	120-Gallon Double-Wall Bench
120BCDW	120-Gallon Portable Double-Wall Bench
150RVDW	150-Gallon Double-Wall Round
165	165-Gallon Bench
165DW	165-Gallon Double-Wall Bench
250	250-Gallon Bench
250DW	250-Gallon Double-Wall Bench
270RVDW	270-Gallon Double-Wall Round
275A	275-Gallon Horizontal Obround
275DW	275-Gallon Horizontal Obround Double-Wall
275AV	275-Gallon Vertical Obround
275VDW	275-Gallon Vertical Obround Double-Wall
C500	500-Gallon Cube
C500DW	500-Gallon Double-Wall Cube
500RV	500-Gallon Vertical Round
500RVDW	500-Gallon Vertical Double-Wall
525RND	525-Gallon Round Skid
525DW	525-Gallon Horizontal Double-Wall
525RDW*	525-Gallon Vertical Round Double-Wall
525RND*	525-Gallon Round Vertical

*** *Not a typical in stock item, might have to be special ordered.*

SUFFIX

PUMP, REEL & METER PACKAGES

	R13D	R13P	R23D	R23P
Pump	3:1 ARO	3:1 ARO	3:1 ARO	3:1 ARO
Oil Reel	1/2" x 25'	1/2" x 25'	1/2" x 50'	1/2" x 50'
Meter	Quart Digital Meter	Preset Digital Meter	Quart Digital Meter	Preset Digital Meter

	R15D	R15P	R25D	R25P
Pump	5:1 ARO	5:1 ARO	5:1 ARO	5:1 ARO
Oil Reel	1/2" x 25'	1/2" x 25'	1/2" x 50'	1/2" x 50'
Meter	Quart Digital Meter	Preset Digital Meter	Quart Digital Meter	Preset Digital Meter

TAPPER PUMP PACKAGES

	R33	R33D
Pump	3:1 ARO	3:1 ARO
Accessories	Tapper	Tapper
Meter	No	Digital Quart In-Line

WASTE OIL PACKAGES

	RWO	RWOA
Diaphragm Pump	1" ARO	1" ARO
Hose End	Non-Spill Coupler	Non-Spill Coupler
Overfill Alarm	No	TIM-370-3M

ORDERING INFORMATION

_____ – _____

Main Suffix

(Pick from charts above)

Example: To order a 275-gallon horizontal obround tank package with a 3:1 pump, 1/2" x 50' black Advantage Plus Series reel and digital meter you would go to the Main column and select "**275A**", and then go to the Suffix column and under "Pump, Reel & Meter Packages" select "**R23D**". The final model number would be "**275A-R23D**".

	Gallons	Length	Width	Height	Gauge
UL Bench (Single Wall)					
165B	170	33"	36"	37"	12
250B	249	60"	30"	36"	12
UL Bench (Double Wall)					
165BDW	170	45"	35"	37"	12
250BDW	249	69"	32"	36"	12
UL Obround Tanks - Vertical & Horizontal (Single Wall)					
275H	268	60"	27"	47"	12
275V	268	44"	27"	62"	12
UL Obround Tanks - Vertical & Horizontal (Double Wall)					
275HDW	268	61"	27"	47"	12
275VDW	265	45"	27-3/4"	62"	12
UL Cube (Single Wall)					
120B*	120	23"	34"	37.75"	12
120BC*	120	23"	34"	45"	12
500C	498	61"	34"	64"	10
UL Cube (Double Wall)					
120BDW*	120	34"	32"	40"	12
120BCDW*‡	120	34"	32"	40"	12
500CDW	499	72"	34"	64"	10
UL Round Tanks - Vertical & Horizontal (Single Wall)					
500RV	495	50"	50"	64"	12
525RH	525	46"	74"	46"	12
UL Round Tanks - Vertical & Horizontal (Double Wall)					
150RVDW	150	31"	31"	50"	12
270RVDW	264	36"	36"	60"	12
500RVDW	490	50"	50"	64"	12
525RHDW	525	46"	74"	46"	12

*All tanks on these sheets are painted with red enamel and are **U.L. 142**.*

* *120-Gallon tanks are painted white.*

‡ *Tank is mounted on casters.*

All dimensions shown reflect outside measurements including lips, reel brackets, and lifting lugs. These measurements may vary slightly.

All prices are FOB from shipping point, either Hunt Valley, MD or Anaheim, CA.

All tanks include a reel mount bracket.

Drawings available upon request.

***Warranty:** We are advised that each tank is tested by the manufacturer at the factory before shipment in accordance with applicable Underwriters Laboratories standards, NFPA 30, 30A, or 31, OSHA and Uniform Fire Code requirements. Damage may occur during shipment that is not apparent by visual inspection. National and state codes require testing at the job site by the installer BEFORE installation. Single-wall tanks should be pressurized to a maximum of 3 PSI while all welds are tested with a soap solution as stated in instructions on the tank. Double-wall tanks must be tested in accordance with Petroleum Equipment Institute recommended practice RP100 or RP200 or with the manufacturer's published procedures. Tanks must be installed in strict accordance with NFPA 30, NFPA 30A or NFPA 31.*

We assume no responsibility for damages, consequential or otherwise, resulting from defects in tanks or for damage to tanks occurring during shipment or installation. Manufacturers of these tanks generally limit their responsibility to repair or replacement of the tank for defects in workmanship or material. Any manufacturer's warranties will be passed through to the purchaser.

ROTH TANK PACKAGES

American Lubrication Equipment Corporation has partnered with Roth Tanks to offer double-wall lube tank packages. These packages are suitable for storing and dispensing engine oils, gear oils, transmission oils and hydraulic oils. Four different size tank packages are offered: 110-gallon, 165-gallon, 275-gallon and 400-gallon.



UNIQUE DOUBLE-WALL CONSTRUCTION The outer tank is made of leak-proof, weld-free galvanized steel and roll-seamed with an oil and fire-resistant seal. It can contain 110 percent of the capacity of the inner tank for maximum protection. The inner tank is made of blow-molded high-density, seamless polyethylene.

RUST RESISTANT Inner and outer wall will never rust or corrode

LEAK INDICATOR All Roth tanks are equipped with visible optical leak alarm

LIGHTWEIGHT Wide handles and lightweight design makes Roth tanks easy to move before filling with oil

WARRANTY Roth tanks carry a 30-year limited warranty from the manufacturer

	Gallons	Length	Width	Height	Weight
110-Gallon	110	29″	28″	44″	106 lbs
165-Gallon	165	29″	28″	61″	132 lbs
275-Gallon	275	43″	28″	61″	167 lbs
400-Gallon	400	64″	30″	72″	333 lbs

Oil Pump Packages

	Pump	Reel	Control Handle
110-RTDW-R23N	3:1	50′	Non-Metered
110-RTDW-R23D	3:1	50′	Digital
110-RTDW-R23P	3:1	50′	Preset Digital
110-RTDW-R25N	5:1	50′	Non-Metered
110-RTDW-R25D	5:1	50′	Digital
110-RTDW-R25P	5:1	50′	Preset Digital
110-RTDW-X3X	3:1	––	––
110-RTDW-X5X	5:1	––	––

	Pump	Reel	Control Handle
165-RTDW-R23N	3:1	50′	Non-Metered
165-RTDW-R23D	3:1	50′	Digital
165-RTDW-R23P	3:1	50′	Preset Digital
165-RTDW-R25N	5:1	50′	Non-Metered
165-RTDW-R25D	5:1	50′	Digital
165-RTDW-R25P	5:1	50′	Preset Digital
165-RTDW-X3X	3:1	––	––
165-RTDW-X5X	5:1	––	––

	Pump	Reel	Control Handle
275-RTDW-R23N	3:1	50′	Non-Metered
275-RTDW-R23D	3:1	50′	Digital
275-RTDW-R23P	3:1	50′	Preset Digital
275-RTDW-R25N	5:1	50′	Non-Metered
275-RTDW-R25D	5:1	50′	Digital
275-RTDW-R25P	5:1	50′	Preset Digital
275-RTDW-X3X	3:1	––	––
275-RTDW-X5X	5:1	––	––

	Pump	Reel	Control Handle
400-RTDW-R23N	3:1	50′	Non-Metered
400-RTDW-R23D	3:1	50′	Digital
400-RTDW-R23P	3:1	50′	Preset Digital
400-RTDW-R25N	5:1	50′	Non-Metered
400-RTDW-R25D	5:1	50′	Digital
400-RTDW-R25P	5:1	50′	Preset Digital
400-RTDW-X3X	3:1	––	––
400-RTDW-X5X	5:1	––	––

Tapper Pump Package

	Pump	Tapper & Drip Tray
110-RTDW-R33T	3:1	Included

Oil Bar Pump Package

	Pump	Single Spigot Oil Bar
165-RTDW-3BAR	3:1	Included
275-RTDW-3BAR	3:1	Included
400-RTDW-3BAR	3:1	Included



400-RTDW-R23D



165-RTDW-3BAR



275-RTDW-X3X

Antifreeze Pump/Reel/Meter Package

	Pump	Reel	Control Handle
110-RTDW-R212D	1/2″ Diaphragm Pump	50′	Digital
165-RTDW-R212D	1/2″ Diaphragm Pump	50′	Digital
275-RTDW-R212D	1/2″ Diaphragm Pump	50′	Digital
400-RTDW-R212D	1/2″ Diaphragm Pump	50′	Digital



275-RTDW-R212D



110-RTDW-R33T

These tank packages cannot be used for gasoline, windshield washer solvent or DEF.

Tank packages come un-assembled.

One set of tie downs is supplied with each tank package - required when reel is mounted on the tank

Tanks must be purchased with lubrication equipment.

Tanks are certified to UL SU2258 which includes combustible liquids addressed by the following material classes outlined in NFPA Standards 30, 30A and 31:
Class IIIA Liquid – any liquid that has a flash point at or above 140° F but below 200° F.
Class IIIB Liquid – any liquid that has a flash point at or above 200° F.

TOTE PUMPING SYSTEMS

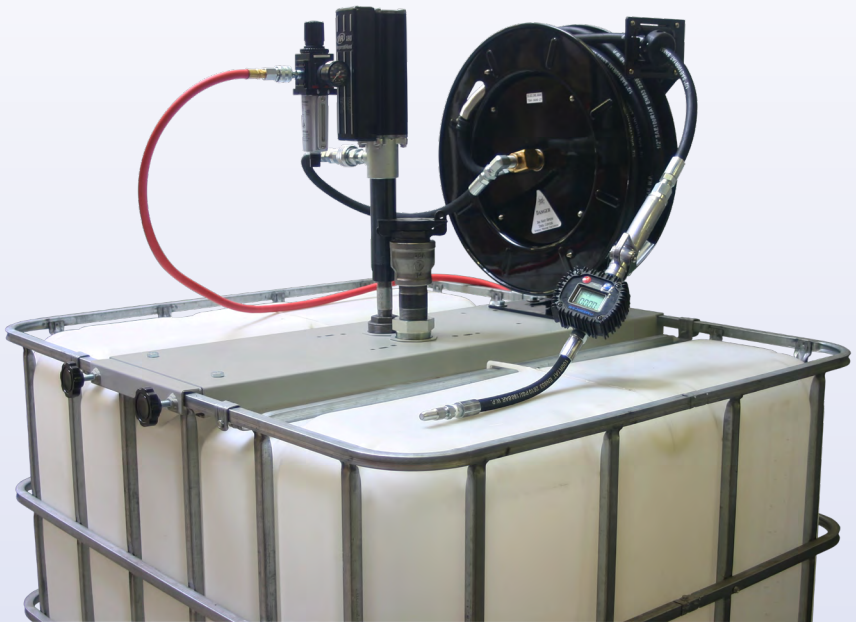
MOUNTING PLATE
Heavy-duty steel mounting plate

PRE-DRILLED
Pre-drilled holes for Advantage Series reels

BUNG ADAPTER
2" NPT bung adapter for pumps

FLEXIBILITY
Fits most totes

VERSATILE
Turns totes into a functional tank package



3:1 Pumps

	RPM-3-TM1	RPM-3-TM2	RPM-3-TM3
Pump	LM2203A-11-C	LM2203A-11-C	LM2203A-11-C
Mounting Bracket	TIM-464-A	TIM-464-A	TIM-464-A
Reel (50')	TIM-3628-50	TIM-3628-50	TIM-3628-50
Filter/Regulator/ Gauge	P-39224-624	P-39224-624	P-39224-624
Control Handle	TIM-601-FM	TIM-900B-1	TIM-762-TG
Oil Connecting Hose	TIM-4418-2NS	TIM-4418-2NS	TIM-4418-2NS
Filter/Regulator to Pump Adapter	TIM-212-1	TIM-212-1	TIM-212-1
Fluid Coupler	TIM-178	TIM-178	TIM-178
Fluid Connector	TIM-179	TIM-179	TIM-179
Air Connecting Hose	AIR-HP1414-5	AIR-HP1414-5	AIR-HP1414-5
Downtube	TIM-MTL75-33	TIM-MTL75-33	TIM-MTL75-33
Low Level Cutoff	TIM-196-C	TIM-196-C	TIM-196-C

5:1 Pumps

	RPM-5-TM1	RPM-5-TM2	RPM-5-TM3
Pump	LM2305A-11-B	LM2305A-11-B	LM2305A-11-B
Mounting Bracket	TIM-464-A	TIM-464-A	TIM-464-A
Reel (50')	TIM-3628-50	TIM-3628-50	TIM-3628-50
Filter/Regulator/ Gauge	P-39224-624	P-39224-624	P-39224-624
Control Handle	TIM-601-FM	TIM-900B-1	TIM-762-TG
Oil Connecting Hose	TIM-4418-2NS	TIM-4418-2NS	TIM-4418-2NS
Filter/Regulator to Pump Adapter	TIM-212-1	TIM-212-1	TIM-212-1
Fluid Coupler	TIM-178	TIM-178	TIM-178
Fluid Connector	TIM-179	TIM-179	TIM-179
Air Connecting Hose	AIR-HP1414-5	AIR-HP1414-5	AIR-HP1414-5
Downtube	TIM-MTL-35	TIM-MTL-35	TIM-MTL-35
Low Level Cutoff	TIM-166-LLC	TIM-166-LLC	TIM-166-LLC

Double-Tap Bushings

TIM-160	**Double-Tap Bushing** For mounting 5:1 or 9:1 stub pumps directly to an above-ground tank. Replaces bung adapter mounting. Extension tube of pump screws directly into the bottom of the bushing. Outside thread is 2"(M), inside thread is 1-1/2"(F) *When using with an ARO 5:1 Thunder pump order TIM-211 (1-1/2" x 3" nipple) separately*
TIM-164	**Double-Tap Bushing** For converting a 4"(F) threaded tank opening to 2"(F). Enables tank mounting of oil pumps via 2" bung adapter. Outside thread is 4"(M) and inside thread is 2"(F).
TIM-190	**Double-Tap Bushing** For converting a 3"(F) threaded tank opening to 2"(F). Enables tank mounting of oil pump via 2" bung adapter. Outside thread is 3"(M) and inside threadis 2"(F).
TIM-198	**Double-Tap Bushing** For mounting Thunder 3:1 stub pumps directly to an above-ground tank. Replaces bung adapter mounting. Extension tube of pump screws directly into the included 3/4" x 3" nipple. Outside thread is 2"(M), inside thread is 3/4"(F).



TIM-160



TIM-190

Fill Caps



TIM-FILL-CAP

2"(M) Vented Lockable Fill Cap

For above-ground tanks

Tank Vents

TIM-MUSH-VENT	**2"(F) Mushroom Vent** Order TIM-287 (2" close nipple) separately
TIM-VENT-2	**2" Emergency Vent** For use with bulk oil storage tanks
TIM-VENT-3	**3"(M) Emergency Vent** Designed for use with bulk oil storage tanks
TIM-VENT-4S	**4"(M) Emergency Vent** Slim design allows for use on both single and double-wall tanks
TIM-VENT-6	**6"(M) Emergency Vent** Design for use with bulk oil storage tanks



TIM-MUSH-VENT



TIM-VENT-3

3-1/2 Gallon AST Spill Container



TIM-SPILL-BOX3

Lockable Spill Container

Installed on above-ground tanks to contain small spills and drips from the fill nozzle. Removable screen allows for used filters to be drained. 2"(M) NPT riser connection. White powder-coated finish. 3-1/2 gallon capacity. ULC listed.

Tank Plugs

	TIM-PLUG-3/4	TIM-PLUG-1	TIM-PLUG-2	TIM-PLUG-3	TIM-PLUG-4	TIM-PLUG-6
Description	3/4" Tank Plug	1" Tank Plug	2" Tank Plug	3" Tank Plug	4" Tank Plug	6" Tank Plug
Material	Iron	Steel	Steel	Steel	Steel	Plastic

Leak Detection Site Glass



75-TA-INSP

Secondary Containment Site Glass

Brass site glass with 3/4"(M) thread to be installed in the inspection port of the secondary containment wall of either the 275VDW or 500RVDW tank to detect a primary compartment leak

Plastic Float & String Gauges

	Metered Units	Length	Tank Used On
TG-275H	Gallons	44"	275-Gallon Horizontal Obround
TG-32	Inches	32"	Workbench Tanks
TG-36	Inches	36"	165 & 250-Gallon Bench Tanks with 36" Interior Height
TG-44	Inches	44"	275-Gallon Horizontal Obround
TG-46	Inches	46"	525-Gallon Horizontal Round
TG-60	Inches	60"	275-Gallon Vertical Obround, 500-Gallon & Larger Cube Tanks
TG-72	Inches	72"	Tanks with 72" Interior Height



TG-32

Metal Float & String Gauges

	Metered Units	Length	Tank Used On
TIM-GG-44	Gallons	44"	275-Gallon Horizontal Obround
TIM-GG-60	Inches	60"	275-Gallon Vertical Obround, 500-Gallon Vertical Round & Larger Cube Tanks
TIM-GG-72	Inches	72"	Tanks with 72" Interior Height



TIM-GG-60

Plastic Float & String Gauges

	Metered Units	Length	Tank Used On
TIM-H2-32	8ths of a Tank	32"	165 & 250-Gallon Bench Tanks
TIM-D2-36	8ths of a Tank	36"	120-Gallon Bench Tanks
TIM-D2-44	8ths of a Tank	44"	275-Gallon Horizontal Obround
TIM-D2-48	8ths of a Tank	48"	525-Gallon Horizontal Round
TIM-H2-60	8ths of a Tank	60"	275-Gallon Vertical Obround, 500-Gallon & Larger Cube Tanks



TIM-H2-60

PIT DRAIN



QL-308

35-Gallon Rolling Waste Oil Drain

For use in quick-lube facilities or truck maintenance shops. Unit is powder-coated yellow. Angled wheels provide easy drain movement and can be adjusted from 35" to 47". Drain bottom is sloped toward the two screened drain holes on the front and the rear of the unit. Drain holes are 1"(M). Drain includes pull handles on the front and rear of the unit, filter screen, and internal baffling. Dimensions 31-1/4" L x 31" W x 11-1/4" H.

Order TIM-4675 camlock kit, TIM-1001-BV ball valve and TIM-4416-3 or TIM-4416-8 suction hose separately

STEP STOOL



QL-101

Step Stool

Durable lightweight aluminum construction features wide angled base with padded feet and molded non-slip surface for added safety. This stool weighs only 10 pounds. Dimensions 20-1/2" D x 20-1/2" W x 10-1/2" H.

Order QL-101-PAD replacement feet pads separately. Sold individually

AIR FILTERS

ARO®

	Thread Size	Series	Drain Type	Bowl Type	Air Flow
F-100	1/4"	ALEC	Automatic	Metal	20 CFM
F35121-421	1/4"	1000	Automatic	Metal	49 CFM
F35221-411	1/4"	1500	Automatic	Metal	73 CFM
F35231-411	3/8"	1500	Automatic	Metal	107 CFM
F35331-410	3/8"	2000	Manual	Metal	156 CFM
F35341-400	1/2"	2000	Manual	Polycarbonate	197 CFM
F35341-410	1/2"	2000	Manual	Metal	197 CFM
F35351-411	3/4"	2000	Automatic	Metal	216 CFM
F35451-410	3/4"	3000	Manual	Metal	288 CFM



F35341-400

AIR REGULATORS

	Thread Size	Series	Pressure Range	Gauge Included	Air Flow
R37121-100	1/4"	1000	0 to 140 PSI	No*	59 CFM
R37221-100	1/4"	1500	0 to 140 PSI	No*	86 CFM
R37221-200	1/4"	1500	0 to 140 PSI	No*	86 CFM
R-37221-600T	1/4"	1500	0 to 140 PSI	Yes	86 CFM
R37231-600	3/8"	1500	0 to 140 PSI	Yes	113 CFM
R37331-600	1/2"	2000	0 to 140 PSI	Yes	179 CFM
R37341-100	1/2"	2000	0 to 140 PSI	No*	215 CFM
R37341-600	1/2"	2000	0 to 140 PSI	Yes	215 CFM
R37351-100	3/4"	2000	0 to 140 PSI	No*	210 CFM



R37331-600

* *For gauge selection see page 85.*

AIR LUBRICATORS

	Thread Size	Series	Bowl Capacity	Bowl Type	Air Flow
L36121-100	1/4"	1000	0.7 oz.	Metal*	57 CFM
L36221-110	1/4"	1500	1.5 oz.	Metal*	51 CFM
L36331-110	3/8"	2000	1.5 oz.	Metal*	85 CFM
L36341-110	1/2"	2000	3.7 oz.	Metal*	156 CFM
L36351-110	3/4"	2000	10 oz.	Metal*	222 CFM



L36341-110

* *Metal bowl with sight gauge*

LUBRICATING OIL



29665

Lubricating Oil

ARO lubricating oil is recommended for use with pneumatic power tools, motors, valves, cylinders and hoists. It is specially formulated for use in air line lubricators. Proper, regular lubrication helps ensure longer, trouble-free operation by reducing wear; saves power and cuts equipment maintenance costs. ARO lubricating oil is available in 1-quart containers and may be ordered by specifying part number 29665 (one [1] 1-quart container).
NOTE: There are twelve (12) 1-quart containers per case. ***Viscosity***: 100-200 S.S.U. @ 100°F (38°C) minimum aniline point of 200°F (93°C) ***Class:*** II Lubricant. ***Approximate SAE No:*** Light SAE 10, non-detergent

AIR FILTER/REGULATOR & GAUGE ASSEMBLIES

	Thread Size	Series	Drain Type	Bowl Type	Air Flow
P39124-124*	1/4"	1000	Automatic	Metal	47 CFM
P-39124-624**	1/4"	1000	Automatic	Metal	47 CFM
P-39224-624**	1/4"	1500	Automatic	Metal	72 CFM
P39234-614	3/8"	1500	Automatic	Metal	90 CFM
P39344-614	1/2"	2000	Automatic	Metal	172 CFM
P39354-614	3/4"	2000	Automatic	Metal	173 CFM

* *Does not include gauge*
** *This item also available in a 25 or more bulk pricing*



P-39224-624

FILTER/REGULATOR/LUBRICATOR ASSEMBLIES

	Thread Size	Series	Drain Type	Bowl Type	Air Flow
C38121-801*	1/4"	1000	Automatic	Polycarbonate	46 CFM
C38221-810*	1/4"	1500	Manual	Metal	61 CFM
C38221-811*	1/4"	1500	Automatic	Metal	61 CFM
C38331-811*	3/8"	2000	Automatic	Metal	99 CFM
C38341-810*	1/2"	2000	Manual	Metal	150 CFM
C38351-811*	3/4"	2000	Automatic	Metal	171 CFM

* *All models include built-in air gauge and sight gauge*



C38351-811

AIR GAUGES

	TIM-220	TIM-221
Thread Size	1/8"(M)	1/4"(M)
Series Used On	1000, 1500 & ALEC	1500, 2000 & 3000
Porting	Back	Back
Gauge Range	0 to 160 PSI	0 to 160 PSI
Gauge Diameter	1.5"	2"



TIM-220

AIR SYSTEM PIPE NIPPLES

	TIM-212-1	Y-27-53C	Y-27-54C	Y-27-55C
Thread Size	1/4"(M) x (M)	3/8"(M) x (M)	1/2"(M) x (M)	3/4"(M) x (M)
Used On	1/4" Components	3/8" Components	1/2" Components	3/4" Components



Y-27-54C

ARO STYLE 1/4" CAPACITY – 210 SERIES

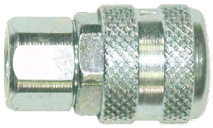
All couplers are "push-to-connect" providing automatic pin-type coupling. The average flow rate is 18 CFM at 90 PSI inlet pressure. Maximum inlet pressure is 250 PSI. Temperature range is -40°F to 200°F. Couplers and connectors within the 1/4" capacity 210 Series group are interchangeable.

Couplers

	Thread Size
210-212	1/4" NPT (M)
210	1/4" NPT (F)
210-25*	1/4" NPT (F)
210-100**	1/4" NPT (F)
210-300***	1/4" NPT (F)

Connectors

	Thread Size
2607	1/8" NPT (M)
210-212	1/4" NPT (M)
2608	1/4" NPT (M)
2608-25*	1/4" NPT (M)
2608-100**	1/4" NPT (M)
2609	1/4" NPT (F)
2609-25*	1/4" NPT (F)
2609-100**	1/4" NPT (F)
2609-300***	1/4" NPT (F)



210



2608

* *25 pack*
** *100 pack*
*** *300 pack*

MS SERIES 1/4" CAPACITY – INDUSTRIAL INTERCHANGE

All couplers are "push-to-connect" providing automatic pin-type coupling. The average flow rate is 36 CFM at 90 PSI inlet pressure. Maximum inlet pressure is 250 PSI. Temperature range is -40°F to 200°F. Couplers and connectors within the 1/4" capacity Industrial Interchange group are interchangeable.

Couplers

	Thread Size
MSCF22-000	1/4" NPT (F)
MSCF23-000	3/8" NPT (F)
MSCM22-000	1/4" NPT (M)

Connectors

	Thread Size
23902-210	1/4" NPT (M)
23902-200	1/4" NPT (F)



MSCF22-000



23902-210

HIGH FLOW SERIES 3/8" CAPACITY – INDUSTRIAL INTERCHANGE

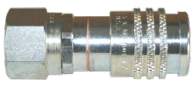
All couplers are "push-to-connect" providing automatic pin-type coupling. The average flow rate is 72 CFM at 90 PSI inlet pressure. Maximum inlet pressure is 250 PSI. Temperature range is -40°F to 200°F. Couplers and connectors within the 3/8" capacity High Flow Series Industrial Interchange group are interchangeable.

Couplers

	Thread Size
23103-300	3/8" NPT (F)
23103-004	1/2" NPT (F)

Connectors

	Thread Size
23903-300	3/8" NPT (F)
23903-310	3/8" NPT (F)
23903-410	1/2" NPT (M)



23103-004



23903-410

ARO-STOP® AUTOMATIC AIR SHUT-OFF

ARO

ARO-STOP® shut-off valves are designed to prevent pump "runaway". Pump runaway occurs when the material container is depleted, causing the pump to cycle fast and needlessly. The ARO-STOP® valve protects the pump by shutting off the air supply when the material container is empty or a fluid line on the outlet side of the pump is broken. Use with oil or grease pumps.





	635040	23644-400
Description	**ARO-STOP® Valve Kit** Includes 1/4" x 5' air hose, 1/4" ARO coupler and air connector. Maximum flow rate is 23 CFM at 90 PSI.	**ARO-STOP® Valve** Shuts off air to pump when material container is empty or fluid line is broken. Air inlet and outlet 1/2"(F).
Air Inlet/Outlet	1/4"(F)	1/2"(F)
Used On	Series 200 Pumps, All Thunder Pumps, 1/2" Diaphragm Pumps	AFX Series Pumps, 1" Diaphragm Pumps

AIR CONTROL BOX

TIM-AIR-BOX	**Air Control Box** For controlling the air to a pump or pumps from a remote location. Unit includes key switch and indicator light. Unit requires the use of an air solenoid valve and wire. 110 VAC input voltage.
TIM-2000-2	**1/4" Air Solenoid Safety Kit** For pumps with 1/4" air inlets. Shuts off air flow to the pump when connected to the air control box (TIM-AIR-BOX). Helps prevent potential oil spills.
TIM-2000-2A1	**1/2" Air Solenoid Safety Kit** For pumps with 1/2" air inlets. Shuts off air flow to the pump when connected to the air control box (TIM-AIR-BOX). Helps prevent potential oil spills.
TIM-2000-3A	**Wire Spool** 500' spool of 2-conductor 22-gauge wire
TIM-2000-3B	**Wire Spool** 500' spool of 4-conductor 22-gauge wire
TIM-2000-3C	**Wire Spool** 500' spool of 8-conductor 22-gauge wire
TIM-2000-3D	**Wire Spool** 500' spool of 12-conductor 22-gauge wire



TIM-AIR-BOX

TIRE INFLATION GAUGES & AIR CHUCKS







	TIM-88	TIM-89	TIM-90
Inlet	1/4"(F) NPT	1/4"(F) NPT	1/4"(F) NPT
Description	**Bayonet Tire Inflater Gauge** With dual head	**Deluxe Tire Inflater Gauge** "Squeeze" trigger assembly simplifies tire filling. Unit has bleeder valve to allow quick adjustments for over pressurized tires, air gauge with protective cover, dual-head chuck and 12" hose. Pop-up gauge registers 0 to 140 PSI.	**Dual Head Air Chuck** For car and truck tires

LOW & MEDIUM PRESSURE SHUT-OFF VALVES

	TIM-250-BV	TIM-500-600	TIM-502-BV
Inlet/Outlet	1/4"(F)	1/2"(F)	1/2"(F)
Working Pressure	400 PSI	600 PSI	2,000 PSI



TIM-250-BV

	TIM-752-BV	TIM-1001-BV	TIM-1501-BV
Inlet/Outlet	3/4"(F)	1"(F)	1-1/2"(F)
Working Pressure	2,000 PSI	600 PSI	600 PSI



TIM-1001-BV

HIGH PRESSURE SHUT-OFF VALVES

High pressure carbon steel in-line needle valves for high pressure grease applications.



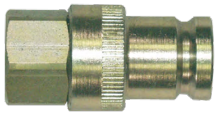


	TIM-500-HP1	TIM-500-HP2
Inlet/Outlet	1/2"(F) x 1/2"(F)	1/2"(M) x 1/2"(F)
Working Pressure	8,000 PSI	8,000 PSI

HIGH PRESSURE COUPLER & CONNECTOR

Ideal for high pressure grease applications. Used in lube truck applications for removing and storing the grease control handles. 10,000 PSI working pressure.

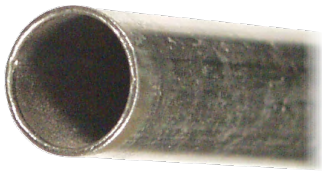




	TIM-192	TIM-193
Thread Size	3/8"(F)	3/8"(F)
Type	Fluid Coupler	Fluid Connector

Seamless Steel Tubing

5/8" O.D. seamless steel tubing for oil and grease applications. Tubing comes in 20' lengths. Tubing styles can be combined to reach the 1,000' minimum purchase quantity.



TIM-035-S



TIM-083-S

	TIM-035-100	TIM-035-1000
Application	Oil	Oil
Wall Thickness	0.035"	0.035"
Quantity	100'	1,000'

	TIM-083-100	TIM-083-1000
Application	Grease	Grease
Wall Thickness	0.083"	0.083"
Quantity	100'	1,000'

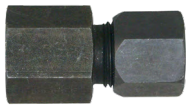
Steel Tubing Connectors

5,000 PSI (4:1 safety factor) 5/8" O.D. steel tubing compression fittings. May be used for either oil or grease.



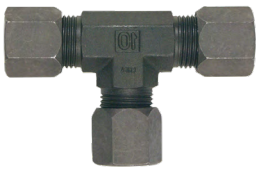






	SDB-10-TIM	SEB-10-TIM	SFB-10-TIM	SGB-10-TIM
Description	1/2"(F) x Tube	Tube x Tube	1/2"(M) x Tube	1/2"(F) x Tube
Type	90° Elbow	90° Elbow	Straight	Straight







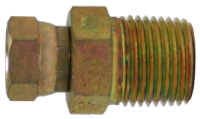


	SHB-10-TIM	SJB-10-TIM	SMB-10-TIM	SOB-10-TIM
Description	Tube x Tube	Tube x Tube x Tube	Tube x 1/2"(M) x Tube	Tube x 1/2"(F) x Tube
Type	Straight	Tee	Tee	Tee

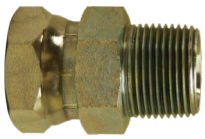
STRAIGHT (M) X (F) UNION ADAPTERS

	(M) x (F)	Max. PSI
TIM-1404-22	1/8" x 1/8"	10,000 PSI
TIM-1404-42	1/4"x 1/8"	10,000 PSI
TIM-1404-44	1/4"x 1/4"	10,000 PSI
TIM-1404-46	1/4"x 3/8"	7,000 PSI
TIM-1404-64	3/8"x 1/4"	7,000 PSI
TIM-1404-66	3/8"x 3/8"	7,000 PSI
TIM-1404-68	3/8"x 1/2"	7,000 PSI
TIM-1404-84	1/2"x 1/4"	7,000 PSI

	(M) x (F)	Max. PSI
TIM-1404-86	1/2"x 3/8"	7,000 PSI
TIM-1404-88	1/2"x 1/2"	7,000 PSI
TIM-1404-128	3/4"x 1/2"	5,500 PSI
TIM-1404-812	1/2"x 3/4"	5,500 PSI
TIM-1404-1212	3/4"x 3/4"	5,500 PSI
TIM-1404-1216	3/4"x 1"	4,000 PSI
TIM-1404-1612	1"x 3/4"	4,000 PSI
TIM-1404-1616	1"x 1"	4,000 PSI



TIM-1404-84



TIM-1404-1212

90° (M) X (F) UNION ADAPTERS

	(M) x (F)	Max. PSI
TIM-1501-44	1/4"x 1/4"	10,000 PSI
TIM-1501-66	3/8" x 3/8"	7,000 PSI
TIM-1501-86	1/2"x 3/8"	7,000 PSI

	(M) x (F)	Max. PSI
TIM-1501-88	1/2"x 1/2"	7,000 PSI
Y-43-4C*	1/2"x 1/2"	3,000 PSI
TIM-1501-1212	3/4" x 3/4"	5,500 PSI

* *Non-swivel*

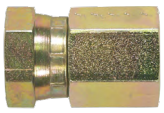


TIM-1501-88

STRAIGHT (F) X (F) UNION ADAPTERS

	(F) x (F)	Max. PSI
TIM-1405-44	1/4" x 1/4"	10,000 PSI
TIM-1405-64	3/8" x 1/4"	7,000 PSI
TIM-1405-86	1/2" x 3/8"	7,000 PSI
TIM-1405-88	1/2" x 1/2"	7,000 PSI

	(F) x (F)	Max. PSI
TIM-1405-128	3/4" x 1/2"	5,500 PSI
TIM-1405-1212	3/4" x 3/4"	5,500 PSI
TIM-1405-1616	1" x 1"	4,000 PSI

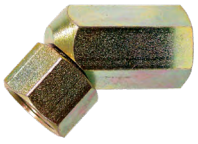


TIM-1405-88

45° (F) X (F) UNION ADAPTERS

	(F) x (F)	Max. PSI
TIM-1504-44	1/4" x 1/4"	10,000 PSI
TIM-1504-66	3/8" x 3/8"	7,000 PSI

	(F) x (F)	Max. PSI
TIM-1504-88	1/2" x 1/2"	4,000 PSI



TIM-1504-88

(M) x (M) ADAPTERS

	(M) x (M)	Max. PSI
TIM-1200-1	1/8" x 1/8"	10,000 PSI
TIM-1201-1	1/8" x 1/4"	10,000 PSI
TIM-1202-1	1/8" x 3/8"	7,000 PSI
TIM-1209	1/4" x 1/2"-27	5,000 PSI
TIM-212-1	1/4" x 1/4"	10,000 PSI
TIM-1204-1	1/4" x 1/2"	7,000 PSI

	(M) x (M)	Max. PSI
TIM-1205-1	3/8" x 3/8"	7,000 PSI
TIM-1206-1	3/8" x 1/2"	7,000 PSI
Y-27-54C	1/2" x 1/2"	7,000 PSI
TIM-1208-1	1/2" x 3/4"	5,500 PSI
TIM-1210-1	3/4" x 1"	4,000 PSI



TIM-1201-1

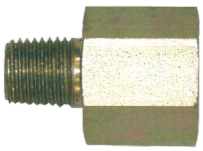


TIM-212-1

(M) x (F) ADAPTERS

	(M) x (F)	Max. PSI
TIM-1220	1/8" x 1/4"	10,000 PSI
TIM-1221	1/8" x 3/8"	7,000 PSI
TIM-1222	1/8" x 1/2"	7,000 PSI
TIM-1223	1/4" x 3/8"	7,000 PSI

	(M) x (F)	Max. PSI
TIM-1225	3/8" x 1/2"	7,000 PSI
TIM-1226	1/2" x 3/4"	5,500 PSI
TIM-1227	1/4" x 1/2"	7,000 PSI

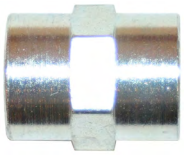


TIM-1223

(F) x (F) ADAPTERS

	(F) x (F)	Max. PSI
TIM-1230	1/8" x 1/8"	10,000 PSI
TIM-1260	1/8" x 1/2"-27	5,000 PSI

	(F) x (F)	Max. PSI
TIM-1263	1/2" x 1/2"	3,000 PSI

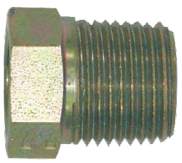


TIM-1263

REDUCING BUSHINGS

	(M) x (F)	Max. PSI
TIM-1240	1/4" x 1/8"	10,000 PSI
TIM-1241	3/8" x 1/8"	7,000 PSI
TIM-1242	3/8" x 1/4"	7,000 PSI

	(M) x (F)	Max. PSI
TIM-1243	1/2" x 1/8"	7,000 PSI
TIM-1244	1/2" x 1/4"	7,000 PSI
TIM-1245	1/2" x 3/8"	7,000 PSI



TIM-1245

Air & Water Connecting Hoses for Pumps & Reels

	Hose ID	Thread Size	Hybrid Polymer Hose	Maximum PSI	Available Length (Feet)	For Use On
AIR-HP1414-____*	3/8"	1/4"(M) x 1/4"(M)	Yes	300 PSI	3, 5, 10	1/4" Air Connecting Hoses for Thunder Pumps, 1/2" & 1"
AIR-HP3812-2Z	3/8"	3/8"(M) x 1/2"(M)	Yes	300 PSI	2	3/8" Air/Water Reels
AIR-HP3838-____*	3/8"	3/8"(M) x 3/8"(M)	Yes	300 PSI	2, 4	3/8" Air/Water Reels
TIM-4218-2N	1/2"	1/2"(M) x 1/2"-90° Swivel (M)	No	300 PSI	2	1/2" Air/Water Reels
TIM-4218-4NS	1/2"	1/2"(M) x 1/2"-90° Swivel (M)	No	300 PSI	4	1/2" Air/Water Reels
TIM-4258-5	1/2"	1/2"(M) x 1/2"(M)	No	300 PSI	5	1/2" Air Connecting Hose for AFX Series Pumps

* *Add length of hose to the model number as the suffix.* ***For example:*** *AIR-HP1414-5 is a 1/4" I.D. hose with 1/4"(M) ends by 5' long.*

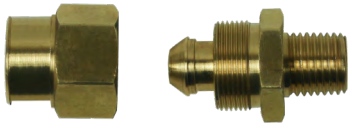
Air & Water Delivery Hoses for Consoles & Reels

	Hose ID	Thread Size	Hybrid Polymer Hose	Maximum PSI	Available Length (Feet)	For Use On
AIR-HP1414-15	3/8"	1/4"(M) x 1/4"(M)	Yes	300 PSI	15	Lube Consoles
AIR-HP3800-250	3/8"	Not Coupled	Yes	300 PSI	250' Spool	Air/Water Reels
AIR-HP3800-____*	3/8"	Not Coupled	Yes	300 PSI	250' Spool (can be cut to any length - call for pricing)	Air/Water Reels
AIR-HP3838-____*	3/8"	3/8"(M) x 3/8"(M)	Yes	300 PSI	50, 65	3/8" Air/Water Reels
TIM-4208-____*	1/2"	1/2"(M) x 1/2"(M)	No	300 PSI	50, 65, 75, 100	1/2" Air/Water Reels

* *Add length of hose to the model number as the suffix.* ***For example:*** *AIR-HP3838-50 is a 3/8" I.D. hose with 3/8"(M) ends by 50' long.*

Reusable Fittings for Air/Water Hose

	Thread Size	For Use On
AIR-RF3800-12	1/2"(M)	Non-Coupled 3/8" Hybrid Polymer Air Hose
AIR-RF3800-14	1/4"(M)	Non-Coupled 3/8" Hybrid Polymer Air Hose
AIR-RF3800-38	3/8"(M)	Non-Coupled 3/8" Hybrid Polymer Air Hose



AIR-RF3800-14

Oil Connecting Hoses for Pumps & Reels

	Hose ID	Thread Size	Maximum PSI	Available Length (Feet)	For Use On
TIM-4418-____*	1/2"	1/2"(M) x 1/2" 90° Swivel (M)	2,000 PSI	2NS, 2.5NS, 4NS	1/2" Oil Reels
TIM-4418-____*	1/2"	1/2"(M) x 1/2" Swivel (M)	2,000 PSI	4S, 5S, 6S, 8S	1/2" Oil Reels
TIM-4412-____*	3/4"	3/4"(M) x 3/4"(M)	1,250 PSI	3, 5	3/4" Oil Reels
TIM-4416-____*	1"	1"(M) x 1"(M)	1,000 PSI	3, 5, 8, 10	1" Oil Reels
624601-4	3/4"	3/4"(M) x 3/4"(M)	2,250 PSI	4	Oil Connecting Hose for AFX Series Pumps
628067-3	1"	1"NPT x 1"NPT	800 PSI	3	Waste Oil Evacuation System (612999-4)

* *Add length of hose to the model number as the suffix.* ***For example:*** *TIM-4418-5S is a 1/2" I.D. hose with 1/2"(M) ends by 5' long.*

Oil Delivery Hoses for Consoles & Reels

	Hose ID	Thread Size	Maximum PSI	Available Length (Feet)	For Use On
TIM-4418-____*	1/2"	1/2"(M) x 1/2"(M)	2,000 PSI	12, 15, 18, 40	1/2" Oil Reels & Quick-Lube Consoles
TIM-4418-____*	1/2"	1/2"(M) x 1/2" Swivel (M)	2,000 PSI	10S, 16S, 18S, 20S, 25S, 30S, 50S, 65S, 75S, 100S	1/2" Oil Reels & Quick-Lube Consoles
TIM-4412-____*	3/4"	3/4"(M) x 3/4"(M)	1,250 PSI	15, 30, 50	3/4" Oil Reels
TIM-4416-____*	1"	1"(M) x 1"(M)	1,000 PSI	15, 30, 50	1" Oil Reels

* *Add length of hose to the model number as the suffix.* ***For example:*** *TIM-4418-10 is a 1/2" I.D. hose with 1/2"(M) ends by 10' long.*

Grease Connecting Hoses for Pumps & Reels

	Hose ID	Thread Sizes	Maximum PSI	Available Length (Feet)	For Use On
TIM-4516-2N	3/8"	3/8"(M) x 3/8"-90° Swivel (M)	4,000 PSI	2	3/8" Grease Reels
TIM-4516-4NS	3/8"	3/8"(M) x 3/8"-90° Swivel (M)	4,000 PSI	4	3/8" Grease Reels
TIM-4516-____*	3/8"	3/8"(M) x 3/8"(M)	4,000 PSI	2, 4, 8	ARO Grease Pumps & 3/8" Grease Reels

* *Add length of hose to the model number as the suffix.* ***For example:*** *TIM-4516-8 is a 3/8" I.D. hose with 3/8"(M) ends by 8' long.*

Grease Delivery Hoses for Consoles & Reels

	Hose ID	Thread Sizes	Maximum PSI	Available Length (Feet)	For Use On
TIM-4513-5	1/4"	1/8"(M) x 1/8"(M)	5,000 PSI	5	TIM-83-KM Pump
TIM-4514-2	1/4"	1/4"(M) x 1/4"(M)	4,000 PSI	2	Portable Grease Pumps
TIM-4514-____*	1/4"	3/8"(M) x 1/4"(M)	4,000 PSI	10, 20, 30	Portable Grease Pumps
TIM-4517-14	1/4"	1/8"(F) x 1/8"(M)	5,000 PSI	14	Quick-Lube Consoles
TIM-4524-____*	1/4"	1/8"(F) x 1/8"(F)	5,000 PSI	2, 6, 10, 12, 15, 20, 25, 30	ARO Grease Pumps
TIM-4506-____*	3/8"	3/8"(M) x 3/8"(M)	4,000 PSI	15, 25S, 30F, 50S, 65S, 75S, 100	3/8" Grease Reels

* *Add length of hose to the model number as the suffix.* ***For example:*** *TIM-4506-50S is a 3/8" I.D. hose with 3/8"(M) ends by 50' long.*

HAND-OPERATED GREASE GUNS



4110

Deluxe Heavy-Duty Grease Gun

10,000 PSI rated. Aluminum head. Delivers 1 ounce in 23 strokes, 3-way loader capability (loader fitting included). Full pressure on variable or short strokes for controlled grease output and easy operation in tight quarters. Takes standard 14-1/2 ounce cartridge and has a 16 ounce bulk fill capacity. Gun comes with rugged plastic handle grip, loader fitting, air release valve, hydraulic coupler with ball check and rigid extension. Packaged in a 4-color POP box. Compare to Alemite 500.

For case quantities order part number 4110-10



4111

Deluxe Heavy-Duty Grease Gun with 18" Hose

Same as 4110 but also includes TIM-4321 18" rubber flex hose. Packaged in a 4-color POP box. Compare to Alemite 500E.

For case quantities order part number 4111-10



4120

Industrial Hi-Flow Heavy-Duty Grease Gun

Generates 10,000 PSI, cast aluminum pump head. Delivers 1 ounce in 9 strokes twice the volume per stroke when compared to the best variable stroke guns, 3-way loader capability (loader fitting included). Full pressure on variable or short strokes for controlled grease output and easy operation in tight quarters. Comes with rugged plastic handle grip, loader fitting, air release valve, heavy-duty hydraulic coupler with ball check and rigid extension.

For case quantities order part number 4120-10



4127

Suction Gun

Suction gun with 11" vinyl hose. Low friction O-ring for positive sealing. Pumps approximately 1 pint of non-corrosive liquid per stroke.

For case quantities order part number 4127-10



4130

Deluxe Heavy-Duty Pistol Grip Grease Gun

6,000 PSI rated. Gun features unique 2-outlet port design which allows the hose or rigid extension to be mounted on the side or the top of the grease gun head. Aluminum head, 3-way loader capability (loader fitting included). Takes standard 14-1/2 ounce cartridge and has a 16 ounce bulk fill capacity. Gun comes with loader fitting, air release valve, hydraulic coupler with ball check and rigid extension. Packaged in a 4-color POP box. Compare to Alemite 525 & Lincoln 1132.

For case quantities order part number 4130-10



4131

Deluxe Heavy-Duty Pistol Grip Grease Gun with 18" Hose

Same as 4130 but also includes TIM-4321 18" rubber flex hose. Packaged in a 4-color POP box. Compare to Alemite 550 & Lincoln 1133.

For case quantities order part number 4131-10

Hand Grease Gun Whip Hoses

TIM-4320*	**12" Whip Hose** 12" rubber flex hose. Coupled 1/8" NPT (M). 3,000 PSI maximum working pressure.
TIM-4320-S*	**12" Whip Hose** 12" flex hose. Coupled 1/8" NPT (M). Comes in clear clamshell display board packaging. 3,000 PSI maximum working pressure.
TIM-4320-TP*	**12" Whip Hose** 12" standard duty thermoplastic hose for hand-operated grease guns. Coupled 1/8" NPT (M). 3,000 PSI maximum working pressure.
TIM-4321*	**18" Whip Hose** 18" rubber flex hose. Coupled 1/8" NPT (M). 3,000 PSI maximum working pressure.
TIM-4321-S*	**18" Whip Hose** 18" rubber hose. Coupled 1/8" NPT (M). Comes in clear clamshell display board packaging. 3,000 PSI maximum working pressure.
TIM-4321-TP*	**18" Whip Hose** 18" standard duty thermoplastic hose for hand-operated grease guns. Coupled 1/8" NPT (M). 3,000 PSI maximum working pressure.
TIM-4322*	**24" Whip Hose** 24" rubber flex hose. Coupled 1/8" NPT (M). 3,000 PSI maximum working pressure.
TIM-4323*	**36" Whip Hose** 36" rubber flex hose. Coupled 1/8" NPT (M). 3,000 PSI maximum working pressure.



TIM-4320

* ***WARNING:*** ***For use on hand grease guns only.*** *Do not use with air operated equipment. 3,000 PSI maximum working pressure.*

Hand Grease Gun Whip Hose Assemblies

TIM-4340*	**12" Whip Hose Assembly with Narrow Diameter Coupler (TIM-100)** Coupled 1/8" NPT (M). 3,000 PSI maximum working pressure.
TIM-4341*	**18" Whip Hose Assembly with Narrow Diameter Coupler (TIM-100)** Coupled 1/8" NPT (M). 3,000 PSI maximum working pressure.
TIM-4342*	**12" Whip Hose Assembly with Standard Diameter Coupler (TIM-101)** Coupled 1/8" NPT (M). 3,000 PSI maximum working pressure.
TIM-4343*	**18" Whip Hose Assembly with Standard Diameter Coupler (TIM-101)** Coupled 1/8" NPT (M). 3,000 PSI maximum working pressure.



TIM-4340

* ***WARNING:*** ***For use on hand grease guns only.*** *Do not use with air operated equipment. 3,000 PSI maximum working pressure.*

Grease Gun Loader Fitting

Used on the grease gun head for bulk loading applications using a grease filler pump. Standard 1/8" NPT (M).



TIM-24

Filler Nipple

Compatible with Lincoln style filler pumps

Hydraulic & Buttonhead Grease Couplers









	TIM-100*	TIM-101*	TIM-106	TIM-107
Size	Narrow Diameter	Standard Diameter	Standard Buttonhead	Giant Buttonhead
Thread Size	1/8"(F)	1/8"(F)	1/8"(F)	1/8"(F)
Type	Ball Check	Ball Check	Pull On	Pull On
Maximum PSI	10,000 PSI	20,000 PSI	4,000 PS1	4,000 PSI

* *These couplers available in 25, 50 and 200 count packs*

Hydraulic Grease Adapters



TIM-124*

360° Adjustable-Angle Standard Diameter Coupler

Locks in place at 60° increments. Inlet thread 1/8" NPT (F). Overall length 3". 7,000 PSI maximum working pressure.



TIM-126-1*

High-Pressure Needle Point Grease Adapter

Connects to grease coupler via included locking sleeve adapter. Overall length 5-1/2". 10,000 PSI maximum working pressure.



4412*

"Push-On" Grease Fitting Adapter

Allows for easy greasing of standard grease fittings where access is limited or in low-height areas. Connects to grease coupler via included locking sleeve adapter.

* ***WARNING:*** *For use on hand-operated grease guns only*

GREASE FITTINGS

American Lubrication fittings are sold in clamshell display packs of 10 pieces and bags of 100 pieces. American Lubrication has one of the largest standing inventories of U.S. thread, metric thread, thread-forming, drive and stainless steel grease fittings. Our extensive offering of fittings covers virtually every automotive, agricultural, industrial, marine and lawn and garden application.

For fittings not listed please call American Lubrication.

1/8" PTF GREASE FITTINGS



	18-001*	18-002	18-003*	18-004*	18-030*	18-045*	18-065*	18-090*
Type	Straight	Straight	Straight	Straight	30°	45°	65°	90°
Thread Size	1/8"	1/8"(F)	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"
Length	.62"	1.00"	1.25"	1.77"	.91"	.98"	.88"	.82"

1/4"-28 GREASE FITTINGS

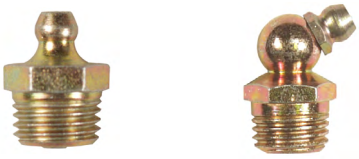


	14-28001*	14-28002	14-28003	14-28004
Type	Straight	Straight	Straight	Straight
Thread Size	1/4"-28	1/4"-28	1/4"-28	1/4"-28
Length	.54"	.69"	.93"	1.08"



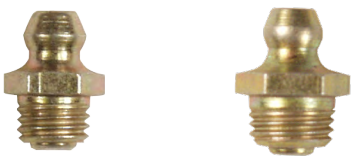
	14-28045	14-28046	14-28090*	14-28UNF
Type	45°	45°	90°	Straight
Thread Size	1/4"-28	1/4"-28	1/4"-28	1/4"-28 UNF
Length	.88"	.97"	.69"	.49"

1/4" PTF GREASE FITTINGS



	14-001*	14-067*
Type	Straight	67-1/2°
Thread Size	1/4"	1/4"
Length	.80"	.96"

SPECIAL THREAD GREASE FITTINGS



	T-7504	T-7505
Type	Straight	Straight
Thread Size	5/16"-24 UNF	3/8"-24 UNF
Length	.62"	.62"

Fittings must be purchased in quantities of 100

*** These fittings available in 10 packs***

Stainless Steel Grease Fittings

Stainless steel grease fittings are designed to be used in harsh and highly corrosive environments. Stainless steel grease fittings use 303 stainless steel on the body and head, stainless steel stress relieving spring and a stainless steel ball. All stainless steel fittings have a single notch identification mark on the hexagonal corners.







	777-142801	777-142845*	777-142890*	777-1801*	777-1845*
Type	Straight	45°	90°	Straight	45°
Thread Size	1/4"-28	1/4"-28	1/4"-28	1/8"	1/8"
Length	.54"	.88"	.69"	.62"	.99"






	777-1890*	777-1401	777-DR14	777-DR316
Type	90°	Straight	Straight	Straight
Thread Size	1/8"	1/4"	1/4" Drive	3/16" Drive
Length	.82"	.82"	.5"	.5"

* *This fitting available in 10 packs*

Metric Thread Grease Fittings







	M6-001	M6-045*	M6-090*	M8-001	M8-045
Type	Straight	45°	90°	Straight	45°
Thread Size	M6 x 1	M6 x 1	M6 x 1	M8 x 1	M8 x 1
Length	.53"	.89"	.71"	.59"	.88"






	M8-090	M10-001*	M10-045*	M10-090*
Type	90°	Straight	45°	90°
Thread Size	M8 x 1	M10 x 1	M10 x 1	M10 x 1
Length	.70"	.60"	.93"	.75"

* *This fitting available in 10 packs*

Thread Forming Grease Fittings

Thread forming fittings have special hardened threads which allow the fitting to be screwed into a drilled hole which eliminates having to tap the hole. When installed, they force a rearrangement of the metal to conform with their own thread design, which is leak tight and permanent. They can easily be replaced by another thread forming fitting or standard fitting. All thread forming fittings have a yellow zinc finish and can withstand a 70-hour salt spray test.






	T-7302	T-7303	T-7305	T-7307
Type	90°	Straight	90°	45°
Thread Size	1/8"	1/4"	1/4"-28	1/4"-28
Length	.69"	.56"	.68"	.78"

Drive Type Grease Fittings

Drive type fittings are most commonly used in high volume installations to avoid tapping costs. The serrated shank holds the fitting securely in place when driven into a hole. All drive fittings have a yellow zinc finish and can withstand a 70-hour salt spray test. *Actual drill size may depend upon the nature of the material into which the fitting is driven.*






	T-7603*	DR-316-NB2*	DR-316	DR-316-NB*
Type	Straight	Straight	Straight	Straight
Thread Size	3/16"	3/16"	3/16"	3/16"
Length	.47"	.49"	.50"	.50"






	DR-14-NB*	DR-14	DR-516	T-7614
Type	Straight	Straight	Straight	65°
Thread Size	1/4"	1/4"	5/16"	1/4"
Length	.41"	.50"	.58"	.85"






	T-7615	T-7616	T-7619*	T-7630*
Type	Straight	Straight	Straight	Straight
Thread Size	6MM	8MM	1/8"	3/16"
Length	.57"	.61"	.47"	.39"

* *This fitting has no ball check*

Buttonhead Grease Fittings

All buttonhead fittings are straight fittings with a maximum pressure rating of 6,000 PSI. Standard buttonhead fittings are 5/8" diameter.







	BH-18	BH-14	BH-38
Type	Standard	Standard	Standard
Thread Size	1/8"	1/4"	3/8"
Length	.76"	.83"	.98"

Vented, Relief & Leakproof Specialty Fittings

Relief fittings are designed to open at pre-determined pressures.

Leakproof fittings are equipped with a rubber seal instead of a ball check for use with light oils and heavy lubricants. Leakproof fittings are designed to handle up to 5,000 PSI of back pressure.











	T-7040	T-7046	T-7048	T-7049	T-7700
Type	Vented	Relief	Relief	Relief	Leakproof
Relief Min.	––	1 PSI	1 PSI	1 PSI	––
Relief Max.	––	5 PSI	5 PSI	5 PSI	––
Thread Size	1/8"‡	1/8"	1/8"	1/4"	1/8"
Length	.66"	.47"	.50"	.66"	.85"

‡ *Thread is 1/8" PTF-SAE short*

110 Piece Standard Fitting Assortment



4450

110 Piece Standard Grease Fitting Assortment

Includes forty (40) 14-28001, ten (10) 14-28045, ten (10) 14-28090, twenty (20) 18-001, ten (10) 18-045, ten (10) 18-065, and ten (10) 18-090.

110 Piece Metric Fitting Assortment



4451

110 Piece Metric Grease Fitting Assortment

Includes forty (40) M6-001, five (5) M6-045, five (5) M6-090, twenty (20) M8-001, five (5) M8-045, five (5) M8-090, twenty (20) M10-001, five (5) M10-045, and five (5) M10-090.

55 Piece Stainless Steel Fitting Assortment



4452

55 Piece Stainless Steel Grease Fitting Assortment

Includes twenty (20) 777-142801, five (5) 777-142845, five (5) 777-142890, ten (10) 777-1801, five (5) 777-1845, five (5) 777-1890, and five (5) 777-1401.

Grease Fitting Extractors & Re-Threading Tools



TIM-151

Extractor & Re-Threading Tool

Used for replacing broken 1/4”-28 grease fittings



TIM-152

Extractor & Re-Threading Tool

Used for replacing broken 1/8"-27 pipe thread grease fittings. PTF fittings are sometimes generically referred to as 1/8" NPT.

American Lubrication Limited Warranty

American Lubrication Equipment Corporation (ALEC) warrants to the original use purchaser for the original installation of the products depicted in this catalog. Warranty claims involving travel time and labor must be pre-approved by American Lubrication Equipment Corporation's service department. ALEC does not pay travel time to repair/replace control handles, air systems components or portable equipment.

ALEC Products

ALEC, at its option, will repair or replace, free of charge, any product (excluding Advantage Plus and Challanger Series products) manufactured by ALEC that under normal use and service proves defective in material or workmanship, as determined by ALEC upon inspection within one year from date of purchase, 90 days from date of purchase if product is an air hose, two years from date of purchase if the product is an ESQ Series electric oil pump, DEF pump or three years from date of purchase if the product is an Electronic Digital Meter (excluding batteries) or Electronic Digital Metered Control Handle (excluding batteries), provided the product or part claimed to be defective is returned promptly to the ALEC facility or ALEC authorized service center with transportation charges prepaid, and is accompanied by original proof of purchase. This limited warranty does not cover failure of parts or components due to normal wear or damage or wear that in the judgement of ALEC results from misuse, abrasion, corrosion, negligence, accident, substitution of a non-ALEC part, faulty installation or tampering. If ALEC's inspection discloses no defect in material or workmanship, ALEC will notify the purchaser and, upon authorization by the purchaser, ALEC will repair or replace and return the product at ALEC's customary charges.

Advantage Plus Products

ALEC will provide repair parts free of charge for any Advantage Plus product that under normal use and service proves defective in material or workmanship, as determined by ALEC upon inspection within five years from date of purchase, provided the part claimed to be defective is returned promptly to ALEC with transportation charges prepaid, and is accompanied by original proof of purchase.

During the first year, ALEC, at its option, will repair or replace, free of charge, any Advantage Plus product, that under normal use and service proves defective in material or workmanship, as determined by ALEC upon inspection within one year from date of purchase, provided the product or part claimed to be defective is returned promptly to ALEC or an ALEC authorized service center with transportation charges prepaid, and is accompanied by original proof of purchase. This limited warranty does not cover failure of parts or components due to normal wear or damage or wear that in the judgment of ALEC results from misuse, abrasion, corrosion, negligence, accident, substitution of a non-ALEC part, faulty installation or tampering. If ALEC's inspection discloses no defect in material or workmanship, ALEC will notify the purchaser and, upon authorization by the purchaser, ALEC will repair or replace and return the product at ALEC's customary charges.

The Advantage Plus Products 5 Year Limited Warranty does not cover routine maintenance, including but not limited to, normal user performed adjustments and maintenance of equipment, and the adjustment of any field adjustable packing nuts.

Products Not Manufactured by ALEC

ALEC makes no warranty as to products, accessories or components not manufactured by ALEC. These are subject to the warranty, if any, of their manufacturer. ALEC will provide reasonable assistance to the purchaser in making such claims.

Notice

The foregoing limited warranty supersedes, voids and is in lieu of any and all other warranties, expressed or implied. ALEC makes no warranty of merchantability or fitness for a particular purpose. ALEC's sole obligation and the original use purchaser's sole remedy is as stated above, and in no event shall ALEC 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.

ARO LUBRICATION EQUIPMENT WARRANTY

Ingersoll-Rand Fluid Products ("IRFP") warrants to the original use purchaser of the ARO® products depicted in this catalog that IRFP will repair or replace, free of charges, including return shipping costs within the Continental United States of America, any such product which under normal use and service proves defective in material and workmanship, as determined by IRFP inspection, within (A) 1 year from date of purchase of said products, other than the following, (B) 5 years from date of purchase of a Thunder Series Pump, (C) 5 years from date of purchase of a Diaphragm Pump, and (D) 5 years from date of purchase ARO® manufactured swivels, non-metered control handles, 4-1/4", 6" pumps, drains, follower plates, tie downs, siphon tubes, drum covers, provided the claimed defective product, or part thereof, is promptly returned to the IRFP factory or IRFP 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 which in the judgement of ARO® arises from misuse, abrasion, corrosion, negligence, accident, substitution of non-ARO parts, faulty installation or tampering.

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

Equipment not covered by IRFP warranty: Accessories or components of equipment sold by IRFP that are not manufactured by IRFP (such as switches, hoses, meters, etc.) are subject to the warranty, if any, of their manufacturer. IRFP 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. IRFP's sole obligation and the original use purchaser's sole remedy is as stated above and in no event shall IRFP 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.

ARO AIR SYSTEMS COMPONENTS WARRANTY

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

If IRFP 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. IRFP's sole obligation and the original use purchaser's sole remedy is as stated above and in no event shall IRFP 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.

AMERICAN LUBRICATION POLICY

Returns: No returns will be accepted without prior written authorization from American Lubrication Equipment Corporation. All items to be returned must be in the original factory carton and must be in unused re-saleable condition with transportation charges prepaid. All returned goods will be subject to inspection by American Lubrication Equipment Corporation before credit is issued. We reserve the right to charge an additional handling fee or return items to the purchaser if products are found to be in unacceptable condition upon our inspection. Customer must supply a copy of our original invoice as proof of purchase.

Stock Adjustment: Stock adjustments will be made with prior written authorization. A list including quantities and model numbers of items to be returned must be faxed or mailed to American Lubrication Equipment Corporation. Only active part numbers will be considered and the products must have been purchased within the last 18 months. A 15% handling charge will be assessed. The 15% handling charge will be waived if a 2:1 offsetting order accompanies the original request for stock adjustment.

Warranty: Warranty claims will be handled in accordance with the written warranties found in the Ingersoll-Rand ARO Fluid Products catalog and the American Lubrication Equipment Corporation lubrication equipment and supplies catalog. Contact either American Lubrication Equipment Corporation or one of our authorized warranty service centers with warranty claims.

Defective Item(s): Prior written authorization is required in order to return items that are defective. Fax or mail your request for authorization for return to American Lubrication Equipment Corporation. If the returned item is found not to be defective, upon our inspection, the item will be returned at the customer's expense.

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AMERICAN LUBRICATION EQUIPMENT CORPORATION HISTORY

DECEMBER 18 1918
The Alemite Company of Maryland is founded by Charles F. Eck in Baltimore Maryland

1920S
Marketing was expanded to car dealers through newly packaged automotive kits

LATE 1920S
Complete lines of petroleum products and lubrication equipment expand the company's product base

1930S
Added first line of industrial lubrication equipment

1940S
All-out effort to supply the U.S. government for the war.

Charles F. Eck served as a dollar-a-year man in Washington

POST-WAR 1950S
Continued to grow and expand its product base, adding a complete line of automotive, marine and industrial instruments

1950S & 1960S
Solid growth years for the company, which moved 6 times to larger facilities in Baltimore

1960S & 1970S
Among one of the first companies to be fully computerized.

C. Franklin Eck, Jr presided over a major re-engineering of the company from a predominately single-source supplier to multiple supply sources

1980
Founder, Charles F. Eck is succeeded as president by C. Franklin Eck, Jr.

OCTOBER 1988
Changed name to American Lubrication Equipment Corporation

1990S
Company grew from a Mid-Atlantic regional operation to a major East Coast distribution center

1997
Became a truly national distributor, opening offices and warehouse facilities on the West Coast in Anaheim, CA that allow it to fully serve national accounts in all states

OCTOBER 2009
Moved to present headquarters in Hunt Valley, MD

2015
C. Franklin Eck is succeeded as president by Eben Eck

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American Lubrication
Equipment Corporation

Headquarters
11212 A McCormick Road
Hunt Valley, MD 21031

West Coast Dist. Facility
1251 North Patt Street
Anaheim, CA 92801

Phone 410-252-9300