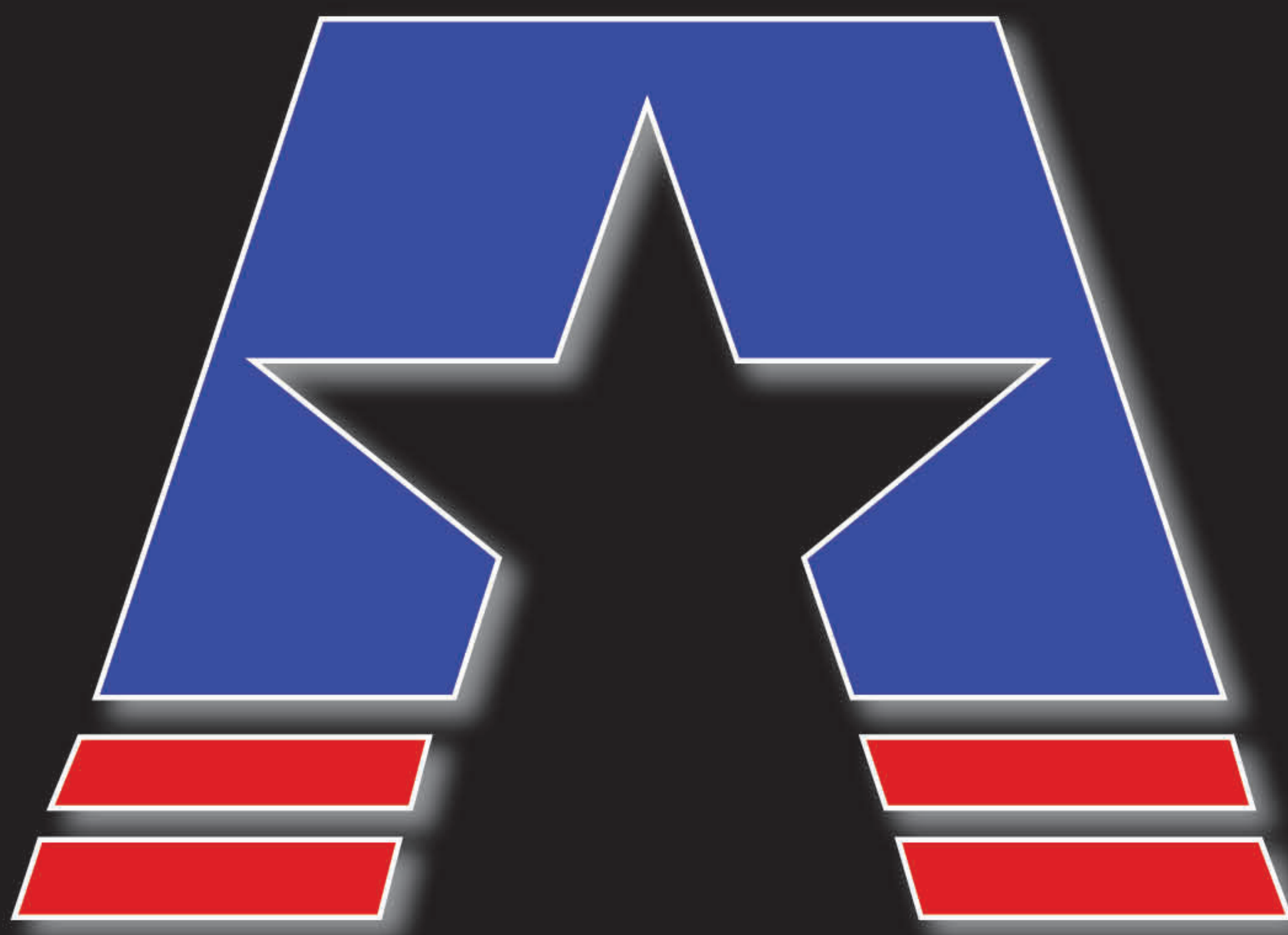


100TH
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AMERICAN LUBRICATION
EQUIPMENT CORPORATION

PRODUCT CATALOG

WWW.AMERICANLUBE.COM

CATALOG AT-A-GLANCE



2

DEF EQUIPMENT



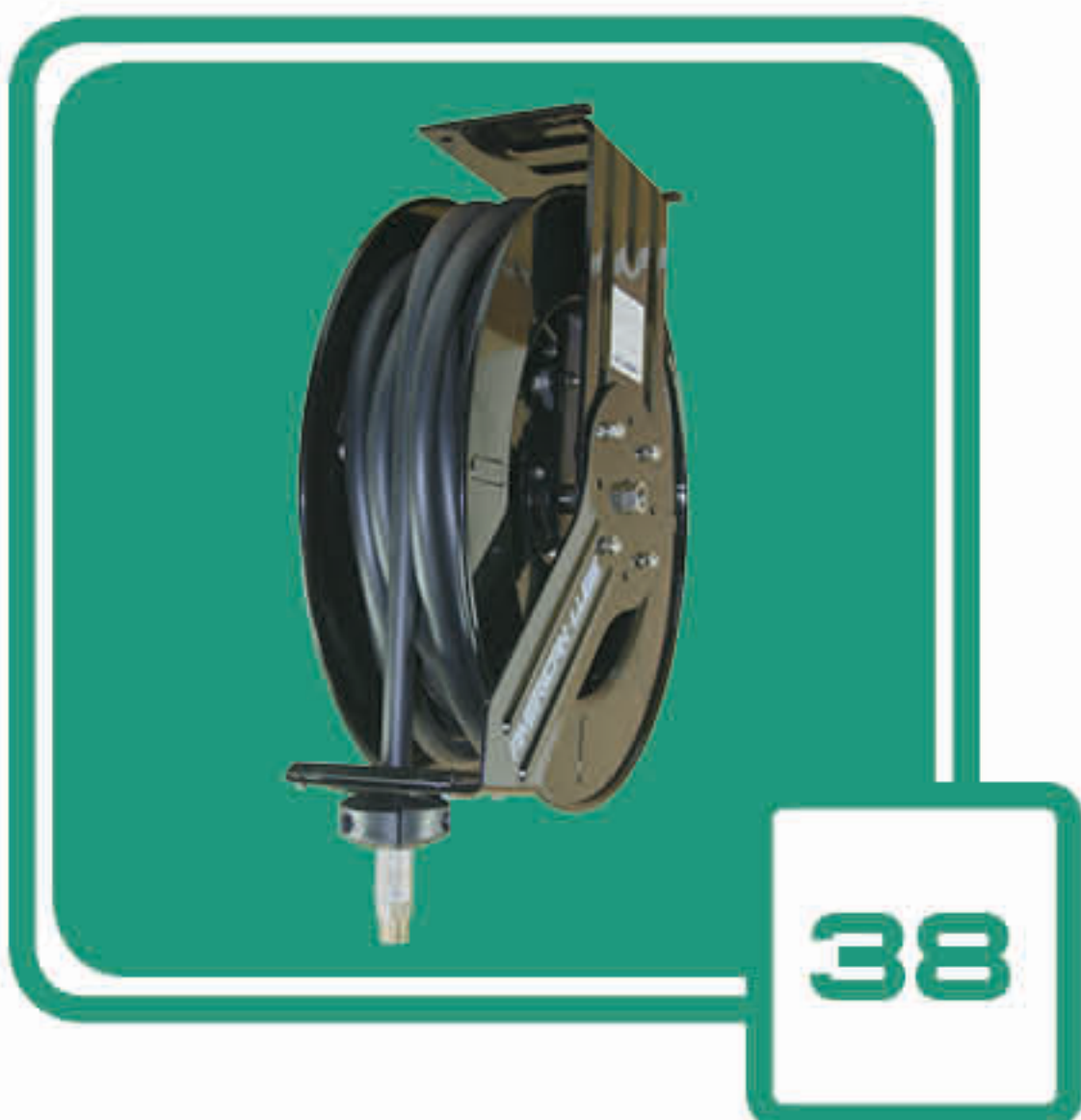
14

PORTABLE OIL EQUIPMENT



24

DIAPHRAGM PUMPS



38

HOSE REELS



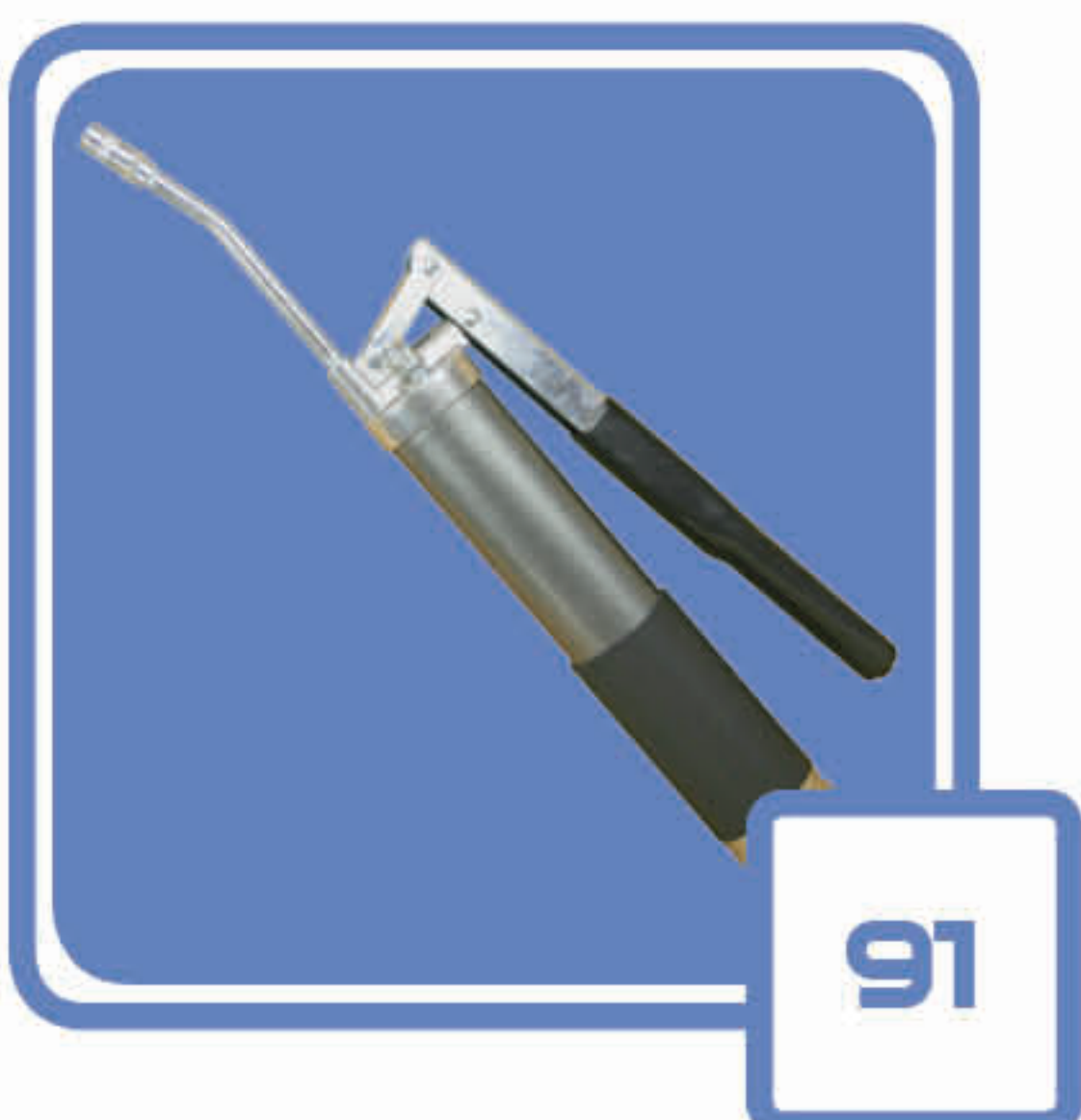
62

FLUID INVENTORY CONTROL SYSTEM



72

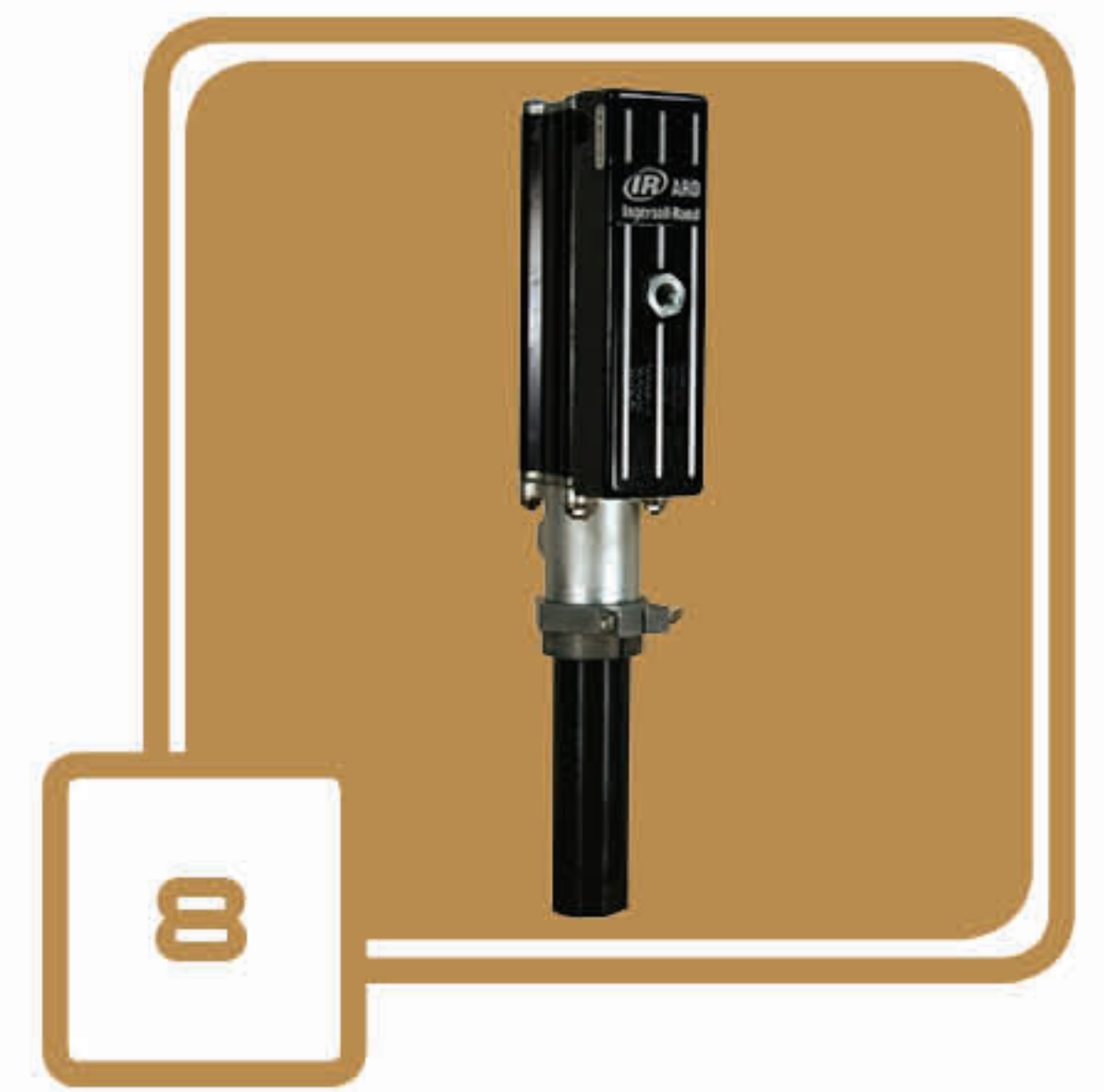
TANK PACKAGES



91

GREASE GUNS

OIL PUMPS & PACKAGES



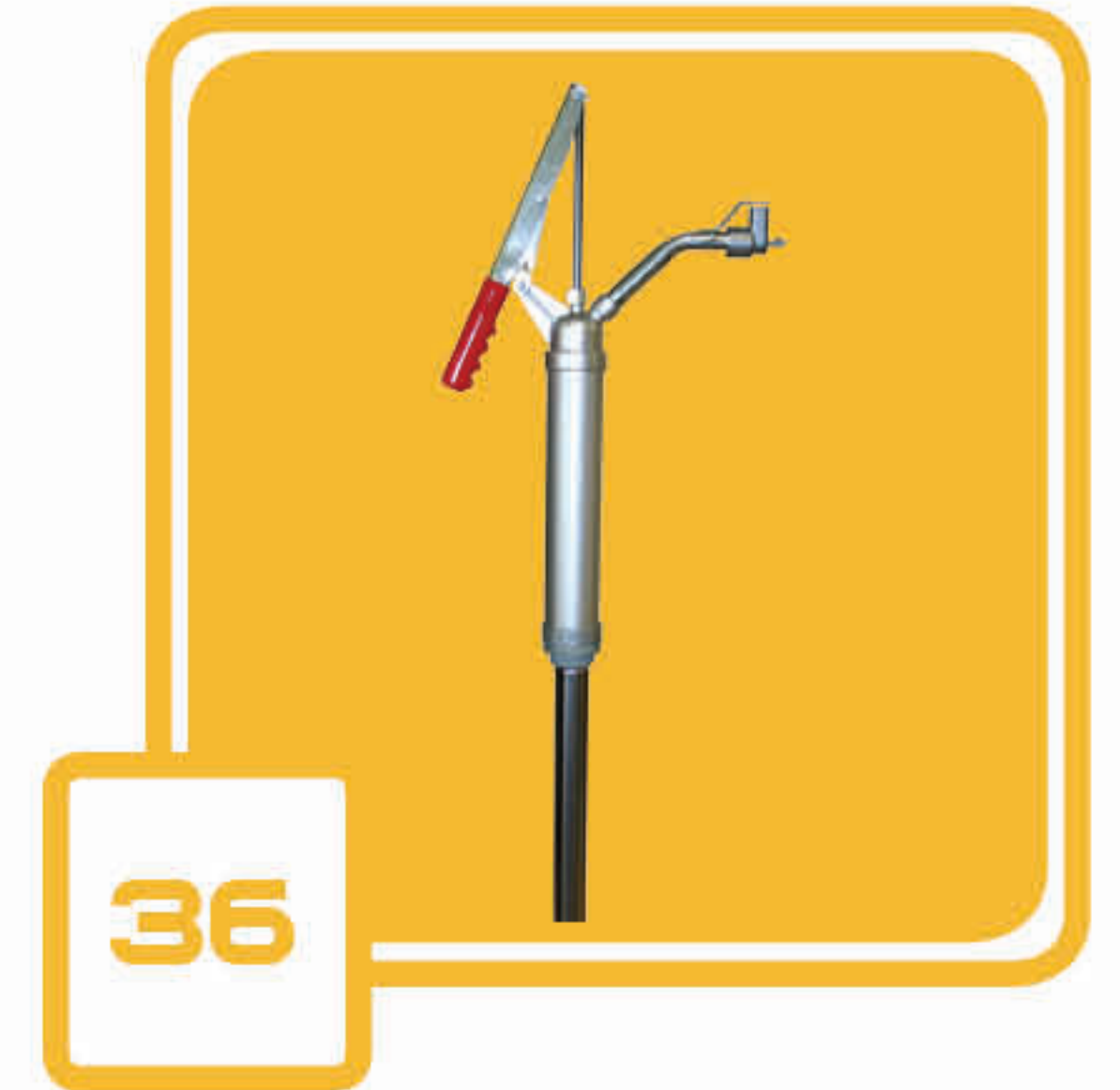
8

GREASE PUMPS & PACKAGES



18

DRUM PUMPS



36

CONTROL VALVES



46

WASTE OIL EQUIPMENT



64

AIR SYSTEM COMPONENTS



80

GREASE FITTINGS



95

2 DEF EQUIPMENT		
Electric Pump Packages	2	
Air-Operated Pump Packages	3	
Hose Reel, Meter & Control Handles	4	
Bare Pumps & Hand-Operated Drum Pumps	5	
Mounting Brackets, Adapters & Accessories	6	
Couplers & Downtubes	7	
8 OIL PUMPS & PACKAGES		
ARO Thunder Oil Pumps	8	
ARO 1:1 Transfer Pumps	10	
Thunder 3:1 Tapper Pumps	11	
ARO AFX Oil Pumps	12	
Portable Oil Equipment	14	
18 GREASE PUMPS & PACKAGES		
ARO Thunder 50:1 Grease Pumps	18	
ARO AFX Grease Pumps	20	
Portable Grease Equipment	22	
24 DIAPHRAGM PUMPS		
ARO 3/8" – 2" Diaphragm Pumps	24	
ARO Diaphragm Drum Pump Packages	26	
Diaphragm Pump Packages	27	
29 PUMP ACCESSORIES		
Connecting Hose & Pressure Relief Kits	29	
Suction Tubes & Inlet Check Valves	30	
Bung Adapters & Air Motor Mufflers	31	
Mounting Brackets, Kits & Siphon Tubes	32	
Drum Covers & Drum Tie-Down Kits	33	
Lifts, Follower Plates & Dollies	34	
35 DRUM ACCESSORIES		
36 HAND-OPERATED DRUM PUMPS		
38 HOSE REELS		
Advantage Plus Series	38	
Advantage ² Plus Series	40	
Platinum Series Premium Double-Arm	42	
Advantage Plus Cabinet Enclosure	44	
Connecting Hoses & Hose Stops	45	
46 CONTROL VALVES & METERS		
Pro Series Digital Control Valves	46	
Pro Series Mechanical Control Valves	48	
900 Series Digital Preset Meters	50	
Mechanical Preset Meters	52	
In-Line Meters	53	
760 Series Non-Metered Control Valves	54	
ARO Non-Metered Control Valves	56	
Oil Control Valve Accessories	57	
Grease Control Valves & Swivels	58	
Grease Couplers & Whip Hoses	59	
60 OIL BARS		
62 FLUID INVENTORY CONTROL SYSTEM		
Fluid Inventory Control System	62	
Accessories	63	
64 WASTE OIL EQUIPMENT		
Self-Evacuating Waste Oil Drains	64	
24-Gallon Conventional Waste Oil Drain	65	
Polyethylene Drains & Truck Drain	66	
Replacement Bowls & Quick-Lube Pit Drain	67	
Waste Oil Packages	68	
Accessories	69	
72 TANK PACKAGES		
Tank Packages	72	
Tank Specifications	74	
Tote Pumping Systems	76	
Accessories	77	
79 QUICK-LUBE EQUIPMENT		
80 AIR SYSTEM COMPONENTS		
Filters, Regulators, & Lubricators	80	
Air Couplers & Connectors	82	
Accessories	83	
84 INSTALLATION ACCESSORIES		
Shut-Off Valves	84	
Steel Tubing & Connectors	83	
Straight, 90° & 45° Union Adapters	86	
Adapters & Reducing Bushings	87	
88 HOSES		
Air & Water Connecting & Delivery Hoses	88	
Oil Connecting & Delivery Hoses	89	
Grease Connecting & Delivery Hoses	90	
91 GREASE GUNS		
Hand-Operated Grease Guns	91	
Professional 18-Volt Grease Gun	92	
Accessories	93	
95 GREASE FITTINGS		
1/8" PTF, 1/4"-28 & 1/4" PTF Fittings	95	
Stainless Steel & Metric Fittings	96	
Thread Forming & Drive Type Fittings	97	
Buttonhead, Vented, Relief & Leakproof Fittings	98	
Grease Fitting Assortments	99	
100 SHOP LAYOUT		
102 WARRANTY		

ELECTRIC PUMP PACKAGES

DEF3-TM49N
(tote not included)

PUMP TECHNICAL SPECIFICATIONS

	110 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-TM49N4
(drum not included)

110 VOLT

	Tote Mount		Portable 55-Gallon		Stationary 55-Gallon	
	DEF3-TM49N*	DEF3-TN50N	DEF3-TM49N4*	DEF3-TN50N4	DEF3-DN50N	DEF3-DN49N
Nozzle	DEF-49	DEF-50	DEF-49	DEF-50	DEF-50	DEF-49
Meter	DEF-22	---	DEF-22	---	---	---
Mounting Bracket	DEF3-BKT	DEF3-BKT	DEF3-BKT	DEF3-BKT	DEF2-BKT	DEF2-BKT
Heavy-Duty Cart	---	---	TIM-401	TIM-401	---	---

* Most Popular

12 VOLT

	Tote Mount	Portable 55-Gallon	Stationary 55-Gallon
	DEF6-TM49N	DEF6-TM49N4	DEF6-DM49N
Nozzle	DEF-49	DEF-49	DEF-49
Meter	DEF-22	DEF-22	DEF-22
Mounting Bracket	DEF3-BKT	DEF3-BKT	DEF2-BKT
Heavy-Duty Cart	---	TIM-401	---

AIR-OPERATED PUMP PACKAGES



DEF-10
(tote 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

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-SS

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)



DEF-57A

Magnetic Mis-filling Adapter

BARE ELECTRIC PUMPS

DEF3A-PUMP

110 Volt Electric Pump with Timer

Includes 6 foot electric cord. 1,400 RPM, 7-9 GPM and 3/4" barbed inlet/outlet.

DEF6-PUMP

12 Volt Electric Pump

Includes only 6 foot cables. 2,800 RPM, 18 amp, 7-9 GPM and 3/4" barbed inlet/outlet.



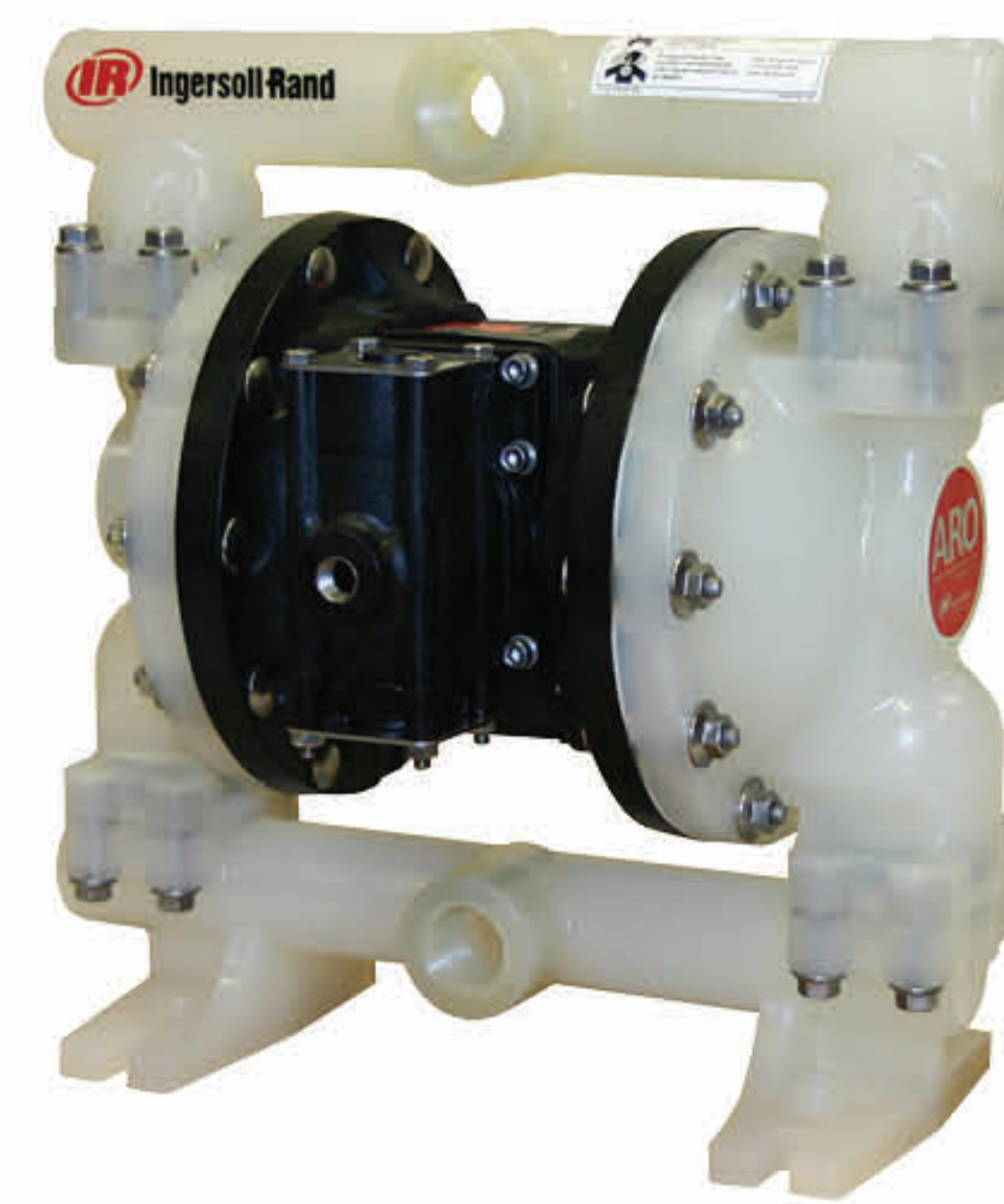
DEF3A-PUMP

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'

MOUNTING BRACKETS

DEF2-BKT	Drum Mounting Bracket for Electric DEF Pumps
TIM-463	IBC tote bracket for 1/2" and 3/4" ARO Diaphragm Pumps and Electric DEF Pumps



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 - converts 2" buttress thread to 2" NPT



DEF-25



DEF-80



4190

ACCESSORIES

DEF-25A	Adapter Kit for DEF-22 Meter with Manual Nozzle
DEF-26	Gravity Kit with Manual Nozzle 9 Foot Hose, 2"(F) NPT inlet
DEF-28	Kit Bottom Connection, 2"(F) NPT inlet
DEF-31	3/4" ID Delivery Hose (Per Foot)
DEF-32	3/4" ID Suction Hose (Per Foot)
DEF-51A	Stainless Steel Hose Clamps (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-26



DEF-51A

POLY COUPLERS & DOWNTUBES

DEF-24	Dispense Coupler & Air Filter - 3/4" barbed hose
DEF-35	Quick Coupling & Downtube - 2" Buttress thread for 55-gallon drum
DEF-36	Quick Coupling & Downtube - 2" NPT thread for 55-gallon drum
DEF-37	Quick Coupling & Downtube - 2" buttress thread for IBC tank (tote)
DEF-38	Quick Coupling & Downtube - 2" NPT thread for IBC tank (tote)
DEF-61	Replacement Air Filter
DEF-63	2" Buttress Drum Insert
DEF-64	2" NPT Drum Insert
DEF-66	55-Gallon Dip Tube
DEF-67	275/330 Tote Dip Tube
DEF-68	Installation Torque Tool



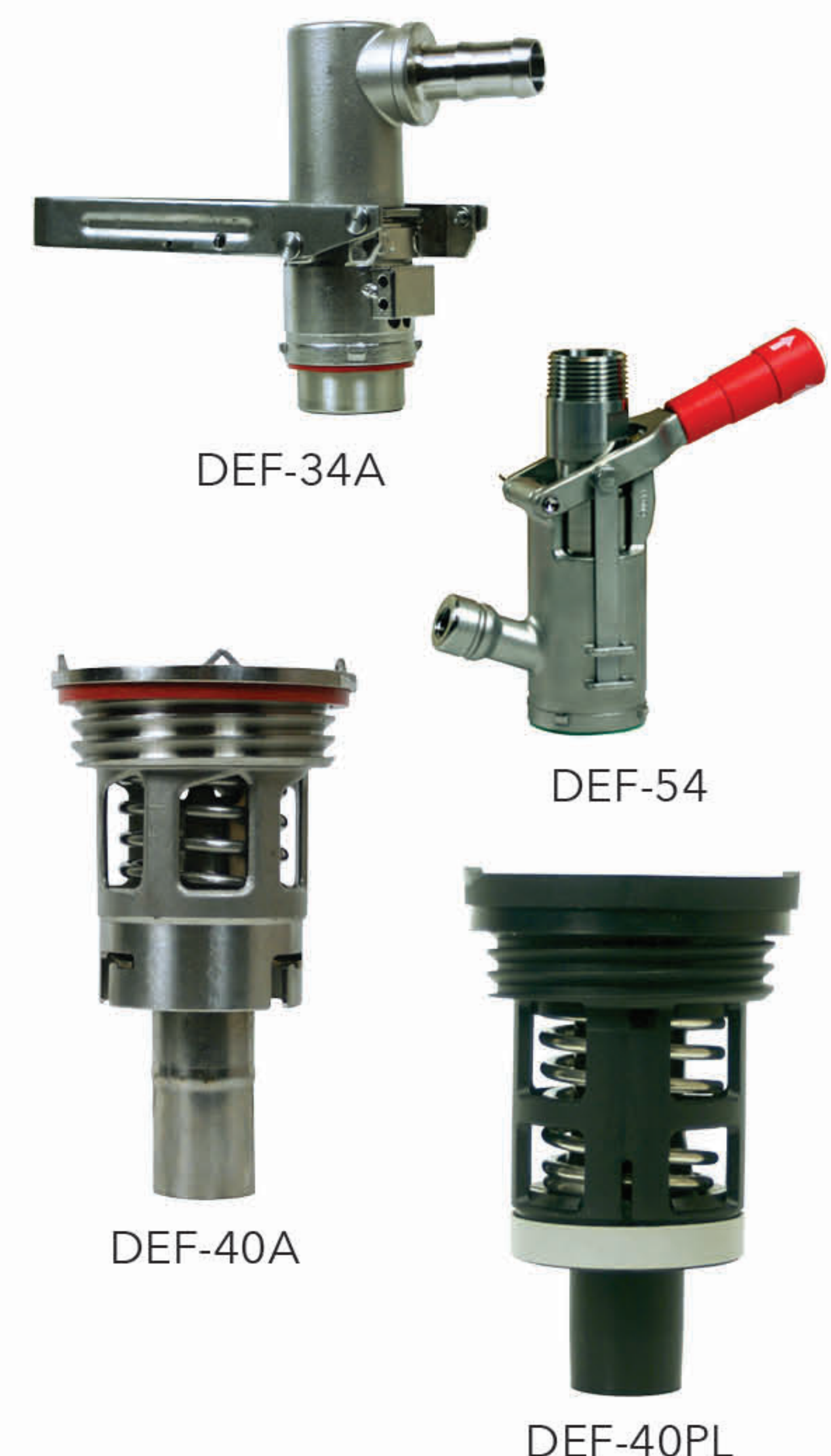
EPV COUPLERS & DOWNTUBES

DEF-39	EPV Dispense Coupler - 3/4" barbed outlet
DEF-42	EPV Container Valve
DEF-43	EPV Downtube for 55-Gallon Drum
DEF-44	EPV Downtube for 275-Gallon IBC
DEF-45	EPV Downtube for 330-Gallon IBC
DEF-73	EPV Install/Removal Tool



RSV COUPLERS & DOWNTUBES

DEF-34A	RSV Stainless Steel Dispense Coupler - with 3/4" barbed outlet
DEF-34PL	RPV Composite Dispense Coupler - with 3/4" barbed outlet
DEF-40A	RSV Stainless Steel Container Valve
DEF-40PL	RPV Composite Container Valve
DEF-41	RSV Container Valve Install/Remove Tool
DEF-54	RSV Vapor Recovery Fill Head Coupler
DEF-TUBE52	RSV Downtube for 55-Gallon Drum, 275-Gallon IBC and 330-Gallon IBC



ARO THUNDER OIL PUMPS



OIL PUMPS & PACKAGES

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

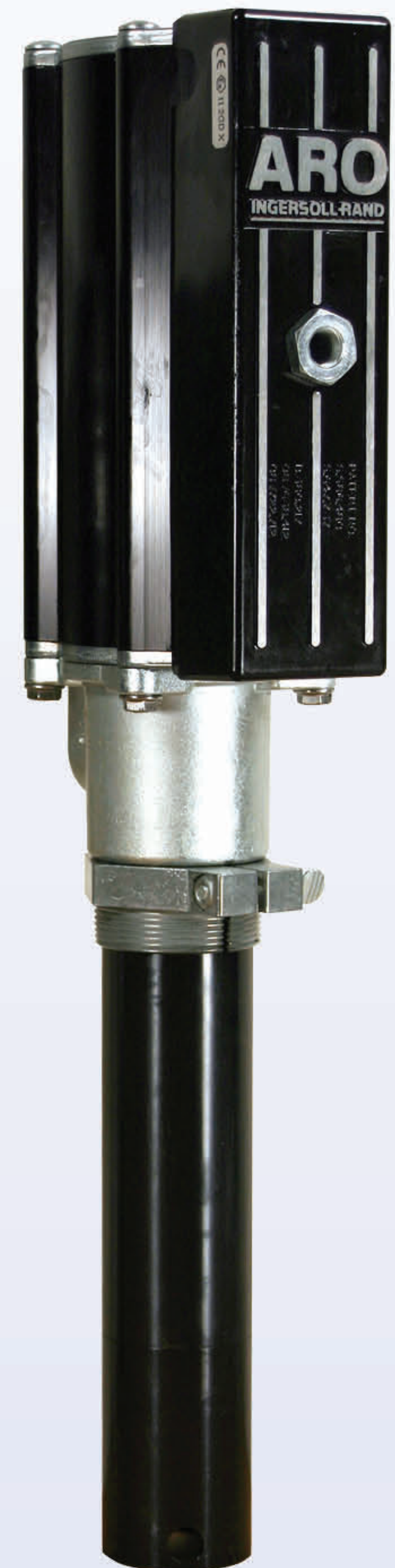
Thunder pumps are constructed with 50% fewer parts than the majority of comparable pumps. Fewer parts means less problems

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



LM-2203A-11C



LM-2305A-11B

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



STUB PUMP MODELS

3:1 Ratio 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
Suction Hose	---	---	---	TIM-4416-8
Filter/Regulator	---	---	---	P-39224-624

5:1 Ratio Pumps

	LM2305A-11-B**	LM-2305A-C**	LM-2305A-H**	LM-2305A-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
Suction Hose	---	---	---	TIM-4416-8
Filter/Regulator	---	---	---	P-39224-624

OIL PUMPS & PACKAGES

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 Ratio 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 Ratio 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

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

OIL PUMPS & PACKAGES

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 ratio 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

IR Ingersoll Rand
Industrial Technologies

**YEAR 5
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

OIL PUMPS
& PACKAGES

STUB PUMP MODEL

TIM-728-2*

Stub Pump Tapper Package

Includes Thunder 3:1 ratio 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 ratio 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 ratio 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

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

ARO AFX OIL PUMPS



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

OIL PUMPS & PACKAGES

ARO AFX 9:1 OIL PUMPS OIL PUMP MODELS



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, electric 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)

OIL PUMPS & PACKAGES

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

IR Ingersoll Rand
Industrial Technologies

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)

OIL PUMPS
& PACKAGES

	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



TIM-390-A1

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



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

OIL PUMPS & PACKAGES

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 Pints	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



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



GREASE PUMPS & PACKAGES

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



ARO THUNDER 50:1 GREASE 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	---	---

GREASE PUMPS & PACKAGES

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

* 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)

ARO AFX GREASE PUMPS

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

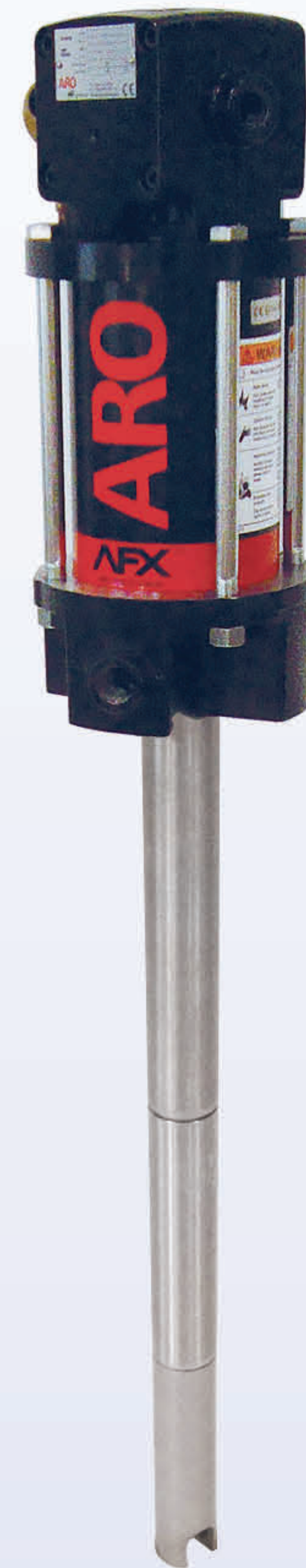
AFX Series air motors are self lubricated and do not require an air line lubricator

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 lb.	TIM-363
Follower Plate 400 lb.	TIM-364
Drum Cover 120 lb.	66492
Drum Cover 400 lb.	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 lb.	640152-1
Follower Plate 400 lb.	640015-5
Drum Cover 120 lb.	66715
Drum Cover 400 lb.	71060
Bung Adapter	4148

GREASE PUMPS & PACKAGES

ARO AFX GREASE PUMPS



BARE PUMP MODELS

4-1/4" Diameter Air Motor Type

AF0450L43PKL1 ‡ 4-1/4" 50:1 Grease Pump for 120-lb Container

AF0450L53PKL1 ‡ 4-1/4" 50:1 Grease Pump for 400-lb Container

6" Diameter Air Motor Type

AF060BL43PKL1 ** 6" 100:1 Grease Pump for 120-lb Container

AF060BL53PKL1 ** 6" 100:1 Grease Pump for 400-lb Container

‡ Order 4148 bung adapter separately

** Order 60870 bung adapter separately



AF0450L43PKL1

GREASE PUMPS & PACKAGES

PUMP PACKAGES

4-1/4" Diameter Air Motor

	DM0450L53PKL1000	DC0450L53PKL1000
Size	400-lb	400-lb
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

6" Diameter Air Motor

	DC060BL43PKL1C11 **	DC060BL53PKL1C11
Size	120-lb	400-lb
Bare Pump	AF60BL43PKL1	AF60BL53PKL1
Drum Cover	66715	71060-1
Follower Plate	640152-1	640015-5
Material Hose	---	---
Air Hose	---	---
Bung Adapter	---	60870

** Order 60870 bung adapter separately



DC0450L53PKL1000



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-lb 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.



TIM-80
(container not included)

35-LB. HAND-OPERATED GREASE PUMP

TIM-83-KM

35-lb 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.



TIM-83-KM

WHEEL BEARING PACKER

TIM-66-A

Drum-Mounted Wheel Bearing Packer with Pump

Mounts directly to 25-lb to 50-lb 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.



TIM-66-A
(container not included)

35-LB. GREASE PACKAGES

2" Diameter Air Motor

LP2002-1-B*

35-lb Grease Package

Includes LM-2250E-21B pump, TIM-367-1 drum cover with carry handle, TIM-368 follower plate, TIM-4514-10 material hose (10'), TIM-111-1 Z-swivel and TIM-794 control handle

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

3" Diameter Air Motor

LP3001-1*

35-lb Grease Package

Includes LM-2350E-21B pump, TIM-367-1 drum cover with carry handle, TIM-368 follower plate, TIM-4514-10 material hose (10'), TIM-111-1 Z-swivel and TIM-795-1 control handle

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



LP2002-1-B
(container not included)



LP2006-ALC
(container not included)



LP3004-1
(container not included)

120-LB. GREASE PACKAGES

2" Diameter Air Motor

LP2006-1-B*

120-lb Grease Package

Includes LM-2250E-31B pump, TIM-451-1 drum cover, TIM-366 follower plate, TIM-4514-10 material hose (10'), TIM-111-1 Z-swivel, TIM-794 control handle and TIM-358 band dolly

LP2006-1-ALC*

120-lb Grease Package

Includes LM-2250E-31B pump, TIM-451-1 drum cover, TIM-366 follower plate, TIM-4514-10 material hose (10'), 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

3" Diameter Air Motor

LP3004-1*

120-lb Grease Package

Includes LM-2350E-31B pump, TIM-451-1 drum cover, TIM-366 follower plate, TIM-4514-10 material hose (10'), TIM-111-1 Z-swivel, TIM-794 control handle and TIM-358 band dolly

LP3004-1-ALC*

120-lb Grease Package

Includes LM-2350E-31B pump, TIM-451-1 drum cover, TIM-366 follower plate, TIM-4514-10 material hose (10'), 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

GREASE PUMPS & PACKAGES

ARO 3/8" - 2" DIAPHRAGM PUMPS

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

ARO

IR Ingersoll Rand
Industrial Technologies

YEAR 5
WARRANTY



PD03P-ARS-PAA



66605J-322



666100-3C9-C



PD20A-AAP-GGG-B

FLUID COMPATIBILITY



Antifreeze



Automatic
Transmission Fluid



Gear Oil



Hydraulic Oil



Motor Oil



Synthetic Oil

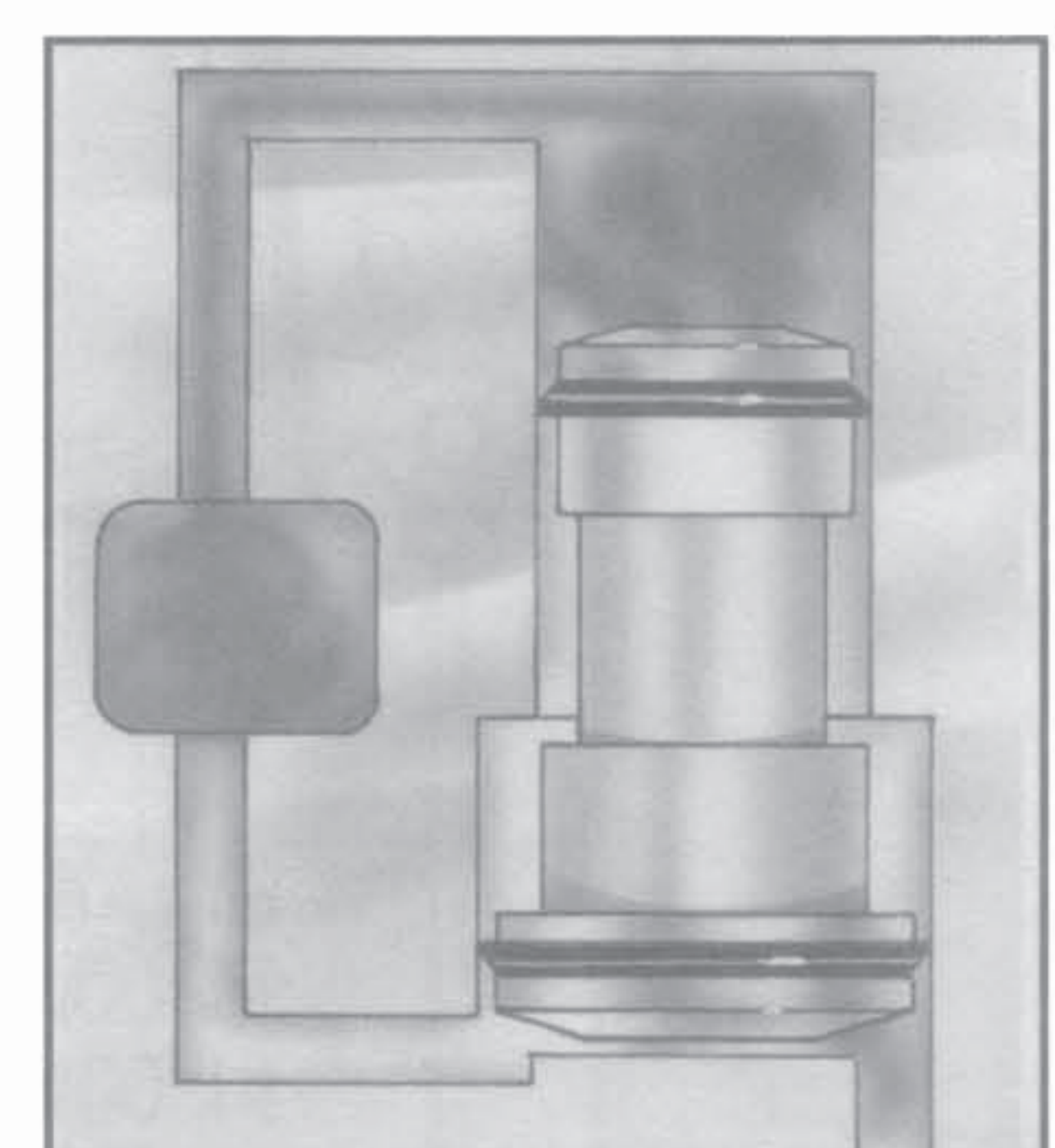
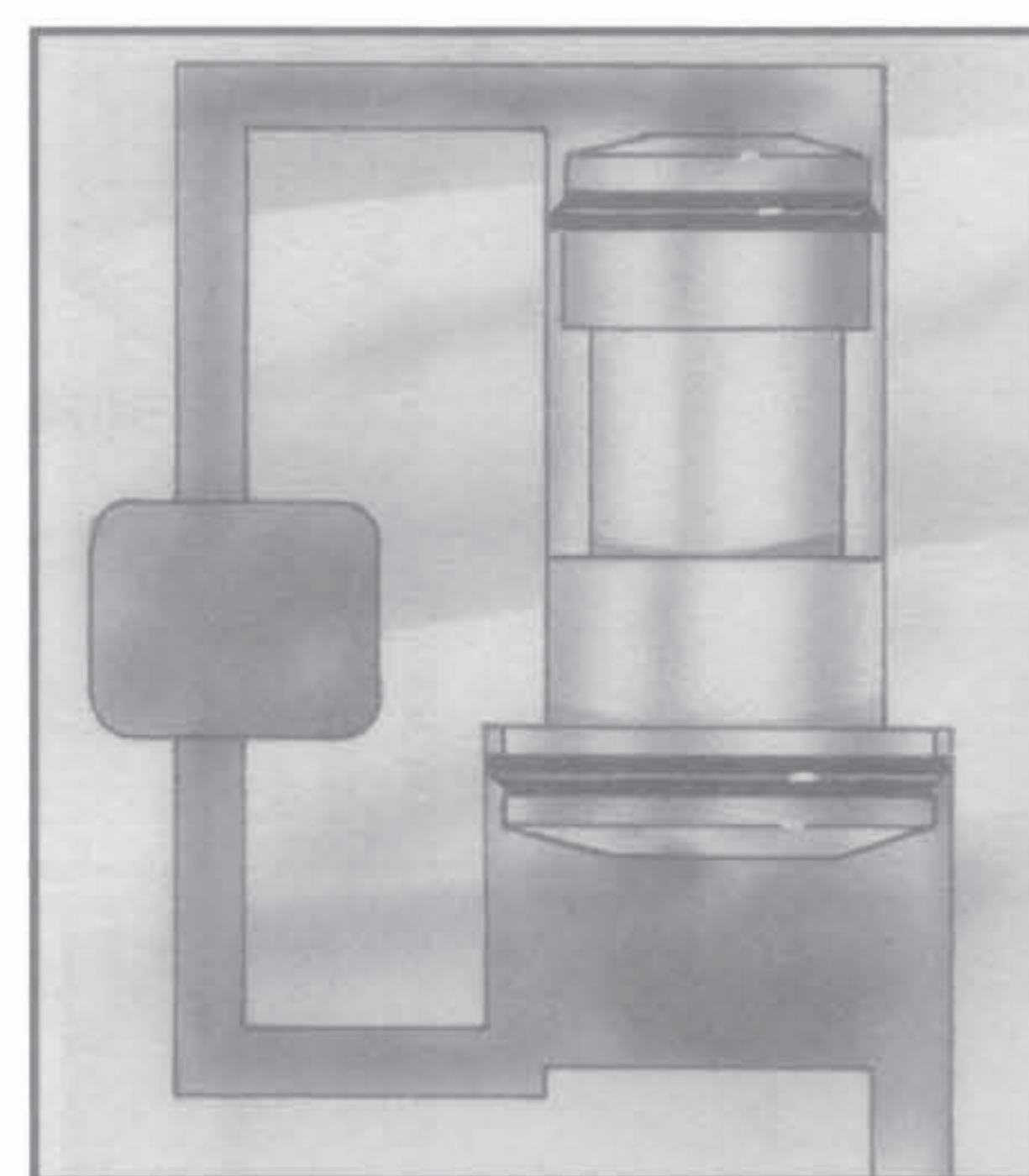


Waste Oil



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 888-252-9300 for recommendations on fluids not listed above.



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*‡	Hytrel®	Hytrel®	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

DIAPHRAGM PUMPS

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



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

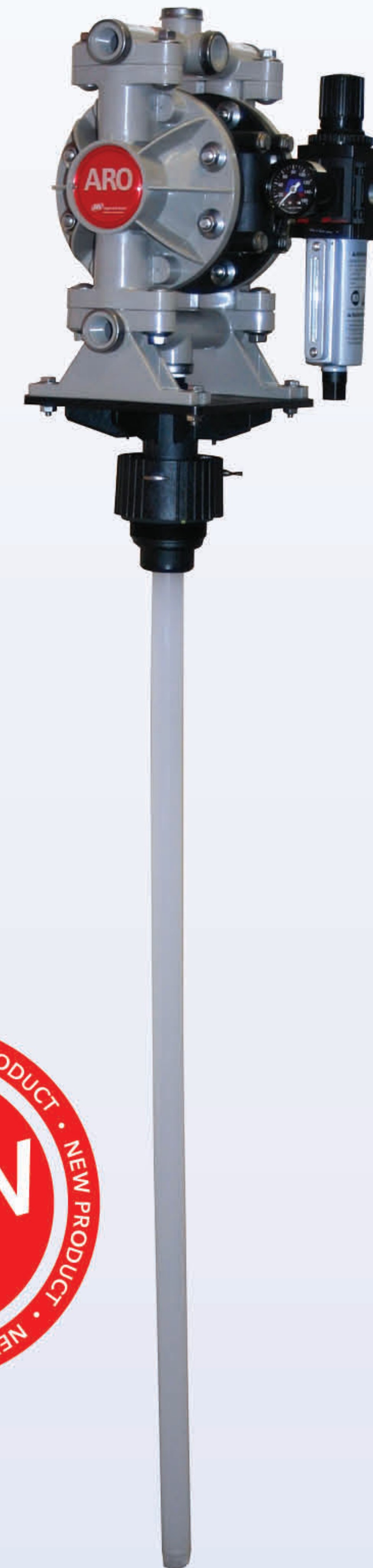
Pumps feature bolted construction to avoid the proven problems created by band clamp type pump fasteners

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
Drum Size	16 or 55-Gallon
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*

Body	Polypropylene
Seat	Polypropylene
Ball & Diaphragm	Nitrile
Fluid Compatibility	Oil, Water & Antifreeze

* 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

IR Ingersoll Rand
Industrial Technologies

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

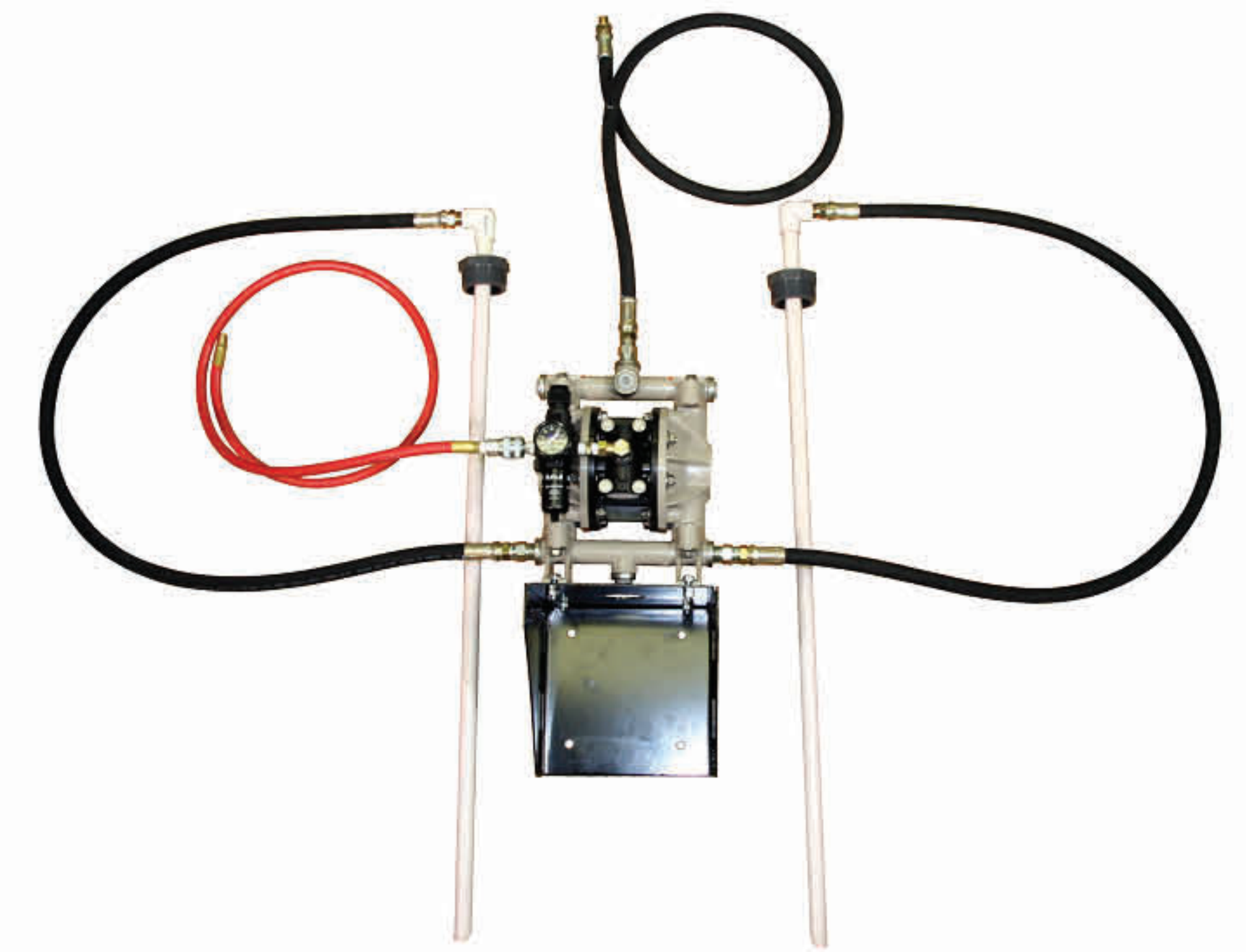
612999-3*‡

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) 612559-4H 1" material hoses, TIM-1058 material hose, P-39224-624 air line filter/regulator/gauge, and AIR-HP1414-3 1/4" air hose

* 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) are covered by the ARO 5-Year Warranty, all other components are covered by standard American Lubrication warranty. For more warranty information, visit page 102.



612999-2

55-GALLON WINDSHIELD WASHER FLUID PUMP PACKAGE

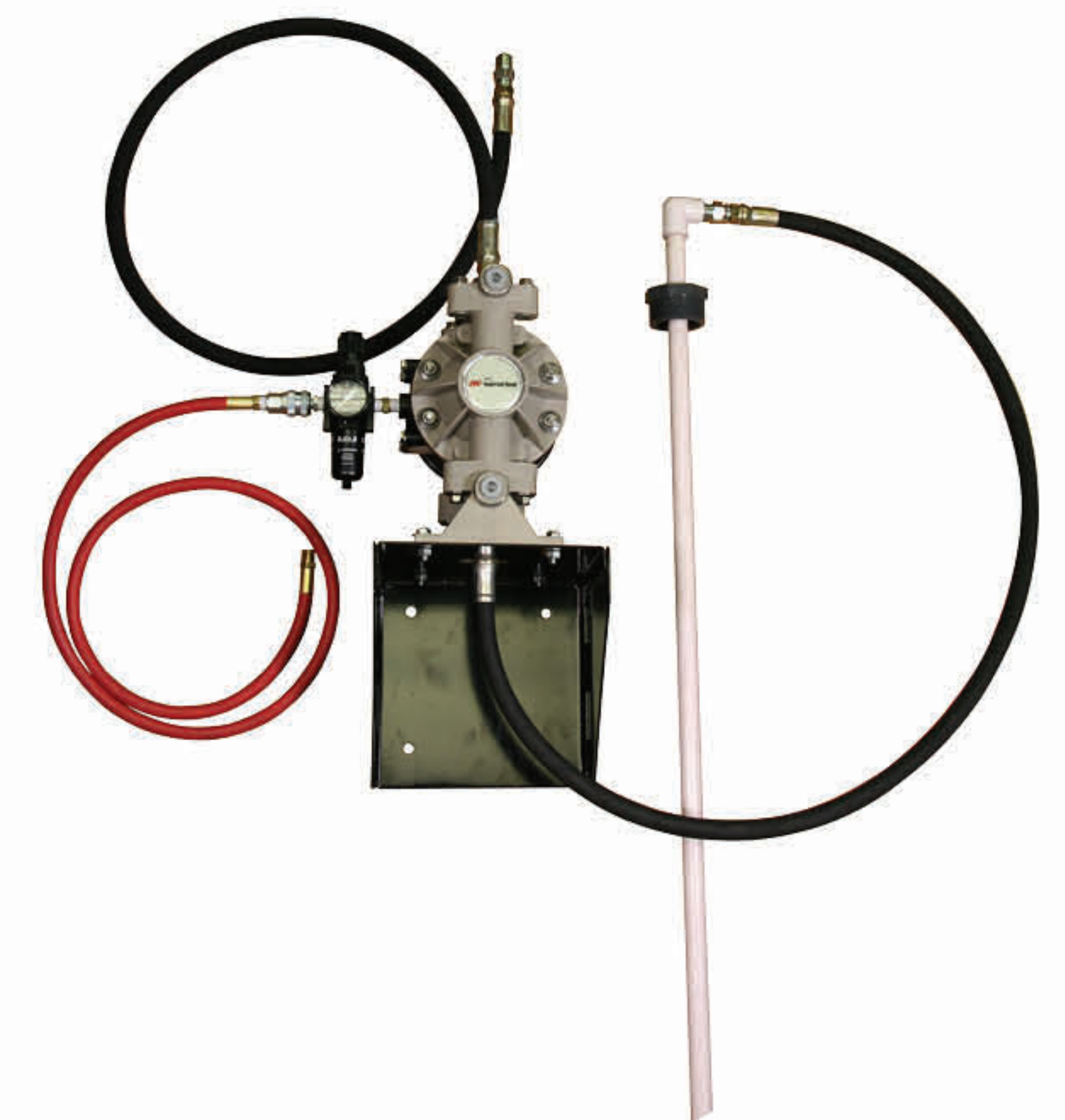
612999-1*‡

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 102.



612999-1

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-55 is compatible with DEF Urea products.



TIM-I-55B

DIAPHRAGM PUMPS

DIAPHRAGM PUMP WASTE OIL PACKAGES



612999-4*

Waste Oil Evacuation System

Includes 666100-3C9-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

* 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 102.



612999-4

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 102.



612999-6

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



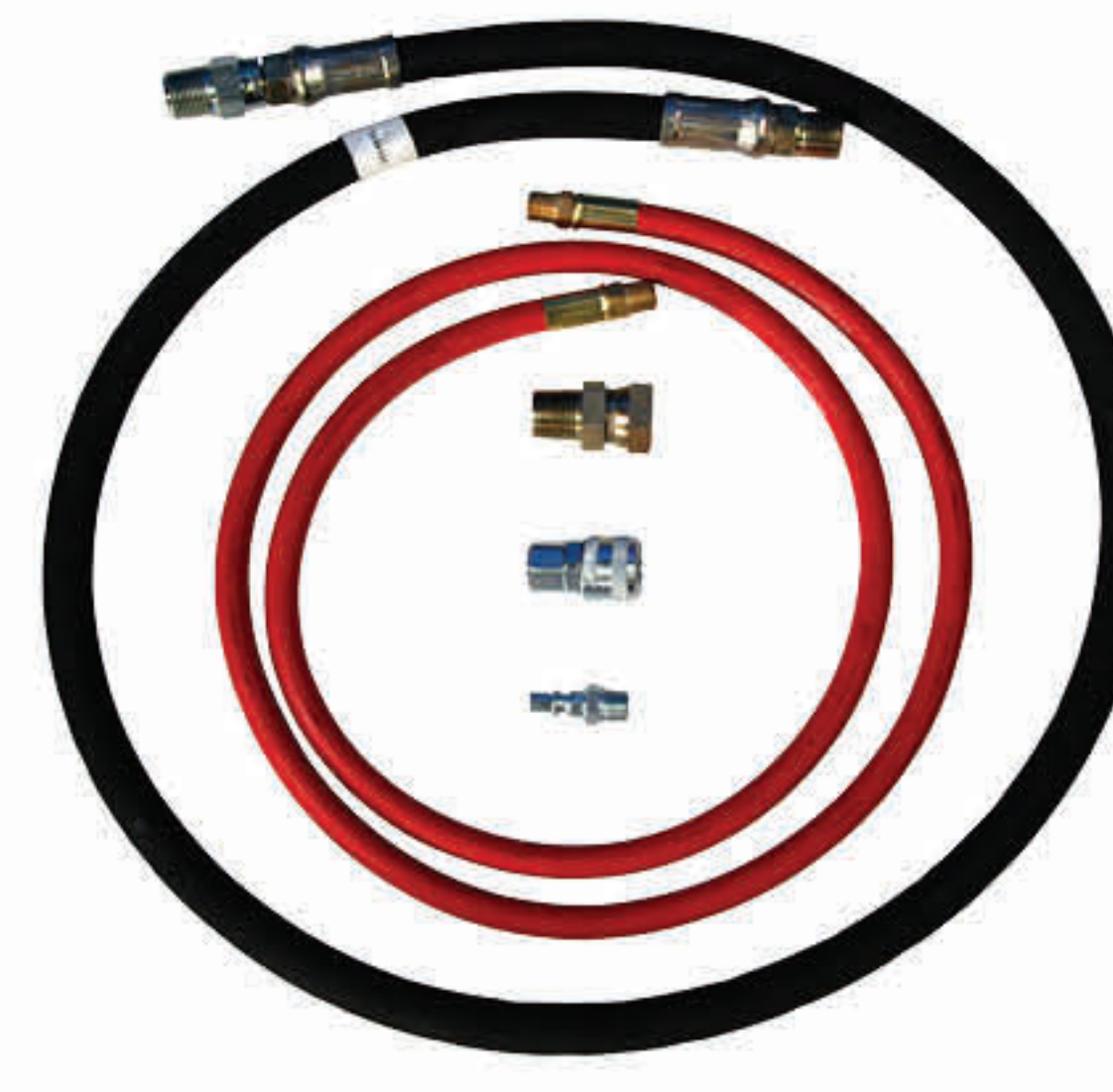
650717-C

DIAPHRAGM PUMPS

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



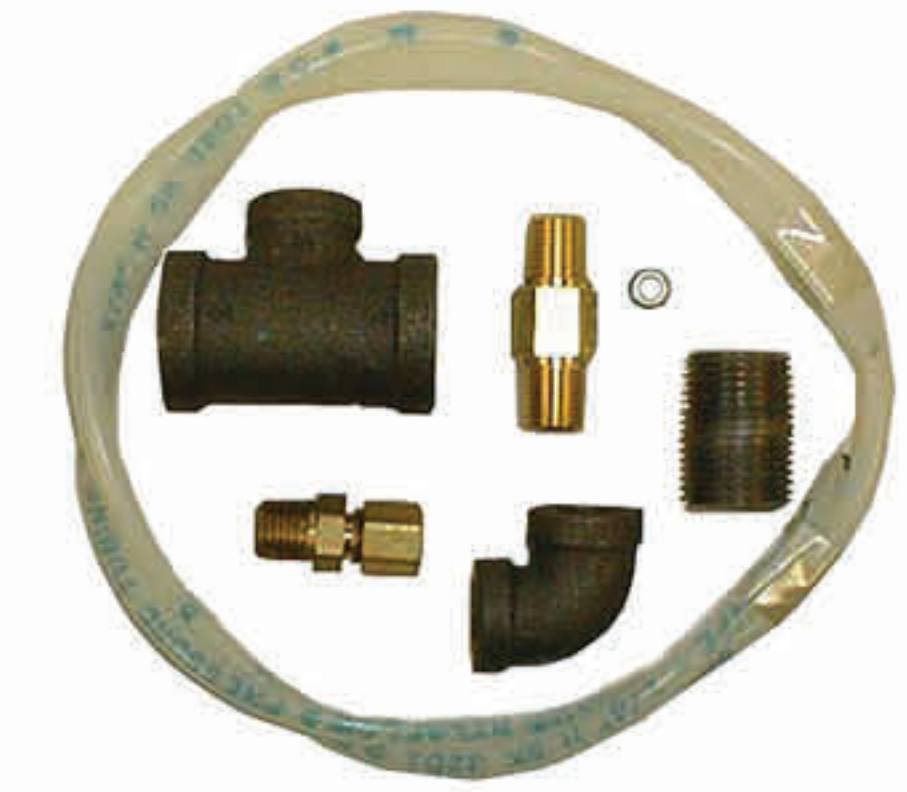
TIM-4431
Connecting Hose Kit for Thunder Oil Pumps
 Includes 5' air hose, 5' material hose, union adapter, air coupler and connector

PRESSURE RELIEF KITS



TIM-2000-4

TIM-2000-4A



TIM-RELIEF-KIT

Relief Setting	600 PSI	900 PSI	100 PSI
Description	<p>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, nylon tubing, compression nuts for tubing connections and 2" PVC adapter for tank fill cap. Use on 3:1 and 5:1 ratio pumps.</p>	<p>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, nylon tubing, compression nuts for tubing connections and 2" PVC adapter for tank fill cap. Use on 9:1 ratio pumps.</p>	<p>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.</p>

FLUID Y-STRAINER



TIM-2000-6A



TIM-2000-10

Inlet/Outlet	1/2"(F)	1"(F)
Working Pressure	1,200 PSI	200 PSI
Description	<p>20 Mesh Filter For keeping contaminants out of a fresh oil system</p>	<p>20 Mesh Filter For keeping contaminants out of a waste oil system</p>

PUMP ACCESSORIES

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



PUMP ACCESSORIES

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	<p>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.</p>	<p>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.</p>	<p>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.</p>

BUNG ADAPTERS

	Description	Used On
67145-3-B	2"(M) Thread	Thunder 3:1 Ratio Oil Pumps
67145-4-B	2"(M) Thread	Thunder 5:1 Ratio 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 Ratio Oil Pumps
67088-4	Water-Tight Seal Kit Consists of 67088 seal kit & 67145-4-B bung adapter	Thunder 5:1 Ratio Oil Pumps



67145-4-B



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



96916



91790

PUMP ACCESSORIES

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 2 2" Openings



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 <i>Order 3/4" downtube & check valve (TIM-196-C) separately</i>	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 <i>Order 1-1/2" downtube & check valve (TIM-166-LLC) separately</i>	Thunder 5:1 Stub Pumps
TIM-465	Tote Mounting and 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
Container Size	55-Gallon Drum	55-Gallon Drum	55-Gallon Drum	55-Gallon Drum	275-Gallon Tank	55-Gallon Drum	275-Gallon Tank
Included Accessories	1" x 6' Suction Hose	1" x 6' Suction Hose	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
Foot Valve	Yes	Yes	No	No	No	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)
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



TIM-1056

TIM-1058

PUMP ACCESSORIES

DRUM COVERS

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



71060-1

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-lb Drum	55-Gallon, 400-lb Drum
Cover Used With	TIM-451-1	71060-1
Used On	All Thunder 2" & 3" Pumps	All Thunder 2" & 3" Pumps & all AFX Series Pumps



640164

PUMP ACCESSORIES

PUMP LIFTS

	Description	Max. Height	Required Drum Cover	Used On
640225	Air-Operated Lift for 16-Gallon or 120-lb Drum	62"	TIM-451-1	All Thunder 2" & 3" Pumps
640067	Single-Acting Cylinder Lift for 55-Gallon or 400-lb Drum	92"	71060-1	All Thunder 2" & 3" Pumps & all AFX Pumps



640067

GREASE FOLLOWER PLATES

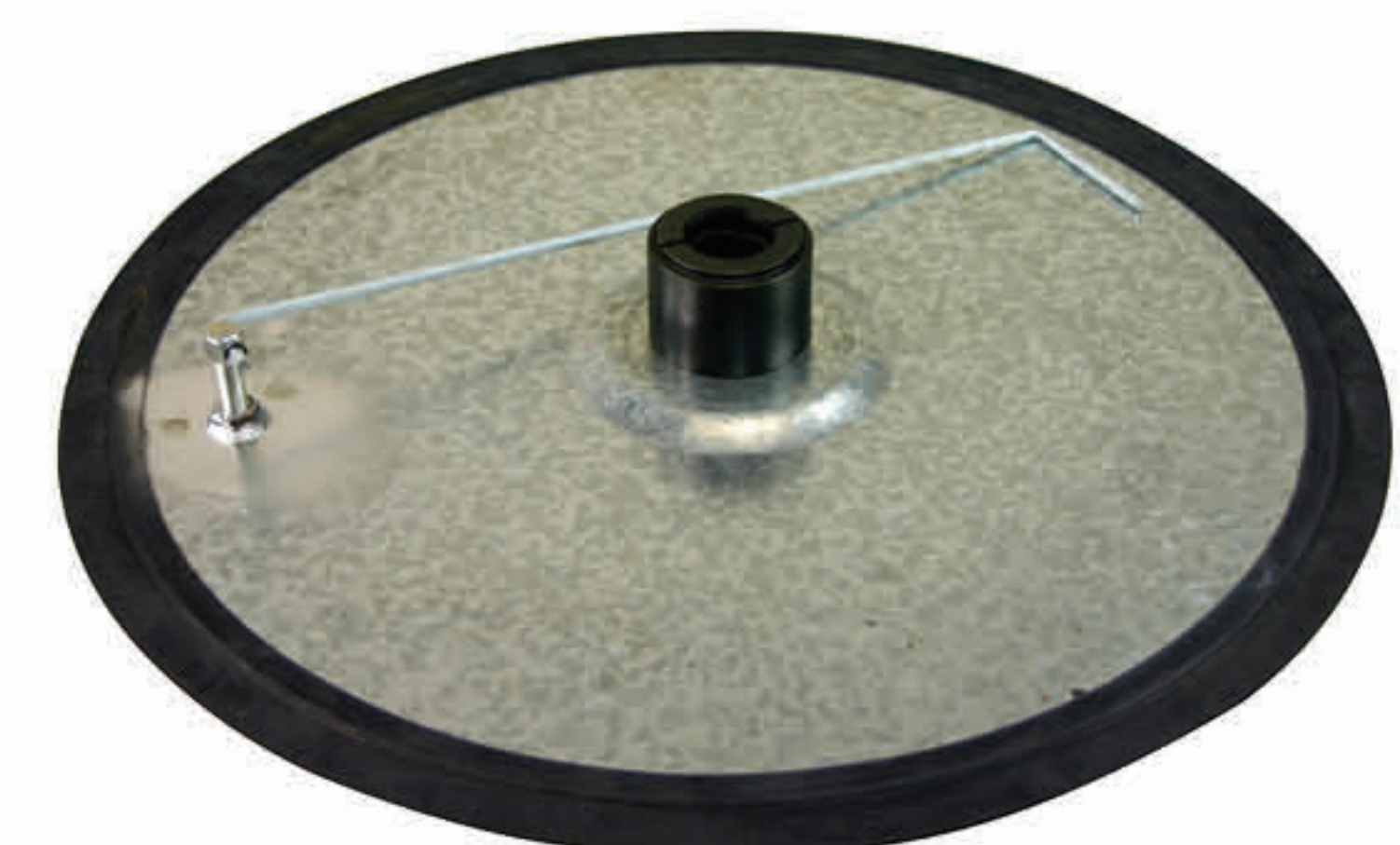
	Drum Size	Wiper Seal Material	Used On
TIM-368	35-lb	Rubber	Thunder 2" & 3" Grease Pumps
TIM-366	120-lb	Buna-N	Thunder 2" & 3" Grease Pumps
TIM-363	120-lb	Buna-N	AFX Series, 50:1 Ratio Grease Pumps
640152-1	120-lb	Buna-N	AFX Series, 100:1 Ratio Grease Pumps
TIM-640015-1	400-lb	Buna-N	Thunder 3" Grease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



TIM-368



TIM-363



TIM-640015-1

DRUM DOLLIES



TIM-353



TIM-358



TIM-352



TIM-355-1

Drum Size	35-lb	120-lb	120-lb	400-lb
Used On	Band Dolly with Polypropylene Wheels	Band Dolly with Polypropylene Wheels	Platform Dolly with Polypropylene Wheels	Band Dolly

PUMP ACCESSORIES

DRUM CARTS

TIM-401

Heavy-Duty Industrial Drum Cart

For use with either 16-gallon, 55-gallon, 120-lb or 400-lb drums. Two front tires are pneumatic for maneuverability on even the most difficult surfaces. Rear wheel includes wheel lock. Comes complete with 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-lb 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

Polyethylene 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

DRUM ACCESSORIES



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	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

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-321

Container Size	16 to 55-Gallon Drums	16 to 55-Gallon Drums	16 to 55-Gallon Drums
Fluid Compatibility	Oils & Antifreeze	Oils	Oils
Downtube Type	Adjustable Bung Adapter	Aluminum	Telescoping 22" to 40"
Body Material	Cast Iron	Aluminum	Cast Iron
Pump Type	Rotary	Rotary	Rotary—can be padlocked
Discharge	Spout with 3/4"(M)	Spout with Swing-Arm Return Drain	Spout with Swing-Arm Return Drain
Delivery	1 Gallon per 12 Revolutions	1 Gallon per 8 Revolutions	Quart Stroke Pump – 1 Quart per Cycle



TIM-322



TIM-322-A



TIM-323



4166-1

Container Size	16 to 55-Gallon Drums	16 to 55-Gallon Drums	16 to 55-Gallon Drums	5 to 55-Gallon Drums
Fluid Compatibility	Oil, Gasoline & Other Petroleum-based Products	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"	Telescoping 22" to 40"	Polyethylene
Body Material	Cast Iron	Aluminum	Aluminum	Polypropylene with Viton® Seals
Pump Type	Lever—pull/push—can be padlocked	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	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 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

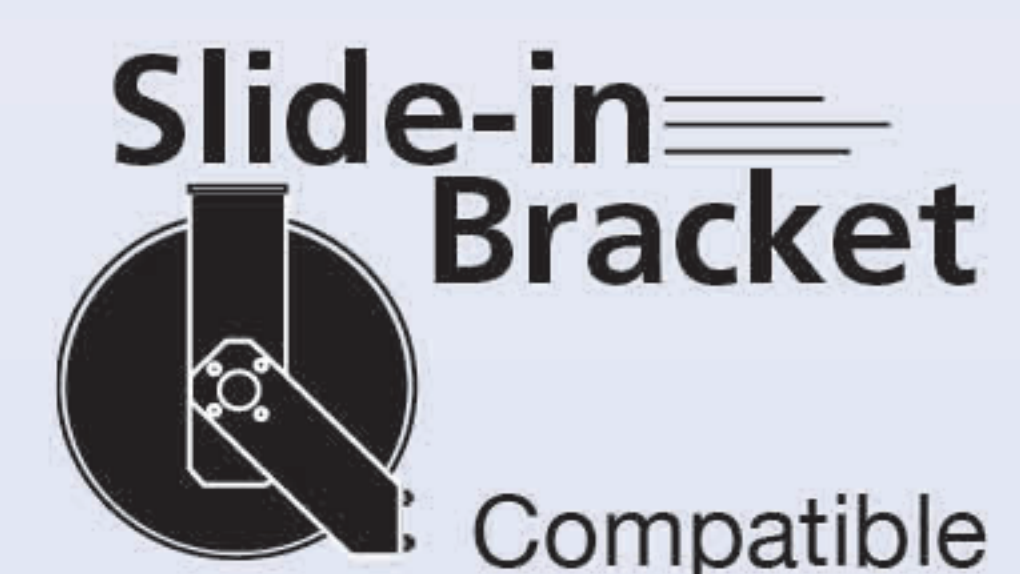
Base plate and support post are built from heavy 1/4" plate steel to reduce flexing and fatigue

HI-FLOW SWIVEL

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

DURABLE FINISH

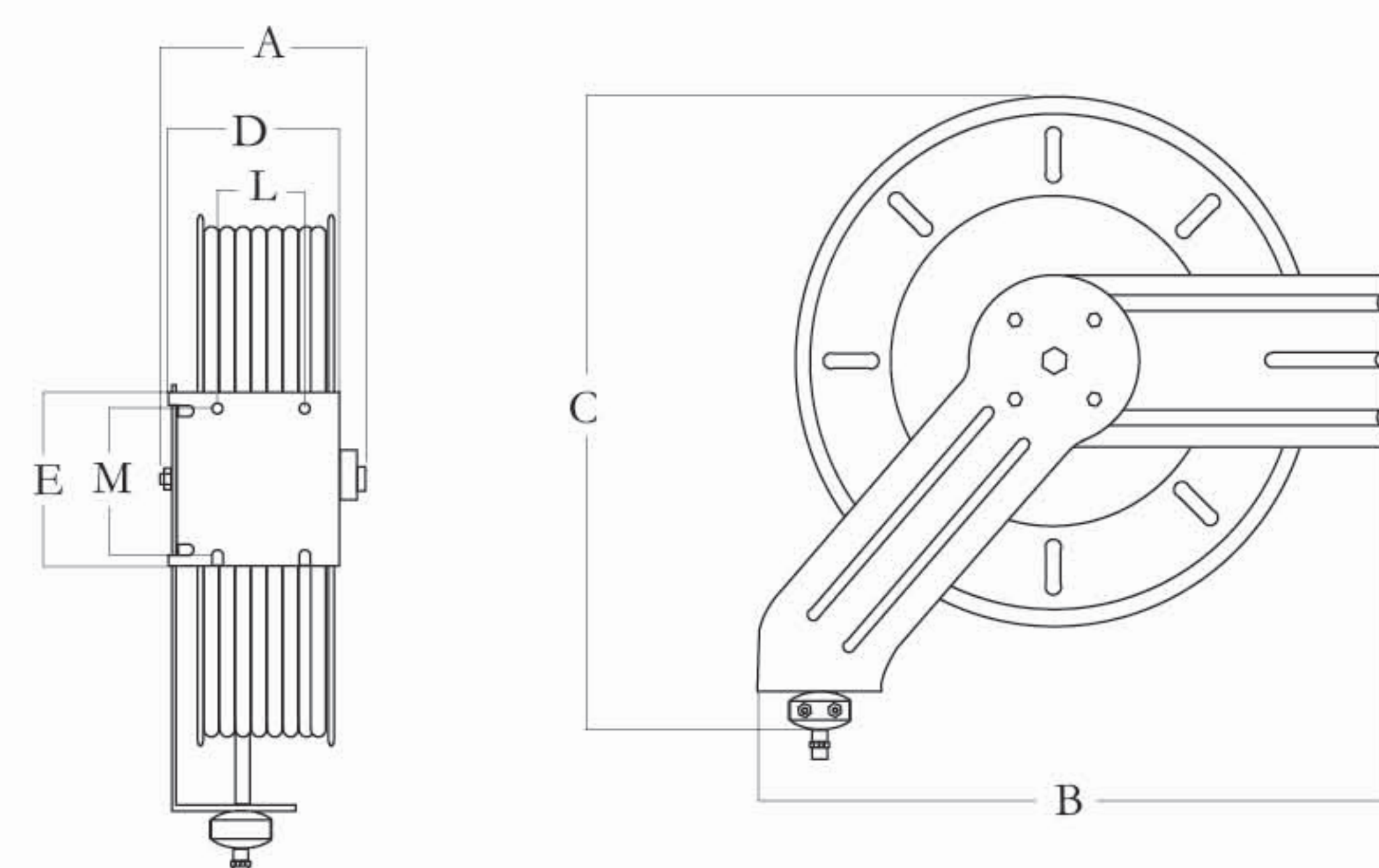
All Advantage Plus Series reels are powder-coated black for increased durability



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

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

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



TIM-3616-65A

OIL REELS - MEDIUM PRESSURE

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



TIM-3628-50

GREASE REEL - HIGH PRESSURE

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



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.



TIM-3600-50

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

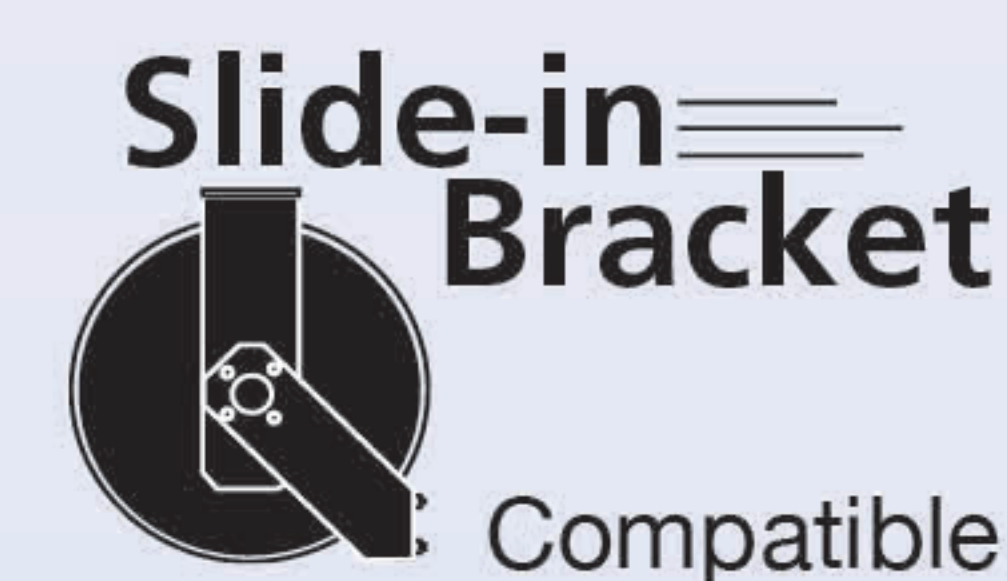
HI-FLOW SWIVEL

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

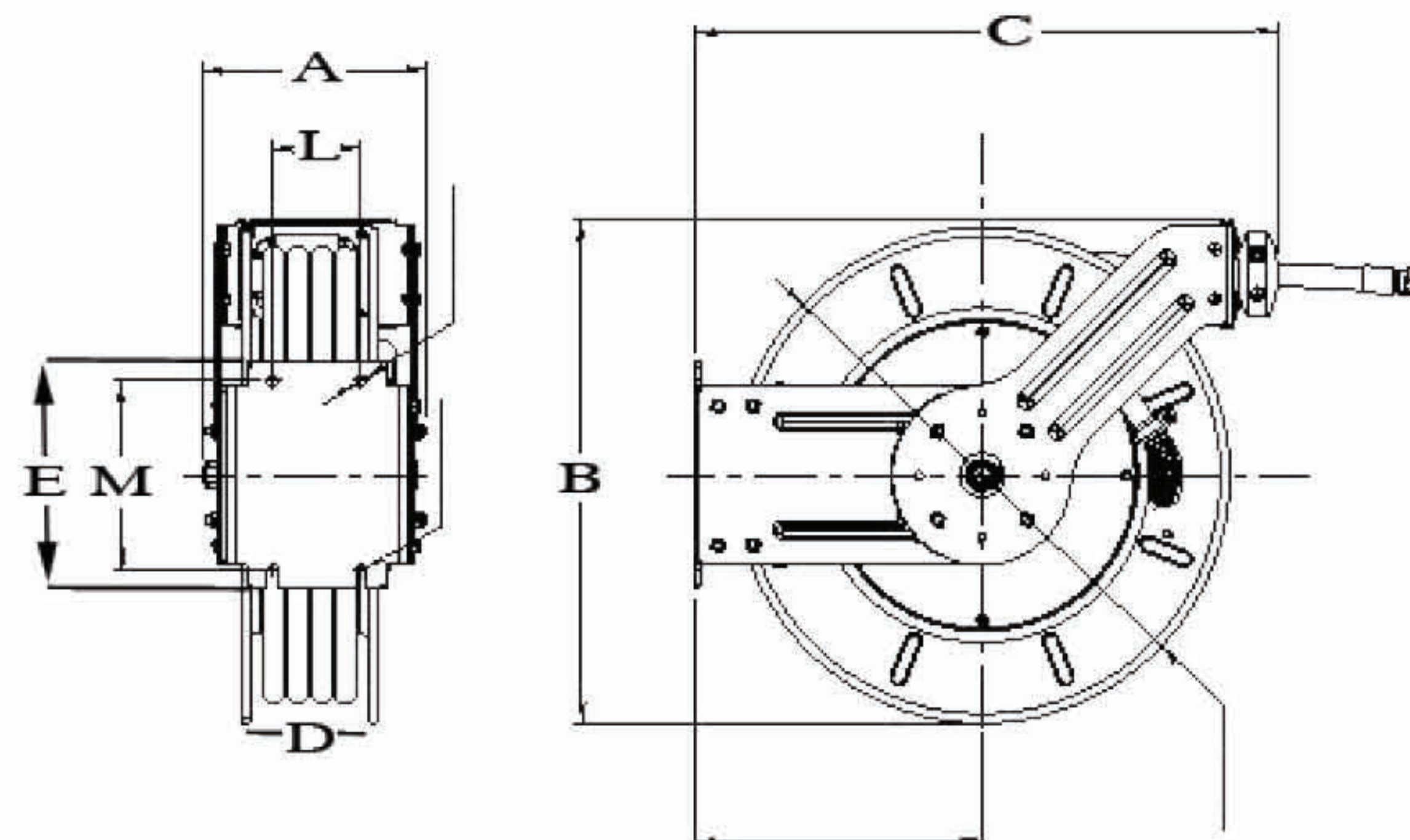
ADVANTAGE² DOUBLE-ARM REELS



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

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

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



TIM-3916-50A

OIL REEL - MEDIUM PRESSURE

TIM-3928-50

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



TIM-3928-50

GREASE REEL - HIGH PRESSURE

TIM-3936-50

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



TIM-3936-50

MOUNTING BRACKET

TIM-3900-50

Mounting bracket for Advantage Plus Double-Arm reels. Must be used in conjunction with TIM-3600-50 "slide in" mounting bracket.



TIM-3900-50

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

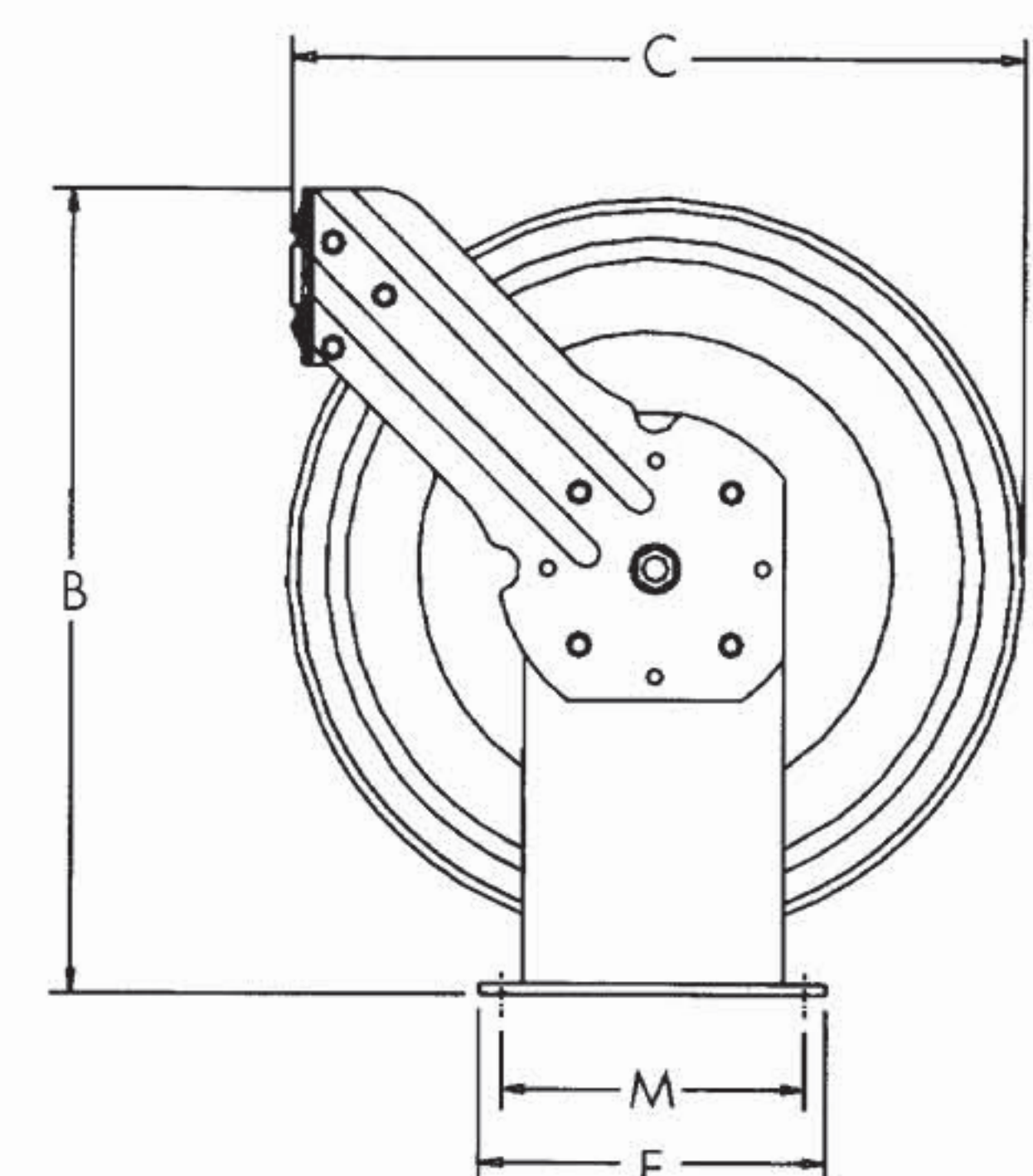
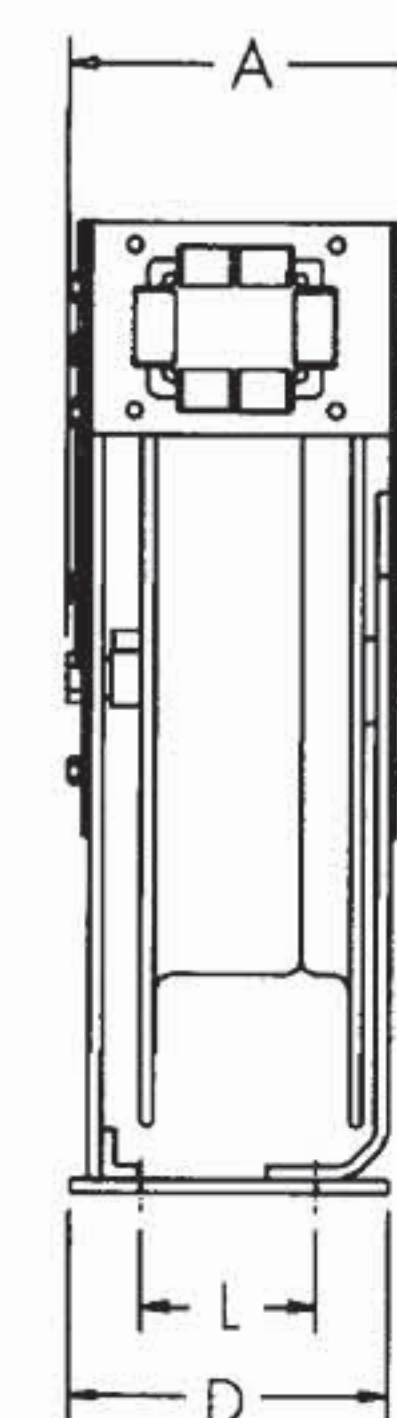
All Platinum Series reels are powder-coated grey for increased durability



TIM-3208-75P

SIZE INDEX CHART

Size Index	Reel Dimensions In Inches					Mount L-M
	A	B	C	D	E	
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

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

OIL, ATF & ANTIFREEZE REELS - MEDIUM PRESSURE

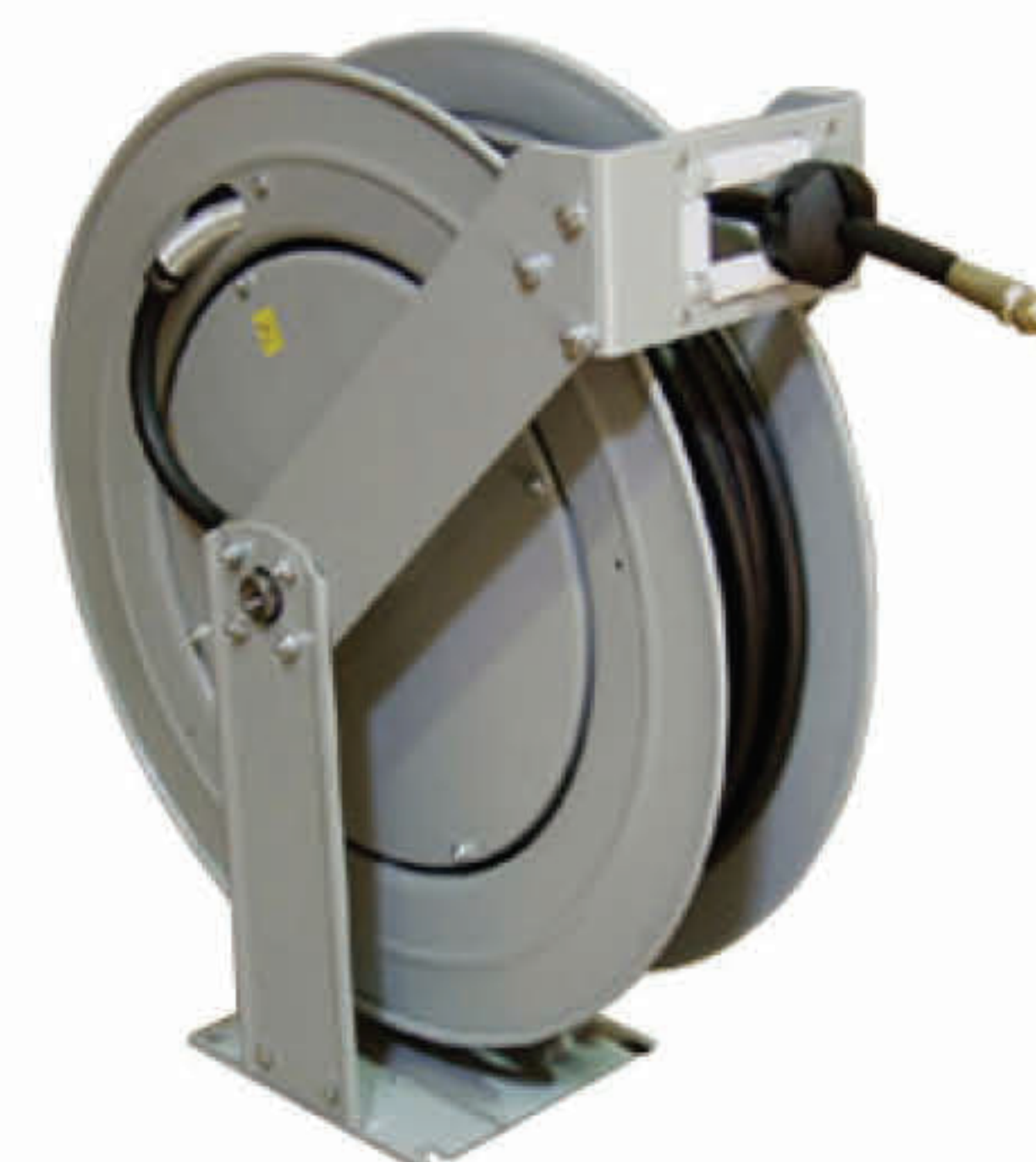
	TIM-3208-75P	TIM-3208-100P
Hose Size	1/2" x 75'	1/2" x 100'
Maximum PSI	2,500 PSI	2,500 PSI
Delivery Hose	TIM-4418-75S	TIM-4418-100F
Hose Stop	TIM-131-4	TIM-131-4
Inlet	1/2"(F)	1/2"(F)
Delivery Hose Thread Size	1/2"(M)	1/2"(M)
Weight	100 lbs	100 lbs
Size Index	1	1



TIM-3208-75P

GREASE REEL - HIGH PRESSURE

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



TIM-3306-75P

DIESEL FUEL, GASOLINE & OIL REEL

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



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



TIM-3600-CAB

TIM-3600-PAN

End-Panel Kit

Includes two end panels. Design allows for end user to customize the panels with their own logo/decals. Order one kit for each bank of reels.



TIM-3600-PAN
(decal not included)

REQUIRED CONNECTING HOSES FOR CABINET ENCLOSURES

	AIR-HP-3838-4NS	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-HP-3838-2	Air	3/8"	3/8"(M) x 3/8"(M)	300 PSI	2'	3/8" Air/Water Reels
AIR-HP-3838-2N	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-131-A	TIM-254-D	TIM-131-3	TIM-131-4	TIM-430
Hose ID	1/4"	1/2"	3/8"	1/2"	3/4"
Outside Diameter	2-1/2"	3-1/2"	3"	3"	3-1/2"
Reel	All 1/4" ID Hose Reels	Quick-Lube Consoles	3/8" Air Reels	1/2" Oil & Air Reels	3/4" Oil Reels
Style	Donut	Donut	Donut	Donut	Donut



TIM-131-A



TIM-131-4

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

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



TIM-601-RM

TIM-600-FM

SPECIFICATIONS

Meter Mechanism	Oval Gear
Measurement	Pts, Qts, Lts, Gals
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

CONTROL VALVES & METERS

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-600-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-600-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

CONTROL VALVES & METERS

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-742

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	Pts, Qts, Lts, Gals
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.



TIM-900B-1

CONTROL VALVES & METERS

Tip Extension



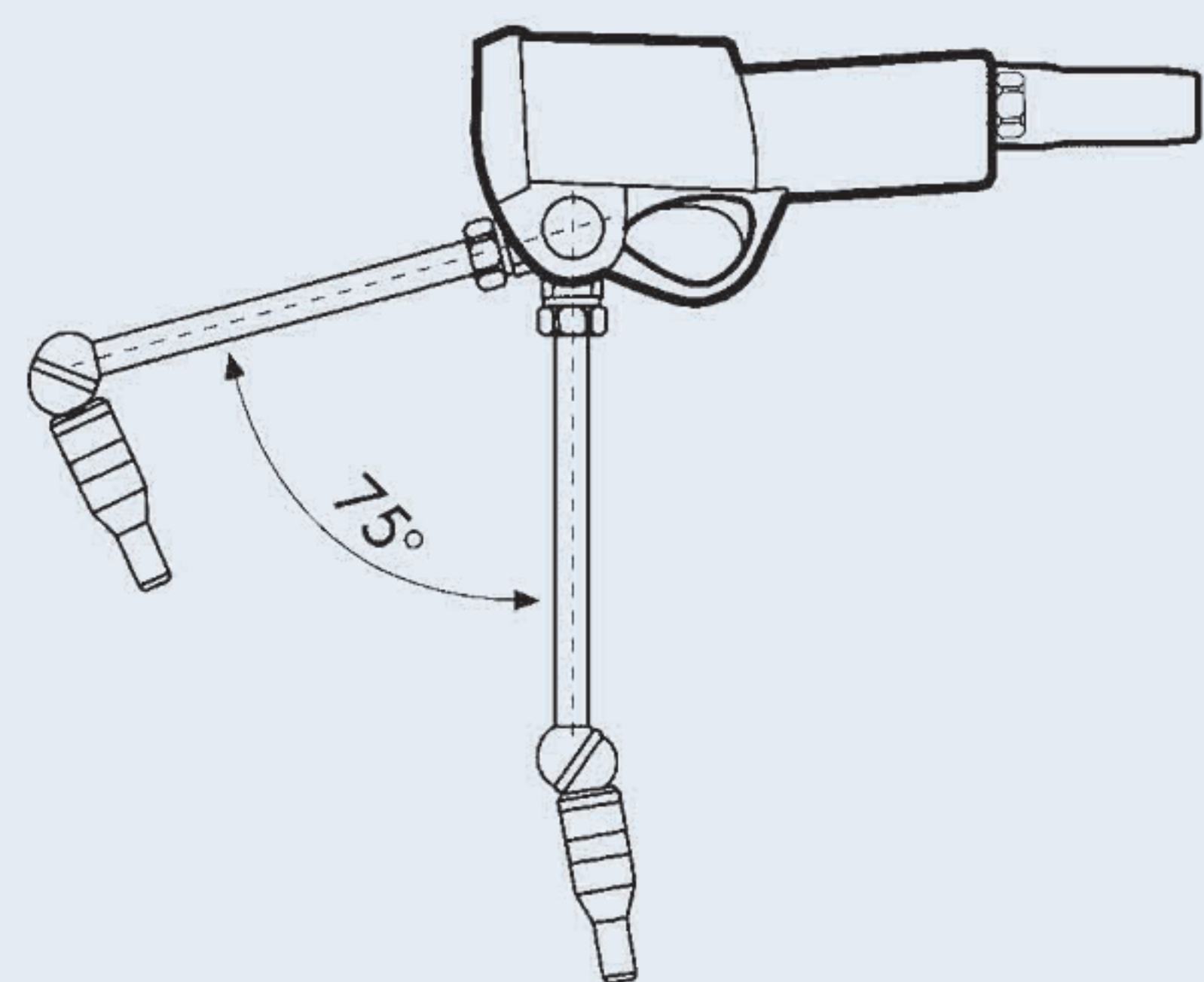
TIM-758-1



TIM-756-1



TIM-755-1



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" female swivel comes standard on all mechanical style meters



TIM-911-HF

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

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 57.



TIM-912-HF

1/2" IN-LINE METERS

	TIM-615	TIM-616
Type	Digital	Mechanical
Inlet/Outlet	1/2"(F)	1/2"(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



TIM-616



TIM-615

CONTROL VALVES & METERS

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



TIM-717-1

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

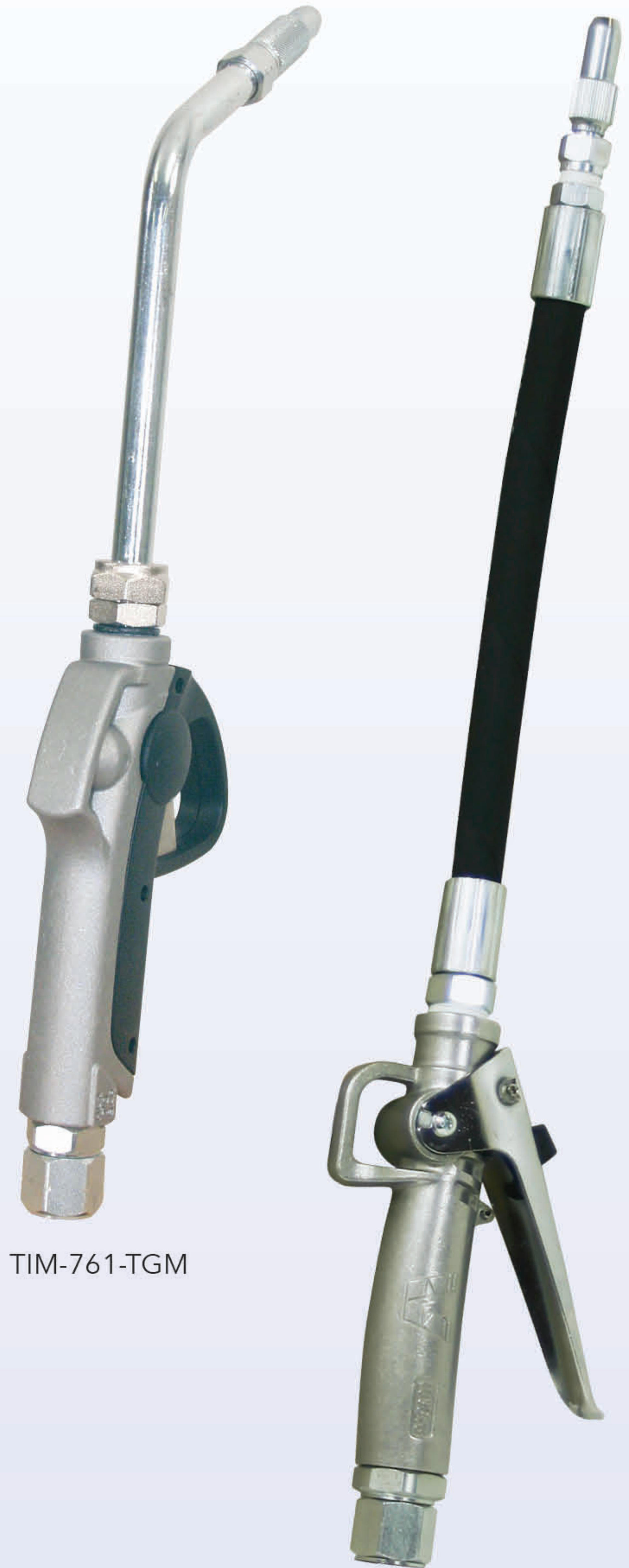
All Trigger Guard (TG) style valves have a built-in trigger guard which helps prevent accidental dispensing

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
1,000 PSI

Weight (TIM-761)
1.9 lbs

Weight (TIM-761-TG)
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

CONTROL VALVES & METERS

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



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



635395-2

635193

CONTROL VALVES & METERS

Weight (635392)

2.2 lbs







Weight (635193)

3.2 lbs

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 57.

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



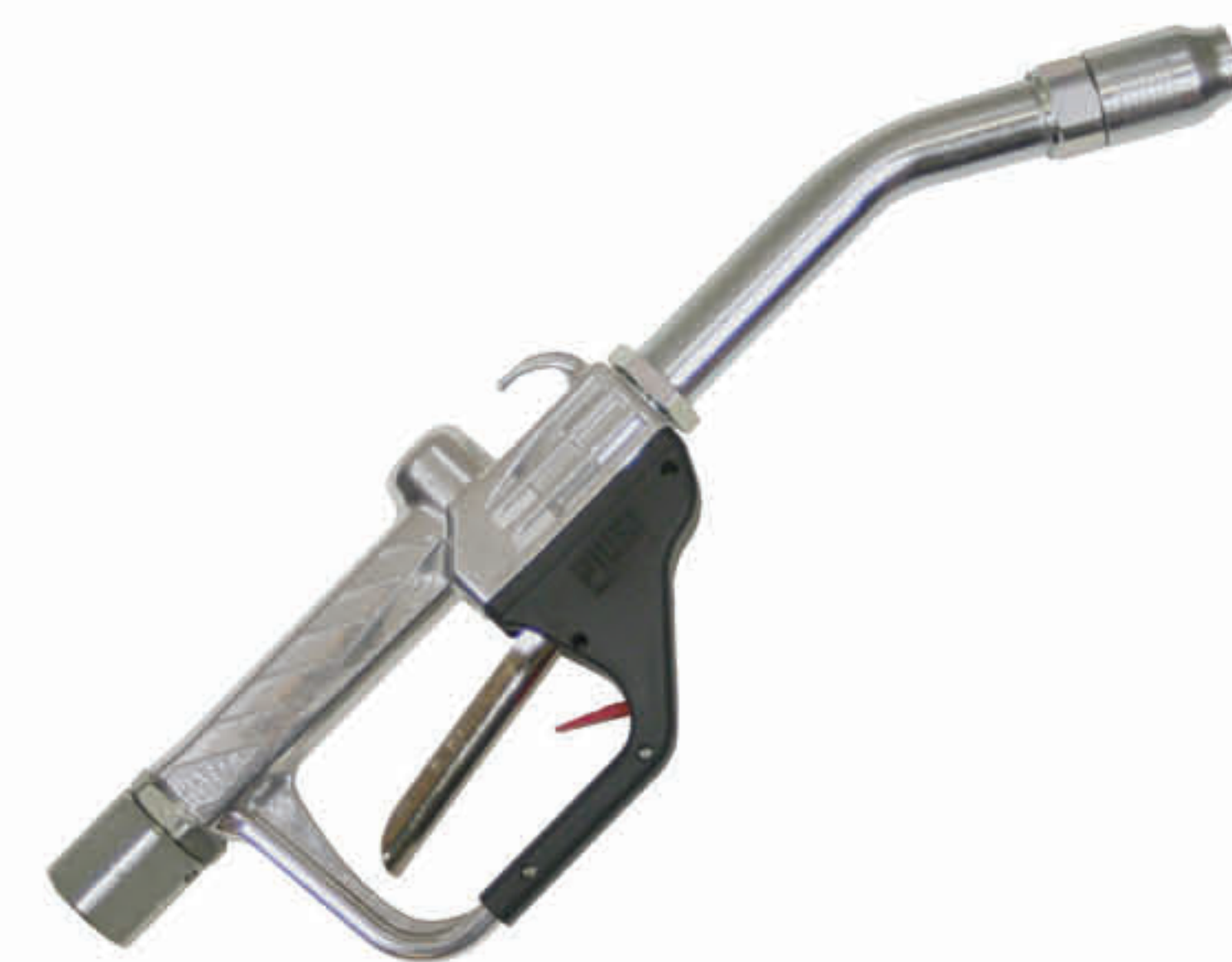
635108

CONTROL VALVES & METERS

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	16 GPM
Maximum PSI	1,470 PSI



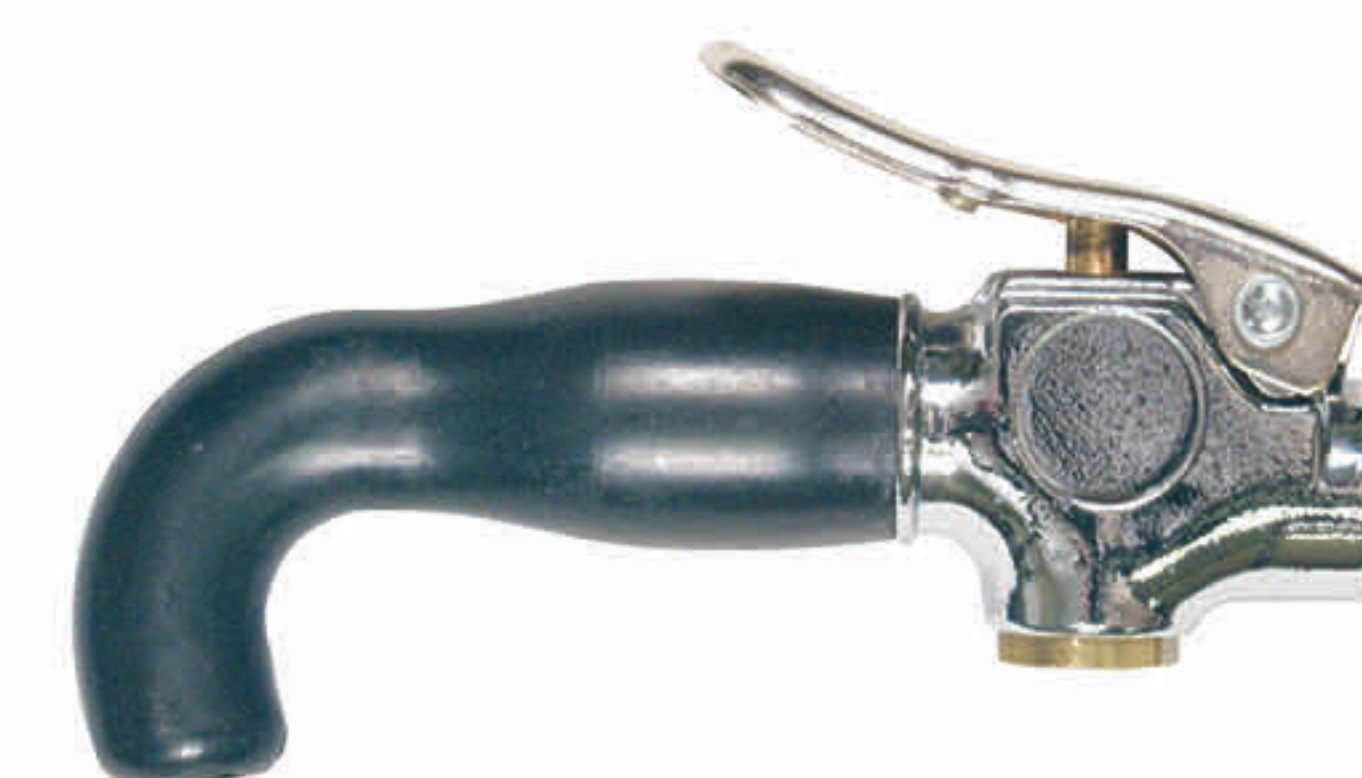
TIM-48-S

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



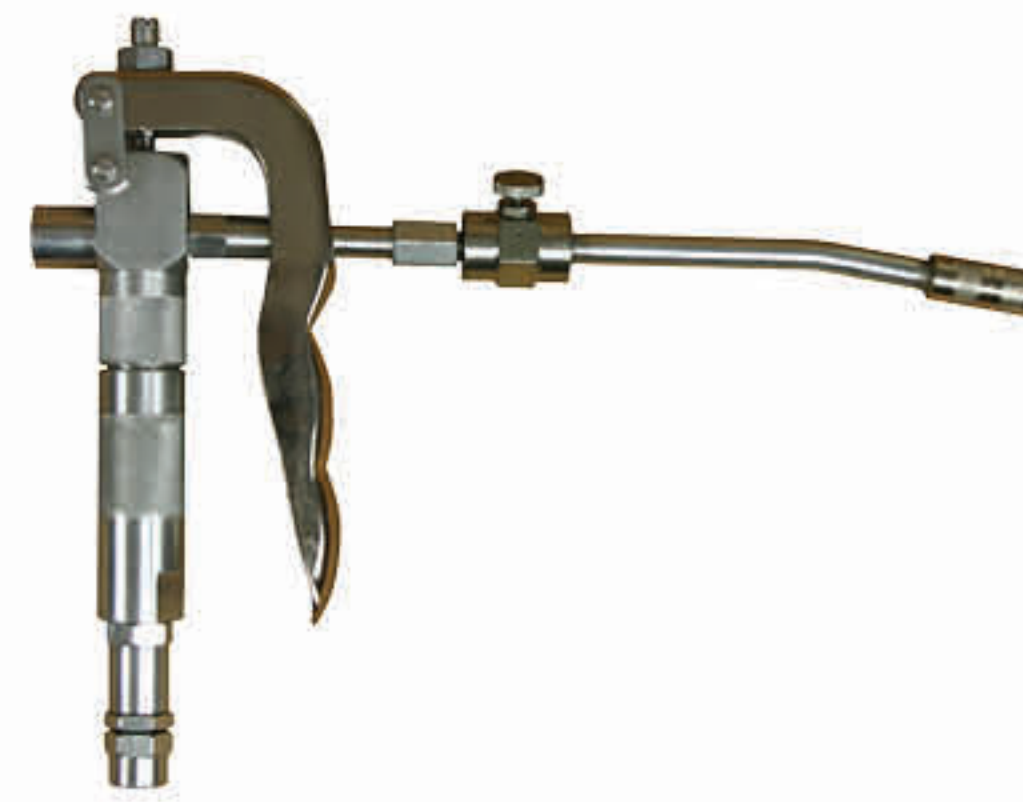
TIM-720-RED

Color	Blue	Yellow	Black	Green	Red
-------	------	--------	-------	-------	-----

STANDARD, BOOSTER & HI-FLOW CONTROL VALVES



TIM-794



TIM-795-1

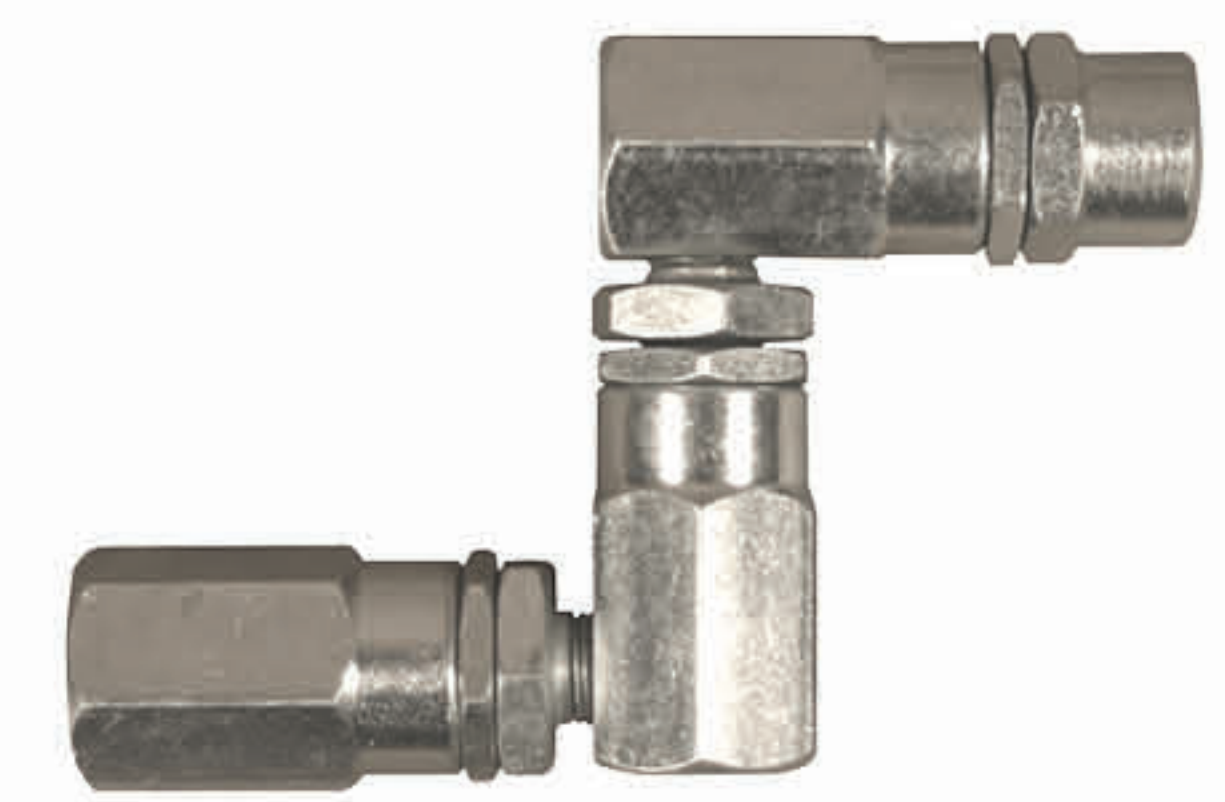


636111

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-110	Z-Swivel	1/2"-27(M) x 1/4"(M)	6,000 PSI	Existing Alemite or Lincoln Grease Systems
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



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

CONTROL VALVES & METERS

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



TIM-4361

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.

OIL BARS



TIM-3-A

SPIGOT REPAIR KIT

TIM-OILSPIGOT-KIT

Spigot Repair Kit
Oil Bar (TIM-5-A2) and taper 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

TIM-6

Oil Bar Adapter Kit
Used to connect fluid dispensing system solenoid valve to oil bar. Use one 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



TIM-5-A2



TIM-500-FV

OIL BARS

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 6 units.

TIM-30-5IND

5-Quart Graduated Measuring Container
Units include an easy-open hinged lid to help protect from contaminants. Color is transparent white for easy viewing of liquid level. Box contains 1 unit.

TIM-30-11A

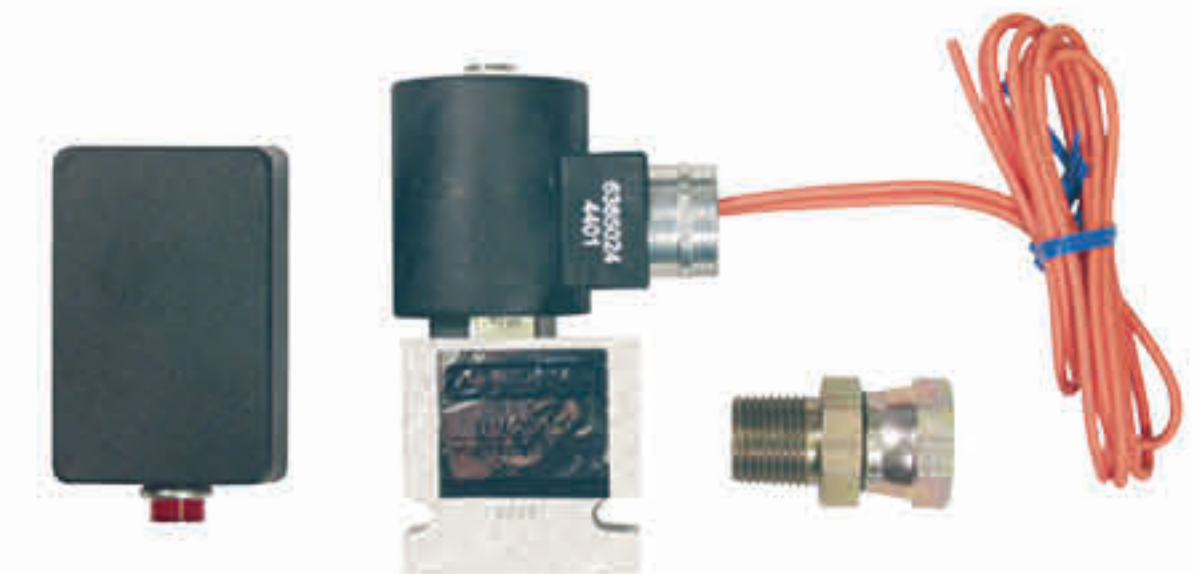
Plastic Replacement Spout
For TIM-30-5A



TIM-30-5A

ACCESSORIES

TIM-2000-1	<p>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.</p>
TIM-2000-2	<p>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 junction wiring box.</p>
TIM-2000-2A	<p>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 junction wiring box.</p>
TIM-2000-3A	<p>Wire Spool 500' spool of 2-conductor 22-gauge wire <i>See page 83 for additional wire options.</i></p>
TIM-2000-4	<p>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. <i>A pressure relief kit is required on all TIM-2002 fluid inventory control systems</i></p>
TIM-2000-4A	<p>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. <i>A pressure relief kit is required on all TIM-2002 fluid inventory control systems</i></p>
TIM-2000-5	<p>Replacement Pulse Meter 1,000 PSI maximum working pressure, 1/2" NPT (F) <i>Big ALEC III and Big ALEC IV F.I.C. systems only. Not for use with antifreeze.</i></p>
TIM-2000-6A	<p>1/2" Y-Strainer 600 PSI maximum working pressure @ 100°F. Used for keeping contaminants out of the system.</p>
TIM-2000-7	<p>6' Connector Cable Used to connect the keypad unit to the wiring junction box. Cables can be connected together for runs up to 30'.</p>
TIM-2000-8	<p>10' Connector Cable Used to connect the keypad unit to the wiring junction box. Cables can be connected together for runs up to 30'.</p>
TIM-2002-OVLY	<p>Overlay Kit Replacement overlay for TIM-2002 keypad</p>
TIM-2002-REP	<p>Replacement Keypad Includes TIM-2002-CON keypad unit, junction wiring box and power source</p>
TIM-365-5S	<p>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. <i>Should be used in place of standard pulse meter when pumping antifreeze</i></p>
TIM-6	<p>Oil Bar Adapter Kit Used to connect fluid dispensing system solenoid valve to an oil bar. Use one kit per outlet.</p>



TIM-2000-1



TIM-2000-2
TIM-2000-2A



TIM-2000-3A



TIM-2000-4
TIM-2000-4A



TIM-2000-5



TIM-2000-6A



TIM-2000-7
TIM-2000-8



TIM-365-5S



TIM-6

FLUID INVENTORY CONTROL SYSTEM

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-370-2M 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

WASTE OIL EQUIPMENT

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.

TIM-WASTE-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)

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".



TIM-318



TIM-319

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



TIM-310

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. <i>Order TIM-4675 camlock kit below, TIM-1001-BV ball valve and TIM-4416-3 or TIM-4416-8 suction hose separately</i>
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.



QL-308



TIM-4675

WASTE OIL EQUIPMENT

DIAPHRAGM PUMP WASTE OIL PACKAGES

612999-4*

Waste Oil Evacuation System

Includes 666100-3C9-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 102.



612999-4

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 102.



612999-6

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.



TIM-370-3M

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.



TIM-2000-10



TIM-WAND-1

WASTE OIL EQUIPMENT

1" DIAPHRAGM PUMP REVERSING VALVE

TIM-4679

Reversing Valve Assembly

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



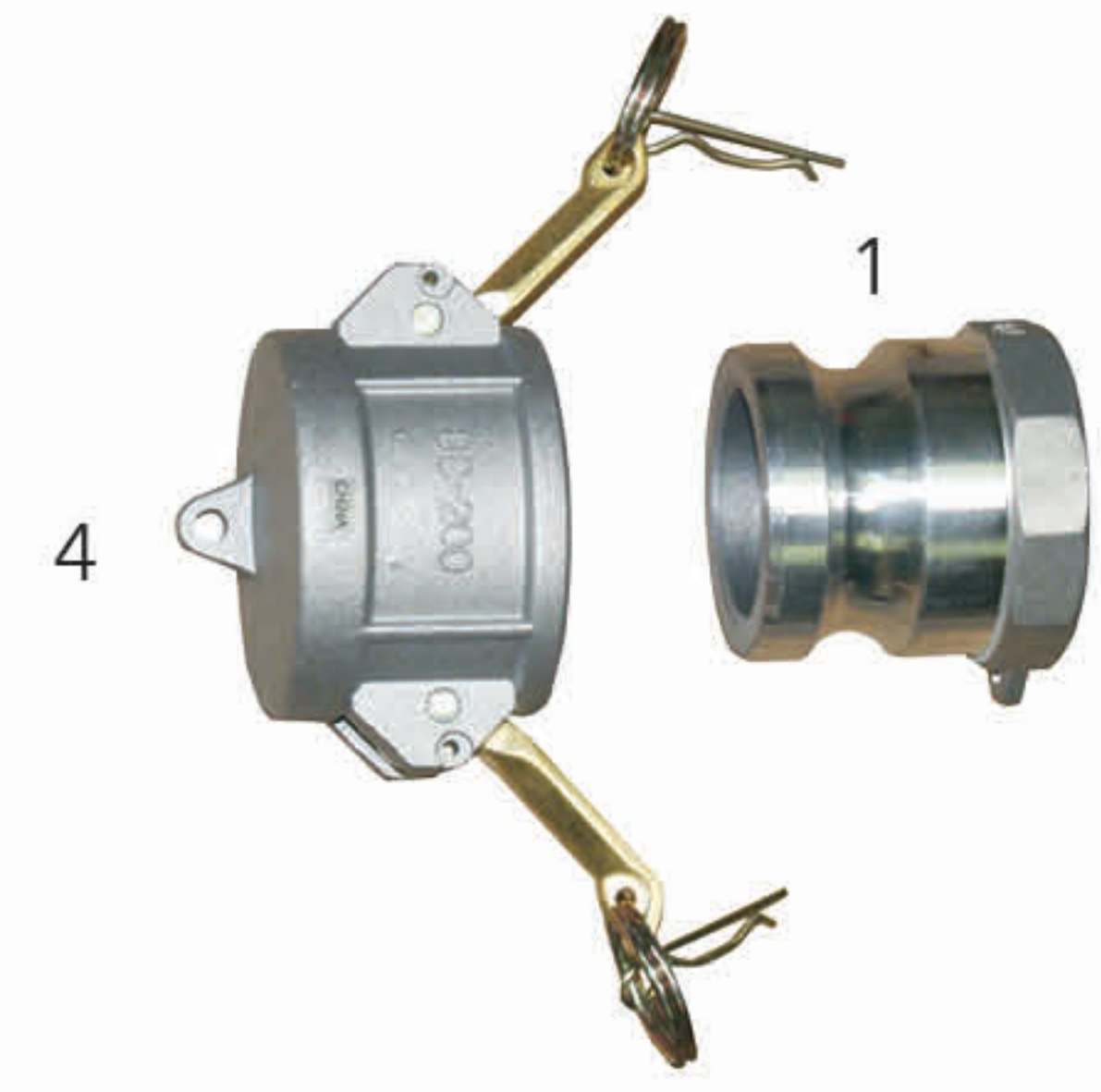
TIM-4679

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.



TIM-4676

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.

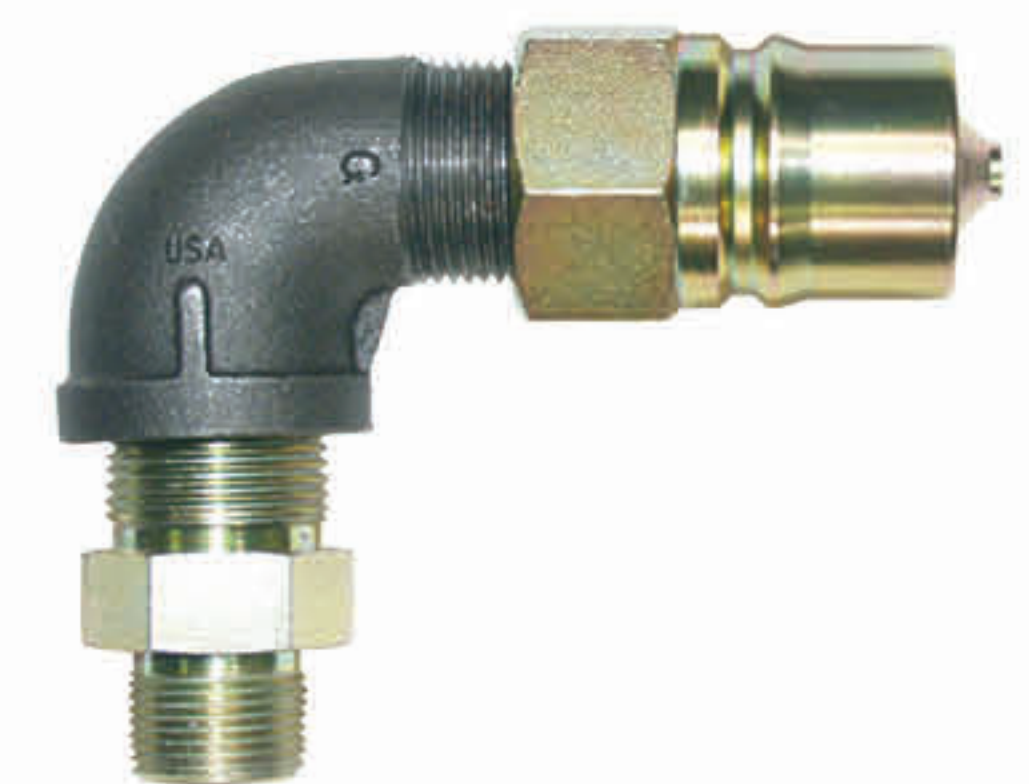


TIM-181-N

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.

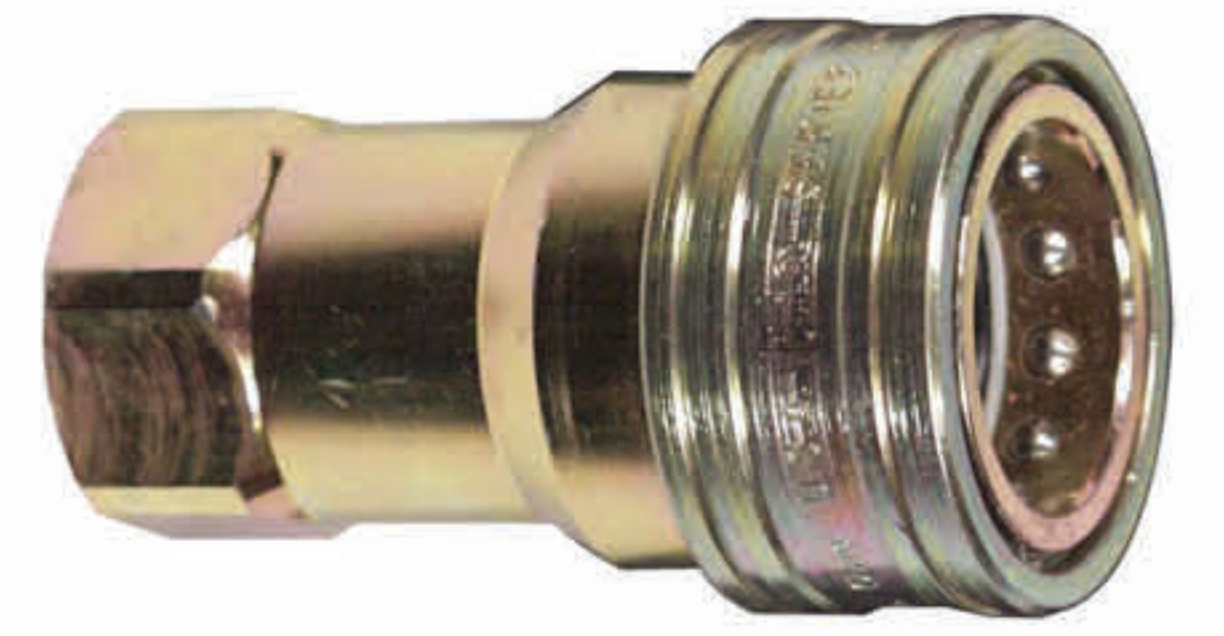


TIM-181-G

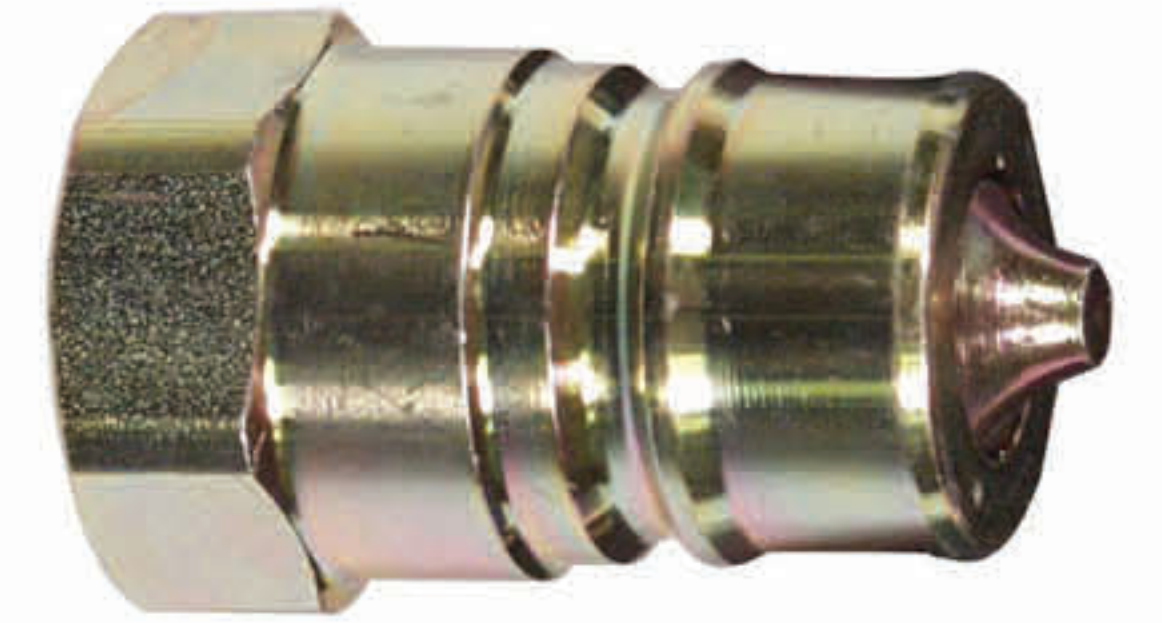
FLUID COUPLERS & CONNECTORS

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"(F) camlock adaptor

TIM-4670-2 3/4"(M) camlock adaptor

TIM-4670-3 3/4"(F) camlock coupler

TIM-4670-4 3/4" dust cap

TIM-4670-5 3/4"(M) camlock coupler

TIM-4675-1 1"(F) camlock adaptor

TIM-4675-2 1"(M) camlock adaptor

TIM-4675-3 1"(F) camlock coupler

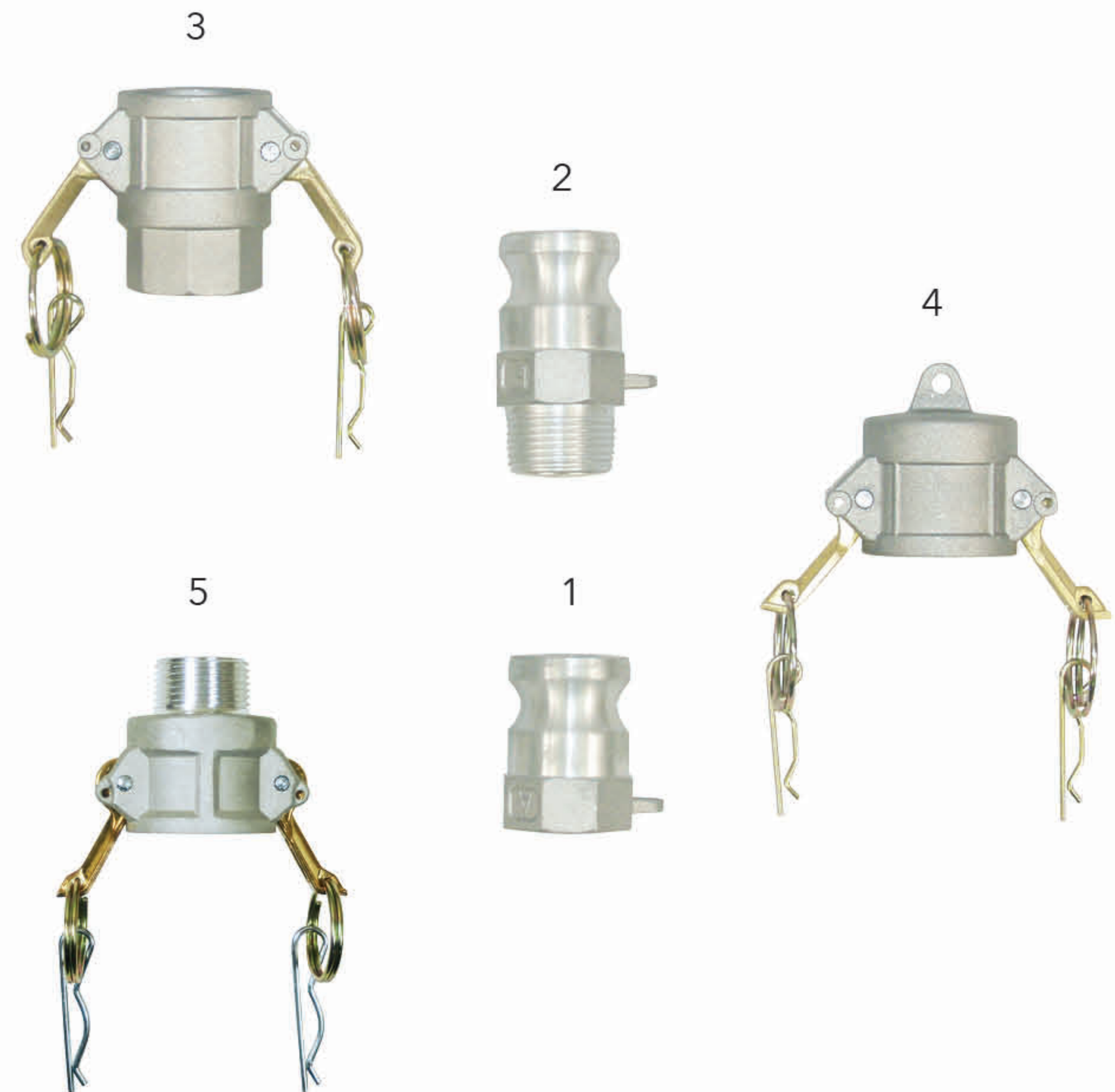
TIM-4675-4 1" dust cap

TIM-4676-1 2"(F) camlock adaptor

TIM-4676-2 2"(M) camlock adaptor

TIM-4676-3 2"(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



275AV-R23D



Most packages ship within 48 hours



Tanks built to UL 142 specifications



165DW-R23D



250-2-R23D



120BC-R23D



275A-R23D



275VDW-R23D

TANK PACKAGES

MAIN

APPLIES TO ALL PACKAGES

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

UL Bench

	Gallons	Length	Width	Height	Gauge
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

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

120B*	120	23"	34"	37.75"	12
120BC*	120	23"	34"	45"	12
120BDW*	120	34"	32"	40"	12
120BCDW*‡	120	34"	32"	40"	12
500C	498	61"	34"	64"	10
500CDW	499	72"	34"	64"	10

UL Round Tanks - Vertical

500RV	495	50"	50"	64"	12
500RVDW	490	50"	50"	64"	12

UL Round Tanks - Horizontal

525RH	525	46"	74"	46"	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.

TOTE PUMPING SYSTEMS

MOUNTING PLATE

Heavy-duty steel mounting plate

PRE-DRILLED

Pre-drilled holes for Advantage Series reels

BUNG ADAPTER

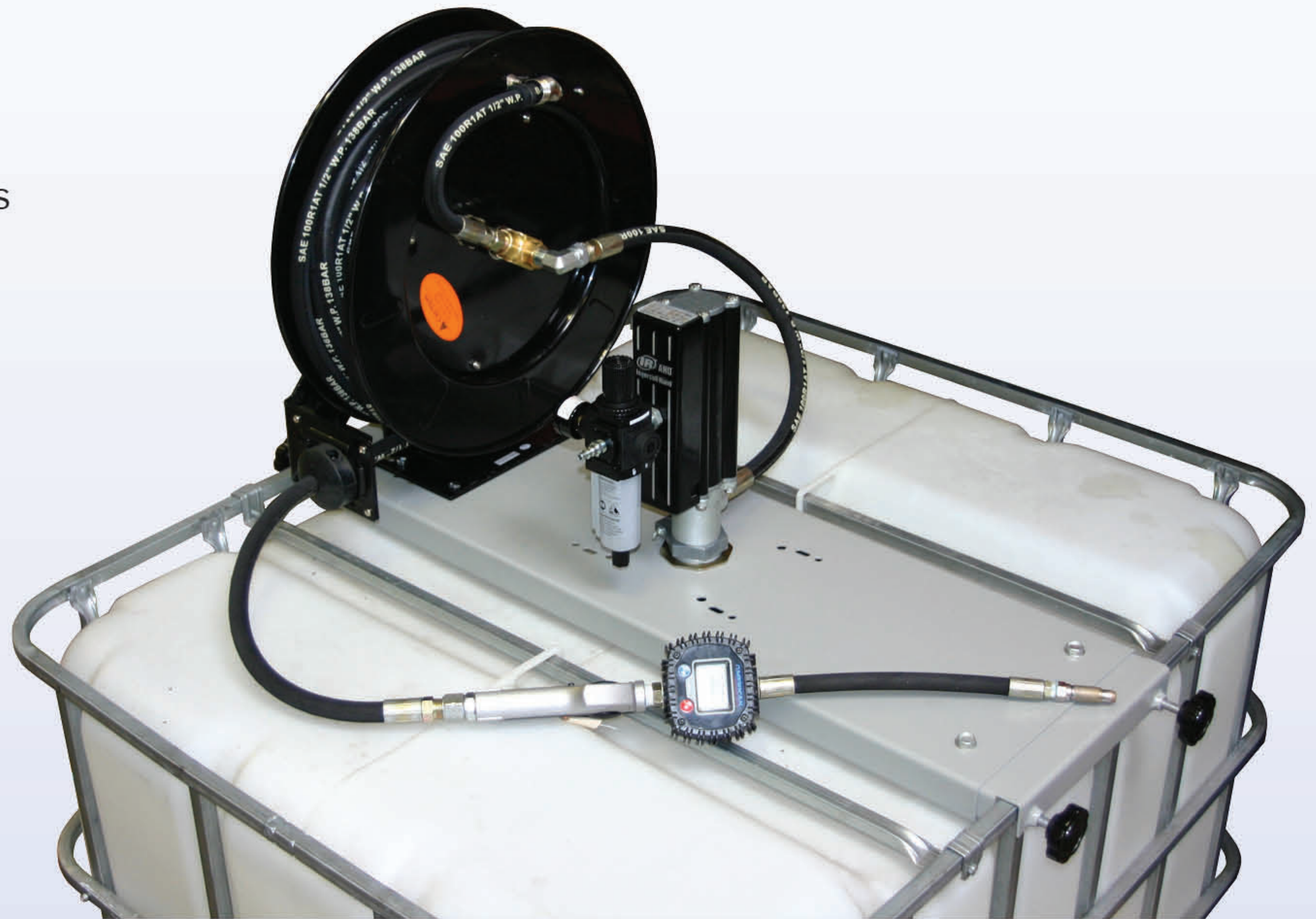
2" NPT bung adapter for pumps

FLEXIBILITY

Fits most totes

VERSATILE

Turns totes into a functional tank package



3:1 Ratio Pumps

	RPM-3-TM1	RPM-3-TM2	RPM-3-TM3
Pump	LM2203A-11-C	LM2203A-11-C	LM2203A-11-C
Mounting Bracket	TIM-464	TIM-464	TIM-464
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
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	TIM-4214-5	TIM-4214-5	TIM-4214-5
Downtube	TIM-MTL75-33	TIM-MTL75-33	TIM-MTL75-33
Low Level Cutoff	TIM-196-C	TIM-196-C	TIM-196-C

5:1 Ratio Pumps

	RPM-5-TM1	RPM-5-TM2	RPM-5-TM3
Pump	LM2305A-11-B	LM2305A-11-B	LM2305A-11-B
Mounting Bracket	TIM-464	TIM-464	TIM-464
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
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	TIM-4214-5	TIM-4214-5	TIM-4214-5
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	<p>Double-Tap Bushing For mounting 5:1 or 9:1 ratio 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)</p> <p><i>When using with an ARO 5:1 ratio Thunder pump order TIM-211 (1-1/2" x 3" nipple) separately</i></p>
TIM-164	<p>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).</p>
TIM-190	<p>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 thread is 2"(F).</p>
TIM-198	<p>Double-Tap Bushing For mounting Thunder 3:1 ratio 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).</p>



TIM-160



TIM-190

FILL CAPS

TIM-FILL-CAP	<p>2"(M) Vented Lockable Fill Cap For above-ground tanks</p>
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TIM-FILL-CAP

TANK VENTS

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



TIM-VENT-3

3-1/2 GALLON AST SPILL CONTAINER

TIM-SPILL-BOX3	<p>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.</p>
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TIM-SPILL-BOX3

TANK PLUGS

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



TIM-PLUG-2

TANK PACKAGES

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



75-TA-INSP

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-500-BV ball valve and TIM-4416-3 or TIM-4416-8 suction hose separately



QL-308

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



QL-101

AIR FILTERS

	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

ARO

IR Ingersoll Rand
Industrial Technologies



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 81

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

Lubricating Oil (29665): 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

ARO

IR Ingersoll Rand
Industrial Technologies



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.

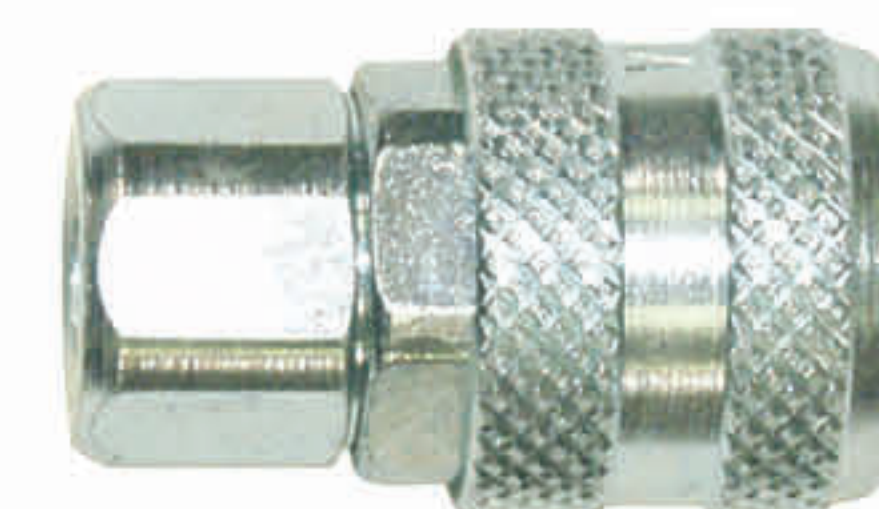
Couplers

	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)

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

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

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)

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



23103-004



23903-410



ARO-STOP® AUTOMATIC AIR SHUT-OFF

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-2000-2A	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 Inflator Gauge With dual head	Deluxe Tire Inflator 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

	Inlet/Outlet	Working Pressure
TIM-250-BV	1/4"(F)	400 PSI
TIM-500-600	1/2"(F)	600 PSI
TIM-502-BV	1/2"(F)	2,000 PSI
TIM-752-BV	3/4"(F)	2,000 PSI
TIM-1001-BV	1"(F)	600 PSI
TIM-1501-BV	1-1/2"(F)	600 PSI



TIM-250-BV



TIM-1001-BV

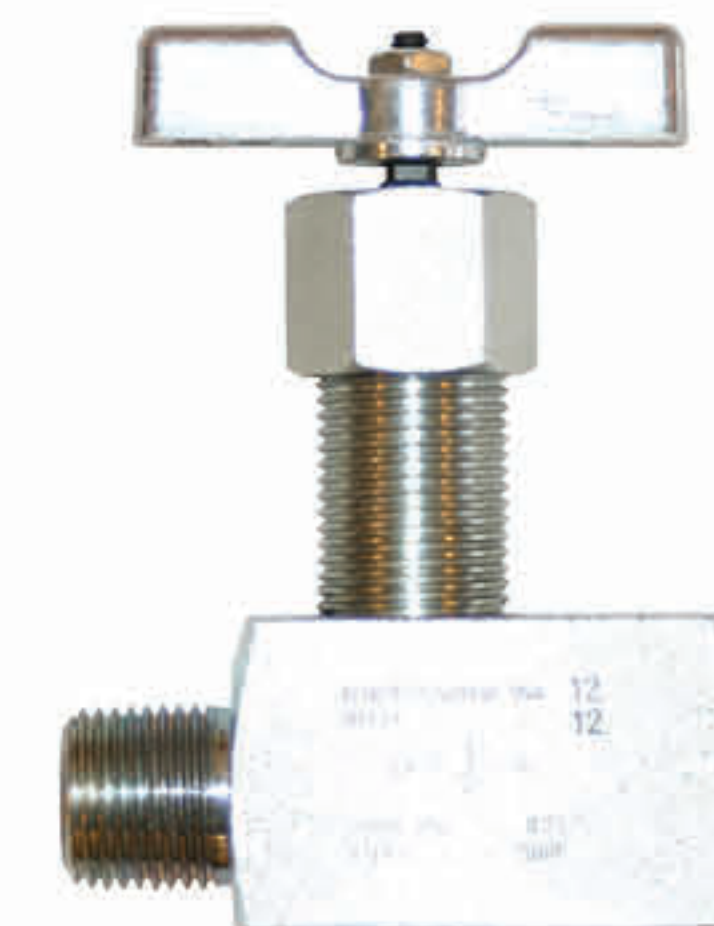
INSTALLATION ACCESSORIES

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-035-100	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'



TIM-035-S



TIM-083-S

INSTALLATION ACCESSORIES

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.

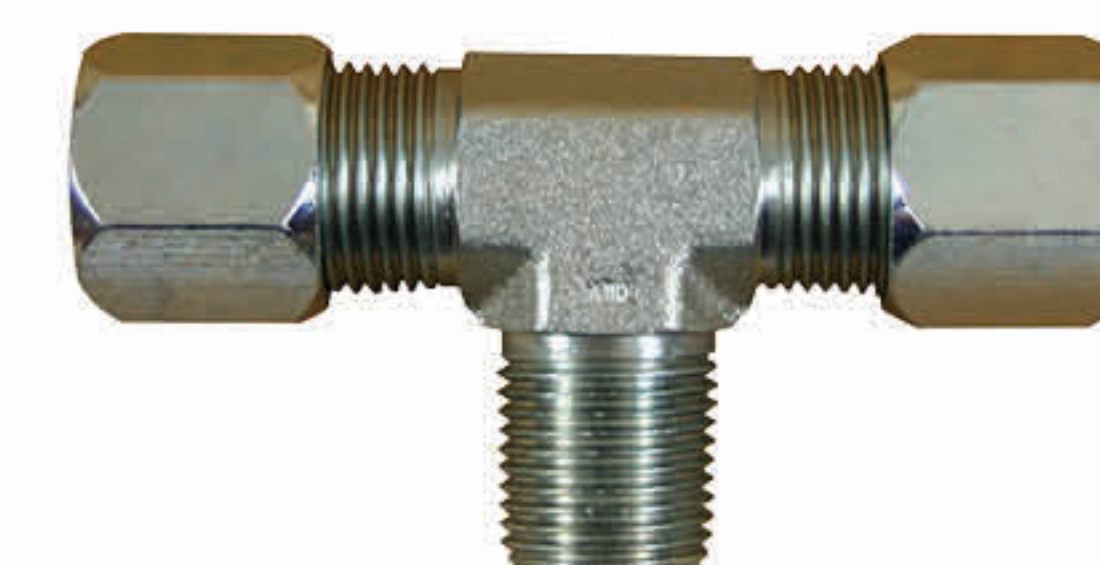
	Description	Type
SDB-10-TIM	1/2"(F) x Tube	90° elbow
SEB-10-TIM	Tube x Tube	90° elbow
SFB-10-TIM	1/2"(M) x Tube	Straight
SGB-10-TIM	1/2"(F) x Tube	Straight
SHB-10-TIM	Tube x Tube	Straight
SJB-10-TIM	Tube x Tube x Tube	Tee
SMB-10-TIM	Tube x 1/2"(M) x Tube	Tee
SOB-10-TIM	Tube x 1/2"(F) x Tube	Tee



SDB-10-TIM



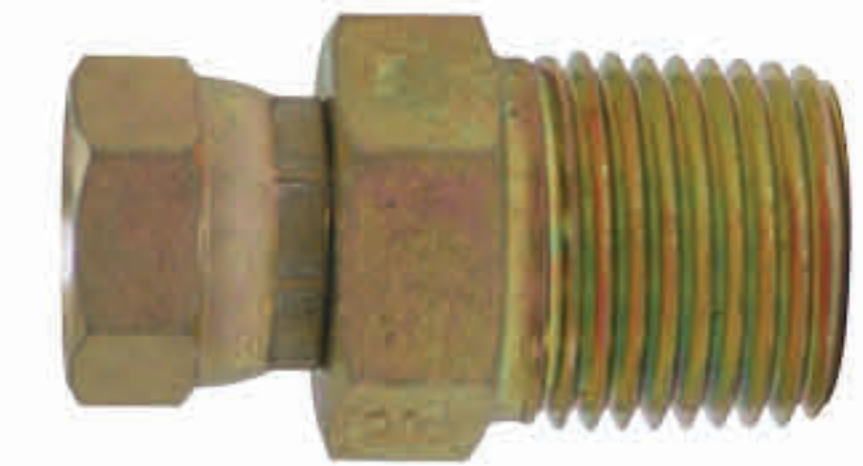
SHB-10-TIM



SMB-10-TIM

STRAIGHT (M) X (F) UNION ADAPTERS

	(M) x (F)	Max. PSI		(M) x (F)	Max. PSI
TIM-1404-22	1/8" x 1/8"	10,000 PSI	TIM-1404-86	1/2" x 3/8"	7,000 PSI
TIM-1404-42	1/4" x 1/8"	10,000 PSI	TIM-1404-88	1/2" x 1/2"	7,000 PSI
TIM-1404-44	1/4" x 1/4"	10,000 PSI	TIM-1404-128	3/4" x 1/2"	5,500 PSI
TIM-1404-46	1/4" x 3/8"	7,000 PSI	TIM-1404-812	1/2" x 3/4"	5,500 PSI
TIM-1404-64	3/8" x 1/4"	7,000 PSI	TIM-1404-1212	3/4" x 3/4"	5,500 PSI
TIM-1404-66	3/8" x 3/8"	7,000 PSI	TIM-1404-1216	3/4" x 1"	4,000 PSI
TIM-1404-68	3/8" x 1/2"	7,000 PSI	TIM-1404-1612	1" x 3/4"	4,000 PSI
TIM-1404-84	1/2" x 1/4"	7,000 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		(M) x (F)	Max. PSI
TIM-1501-44	1/4" x 1/4"	10,000 PSI	TIM-1501-88	1/2" x 1/2"	7,000 PSI
TIM-1501-66	3/8" x 3/8"	7,000 PSI	Y-43-4C*	1/2" x 1/2"	3,000 PSI
TIM-1501-86	1/2" x 3/8"	7,000 PSI	TIM-1501-1212	3/4" x 3/4"	5,500 PSI

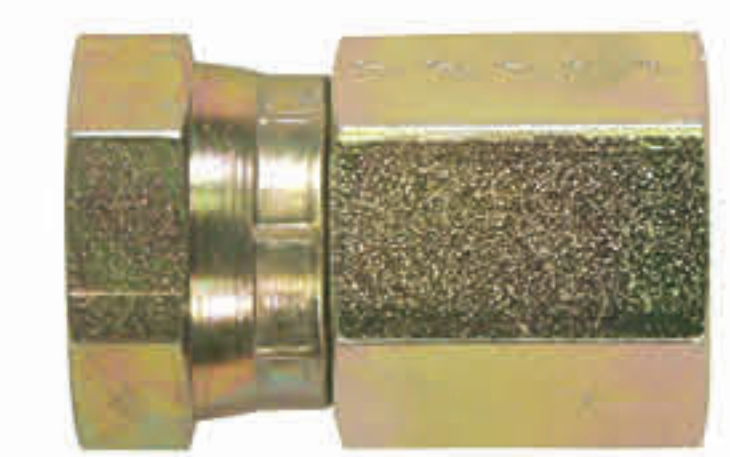
* Non-swivel



TIM-1501-88

STRAIGHT (F) X (F) UNION ADAPTERS

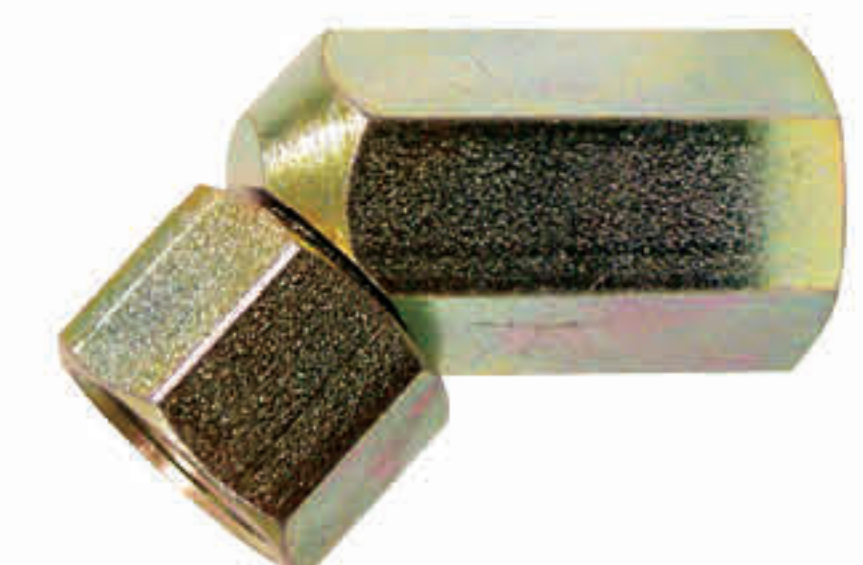
	(F) x (F)	Max. PSI		(F) x (F)	Max. PSI
TIM-1405-44	1/4" x 1/4"	10,000 PSI	TIM-1405-128	3/4" x 1/2"	5,500 PSI
TIM-1405-64	3/8" x 1/4"	7,000 PSI	TIM-1405-1212	3/4" x 3/4"	5,500 PSI
TIM-1405-86	1/2" x 3/8"	7,000 PSI	TIM-1405-1616	1" x 1"	4,000 PSI
TIM-1405-88	1/2" x 1/2"	7,000 PSI			



TIM-1405-88

45° (F) X (F) UNION ADAPTERS

	(F) x (F)	Max. PSI		(F) x (F)	Max. PSI
TIM-1504-44	1/4" x 1/4"	10,000 PSI	TIM-1504-88	1/2" x 1/2"	4,000 PSI
TIM-1504-66	3/8" x 3/8"	7,000 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



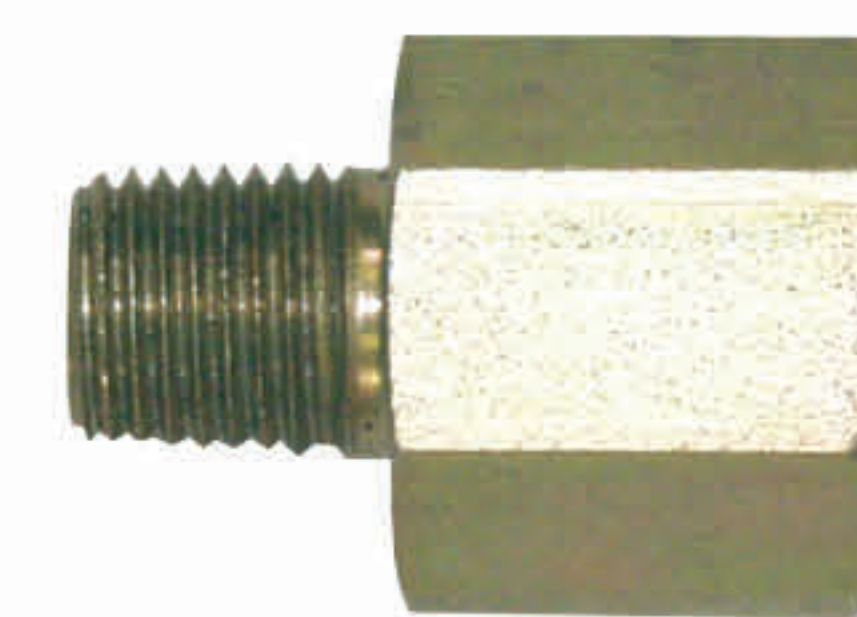
TIM-212-1

INSTALLATION
ACCESSORIES

(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

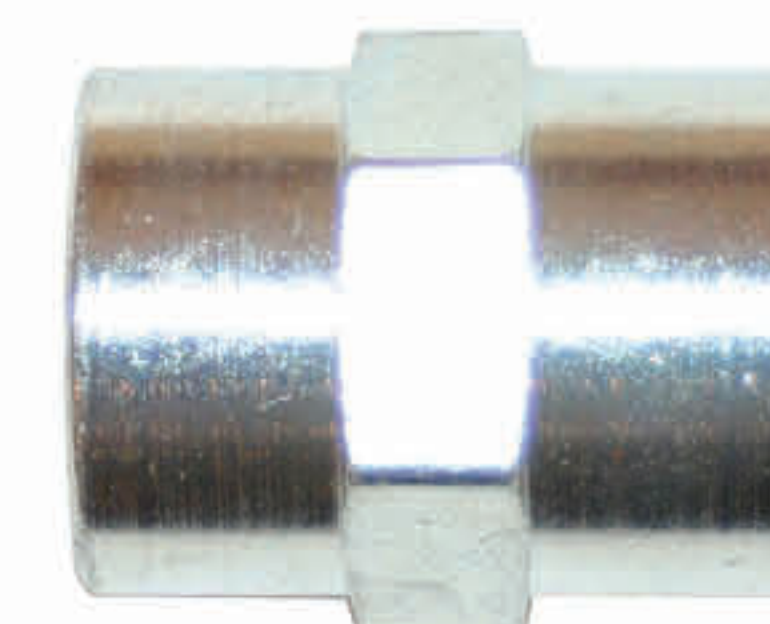


TIM-1223

(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 olymer 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-HP-3838-___*	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.

HOSES

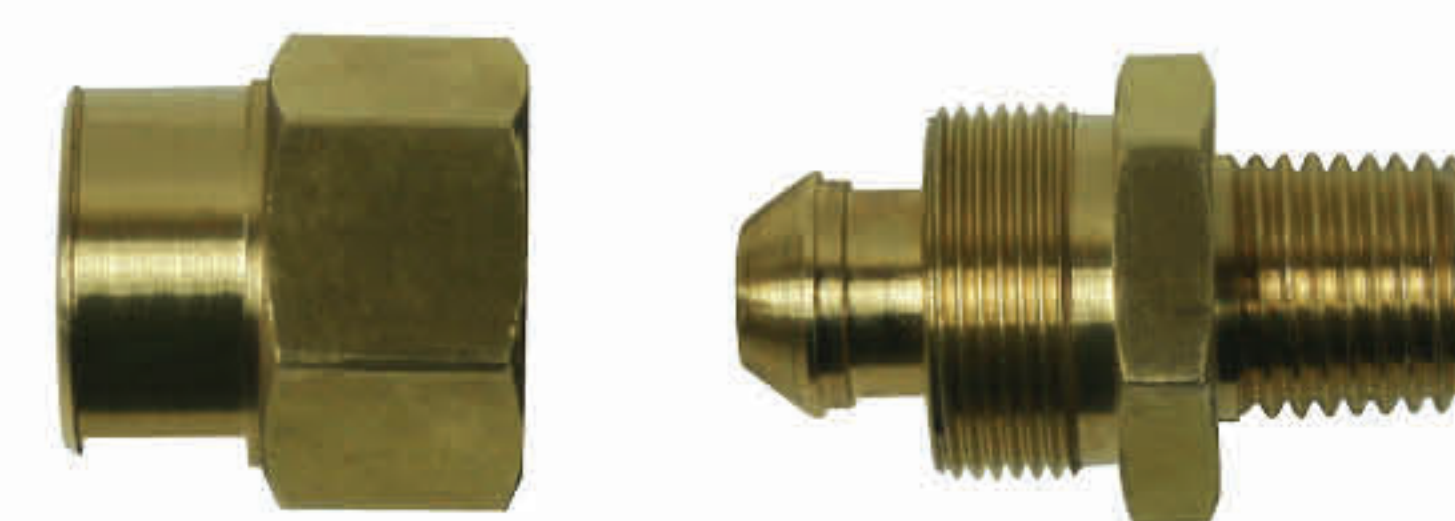
AIR & WATER DELIVERY HOSES FOR CONSOLES & REELS

	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-RF3800-14	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.

HOSES

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

600 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



4110



4111



4120



4127



4130



4131

PROFESSIONAL 18-VOLT GREASE GUN

This professional 18-volt grease gun sets a new standard for cordless electric grease guns. This high-quality professional grade tool is powered by an 18-volt battery which allows for longer dispensing intervals between charges. Full 7,000 PSI pressure capability. 42" whip hose with bend guard for better accessibility and grease coupler with ball check (coupler includes contaminant protection cap). Kit includes 18-volt grease gun with air release valve, one (1) battery pack, quick one hour battery charger (UL® rated), nylon shoulder strap and protective high impact carrying case. All guns and batteries are factory tested before shipping.

4155-1BLI Professional 18-Volt Grease Gun with one (1) Lithium-Ion Battery

4155-2BLI Professional 18-Volt Grease Gun with two (2) Lithium-Ion Batteries



4155-1BL1

ACCESSORIES

4155-1 18-Volt Replacement Battery for 4155 Grease Gun

4155-1LI 18-Volt Replacement Lithium-Ion Battery for 4155 Grease Guns

4155-2 Replacement Nylon Shoulder Strap for all 4155 Grease Guns

4155-3 Replacement 42" Whip Hose for all 4155 Grease Guns
Includes hose, bend guard with ball check and contaminate protection cap

4155-4 Grease Warmer for all 4155 Grease Guns
12-volt thermal heater for grease gun barrels makes dispensing of grease easier in cold weather. Plug fits most 12-volt accessory ports (cigarette lighter).

4155-5 Replacement 1 Hour Quick Charger for 4155 Grease Gun Batteries

4155-5LI Replacement 1 Hour Quick Charger for 4155 Grease Gun Batteries

4155-6 Replacement Barrel for all 4155 Grease Guns

4155-7* 12-Volt Vehicle Battery Charger for 4155 Grease Gun



4155-1

4155-1LI



4155-2



4155-3



4155-4



4155-5



4155-6



4155-7

* Compatible with NiCd batteries, not Lithium-ion

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.

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



TIM-4320

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.

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



TIM-4340

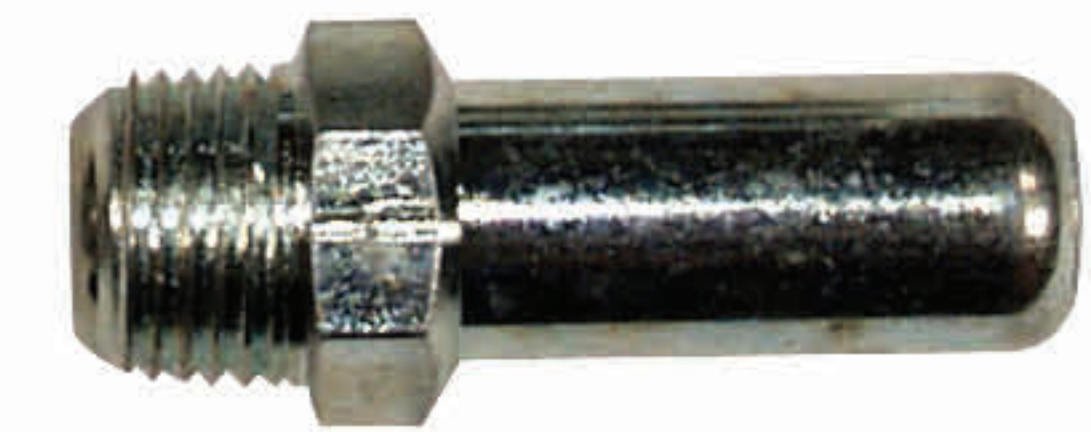
GREASE GUN LOADER FITTING

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



TIM-24

HYDRAULIC & BUTTONHEAD GREASE COUPLERS

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

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



TIM-101



TIM-107

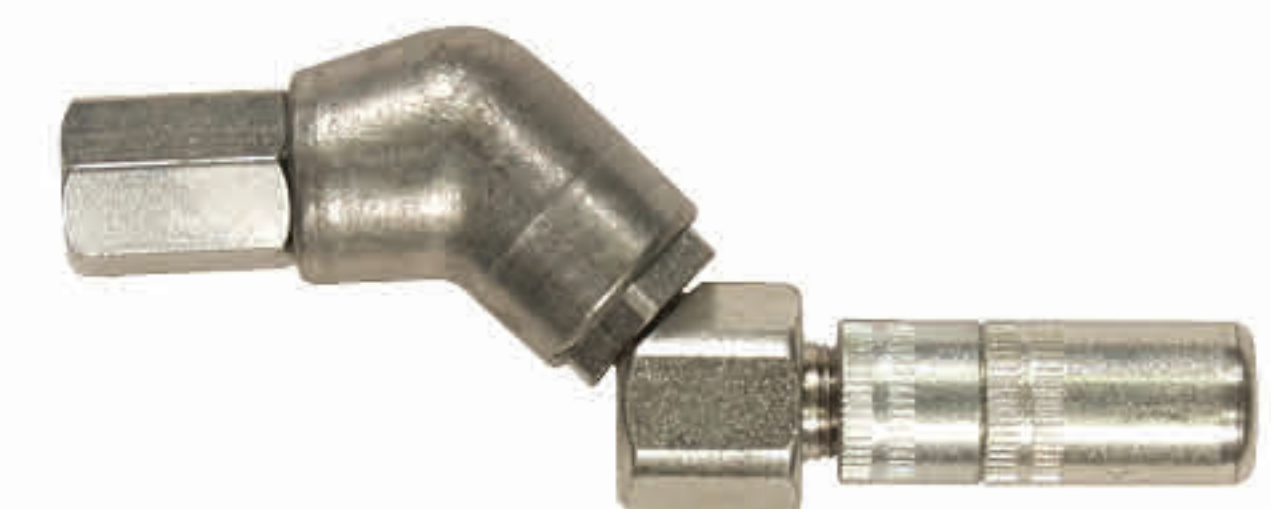
GREASE GUNS

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-124

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.



TIM-126-1

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.



4412

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

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**

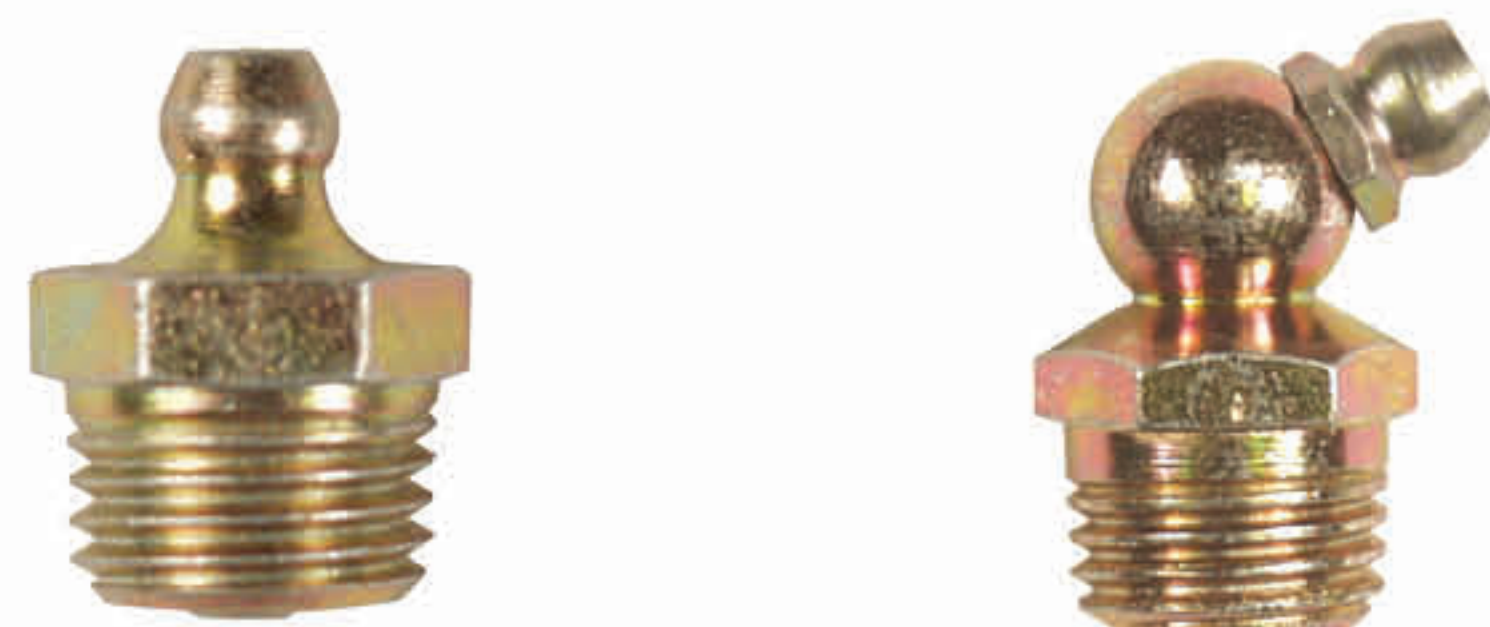
Type	Straight	Straight	Straight	Straight
Thread Size	1/4"-28	1/4"-28	1/4"-28	1/4"-28
Length	.54"	.69"	.93"	1.08"



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"

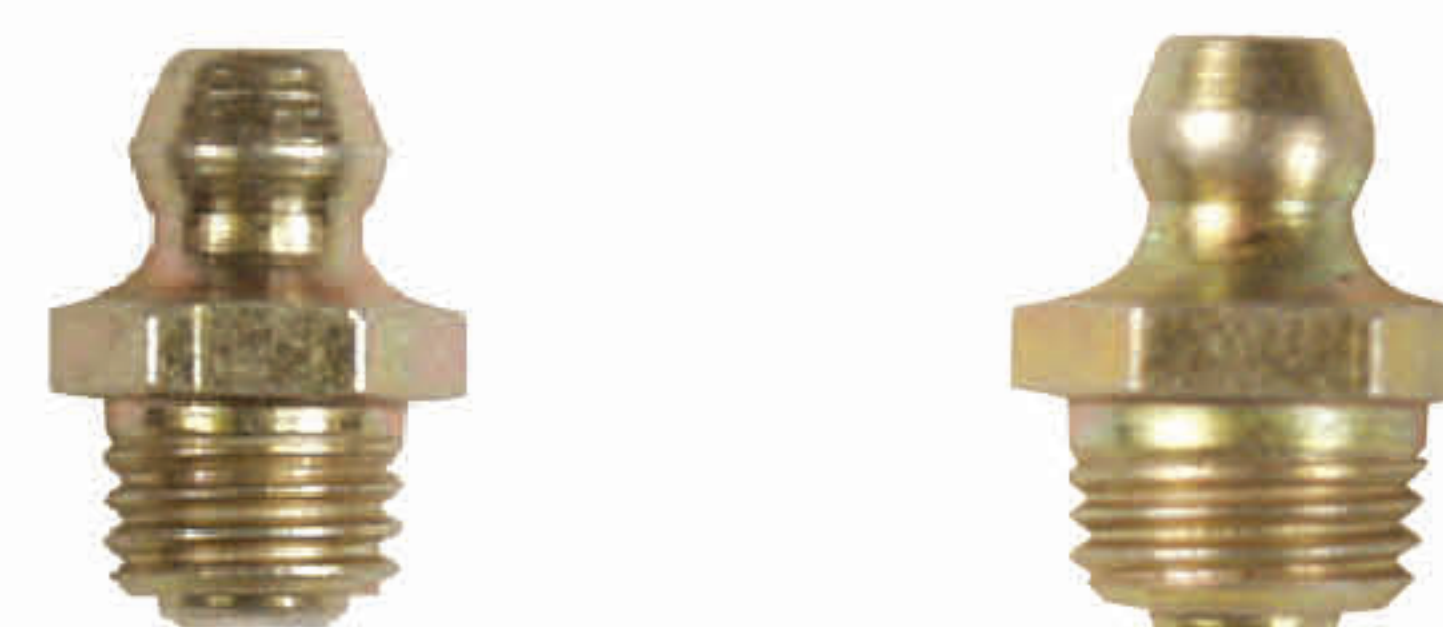
1/4" PTF GREASE FITTINGS



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

GREASE FITTINGS

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

GREASE FITTINGS

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.



4450

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.



4451

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.



4452

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" grease fittings



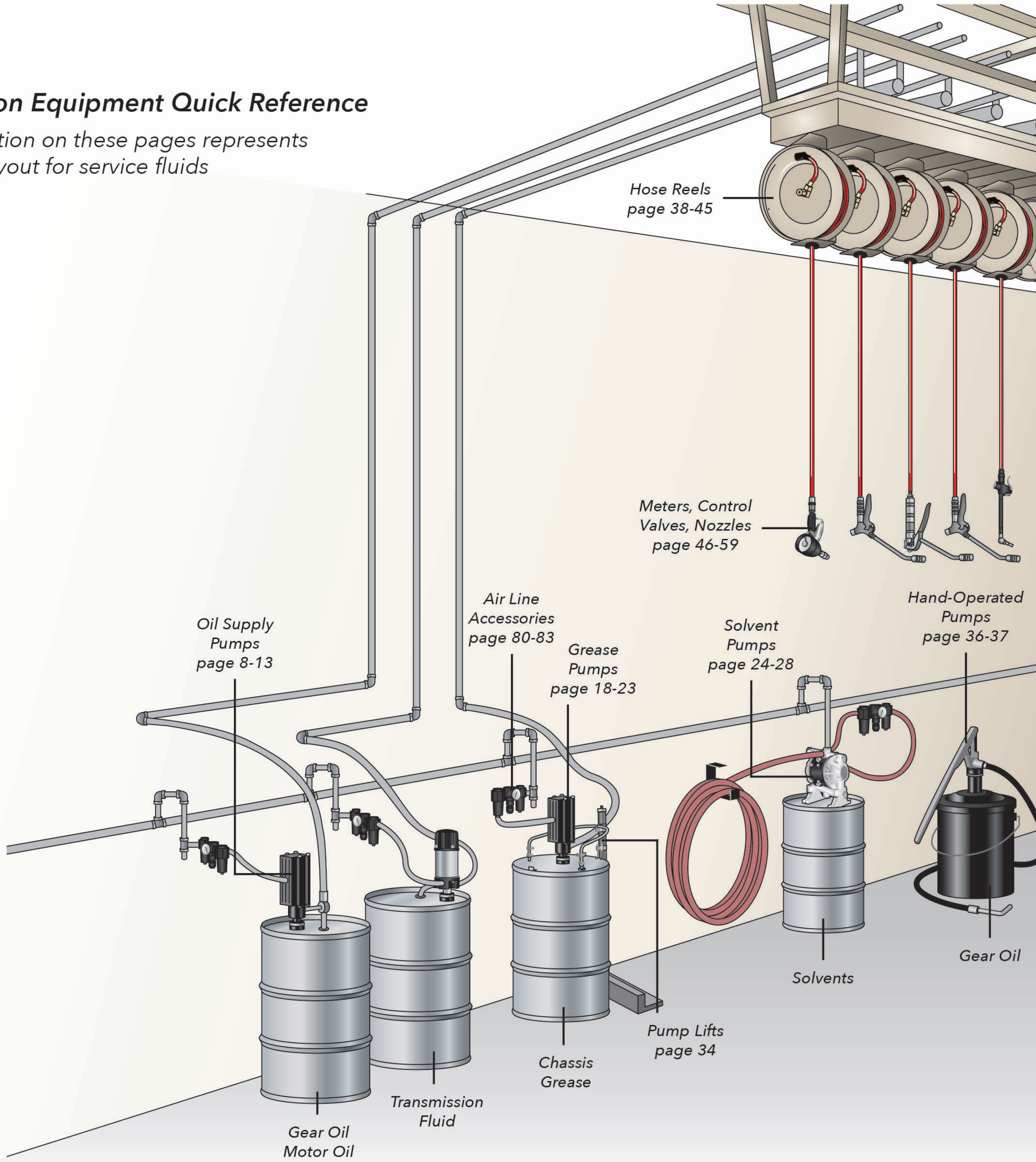
TIM-151



TIM-152

Lubrication Equipment Quick Reference

The illustration on these pages represents a typical layout for service fluids



SHOP LAYOUT



SHOP LAYOUT

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 Challenger 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.

Model	Page	Model	Page	Model	Page	Model	Page	Model	Page
120B	74	2609-25	82	612999-2	27	67145-3-B	31	BH-38	98
120BC	74	2609-300	82	612999-3	27	67145-4-B	31	C38121-801	81
120BCW	74	275A	74	612999-4	28, 68	67442	12, 20	C38221-810	81
120BDW	74	275AV	74	612999-5	28, 68	71060	20	C38221-811	81
14-001	95	275DW	74	612999-6	28, 68	71060-1	33	C38331-811	81
14-067	95	275VDW	74	624601-4	89	75-TA-INSP	78	C38341-810	81
14-28001	95	29665	80	628067-3	89	777-1401	96	C38351-811	81
14-28002	95	4110	91	635040	83	777-142801	96	C500	74
14-28003	95	4111	91	635108	57	777-142845	96	C500DW	74
14-28004	95	4120	91	635193	56	777-142890	96	DC0450L5KL1000	21
14-28045	95	4127	91	635392	56	777-1801	96	DC060BL43PKL1C11	21
14-28046	95	4130	91	635395-2	56	777-1845	96	DC060BL53PKL1C11	21
14-28090	95	4131	91	636075	58	777-1890	96	DEF-10	3
14-28UNF	95	4148	20, 81	636085	58	777-DR14	96	DEF-100AH	5
165	74	4155-1	92	636088	58	777-DR316	96	DEF-100AS	5
165DW	74	4155-1BLI	92	636111	58	91790	31	DEF-11	3
18-001	95	4155-1LI	92	637083	10	93110	31	DEF-12	3
18-002	95	4155-2	92	637084	10	93139	31	DEF-13	3
18-003	95	4155-2BLI	92	637224	8	94117	31	DEF-22	4
18-004	95	4155-3	92	637226	8	96916	31	DEF-24	7
18-030	95	4155-4	92	637332	18	AF0409A13PFL1	13	DEF-25	6
18-045	95	4155-5	92	637485	20	AF0409A53PFL1	13	DEF-25A	6
18-065	95	4155-5LI	92	637486	12	AF0409C81BBW2	13	DEF-26	6
18-090	95	4155-6	92	637489	12	AF0450L43PKL1	21	DEF-31	6
210	82	4155-7	92	640015-5	20, 34	AF0450L53PKL1	21	DEF-32	6
210-100	82	4162	36	640067	34	AF060BL43PKL1	21	DEF-34A	7
210-212	82	4166-1	37	640152-1	20, 34	AF060BL53PKL1	21	DEF-34PL	7
210-212	82	4166-DEF	5	640164	33	AIR-HP-3838-2	88	DEF-35	7
210-25	82	4188	36	640225	34	AIR-HP-3838-2N	45	DEF-36	7
210-300	82	4190	6, 36	650715-C	25	AIR-HP-3838-4	88	DEF-37	7
23103-004	82	4412	94	650717-C	28	AIR-HP-3838-4NS	44	DEF-38	7
23103-300	82	4450	99	650718-C	28	AIR-HP-3848-2	45	DEF-39	7
23644-400	83	4451	99	65130	20	AIR-HP1414-10	88	DEF-40A	7
23902-200	82	4452	99	66492	20, 33	AIR-HP1414-15	88	DEF-40PL	7
23902-210	82	500RV	74	66605J-322	25	AIR-HP1414-3	88	DEF-41	7
23903-310	82	500RVDW	74	66605J-344	25	AIR-HP1414-5	88	DEF-42	7
23903-410	82	525DW	74	666100-344-C	25	AIR-HP3800-	88	DEF-43	7
250	74	525RND	74	666100-362-C	25	AIR-HP3800-250	88	DEF-44	7
250DW	74	525RND	74	666100-3C9-C	25	AIR-HP3812-2Z	88	DEF-45	7
2607	82	60869	31	666150-362-C	25	AIR-HP3838-50	88	DEF-49	4
2608	82	60870	31	66715	20	AIR-HP3838-65	88	DEF-50	4
2608-100	82	60898	20, 33	67088	31	AIR-RF3800-14	88	DEF-51A	6
2608-25	82	61113	32	67088-3	31	AIR-RF3800-38	88	DEF-52H33S	4
2609	82	612041-3	10	67088-4	31	BH-14	98	DEF-53A	6
2609-100	82	612999-1	27	67145-2	31	BH-18	98	DEF-54	7

* Tank package part numbers do not appear in the numerical index. They can be found on pages 72 through 75.

Model	Page	Model	Page	Model	Page	Model	Page	Model	Page
DEF-55	6	F35121-421	80	LP3001-1	19, 23	RPM-3-TM1	76	TIM-101	59, 94
DEF-57-SS	4	F35221-411	80	LP3002-1	19	RPM-3-TM2	76	TIM-1049	32
DEF-57A	4	F35231-411	80	LP3003-1	19	RPM-3-TM3	76	TIM-1052	32
DEF-58	4	F35331-410	80	LP3004-1	19, 23	RPM-5-TM1	76	TIM-1055	32
DEF-61	7	F35341-400	80	LP3004-1-ALC	19, 23	RPM-5-TM2	76	TIM-1056	32
DEF-63	7	F35341-410	80	LP3005-1	19	RPM-5-TM3	76	TIM-1057	32
DEF-64	7	F35351-411	80	LP3005-1-ALC	19	SDB-10-TIM	85	TIM-1058	32
DEF-66	7	F35451-410	80	LP3008-1	19	SEB-10-TIM	85	TIM-1059	32
DEF-67	7	K1875C81BBW2	12	LP3009-1	19	SFB-10-TIM	85	TIM-106	94
DEF-68	7	L36121-100	80	LP3100-1-ALC	15	SGB-10-TIM	85	TIM-107	94
DEF-69	6	L36221-110	80	LP3100-1-B	15	SHB-10-TIM	85	TIM-110	58
DEF-70	6	L36331-110	80	M10-001	96	SJB-10-TIM	85	TIM-111-1	58
DEF-71	6	L36341-110	80	M10-045	96	SMB-10-TIM	85	TIM-113	58
DEF-72	6	L36351-110	80	M10-090	96	SOB-10-TIM	85	TIM-114	58
DEF-73	7	LM-2203A-31C	9	M6-001	96	T-7040	98	TIM-115	58
DEF-74	6	LM-2203A-41C	9	M6-045	96	T-7046	98	TIM-116	58
DEF-75	6	LM-2203A-51C	9	M6-090	96	T-7048	98	TIM-1200-1	87
DEF-75BT	6	LM-2203A-C	9	M8-001	96	T-7049	98	TIM-1201-1	87
DEF-76	6	LM-2203A-COMP	9	M8-045	96	T-7302	97	TIM-1202-1	87
DEF-78	6	LM-2203A-H	9	M8-090	96	T-7303	97	TIM-1204-1	87
DEF-79	6	LM-2203A-HWM	9	MSCF22-000	82	T-7305	97	TIM-1205-1	87
DEF-80	6	LM-2203AV-61C	9	MSCF23-000	82	T-7307	97	TIM-1206-1	87
DEF-81	6	LM-2305A-31B	9	P-39124-624	81	T-7504	95	TIM-1208-1	87
DEF-TUBE52	7	LM-2305A-41B	9	P-39224-624	81	T-7505	95	TIM-1209	87
DEF2-BKT	6	LM-2305A-51B	9	P39124-124	81	T-7603	97	TIM-1210-1	87
DEF3-DN49N	2	LM-2305A-C	9	P39234-614	81	T-7614	97	TIM-1220	87
DEF3-DN50N	2	LM-2305A-COMP	9	P39344-614	81	T-7615	97	TIM-1221	87
DEF3-TM49N	2	LM-2305A-H	9	P39354-614	81	T-7616	97	TIM-1222	87
DEF3-TM49N4	2	LM-2305A-HWM	9	PD03P-ARS-PAA	25	T-7619	97	TIM-1223	87
DEF3-TN50N	2	LM-2305AV-61B	9	PD05P-ASS-PGG	25	T-7630	97	TIM-1225	87
DEF3-TN50N4	2	LM2203A-11-C	9	PD07-APS-PAA	5	T-7700	98	TIM-1226	87
DEF3A-PUMP	5	LM2250E-21-B	18	PD07P-APS-PAA	3	TG-275H	78	TIM-1227	87
DEF6-DM49N	2	LM2250E-31-B	18	PD10P-APS-PAA	5	TG-32	78	TIM-1230	87
DEF6-PUMP	5	LM2305A-11-B	9	PD20A-AAP-GGG-B	25	TG-36	78	TIM-124	94
DEF6-TM49N	2	LM2350E-21-B	18	QL-101	81	TG-44	78	TIM-1240	87
DEF6-TM49N4	2	LM2350E-31-B	18	QL-308	67, 79	TG-46	78	TIM-1241	87
DM0409A53PFL1000	13	LM2350E-41-B	18	R-37221-600T	80	TG-60	78	TIM-1242	87
DM0450L53PKL1000	21	LP2001-1-B	19	R37121-100	80	TG-72	78	TIM-1243	87
DR-14	97	LP2002-1-B	19, 23	R37221-100	80	TIM-035-100	85	TIM-1244	87
DR-14-NB	97	LP2003-1-B	19	R37221-200	80	TIM-035-1000	85	TIM-1245	87
DR-316	97	LP2004-1-B	19	R37231-400	80	TIM-083-100	85	TIM-126-1	94
DR-316-NB	97	LP2006-1-ALC	19, 23	R37331-600	80	TIM-083-1000	85	TIM-1260	87
DR-316-NB2	97	LP2006-1-B	19, 25	R37341-600	80	TIM-1-A	60	TIM-1263	87
DR-516	97	LP2100-1-ALC	15	R37342-100	80	TIM-100	59, 94	TIM-131-3	45
F-100	80	LP2100-1-B	15	R37351-100	80	TIM-1001-BV	84	TIM-131-4	45

* Tank package part numbers do not appear in the numerical index. They can be found on pages 72 through 75.

Model	Page	Model	Page	Model	Page	Model	Page	Model	Page
TIM-131-A	45	TIM-183	71	TIM-315-COMP2	65	TIM-368	34	TIM-4416-5	89
TIM-1404-1212	86	TIM-190	77	TIM-315-KIT	67	TIM-369	33	TIM-4416-50	89
TIM-1404-1216	86	TIM-192	84	TIM-316A-BOWL	67	TIM-379-3M	69	TIM-4416-60	89
TIM-1404-128	86	TIM-193	84	TIM-316A-KIT	67	TIM-390-A1	16	TIM-4416-8	89
TIM-1404-1612	86	TIM-196-C	30	TIM-317-A	64	TIM-3900-50	41	TIM-4418-100S	89
TIM-1404-1616	86	TIM-198	77	TIM-317-AAM	64	TIM-3916-50A	41	TIM-4418-10S	89
TIM-1404-22	86	TIM-1A-DM	60	TIM-317-CAM	64	TIM-3916-65A	41	TIM-4418-12	89
TIM-1404-42	86	TIM-2-A	60	TIM-317-PAN	67	TIM-3918-50A	41	TIM-4418-15	89
TIM-1404-44	86	TIM-200-10	29	TIM-318	66	TIM-3918-65A	41	TIM-4418-16S	89
TIM-1404-46	86	TIM-2000-1	63	TIM-318-BOWL	67	TIM-3928-50	41	TIM-4418-18	89
TIM-1404-64	86	TIM-2000-10	69	TIM-319	66	TIM-3936-50	41	TIM-4418-18S	89
TIM-1404-66	86	TIM-2000-2	63, 83	TIM-32-34A	35	TIM-3A-DM	60	TIM-4418-2.5NS	89
TIM-1404-68	86	TIM-2000-2A	63, 83	TIM-32-34P	35	TIM-401	35	TIM-4418-20S	89
TIM-1404-812	86	TIM-2000-3A	63, 83	TIM-3208-100P	43	TIM-408	35	TIM-4418-25S	89
TIM-1404-84	86	TIM-2000-3B	83	TIM-3208-75P	43	TIM-4208-100	88	TIM-4418-2NS	45, 89
TIM-1404-86	86	TIM-2000-3C	83	TIM-321	37	TIM-4208-50	88	TIM-4418-30S	89
TIM-1404-88	86	TIM-2000-3D	83	TIM-322	37	TIM-4208-65	88	TIM-4418-40	89
TIM-1405-1212	86	TIM-2000-4	29, 63	TIM-322-A	37	TIM-4208-75	88	TIM-4418-4NS	45, 89
TIM-1405-128	86	TIM-2000-4A	29, 63	TIM-323	37	TIM-4218-2N	45	TIM-4418-4S	89
TIM-1405-1616	86	TIM-2000-5	63	TIM-3306-75P	43	TIM-4218-2N	88	TIM-4418-50S	89
TIM-1405-44	86	TIM-2000-6A	29, 63	TIM-3412-50P	43	TIM-4218-4NS	44, 88	TIM-4418-5S	89
TIM-1405-64	86	TIM-2000-7	63	TIM-351-1	35	TIM-4258-5	88	TIM-4418-65S	89
TIM-1405-86	86	TIM-2000-8	63	TIM-351-8	35	TIM-430	45	TIM-4418-6S	89
TIM-1405-88	86	TIM-2002	62	TIM-351-8HD	35	TIM-4320	93	TIM-4418-75S	89
TIM-1501-1212	86	TIM-2002-OVLY	63	TIM-352	34	TIM-4320-S	93	TIM-4418-8S	89
TIM-1501-44	86	TIM-2002-REP	63	TIM-353	34	TIM-4320-TP	93	TIM-4430	29
TIM-1501-66	86	TIM-212-1	81	TIM-355-1	34	TIM-4321	93	TIM-4431	29
TIM-1501-86	86	TIM-212-1	87	TIM-358	34	TIM-4321-S	93	TIM-4506-100	90
TIM-1501-88	86	TIM-220	81	TIM-3600-50	39	TIM-4321-TP	93	TIM-4506-15	90
TIM-1501-BV	84	TIM-221	81	TIM-3600-CAB	44	TIM-4322	93	TIM-4506-25S	90
TIM-1504-44	86	TIM-24	94	TIM-3600-PAN	44	TIM-4323	93	TIM-4506-30F	90
TIM-1504-66	86	TIM-250-BV	84	TIM-3616-50A	39	TIM-4340	93	TIM-4506-50A	90
TIM-151	99	TIM-254-D	45	TIM-3616-65A	39	TIM-4341	93	TIM-4506-65S	90
TIM-152	99	TIM-2A-DM	60	TIM-3618-50A	39	TIM-4342	93	TIM-4506-75S	90
TIM-160	77	TIM-3-A	60	TIM-3618-65A	39	TIM-4343	93	TIM-451-1	33
TIM-164	77	TIM-30-5A	61	TIM-3628-25	39	TIM-4360	59	TIM-4513-5	90
TIM-166-1	30	TIM-30-5IND	61	TIM-3628-50	39	TIM-4361	59	TIM-4514-10	90
TIM-166-LLC	30	TIM-300-11A	61	TIM-363	20	TIM-4412-15	89	TIM-4514-2	90
TIM-178	71	TIM-307	16	TIM-363	34	TIM-4412-3	45, 89	TIM-4514-20	90
TIM-179	71	TIM-310	66	TIM-3636-50	39	TIM-4412-30	89	TIM-4514-30	90
TIM-180	71	TIM-3106-100P	43	TIM-364	20	TIM-4412-5	45, 89	TIM-4516-2	90
TIM-181	71	TIM-3106-75P	43	TIM-364	34	TIM-4412-50	89	TIM-4516-2N	45, 90
TIM-181-G	70	TIM-3108-100P	43	TIM-365-5S	63	TIM-4416-10	89	TIM-4516-4	90
TIM-181-N	70	TIM-3108-75P	43	TIM-366	34	TIM-4416-15	89	TIM-4516-4NS	44, 90
TIM-182	71	TIM-315-BOWL	67	TIM-367-1	33	TIM-4416-3	89	TIM-4516-8	90

* Tank package part numbers do not appear in the numerical index. They can be found on pages 72 through 75.

Model	Page	Model	Page	Model	Page	Model	Page	Model	Page
TIM-4517-14	90	TIM-600-RMGO	47	TIM-726-2	11	TIM-89	83	TIM-WAND-1	69
TIM-4524-10	90	TIM-600-RMHF	47	TIM-727-2	11	TIM-90	83	TIM-WASTE-KIT	65
TIM-4524-12	90	TIM-601-FA	47	TIM-728-2	11	TIM-900B-1	51	Y-27-53C	81
TIM-4524-15	90	TIM-601-FM	47	TIM-729	14	TIM-901B-1	51	Y-27-54C	81
TIM-4524-2	90	TIM-601-FMHF	47	TIM-729-P	14	TIM-901B-HF	51	Y-27-54C	87
TIM-4524-20	90	TIM-601-RA	47	TIM-730	14	TIM-910-HF	52	Y-27-55C	81
TIM-4524-25	90	TIM-601-RM	47	TIM-732	14	TIM-911-HF	52	Y-43-4C	86
TIM-4524-30	90	TIM-601-RMGO	47	TIM-733	14	TIM-912-HF	52		
TIM-4524-6	90	TIM-601-RMHF	47	TIM-734	26	TIM-94-MI	57		
TIM-460-3	32	TIM-61	17	TIM-74	37	TIM-AIR-BOX	83		
TIM-460-5	32	TIM-615	53	TIM-742	47, 49, 55	TIM-CONV-CAM	64		
TIM-460-A	32	TIM-616	53	TIM-743	47, 49, 55	TIM-D2-36	78		
TIM-461-B	32	TIM-62-1A	17	TIM-743-1	47, 49, 55	TIM-D2-44	78		
TIM-463	6, 32	TIM-62-2	17	TIM-746	47, 49, 55	TIM-D2-48	78		
TIM-464	32	TIM-62-2C	17	TIM-747	47, 49, 55	TIM-FILL-CAP	77		
TIM-465	32	TIM-62-LD2	17	TIM-74AL	37	TIM-GG-44	78		
TIM-4670-1	71	TIM-63-2	17	TIM-75	36	TIM-GG-60	78		
TIM-4670-2	71	TIM-63-2C	17	TIM-752	47, 49, 55	TIM-GG-72	78		
TIM-4670-3	71	TIM-63-LD2	17	TIM-752-BV	84	TIM-H2-32	78		
TIM-4670-4	71	TIM-64-2	17	TIM-753	47, 49, 55	TIM-H2-60	78		
TIM-4670-5	71	TIM-64-2C	17	TIM-755-1	51	TIM-I-55B	27		
TIM-4675	67	TIM-64-LD2	17	TIM-756-1	51	TIM-LABEL-KIT	65		
TIM-4675-1	71	TIM-640015-1	34	TIM-758-1	51	TIM-MTL-15	30		
TIM-4675-2	71	TIM-650-FA	49	TIM-761	55	TIM-MTL-23	30		
TIM-4675-3	71	TIM-650-FM	49	TIM-761-GO	55	TIM-MTL-26	30		
TIM-4675-4	71	TIM-650-FMHF	49	TIM-761-HF	55	TIM-MTL-28	30		
TIM-4676	70	TIM-650-RA	49	TIM-761-M	55	TIM-MTL-35	30		
TIM-4676-1	71	TIM-650-RM	49	TIM-761-TG	55	TIM-MTL-37	30		
TIM-4676-2	71	TIM-650-RMHF	49	TIM-761-TGGO	55	TIM-MTL-42	30		
TIM-4676-3	71	TIM-651-FA	49	TIM-761-TGHF	55	TIM-MTL-51	30		
TIM-4676-4	71	TIM-651-FM	49	TIM-761-TGM	55	TIM-MTL75-25	30		
TIM-4679	69	TIM-651-FMHF	49	TIM-762	55	TIM-MTL75-37	30		
TIM-48-S	57	TIM-651-RA	49	TIM-762-A	55	TIM-MTL75-39	30		
TIM-5-A2	61	TIM-651-RM	49	TIM-762-HF	55	TIM-MTL75-53	30		
TIM-500-600	84	TIM-651-RMHF	49	TIM-762-TG	55	TIM-MUSH-VENT	77		
TIM-500-FV	61	TIM-66-A	22	TIM-762-TGA	55	TIM-PLUG-1	77		
TIM-500-HP1	84	TIM-717-1	53	TIM-762-TGHF	55	TIM-PLUG-2	77		
TIM-500-HP2	84	TIM-717-2	53	TIM-77	36	TIM-PLUG-3	77		
TIM-502-BV	84	TIM-717-3	53	TIM-79-SS	36	TIM-PLUG-4	77		
TIM-6	61, 62	TIM-720-BLK	57	TIM-794	58	TIM-PLUG-6	77		
TIM-60	17	TIM-720-BLU	57	TIM-795-1	58	TIM-RELIEF-KIT	29		
TIM-600-FA	47	TIM-720-GRN	57	TIM-80	22	TIM-SPILL-BOX3	77		
TIM-600-FM	47	TIM-720-RED	57	TIM-83-KM	22	TIM-VENT-3	77		
TIM-600-FMHF	47	TIM-720-YEL	57	TIM-87	36	TIM-VENT-4S	77		
TIM-600-RA	47	TIM-724-1B	11	TIM-88	83	TIM-VENT-6	77		

* Tank package part numbers do not appear in the numerical index. They can be found on pages 72 through 75.

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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

LATE 1920S

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

1920S

Marketing was expanded to car dealers through newly packaged automotive kits

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

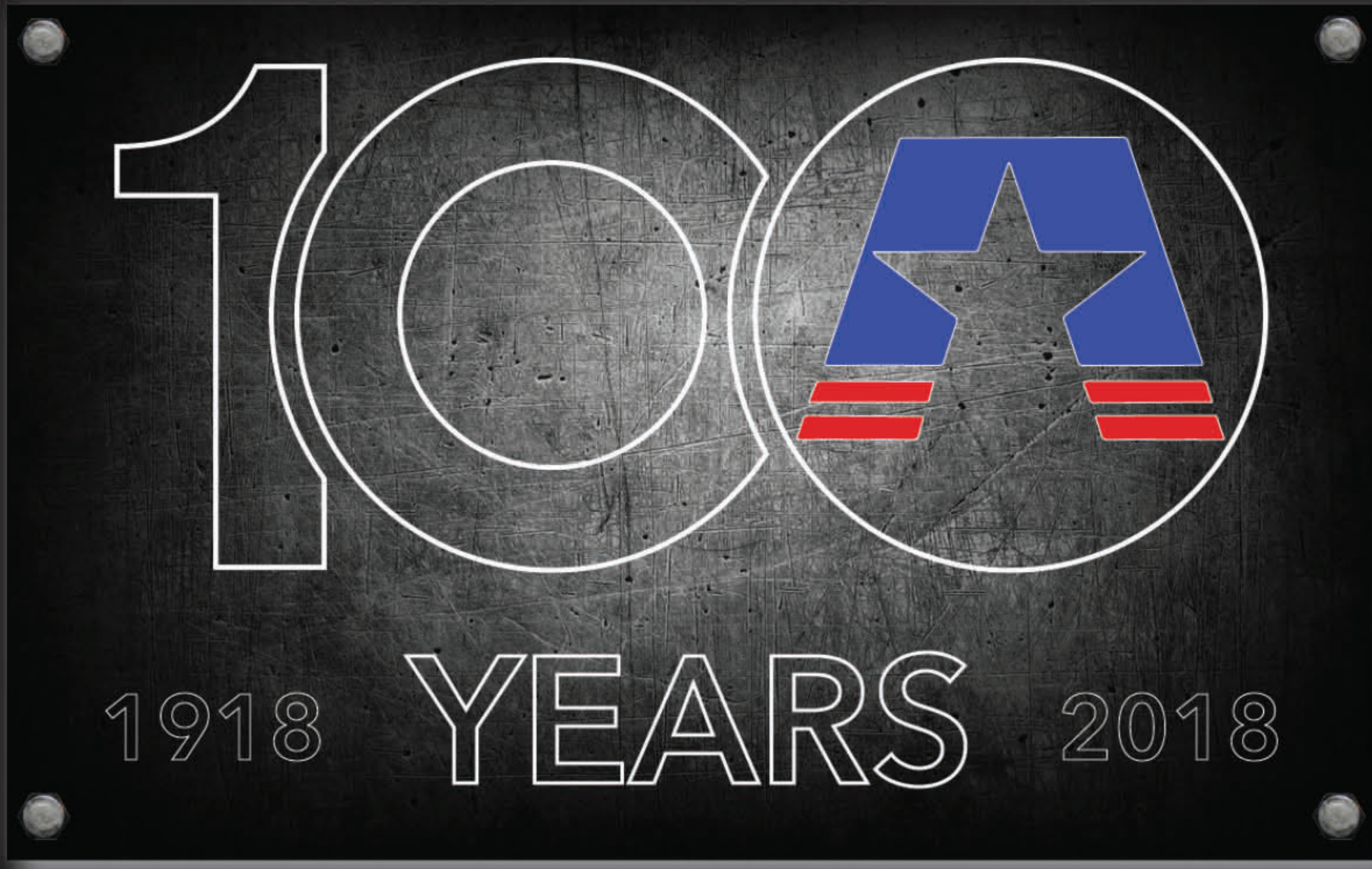
Became a truly national distributor, opening offices and warehouse facilities on the West Coast in Anaheim, CA that allow it to fully serve national accounts in all states

OCTOBER 2009

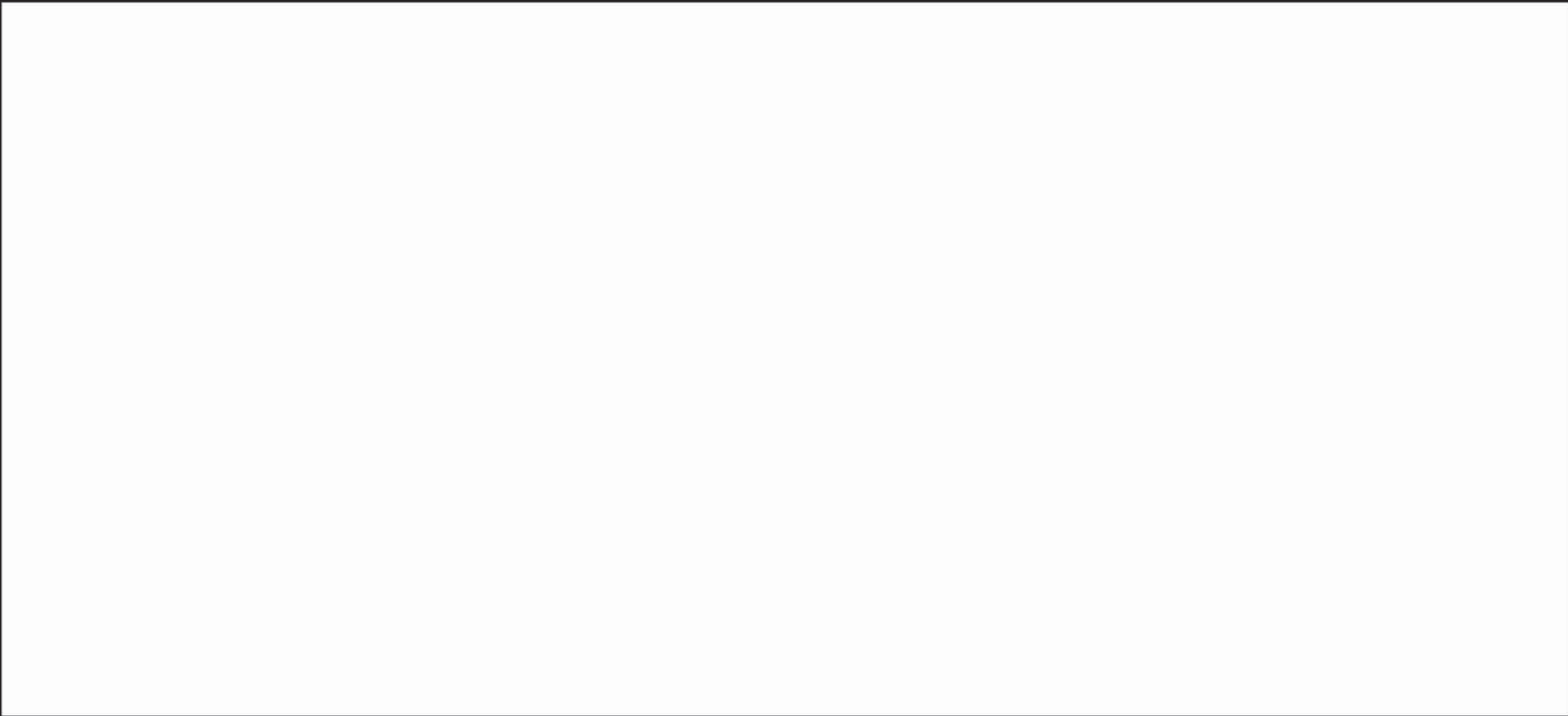
Moved to present headquarters in Hunt Valley, MD

2015

C. Franklin Eck is succeeded as president by Eben Eck



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