12 French Drive, Mono, ON L9W 5W1 Sales Associate: Bo Cell: (519) 658-3204 E-Mail: bob@proma	pplied ubrication echnology Inc. b Lewis rkindustrials.ca
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FLOOR AND PIT OIL DRAINS



Applied Lubrication Technology Inc.



Do not use flammable or corrosive liquids

P/N 42061-55

P/N 42072-55

P/N 42075-55

Pit waste oil drain, 29 gal capacity, equipped with 3/4" quick-release connector

Floor waste oil drain, 25 gal capacity, equipped with 3/4" quickrelease connector, with 2 castors and 2 fixed wheels **Floor waste oil drain,** 40 gal capacity, equipped with 3/4" quick realease connector, with 2 castors and 2 fixed wheels





P/N 33550-55

P/N 33552-55

Diaphragm pumps	32/2011NHH2-55 - seals NBR High Nitrile	32/201
Air flow regulator	37803-55	
Bracket	33590-55	
Flexible suction tube	ø 1-1/4" - 38026-55	Ø
Discharged tube	-	
Female quick connector 3/4" (f)	33126-55 (with check valve)	
Set of probes	-	455
Packaging - Weight	🕅 No. 1 1.4 ft ³ 🛱 lb 31	1

32/2011NHH2-55 - seals NBR High Nitrile
-
suitable for pit drainer
ø 0.5" x 0.8" suitable for probes
1/2" G
-
45507-55 - 45508-55 - 45509-55 45510-55 - 45511-55
🎁 No. 1 1.2 ft³ 🛱 lb 27.5

P/N 33127-55

Male quick connector with check valve, (to be installed on the waste oil drain for connection to the evacuation kit).

Article not manufactured by RAASM ordered separately





WASTE OIL AND ANTIFREEZE DRAINS



Waste oil and antifreeze drains with wheelmounted tank.

Suitable for gravity draining of engine, gearbox differential oil and antifreeze from all motor vehicles placed on an auto lift or pit. The bowl with heightadjustable is mounted on a swivel joint that facilitates positioning.





Do not use flammable or corrosive liquids

P/N 42085-55

Waste oil drainer with wheel-mounted 21.1 gal tank, equipped with:

- level gauge
- 4.2 gal collection bowl
- antisplash screen/filter
- removable tool tray

Tank capacity	21.1 gal	
Max. collection capacity	16.4 gal	
Bowl capacity	4.2 gal	
Oversize funnel diameter	ø 17.1"	
Draining hose length	7'	
Max. height	69.3"	
Min. height	56.7"	
Draining pressure	7 psi	
Packaging - Weight	🕅 No. 1 6.7 ft³ 🛱 lb 73	

P/N 42090-55

Waste oil drainer with wheel-mounted 23.8 gal tank, equipped with:

- level gauge
- 3.9 gal collection bowl with oversize funnel
- antisplash screen/filter
- removable tool tray

23.8 gal
19.8 gal
3.9 gal
ø 22.9"
7'
74.9"
55.2"
7 psi
🕅 No. 2 10.6 ft³ 🛱 lb 75



WASTE OIL AND ANTIFREEZE DRAINS





Waste oil drain, with wheel-mounted tank equipped with quick-release P/N 33137-55 connector for emptying the drained oil by wall mounted evacuation kit (page 153). Suitable for gravity draining of engine, gearbox and differential oil from all motor vehicles placed on an auto lift or pit. The bowl (3.9 gal) with height-adjustable central support is mounted on a swivel joint that facilitates positioning.

P/N 33137-55



Male quick connector P/N 33127-55 + nipple Article not manufactured by RAASM ordered separately

Do not use flammable or corrosive liquids





P/N 42088-55

Waste oil drainer with wheel-mounted 23.8 gal tank with:

- quick-release connector for emptying the tank
- level gauge
- 3.9 gal collection bowl
- antisplash screen/filter
- removable tool tray

	-
Tank capacity	23.8 gal
Max. collection capacity	19.8 gal
Bowl capacity	3.9 gal
Oversize funnel diameter	ø 22.9"
Draining hose length	7'
Max. height	74.9"
Min. height	55.2"
Draining pressure	7 psi
Packaging - Weight	資 No. 2 10.6 ft³ 🖞 lb 75

P/N 42113-55

Waste oil drainer with wheel-mounted 30.4 gal tank with:

- quick-release connector for emptying the tank
- level gauge
- 3.9 gal collection bowl
- antisplash screen/filter
- removable tool tray

	30.4 gal
	25.6 gal
	3.9 gal
	ø 22.9"
	-
	75.6"
	55.9"
	7 psi
1	In No. 2 14.8 ft ³ ☐ Ib 93



SUCTION POWER

To understand the concept of suction power it is important to remember the difference between pressure and depression. In this way the characteristics and advantages offered by the oil drain will be easy to understand.



It is necessary to refer to the structure of the atmosphere that surrounds us and, above all, its barometric stratification and compressibility. Its lower layers, i.e. those nearest the ground, are more densely compressed than those higher up, precisely like what happens with a pile of bags of compressible material. (see picture 1).

The atmospheric pressure decreases as the altitude increases: At sea level it is 14.69 psi. At 6560 feet a.s.l., it is approximately 11.75 psi and at 32800 feet a.s.l., it falls to 4.41 psi (see picture 2). In general, pressure is obtained by compressing any type of fluid inside a given container, until reaching the required values: 10 -20 - 100 - 200 psi etc. without limits, apart from those of the fluid container's structure and the power of the pump used.

On the other hand, a depression or vacuum is obtained by removing all the air contained in a given recipient or tank, and the maximum value obtainable (vacuum or suction power) is independent of the pumping or suction system used. Whatever is the pump used (electric pump, air pump, Venturi principle, etc.) the maximum depression (or suction power) obtained is equal to the atmospheric pressure outside the suction system. In fact, this value cannot be exceeded because, obviously, it is not possible to remove from a container more air than what is contains.

PICTURE 1

It is important to remember that the atmospheric pressure is given by the weight of the air above us, and this value is expressed in atmospheres. At sea-level this weight is approx.

14.5 lb per square inches







14.5 lb per square inches corresponds to 2044 lb per square feet of area; almost the same as 3 cubic feet block of lead. Man, however, does not feel this enormous weight exerted on him because the atmosphere is also present inside his body

ATMOSPHERIC PRESSURE

PUMP OPERATION WITH VENTURI PRINCIPLE

Connect a compressed air line (100 psi) to the special connection on the suction device. The air then passes through a special "MULTIPLIER NOZZLE" of the Venturi unit. The air increases in speed considerably, creating "EDDIES" that can suck and "pump" all the air contained in the suction device tank, thus creating a complete vacuum.

For correct depressurization, the pressure of the air passing through the Venturi system must be between 90 psi and 105 psi.



Therefore the suction force generated by the Venturi principle is equal to that obtained with any other air-operated and/or electric pump.



The air pressure at sea-level is 14.5 psi, at 6560' above sea level (a.s.l.) the pressure falls to approximatively 11.75 psi (see picture 2).





Air-operated drains, ideal for quick engine oil change of any motor vehicle. Suitable for extracting more than 2 gal from trucks, tractors and heavy vehicles. The waste oil is extracted from the engine by means of the probes supplied. After depressurization the drain works independently without requiring continuous connection to the compressed air system. Extract hot oil at 155 - 180 °F.

WASTE OIL SUCTION-DRAINS





P/N 43084-55

Air-operated waste oil drain with wheel-mounted

- 21.1 gal tank, equipped with:
- level gauge
- removable tool tray
- P/N 45560-55 set of probes

P/N 43065-55

Air-operated waste oil drain with wheel-mounted 17.2 gal tank, equipped with:

- level gauge
- removable tool tray
- P/N 45560-55 set of probes
- transparent chamber 2.1 gal

Tank capacity	21.1 gal	17.2 gal
Max. draining capacity	16.4 gal	13.7 gal
Depressurisation time	2 min	2 min
Suction speed	0.40 - 0.53 gpm (oils 158 - 176 °F, probes 0.24")	0.40 - 0.53 gpm (oils 158 - 176 °F, probes 0.24")
Total suction capacity	15 - 16 gal	11 - 12 gal
Suction hose	7'	7'
Draining hose	7'	7'
Max. pressure for draining	7 psi	7 psi
Packaging - Weight	😭 No. 1 6.7 ft³ 🛱 lb 66	😭 No. 2 8.8 ft³ 🛱 lb 69



PANTOGRAPH OIL SUCTION-DRAINS





Air-operated combination suction-drain with large pantograph collection bowl (3.7 or 13.2 gal) and wheelmounted 17.2 or 30.4 gal tank. The waste oil is drained by gravity with floor tray or raised for trucks placed on auto lifts or pit, or by suction with the probes supplied. After depressurization the drain works without requiring continuous connection to the compressed air system. Extract hot oil at 155 - 180 °F.





Do not use flammable or corrosive liquids

P/N 46065-55

Air-operated universal oil suction-drainer with

17.2 gal tank, equipped with:

- level gauge
- Iarge 3.7 gal collection bowl on cantilever arms
- removable tool tray
- P/N 45560-55 set of probes

P/N 46215-55

Universal waste oil suction/drain with wheel-mounted 30.4 gal tank, equipped with:

- level gauge
- Iarge 13.2 gal collection bowl on cantilever arms
- removable tool tray
- P/N 45560-55 set of probes









Waste oil drains are ideal for changing the engine oil in boats. Draining occurs by means of a 13' suction hose and connections for inboard engines (P/N 45551-55) and outboard engines (P/N 45550-55).





Applied Lubrication Technology Inc.





Do not use flammable or corrosive liquids

P/N 43724-55

Waste oil drain with wheel-mounted 6.4 gal tank, equipped with:

- 13' suction hose
- special connections (P/N 45550-55 P/N 45551-55)
- P/N 45560-55 standard probe series

Tank capacity	6.4 gal	
Max. draining capacity	5.3 gal	
Depressurisation time	1-1.5 min	
Suction speed	0.40 - 0.53 gpm (oils 158 - 176 °F, probes 0.24")	
Total suction capacity	4 - 4.2 gal	
Suction hose	13'	
Draining hose	-	
Max. pressure for draining	manual	
Packaging - Weight	🎁 No. 1 3.2 ft³ 🗳 lb 30	

P/N 43760-55

Waste oil drain with wheel-mounted 17.2 gal tank, equipped with:

- 13' suction hose
- special connections (P/N 45550-55 P/N 45551-55)
- P/N 45560-55 standard probe series

17.2 gal
13.2 gal
2 min
0.40 - 0.53 gpm (oils 158 - 176 °F, probes 0.24")
11.4 - 11.9 gal
13'
7'
7 psi
😭 No. 2 8.1 ft³ 🛛 🛱 lb 61





WALL MOUNTED DRAINS



Applied Lubrication Technology Inc.

Series 3/4" wall mounted drain dispensers with diaphragm pump. The probes evacuate the waste liquid from vehicle or motorcycles. The diaphragm pump, equipped with special NBR high nitrile seals, is suitable for extracting and delivering fluids such as: various oils, waste oil, antifreeze liquid and diesel oil.





Packaging - Weight

P/N 45300-55

Drain-dispenser with wall-mounted station, operated by diaphragm pump Series 3/4", equipped with:

Mo. 1 2.8 ft³

🛱 lb 31

- diaphragm pump P/N 32/2011NHH2-55 with vacuum gauge
- P/N 33590-55 wall bracket
- P/N 45540-55 probe ø 12

- 13' suction/delivery hoses
- P/N 45560-55 set of probes
- P/N 45570-55 wall-mounted probe kit

 Best use of the product is obtained by connecting it to a fixed system for direct draining of the extracted liquid in the storage tank
 For correct draining, the pump must operate slowly. To adjust the working speed, operate the flow regulator, "metering" the inlet air feed. Make sure the vacuum gauge indicator is always in the optimum position

 TOT OTHER TRACE

FLEXIBLE AND METAL PROBES ACCESSORIES

Standard probe series: All the drains used for changing engine oil come with a series of standard metal and flexible probes in addition to connections for engines with incorporated probes.

STANDARD PROBE SERIES P/N 45560-55

consisting of:

- P/N 45504-55 flexible probe ø 0.20" length 27.5"
- P/N 45505-55 rigid probe ø 0.20" length 27.5"
- P/N 45506-55 flexible probe ø 0.24" length 27.5"
- P/N 45516-55 rigid probe ø 0.24" length 27.5"
- P/N 45517-55 flexible probe ø 0.28" length 39.4"
- P/N 45518-55 flexible probe ø 0.32" length 27.5"
- P/N 45500-55 connection for incorporated probes Volkswagen
- P/N 45501-55 connection for incorporated probes BMW
- P/N 45502-55 connection for incorporated probes Citroen

Note: the probes can be supplied separately

CONNECTORS FOR INCORPORATED PROBES

- for Mercedes cars connect the quick-release connector (A) of the oil drain directly to the probe incorporated in the engine.
- for JTD Fiat Group cars:
- P/N 45498-55 P/N 45499-55 P/N 45500 55
- for Volkswagen cars:
 for BMW cars:
- for Citroen cars:

for Audi cars:

P/N 45499-55 P/N 45500-55 P/N 45501-55 P/N 45502-55





FLEXIBLE AND METAL PROBES ACCESSORIES

Probes supplied on request: Non-standard probes available by request. Indicated for vehicles requiring a longer probe for draining the oil from the bottom of the sump.

PROBES SUPPLIED ON REQUEST

- P/N 45515-55 flexible probe ø 0.20" length 39.4"
- P/N 45526-55 flexible probe ø 0.24" length 59.1"
- P/N 45527-55 flexible probe ø 0.28" length 59.1"
- P/N 45528-55 flexible probe ø 0.28" length 78.8"
- P/N 45538-55 flexible probe ø 0.32" length 59.1"
- P/N 45539-55 flexible probe ø 0.32" length 78.8"
- P/N 45540-55 special flexible probe ø 0.47" length 27.5"





P/N 45515-55

P/N 45526-55

P/N 45527-55

P/N 45528-55

P/N 45538-55

P/N 45539-55 P/N 45540-55