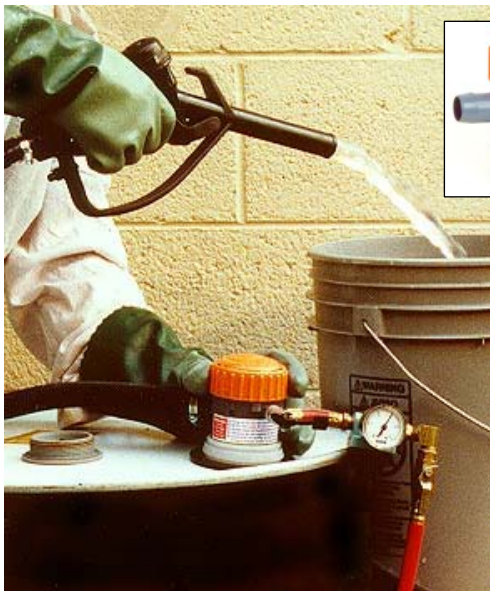


Pump That Drum!



Industrial Drum Pump Kit DM-85DGP Technical Data Sheet

Features & Benefits

- High quality construction for a long operating life
- Safe for *nonflammable* polypropylene compatible liquids
- No internal moving parts, virtually maintenance free
- Economically replace or upgrade worn or faulty pumps
- Use one pump-per-product to stop cross contamination
- Increase worker productivity with more dispensing sites
- Maximum Limits: 16 Gpm, (60 Lpm), 250 Cps, 15 ft. head

WARNING! NOT FOR USE WITH FLAMMABLE LIQUIDS!

Industrial Applications

Use the DM-85DGP for these nonflammable, polypropylene compatible liquids

Acids & alkalis	Cleaners & detergents	Inks & dyes	Paints & coatings
Adhesives	Coolants	Lubricants	Photographic chemicals
Brine	Coatings	Miscible oils	Plating solutions
Chemicals	De-ionized water	Nonflammable solvents	Polymers & resins ...etc.

Operating Method & Specifications

This popular, advanced technology pump offers high quality, safe operation, low unit cost, virtually maintenance free operation and minimal air usage. It dispenses up to 16 GPM (60 LPM), up to 250 centipoise, (50 SAE or 1200 SSU, medium thickness) by gently pressurizing the drum from 4 to 7.5 Psi from any compressed air source. The pump is self-priming and rated Continuous Run, wet or dry from 33° to 120°F. Air usage is only 7.5 Psi, and 7 - 12 Cfm. An internal safety valve automatically vents any excess air pressure from 7.5 Psi not to exceed 150 Psi. Use the DM-85APR to prevent air-venting wastage. Kit weight, 1.2 lbs. Pump wetted parts: co-polymer virgin polypropylene

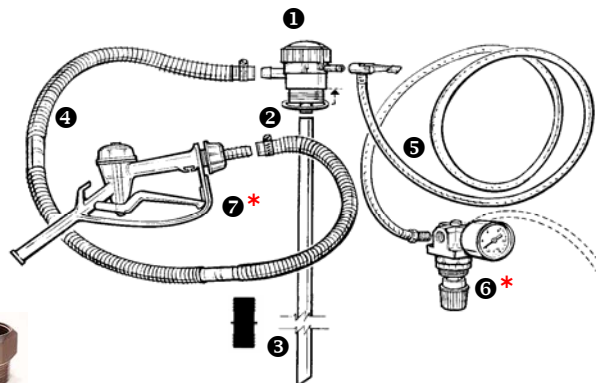
Kit Contents & Recommended Accessories

Complete kit includes: 1) 1 ea. pump module, 2) 1 ea. Viton bung gasket, 3) 1 ea., 5 piece pick-up tube kit, with tubes & connectors, 34" OAL x 3/4" ID, 4) 1 ea. flexible dispensing hose, 3 ft. x 3/4" ID with clamp, 5) 1 ea. air connector hose, 11" length x 1/4" NPT.

Recommended Optional Accessories: 6) DM-85APR air pressure regulator, 7) DM-85HFR/SV34 dispensing nozzle, PP, SS, Viton.

A Range of Optional Accessories

(A) DM-85HFR/SV34 Hi-flow nozzle, (B) DM-700HFR/AMTS1 Xtreme Duty nozzle, (C) DM-100HFR/34 fine control nozzle (D) DM-85APR, air pressure mini-regulator prevents air wastage (E) DM-55BCF/M Mauser or DM-55BCF/B Buttress coarse bung ThreadConverters™ (F) DM-55BTG ThreadGuard™ or DM-55BTG/S6, protects plastic equipment 2" bung-threads from stripping or wear due to frequent transfer.



DM-85DGP Drum Pump Kit

DM-85DGP Drum Pump For Non-flammables

Assembly & Operating Instructions File for Future Reference

EACH PUMP KIT CONTAINS 1 EACH: (See reverse for more details)

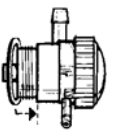
- 1) pump module, 2) Viton bung o-ring, 3) pick-up tube & connectors, 4) transfer hose and clamp, 5) connection air hose with quick mount chuck
- 6) DM-85APR, pump air pressure mini-regulator 7) DM-85HFR/34, hand dispensing nozzle

Recommended Optional Accessories Sold Separately

Assembly Instructions

(Operating Specifications on reverse.)

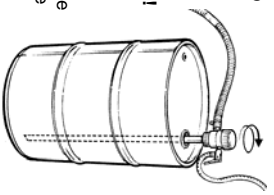
1) Slide o-ring onto threads. Do not twist. Use suitable lubricant.



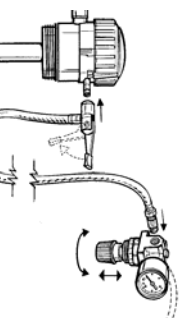
2) Heat pick-up tube flat ends in hot water. Mount half way on connectors. Heat last flat end. Push on pump stalk until seated inside. Set segments for drum depth.



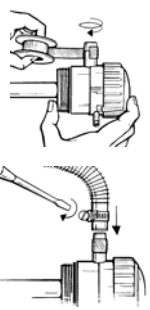
4) Screw pump into drum bunghole. Do not cross-thread! **Never use the air line hose-tail as a hand hold or grip!** Use the discharge hose-tail for a grip. Adjust the tube segments up or down the connectors to set the tube length on drum bottom. (See # 2)



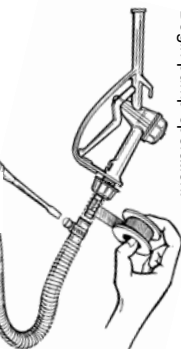
5) Attach 1" air hose connector chuck to pump air inlet barb. To conserve air, use air regulator accessory, **DM-85APR**. Lock the air regulator setting between 4 - 7 Psi.



3) Wrap hose barb with enough teflon tape to prevent leaking and tighten clamp firmly. Check tightness before each use.



6) To mount the accessory nozzle, **DM-85HFR/34**, wrap enough Teflon tape on nozzle hose tail to prevent leaking. Firmly tighten hose clamp. Begin pump operation.



IMPORTANT!

Always keep the Rotating Control Head in vertical position for testing or use.



WARNING! - READ Before Operating...

- **DO NOT use for pumping flammables!**
- Before pumping, ensure the drum is not leaking.
- Check liquid compatibility with polypropylene.
- Read ALL the instructions before using the pump.

Pump Operating Instructions

- 1 Pressurize The Drum** - Pump has 4 function settings. Set air pressure input at 7 psi; with **DM-85APR accessory regulator**. Turn orange **Control Head to Setting I**. Safety valve vents excess pressure between 7-150 psi. Use pressure at 7 Psi for best results and minimal air wastage. To release pressure detach airline while on **Setting I** and air will vent out through the hose input barb.
- 2 Lock Pressure** - Set Control Head to **Setting II** to trap pressure in drum for a short period of time. **WARNING:** Do not move a pressurized drum, or you risk causing leakage from liquid sloshing into the safety valve sensing port.
- 3 Dispense Liquid** - Set Control Head to **Setting III**. Liquid is dispensed in short batches as drum pressure drops. Recharge drum between batches.
- 4 Maximum Flow Transfer** - Set Control Head to **Setting IIII**. Ensure connected air is "ON". Dispenser continually transfers at maximum flow while automatically maintaining drum pressure up to 7 psi; Flow dispensing is fully controllable with **accessory nozzle DM-85HFR/34**.

DRUM-MATE® Pump Accessories ... Improve Your Application Process Safety, Efficiency & Flexibility!

DM-85APR Mini-Regulator

Controls inlet air pressure for the DM-85DGP Drum Pump.

Features:

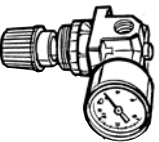
Includes low air pressure gauge, 0-15 psi. [0-150 kPa] with locking hand calibration knob, 1/4" NPT.

Specifications:

- ▶ Max. inlet pressure: 150 psi
- ▶ Max. temperature: 150° F

Function:

Prevents pump air wastage by limiting air pressure input to <7 psi.



DM-85HFR/34 Hand Nozzle Hi-Flow Dispensing Model

Specifications:
Materials: PP, SS Viton, (or EPDM)
Pressure: 150 psi, Flow 40 Gpm



DM-700HFR/AMTS34 Nozzle Xtreme Duty Transfer Model

Specifications:
Materials: Aluminum, Stainless, TFE
Pressure: 100 psi, Flow 50 Gpm



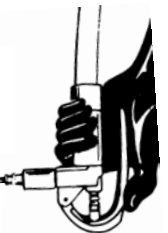
DM-100HFR/34 Hand Nozzle Polypropylene Wetted Parts

Features:
Reinforced polypropylene body with Viton seals & external trigger spring. No metal contact with liquid.

Specifications:

- ▶ 40 psi [280 kPa]
- ▶ 8 Gpm [36.4 Lpm]
- ▶ Hosebarb sizes: 1/2", 3/4", & 1"

Function: Precise manual transfer. All



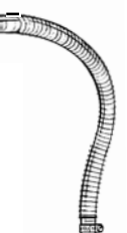
DM-85CDH Transfer Hose Flexible polypropylene

Features:
3/4 inch internal diameter, excellent chemical resistance hose, available in lengths to 15 ft. in 1 ft. segments.

Specifications:

- ▶ Coil length: up to 15 ft. [4.5 m]
- ▶ Flex radius: 1.0 inch [25 mm]
- ▶ Max. pressure: 25 psi
- ▶ Max. temperature: 32° to 125°

Function: General transfer of liquids compatible with polypropylene.



Bung Accessories

DM-55BCF ThreadConverter™
Convert to 2 inch NPT female from male or female Butress, Mauser or Cam-Lock.



DM-55BTG ThreadGuard™
protection for 2" Npt equipment used in steel bungs. Plated or 316ss.



Other Equipment

- Drum and tote heaters
- Drum and tote mixers
- Drum and tote pumps
- Hand dispensing nozzles
- Bung accessories