

WARRANTY

Use only MASTERFLEX precision tubing with MASTERFLEX pumps to ensure optimum performance. Use of other tubing may void applicable warranties.

The Manufacturer warrants this product to be free from significant deviations from published specifications. If repair or adjustment is necessary within the warranty period, the problem will be corrected at no charge if it is not due to misuse or abuse on your part, as determined by the Manufacturer. Repair costs outside the warranty period, or those resulting from product misuse or abuse, may be invoiced to you.

The warranty period for this product is noted on the Warranty Card.

PRODUCT RETURN

To limit charges and delays, contact the seller or Manufacturer for authorization and shipping instructions before returning the product, either within or outside of the warranty period. When returning the product, please state the reason for the return. For your protection, pack the product carefully and insure it against possible damage or loss. Any damages resulting from improper packaging are your responsibility.

TECHNICAL ASSISTANCE

If you have any questions about the use of this product, contact the Manufacturer or authorized seller.



Cole-Parmer Instrument Co.

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OPERATING MANUAL

MASTERFLEX® I/P®

AIR-POWERED PUMP DRIVE

Model No.
07589-30



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⚠ WARNING: PRODUCT USE LIMITATION

This product is not designed for, nor intended for use in patient connected applications; including, but not limited to, medical and dental use, and accordingly, has not been submitted for FDA approval.

SETUP AND DRIVE OPERATION

INTRODUCTION AND GENERAL DESCRIPTION

This air-powered pump drive when used with a MASTERFLEX® I/P® pump head is an excellent variable-flow pump for hazardous-duty applications, when properly grounded, or when electrical power is not available.

VARIETY OF PUMP HEADS ACCEPTED

Mount up to 2 MASTERFLEX® I/P® pump heads and all MASTERFLEX® I/P®-compatible pump heads. See individual pump heads for flow rates.

SETUP AND DRIVE OPERATION

1. Unpack the drive, save packing material until proper product operation has been verified.
2. Install pressure gauge, pressure regulator/lubricator/filter assembly (B, C), muffler (D) and pipe nipple (F).
See Figure 1 for proper orientation. (All items and fittings included.)
Use thread seal for all connections to reduce the possibility of air leakage.
3. Connect compressed air line to 1/4 NPT(F) connection on regulator.
4. Mount pump head and load tubing. (See pump head manual.)
5. Turn on compressed air line to start pumping. (Maximum 100 psig inlet.)
6. Adjust flow rate with the adjustment knob on top of the regulator.
Vary flow rate from 20 to 100 psig. At higher pressures, the pump speed may exceed 650 rpm. DO NOT EXCEED 650 RPM.
(Lock flow rate by using snap-action push-pull knob on filter regulator B.)
7. For continuous-duty or high speed application, use of the lubricator is recommended. Adjust the lubricator with the adjustment knob on top.
For higher speeds, set lubricator to provide 1-3 drops/minute. Use a lower setting for lower speeds. See MAINTENANCE for RECOMMENDED LUBRICANTS.
(Lock lubrication rate by using snap-action push-pull knob.)

- A. Pump Head Mounting Holes
- B. Filter/Regulator Control Knob
- C. Lubricator Control Knob

- D. Muffler
- E. Air Motor
- F. Pipe Nipple

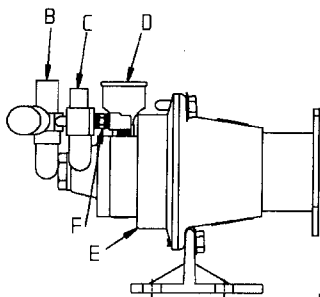
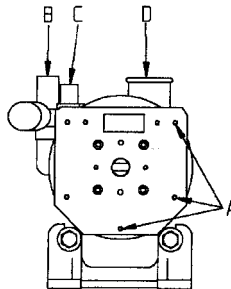


Figure 1



Front view of drive

MAINTENANCE

The air motor is a rotary vane type motor. Lubrication is necessary for the bearings, shaft seals, and rust prevention.

Excessive moisture in the air line can cause rust formation in the motor and can cause ice to form in the muffler due to expansion of air through the motor.

RECOMMENDED LUBRICANTS

Use a misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at 100°F (38°C). Unscrew the bowl to fill the lubricator. Press up on the bottom drain to empty bowl.

CLEANING

Keep the drive enclosure clean with mild detergents. Never immerse nor use excessive fluid.

DRAIN OPERATION

The filter/regulator assembly has a manual drain. Check it frequently for water accumulation. Open drain by pressing up on bottom of bowl.

TROUBLESHOOTING

- If drive does not operate, disconnect power:
- a. Check pump head for tubing jam.
 - b. Check air supply.
 - c. Check lubricant level.
- Contact your dealer for further service needs.

REPLACEMENT PARTS AND ACCESSORIES

- 07055-52**, Replacement air motor
- 07042-85**, Replacement regulator/lubricator

SPECIFICATIONS

Output Speed:	100 to 650 rpm
Maximum Load:	360 oz-in (26 kg-cm)
Regulation:	±10%
Power Input:	24 cfm (0.68 m³/min) @ 100 psig
Power Output:	¾ hp (560W)
Operating Temperature:	34° to 104°F (1° to 40°C)
Storage Temperature:	14° to 149°F (-10° to 65°C)
Humidity (non-condensing):	20% to 80%
Chemical Resistance:	Exposed materials are painted CRS, brass, aluminum and plastic
Enclosure Rating:	NOT APPLICABLE
Altitude:	Less than 2000 m
Dimensions: (L x W x H)	12¾ in x 8½ in x 9½ in (305 x 222 x 243 mm)
Weight:	18 lbs (8.2 kg)