LUBRIQUIP®
Lubrication & Dispensing Solutions

Trabon®

Drum Pumps
Product Specs and Ordering

Bulletin 12216

DESCRIPTION

Trabon Drum Pumps are single stroke double acting pneumatic (or hydraulic) powered units for use with standard 35-lb. and 120-lb. lubricant containers. They are designed to provide controlled output from drum size containers and are suited for use on most types of off-the-road mobile equipment or for industrial systems utilizing Trabon series progressive lubricating systems.

FEATURES/ADVANTAGES

- Hydraulically or Pneumatically powered (double acting)
- Available in: 30:1 Pneumatic Model
  4:1 Hydraulic Model
  10:1 Hydraulic Model
- Controlled cycling rate
- Fits Standard 35-lb. and 120-lb. lubricant container
- Follower plate standard
- Solenoid valve manifolded to pump (pneumatic only)
- High power ratio
- Cartridge discharge check valve
- Adjustable output

OPERATION

Pneumatic Powered Unit –

With the power piston in the up position the lubricant chamber is primed with lubricant and ready for the first pump cycle. Air is valved to the top side of the power piston, pushing the power piston and piston rod downward (See Figure 1), and forcing the lubricant out of the lubricant chamber, past the discharge check valve and out the discharge tube. Air is then valved to the bottom side of the power piston forcing it upward (See Figure 2), returning the pump piston to the prime position. As the pump piston moves upward, lubricant is drawn into the lubricant chamber through the inlet check valve. This cycle is repeated as often as air is valved to the pump.

As lubricant is pumped out of the container, atmospheric pressure, acting on the follower plate, forces it down. The follower plate wipes the side of the container and produces a positive prime pressure on the pump inlet.
The output per stroke can be reduced by 50% by reversing the end cap on the air cylinder. This reduces the stroke of the pump by 50%.

Hydraulic Powered Unit –

The hydraulic unit operates in the same manner as the pneumatic unit except the power source is hydraulic instead of pneumatic.

The output per stroke can be reduced by 50% by screwing an adapter into the hydraulic cylinder end cap. This reduces the stroke of the pump by 50%.

The cycling rate of the drum pump is controlled by the rate at which air (or hydraulic) flow is applied to the power cylinder. This is typically accomplished by using a timer (or controller) to operate a four-way, two position solenoid valve.

Note: The pump assembly and the delivery tube should be pre-packed with grease prior to first use.

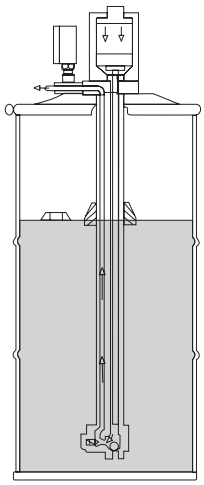


Figure 1

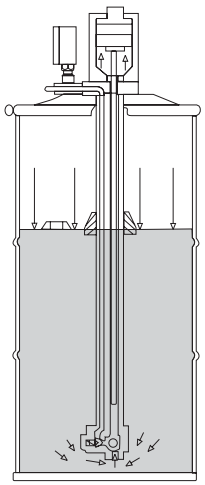


Figure 2

12216

SPECIFICATIONS

Pump body material
- Hydraulic unit ..... Steel
- Pneumatic unit ..... Steel and Aluminum

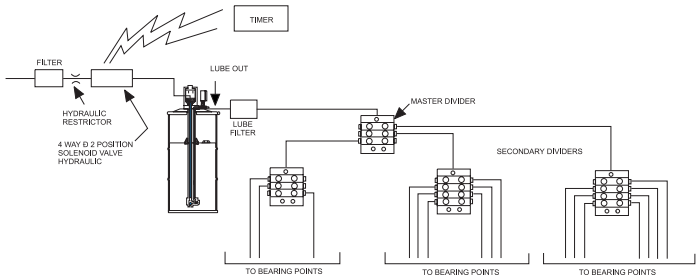
Pump Data
- Output ..... .240 cu. in. stroke (max.) .120 cu. in. stroke (min.)
- Power ratio ..... 30:1 pneumatic 10:1 hydraulic 4:1 hydraulic
- Maximum Air Pressure ..... 150 psi; 30:1 Air Unit
- Minimum Air Pressure ..... 50 psi; 30:1 Air Unit
- Maximum Hydraulic Pressure ..... 500 psi
- Minimum Hydraulic Pressure ..... 150 psi
- Maximum Lube Outlet Pressure ..... 3000 psi
- Cycling rate, (maximum)
  - Oil ..... 40 cycles per minute
  - (2) Grease ..... 30 cycles per minute
- Net weight (less container)
  - 35 lb. unit (pneumatic) ..... 15 lbs.
  - 35 lb. unit (hydraulic) ..... 17 lbs.
  - 120 lb. unit (pneumatic) ..... 18 lbs.
  - 120 lb. unit (hydraulic) ..... 20 lbs.

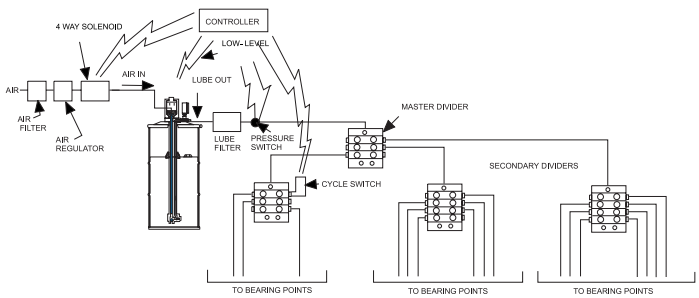
Pneumatic Solenoid Valve w/subbase and Bolts ..... 2 lbs.

Notes: (1) For temperatures below 28°F. contact factory.
(2) Using NLGI No.1 grease at ambient temperature (75° F.)

TYPICAL APPLICATIONS

The barrel pump can be used in a wide range of applications for industrial and mobile markets. Typical industrial applications include conveyor systems, presses and overhead cranes. Examples of mobile applications include front end loaders, scrapers and cranes. A simple timer may be used to activate the system or a controller can be used to monitor various functions.





ORDERING INFORMATION

						Solenoid Included							
Part Number	35 Lb	120 Lb	Hydr 10:1	Hydr 4:1	Air 30:1	Not	12 VDC	24 VDC	115 VAC	220 VAC	Disc Press	LL SW	Press Gauge
145-100-030	X				X	X					1750		X
145-100-040	X		X			X					1750		X
145-100-050	X				X			X			1750		X
145-100-070	X				X		X				1750		X
145-100-130	X			X		X					3000	X	
526-100-770	X			X		X					3000		
145-100-000		X			X	X					1750		X
145-100-010		X	X			X					1750		X
145-100-020		X			X			X			1750		X
145-100-060		X			X		X				1750		X
145-100-110		X		X		X					3000	X	
145-100-140		X	X			X					3250	X	X
145-100-220		X			X				X		1750		X
145-100-300		X			X					X	1750	X	X
145-100-310		X			X				X		1750	X	X
526-100-700		X		X		X					3000		

Pump Repair Kits

Repair Kit, 10:1 Hydraulic Cyl. 560-002-960
Repair Kit, Lower Pump 560-002-961
Repair Kit, 30:1 Air Cyl. 560-900-550
Repair Kit,k 4:1 Hydraulic Cyl. 560-002-985

ISO 9000:2000 REGISTERED FIRM

ISO 14000 REGISTERED FIRM

PARTS/ACCESSORIES

- 24 VDC 4 way pneumatic solenoid valve assembly (includes the following solenoid valve end parts) 526-100-300
  - 24 VDC, 4 way pneumatic solenoid valve (.32A, 7.2W) 526-100-310
  - "O" Rings for adaptor bolts (4 required)* 422-101-160
  - Manifold* 526-100-280
  - Muffler (exhaust)* 526-100-320
  - Adaptor bolts (2 required)* 521-000-560
- 12 VDC, 4 way pneumatic solenoid valve assembly (includes the following solenoid valve and the parts marked "*" above) ... 526-100-360
  - 12 VDC, 4 way pneumatic solenoid valve (.63A, 7.2W) 526-100-350
- 115 VAC, 4 way pneumatic solenoid valve assembly (includes the following solenoid valve and the parts marked "*" above ... 526-100-820
  - 115 VAC, 4 way pneumatic solenoid valve (.13A inrush, .08A Holding) 526-100-810
- 1/2 capacity adaptor for hydraulic powered unit 520-100-060
- Low level switch assembly 35 lb. (SPDT, 15A) 526-100-430
- Low level switch assembly 120 lb. (SPDT, 15A) 526-100-440

Note: Low level switch also available with pump assemblies,