

DESCRIPTION

The basic Trabon E Series Lube package consists of a positive displacement, single-acting pneumatic pump and either reservoirs for oils up to 30,000 SUS, or grease reservoirs.

The pump, which operates at 40 to 150 psi (3 to 10 bar) air pressure, has a displacement and output of 0.030 cubic inches (0.491 cm³) or 0.015 (.246 cm³) per stroke. Maximum rated operating pressure is 2,000 psi. The pump comes with a high pressure rupture disc assembly set at 1,750 psi and a built-in lube outlet check valve.

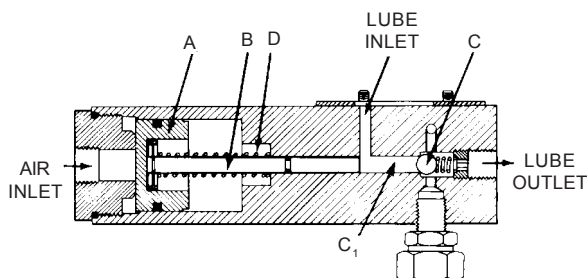
The basic package is available with matched, modular low level switch, pressure gauge and 3-way pneumatic valve accessories.

FEATURE/BENEFITS

- Simplicity of pump design ensures long-lasting dependability. The pump's only moving parts are the air and lube pistons and spring, plus the check valve ball and its spring.
- Built-in high pressure rupture disc assembly (1,750 psi or 121 bar) prevents high downstream backpressure conditions from damaging the pump. Optional discs, with higher ratings, are available.
- Modular design allows field installation of accessories without disturbing existing piping.
- Fast, simple installation. The pump mounts to the bottom of the reservoir. Low level switch assembly mounts to top of reservoir, and the pressure gauge accessory threads into a port on the side of the pump. The entire assembly is mounted with two screws through holes provided in the mounting bracket.

OPERATION

Air under pressure from a central supply enters the air inlet on the pump. The air piston (A) and the lube piston (B) are moved to the right by this air under pressure. This forces the lubricant from the chamber (C₁) through the check valve (C) and out into the distribution system.



When the air supply is vented, the piston spring (D) returns the air and lube pistons (A&B) to their original position. The ball check spring closes the check valve. The return of the pistons to their original position opens the inlet for oil or grease to enter chamber (C₁) and prime the pump for the next stroke.

SPECIFICATIONS

Pump body material	Aluminum
Pump data:	
Lubricant	Oil or Grease
Output (E Pump) 0.030 cu.in. (0.491 cm ³) per stroke	
(Adj. Output E Pump010 to .030 cu.in.
	(.160 to .491 cm ³)
Power ratio	20:1
Air pressure, Max.	150 psi (10 bar)
Min.	40 psi (3 bar)
Recommended lube pressure, Max	2,000 psi
	(138 bar)
High pressure protection	
Rupture disc	1,750 psi (121 bar)
Cycle rate, Max.	30 cycles per minute
Reservoir material	Plastic and Steel
Oil reservoir capacity	4 pints (1.89 liters)
	to 20 pints (9.45 liters)
Low level switch for oil reservoir	10 watts,
	@ 120 VAC (resistive), 1/4 amp S.P.S.T.
	or 15 amp, 120 VAC (resistive), 1/2 amp S.P.D.T.
Grease reservoir capacity	3 lbs. (1.36 kg)
	to 20 lbs. (9.04 kg)
Low level switch for grease	
reservoir (except 3 lb.)	S.P.D.T.
	15 amps @ 120, 240 & 480 VAC
	1/2 amp @ 120 VDC
	1/4 amp @ 240 VDC
Mounting Screw Torque	
Rectangular Plastic Oil Reservoir	20 in. lbs
Cylindrical Reservoirs	8-11 ft. lbs

ORDERING INFORMATION

Use the following Part Numbers to order the units you need.

ASSEMBLIES

- E Series w/3lb reserv. w/LL Sw & pressure gauge ... 521-300-921
- E Series Grease Pkg consisting of pump & 6 lb reserv. 521-300-660
- E Series Grease Pkg w/pump, 6 lb. reserv. & LL Sw. . 521-300-670
- E Series Oil Package with pump & 4 pint reservoir 521-300-370
- E Series Oil Pkg w/pump, 4 pint reserv. & LL Sw., 521-300-380

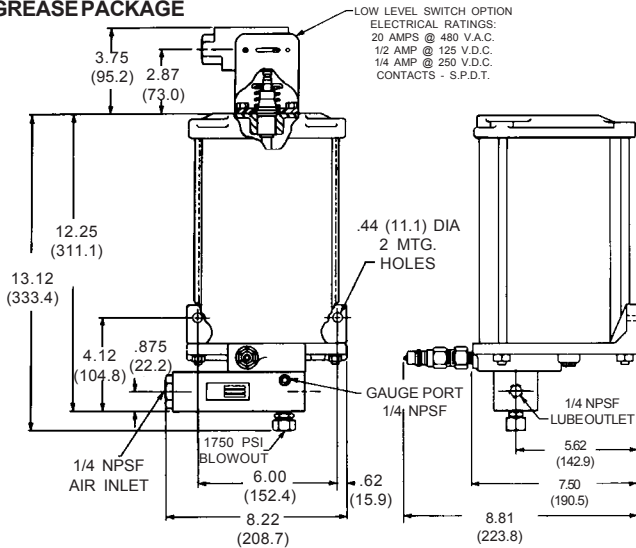
COMPONENTS

- EPump 521-300-180
- Adj Output E Pump 521-301-000

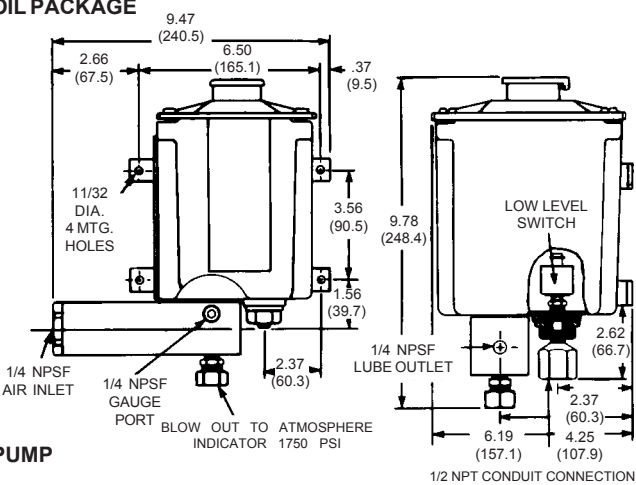
OIL RESERVOIRS

- 4 Pint Rectangular Plastic (1.89 liter) 521-300-190
- 5 Pint Cylindrical Plastic (2.36 liter) 185-100-080
- 6 Pint Cylindrical Plastic (2.84 liter) 185-100-750
- 12 Pint Cylindrical Plastic (5.67 liter) 185-100-060
- 20 Pint Cylindrical Plastic (9.45 liter) 185-100-070

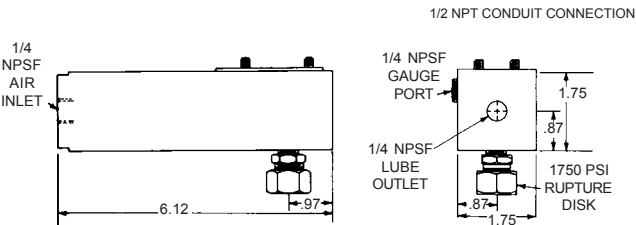
GREASE PACKAGE



OIL PACKAGE



PUMP



GREASE RESERVOIRS

- 3 Lb. Cyl. (1.36 Kg) 185-101-080
- 5 Lb. Cyl. (2.26 Kg) 185-100-040
- 6 Lb. Cyl. (2.71 Kg) 185-100-760
- 12 Lb. Cyl. (5.42 Kg) 185-100-000
- 20 Lb. Cyl. (9.04 Kg) 185-100-010

PLASTICS

- 185-101-080
- 185-100-040
- 185-100-760
- 185-100-000
- 185-100-010

METAL

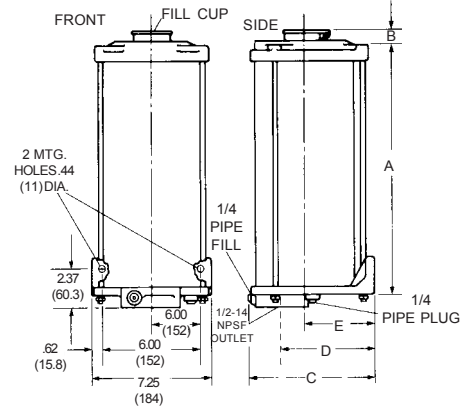
- 185-100-050
- 185-100-770
- 185-100-020
- 185-100-030

LOW LEVEL OPTIONS (not available for 3 Lb. Cyl. Res.)

- Oil 4 Pt. Rectangular 521-500-890
- Oil 5 & 12 Pt. Cyl. (15 AMP) 521-001-030
- Oil 20 Pt. Cyl. (15 AMP) 521-001-040
- All Grease Reserv. (15 AMP) 521-001-110
- 5 Pt & 12 Pt. Cyl. Oil (10 Wt) 456-010-172
- 20 Pt. Cyl. Oil (10 Watt) 456-010-173

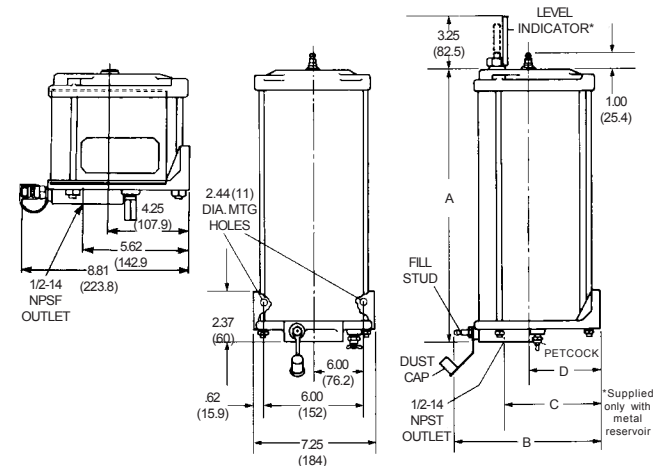
ACCESSORIES (For Field Installation)

- Pressure Gauge 3,000 psi (207 bar) 543-362-000
- Adaptor for Pressure Gauge 412-330-020
- Note: Both Gauge and Adaptor must be ordered for field installation of the Pressure Gauge.
- 3-Way Modular Pneumatic Valve (115 VAC) 521-001-020
- (24 VDC) 521-002-100
- Pump Repair Kit (fixed output) 560-001-210
- Pump Repair Kit (Adjustable E pump) 560-002-973
- Replacement Blowout Disc: Yellow 1,450 PSI 509-292-000
- Red 1,750 PSI 509-293-000



CYLINDRICAL PLASTIC OIL RESERVOIRS

SIZE	A	B	C	D	E
5-Pint	15.00 (381)	.62 (15.9)	5.81 (148)	3.80 (96.4)	3.50 (88.9)
6-Pint	10.50 (267)	.75 (19.1)	7.50 (191)	5.62 (143)	4.25 (108)
12-Pint	15.00 (381)	.75 (19.1)	7.50 (191)	5.62 (143)	4.25 (108)
20-Pint	22.00 (559)	.75 (19.1)	7.50 (191)	5.62 (143)	4.25 (108)



CYLINDRICAL METAL & PLASTIC GREASE RESERVOIRS

SIZE	Actual Cap.	A	B	C	D
3-lb.	3 lb.	6.88 (174.8)	8.81 (224)	5.62 (143)	4.25 (103)
5-lb.	2.7	15 (381)	7.25 (184)	3.62 (92.1)	2.50 (63.5)
6-lb.	2.6	10.5 (267)	8.81 (224)	5.62 (143)	4.25 (108)
12-lb.	5.8	15 (381)	8.81 (224)	5.62 (143)	4.25 (108)
20-lb.	11.8	22 (559)	8.81 (224)	5.62 (143)	4.25 (108)

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