

E-Series Lube Packages

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 .010 - .030 (.160 - .491 cm³) per stroke. Maximum rated operating pressure is 2,000 psi. The fixed output pump comes with a 1,750 psi high pressure rupture disc assembly.* Both pumps include 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.

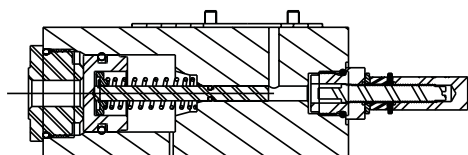
*2350 psi rupture disk also available for 563363 and 563364.

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) (fixed output pump) prevents high downstream back-pressure 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

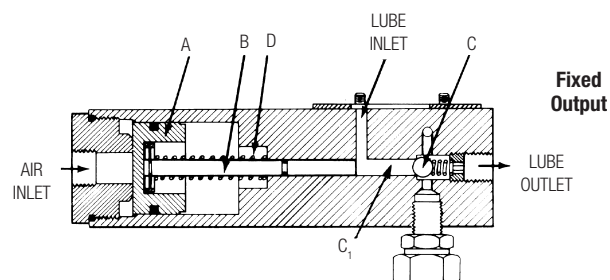
Air under pressure from a central supply enters the air inlet on the pump. The air piston (A) and the lube piston (B) are moved to the right by this air under pressure. This forces the lubricant from the chamber (C₁) through the check valve (C) and out into the distribution system. When the air supply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



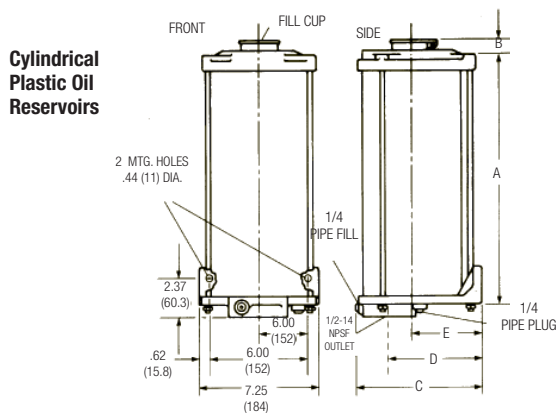
Adjustable Output



Specifications	
Pump Body Material	Aluminum
Lubricant	Oil or Grease
Output per Stroke	0.030 cu.in. (0.491 cm ³)
Adj Output E Pump	0.010-0.030 cu.in. (0.160-0.491 cm ³)
Pump Ratio	20:1
Air Pressure	40-150 psi (3-10 bar)
Air Volume to Operate per Stroke	0.85 cu.in. (13.9 cc)
Recommended Lube Pressure (max)	2000 psi (138 bar)
High Pressure Protection Rupture Disc	1750 psi (121 bar) 2350 psi (162 bar) (563363, 563364)
Cycle Rate (max)	10 cpm (Grease), 30 cpm (Light Oil)
Reservoir Material	Plastic and Steel
Reservoir Capacity	
Oil	4-20 pints (1.89-9.45 liters)
Grease	3-20 lbs (1.36-9.04 kg)
Low Level Switch	
Oil	10 Watts @ 120 VAC (resistive), 1/4 amp SPST, or 15 amp, 120 VAC (resistive), 1/2 amp SPDT
Grease	SPDT, 15 amps @ 120, 240 & 480 VAC, 1/2 amp @ 120 VDC, or 1/4 amp @ 240 VDC
Mounting Screw Torque	
Rectangular Plastic Oil Reservoir	20 in lbs
Cylindrical Reservoir	8-11 ft lbs



Ordering Information		
Description	Part No.	Old Part No.
Assemblies w/Fixed Output Pump		
E-Series w/3 lb Reservoir w/Low Level Switch & Pressure Gauge	563365	521-300-921
E-Series Grease Pump & 6 lb Reservoir Package	563363	521-300-660
E-Series Grease Pump, 6 lb Reservoir & Low Level Switch Package	563364	521-300-670
E-Series Oil Pump & 4 pint Reservoir Package	563361	521-300-370
E-Series Oil Pump, 4 pint Reservoir & Low Level Switch Package	563362	521-300-380
Components		
E Pump	563358	521-300-180
*Adj Output E Pump	563367	521-301-000
Oil Reservoirs		
4 pint Rectangular Plastic (1.89 liter)	563359	521-300-190
5 pint Cylindrical Plastic (2.36 liter)	562891	185-100-080
6 pint Cylindrical Plastic (2.84 liter)	562904	185-100-750
12 pint Cylindrical Plastic (5.67 liter)	562889	185-100-060
20 pint Cylindrical Plastic (9.45 liter)	562890	185-100-070
Grease Reservoirs		
3 lb Cylindrical Plastic (1.36 kg)	562910	185-101-080
5 lb Cylindrical (2.26 kg)	562888	185-100-040
Plastic		
Metal	564264	185-100-050
6 lb Cylindrical (2.71 kg)	562905	185-100-760
Plastic		
Metal	562906	185-100-770



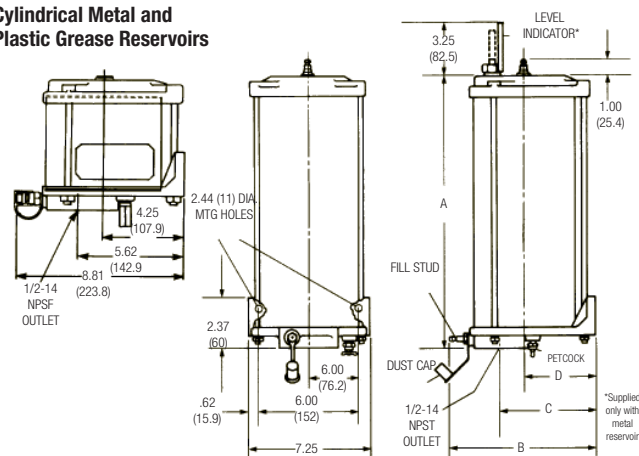
Size	A	B	C	D	E
5-Pint	15.00 (381)	.62 (15.9)	5.81 (148)	3.80 (96.4)	3.50 (88.9)
6-Pint	10.50 (267)	.75 (19.1)	7.50 (191)	5.62 (143)	4.25 (108)
12-Pint	15.00 (381)	.75 (19.1)	7.50 (191)	5.62 (143)	4.25 (108)
20-Pint	22.00 (559)	.75 (19.1)	7.50 (191)	5.62 (143)	4.25 (108)

12 lb Cylindrical (5.42 kg)		
Plastic	562884	185-100-000
Metal	562886	185-100-020
20 lb Cylindrical (9.04 kg)		
Plastic	562885	185-100-010
Metal	562887	185-100-030
Low Level Options (not available for 3 lb Cyl. Res.)		
4 pint Rectangular, Oil	563378	521-500-890
5 & 6 pint Cylindrical, Oil (15 amp)	563316	521-001-030
20 pint Cylindrical, Oil (15 amp)	562217	521-001-040
All Grease Reservoirs (15 amp)	563322	521-001-110
5 & 12 pint Cylindrical, Oil (10 watt)	563015	456-010-172
20 pint Cylindrical, Oil (10 watt)	563016	456-010-173
Accessories (for field installation)		
Pressure Gauge, 3000 psi (207 bar)	557864	543-362-000
**Pressure Gauge Adaptor	556415	412-330-020
3-Way Modular Pneumatic Valve		
115 VAC	563315	521-001-020
24 VDC	563332	521-002-100
Pump Repair Kit (fixed output)	563909	560-001-210
Pump Repair Kit (adjustable E pump)	563945	560-002-973
Replacement Blowout Disc		
Yellow, 1450 psi	557433	509-292-000
Red, 1750 psi	557434	509-293-000

*Adjustable output pump is not fitted with rupture disc assembly.

**Both Gauge and Adaptor must be ordered for field installation of the Pressure Gauge

Cylindrical Metal and 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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