



Service Guide

8540-B
8549-B1
8549-C

High-Pressure Lubricant Pump

Description

The major components of the high-pressure pump models in this series consist of a(n):

- air-operated motor
- lubricant pressure controller (pressurtrol)
- double-acting reciprocating pump tube.

The pressurtrol minimizes material pressure drop that occurs when the pump cycles. Refer to SER 319800-1.

Pump Assembly

These high-pressure (70:1 ratio) pumps are designed to deliver a range of greases [up to NLGI # 3] and operate directly from their original container.

Models 8540-B, 8549-B1, and 8549-C

Pump model 8540-B is designed with a pump tube length to accommodate 120-pound (50 kg) containers.

The 8549 series pumps are for 400-pound (180 kg) containers with model 8549-B1 including a bung adapter. See Figure 1.

Specifications

Air Motor

Piston Diameter x Stroke		Air Inlet	Max. Air Pressure *	
Inches	Centimeters		psi	Bars
3 x 1-5/8	76.2 x 41.3	1/4 " NPTF (f)	200	13.8

* With pressurtrol, [100 psi (6.9 Bars) without pressurtrol]
For information on the air motor, refer to SER 324400-5

Pump Tube

Material Outlet	Max. Material Pressure		Max. Delivery/Minute (Approximate)*		Displacement per Cycle	
	psi	Bars	Ounces	Grams	in ³	cm ³
3/8 " NPTF (f)	7500	517	32	909	0.277	4.54

* For detailed information, refer to Figure 4

Table 1 Pump Assembly Specifications

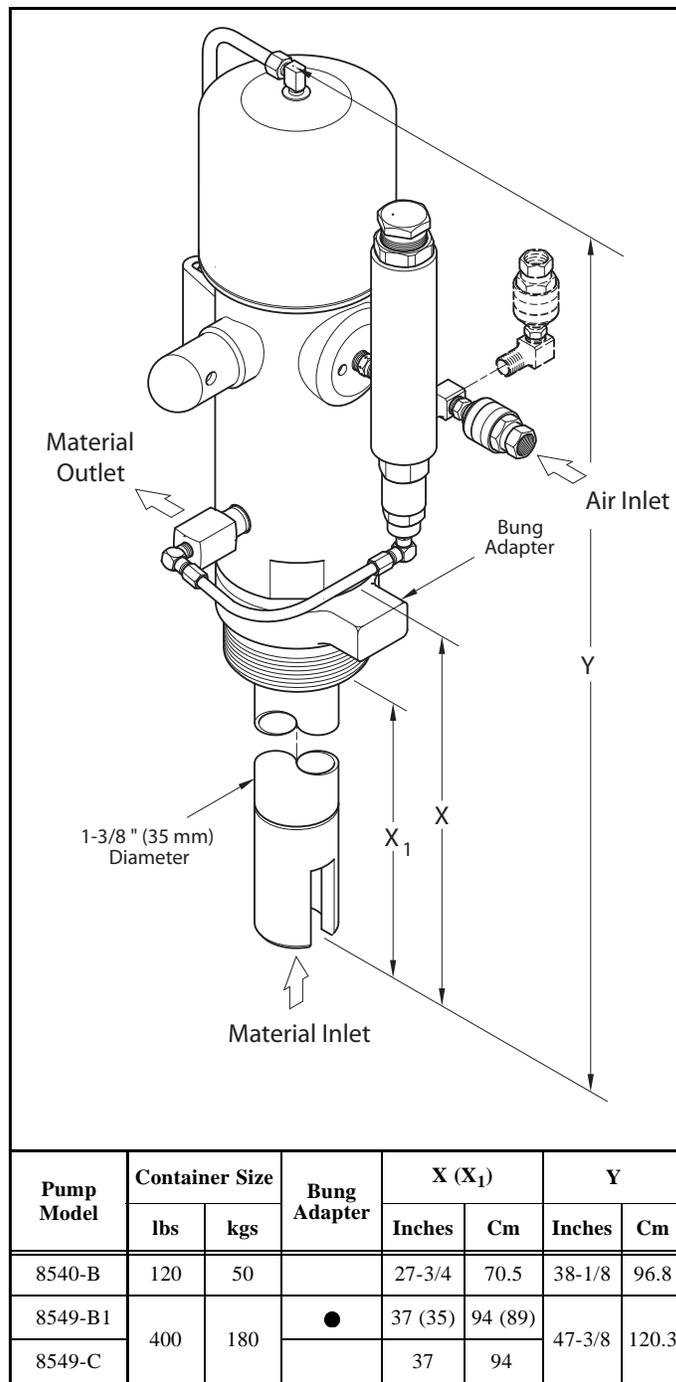


Figure 1 Pump Models 8540-B, and 8549 Series Model 8549-B1 Shown

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Accessories

Model Number	Container Size	Follower	Cover	Bung Adapter
8540-B	120 lbs	338802	338371	326750
	50 kg	338993	338983	
8549-B1	400 lbs	338911	318040-4	Included with Model
	180 kg	338994	338984	
8549-C	400 lbs	338911	318040-4	326750
	180 kg	338994	338984	

Table 3 Pump Models 8540-B and 8549 Series Accessories

Performance Chart

A pump’s ability to deliver material is based on the pressure (psi/Bars) and quantity (cfm/lpm) of air supplied to the motor and the amount of material discharge [back] pressure to be overcome within the system.

This chart contains curves based on three different air pressures. The curves relate delivery in ounces (grams) per minute (X axis) to air consumption in cubic feet (liters) per minute (right Y axis) and to material discharge pressure in psi/Bars (left Y axis).

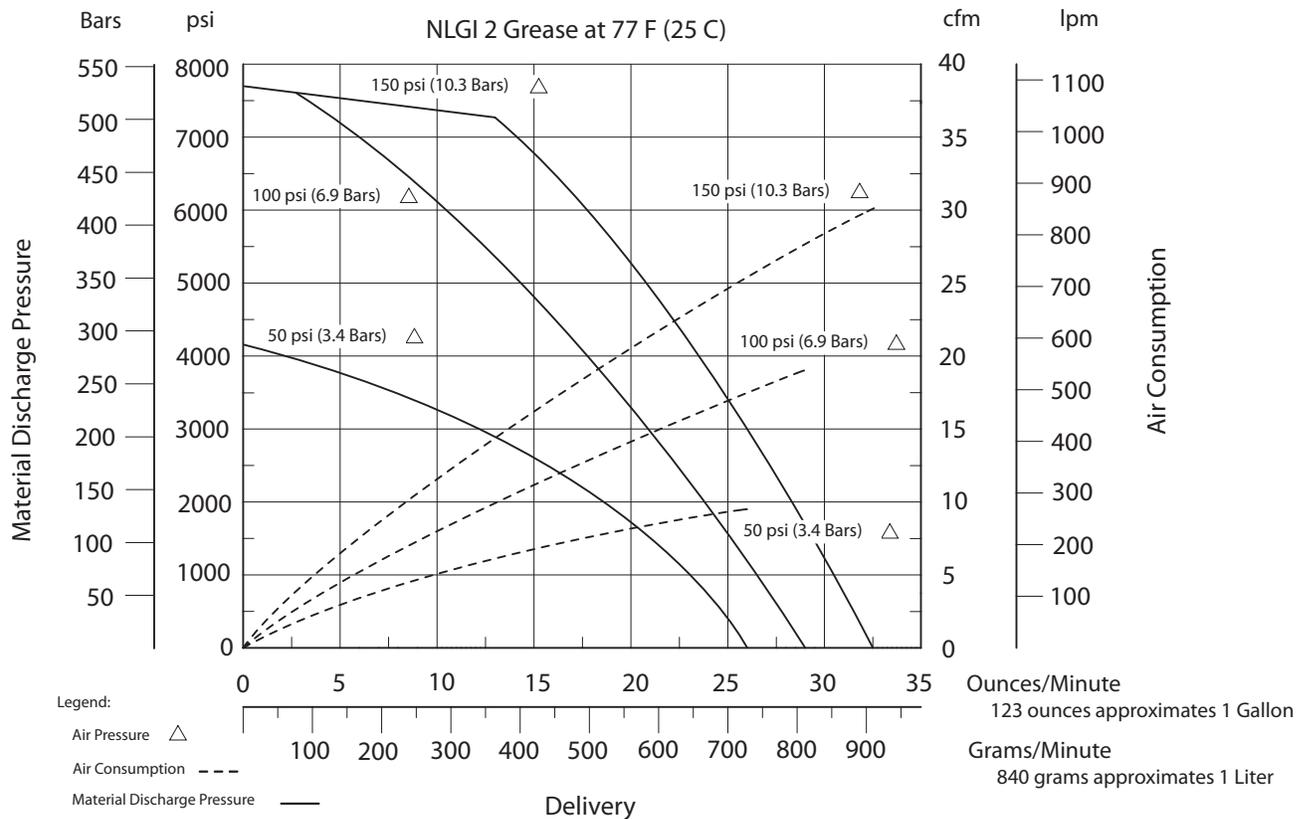


Figure 4 Delivery versus Discharge Pressure and Air Consumption