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## Product Description Sheet Loctite® High Pressure 300ml Benchtop Cartridge Dispenser

Part # 1046901  
North American Engineering Center, April 2009

### PRODUCT DESCRIPTION

The Loctite® High Pressure Benchtop Cartridge Dispenser is designed for dispensing high viscosity, single-component adhesives and sealants packaged in 300 ml cartridges. It extracts the adhesive from the cartridge and delivers it to a High Pressure Dispense Valve (item # 1049138 - sold separately) via a high-pressure pump and feedline. The dispenser is a completely integrated solution for dispensing drops or beads of adhesive. Compatible Loctite® product chemistries include: Silicone, Polyurethane and MS polymer adhesives. Note: Not for dispensing anaerobic chemistry-based products. The dispenser can be used as a manual dispenser or integrated with a Loctite® 97101 Controller and dispensing valve for automated dispensing.

### THEORY OF OPERATION

The Loctite® High Pressure Benchtop Cartridge Dispenser is an integrated system for dispensing high viscosity materials packaged in 300 ml cartridges. The cartridge dispenser consists of three main components:

1. Pneumatic priming ram is used to provide a low pressure feed of adhesive to the reservoir block.
2. Adhesive reservoir block.
3. A 10:1 pump draws product from the reservoir block and amplifies the pressure by a factor of 10 and then feeds the product through a feedline to the valve.

The unit has two regulators to control the pressure of the pneumatic priming ram and the 10:1 pump. By increasing the pressure of either of these regulators, the outlet pressure of the dispenser will be increased. The primary product regulation should be controlled using the pump regulator and the pneumatic ram regulator should be set to supply product at just enough pressure to feed the reservoir. The AC power cord plugs to the electrical junction box and supplies power to the 10:1 pump via the low level relay. The low level sensor is mounted to the pneumatic priming ram to indicate when the adhesive cartridge is empty. When activated, the low level sensor will provide a signal to the COM port on the electrical box and turn the 10:1 pump off.

### PRODUCT FEATURES

- High-pressure capability up to 725 psi (50 bar) product pressure.
- Minimal pressure fluctuation results in consistent product flow.
- Pump Cycle Rate: Up to 200 cycles/minute (maximum).
- 2-meter length feedline included (1-meter length available).
- Accepts Loctite® 300 ml cartridges
- Product viscosities of 10,000 – 1,000,000 cPs
- Low level sensing capabilities

### TECHNICAL DATA

- Input Voltage:
  - Units sold in Asia / Europe 240 VAC / 50 Hz.
  - Units sold in North America 120 VAC / 60 Hz.
- Rated Power: 20 Watts
- Air Supply: 85 psi (6 bar) maximum
- Dimensions: 14" (W) x 8.3" (D) x 27" (H)
- Weight: 11 lbs.
- Operating Temp: -4°F to +120°F (-20°C to +50°C)
- Air Consumption: 2.9 ft<sup>3</sup>/min (80 l/min) maximum





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**Benchtop Cartridge Dispenser**

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**High Pressure 300ml Cartridge Dispenser includes:**

- High Pressure Cartridge Dispenser
- Cartridge Adaptor Inserts
- PTFE Lined Stainless Steel Braided Feedline (2 meter length)
- Power Cord
- XS2 Connection Cable
- Low Level Sensor with Cable (1m Length)
- Air Supply Line (2m Length)
- Lubricant Oil
- Operation Manual

**Loctite® brand Accessories and Spare Parts (not included):**

Loctite Item Number	Description
<b>Accessories</b>	
1049138	Loctite® High Pressure Dispense Valve
1070269	Mounting Bracket for High Pressure Dispense Valve
97101	Loctite Digital Dispense Controller
<b>Spare Parts</b>	
1241780	PTFE Lined Hose 13mm I.D. x 2 meter length – 50bar
1241821	PTFE Lined Hose 13mm I.D. x 1 meter length – 50bar
1049135	O-Ring Kit
1049136	Pump Seal Kit
1049137	Motor Seal Kit
1118939	JPN Cartridge Insert
1118940	Fischbach Cartridge Insert
1118971	Low Level Sensor with Cable
989165	Secondary Pressure Regulator w/Isolator & Gauge
97201	Loctite Foot Switch



High Pressure Dispense Valve (up to 725 psi) # 1049138  
 (Sold separately)

