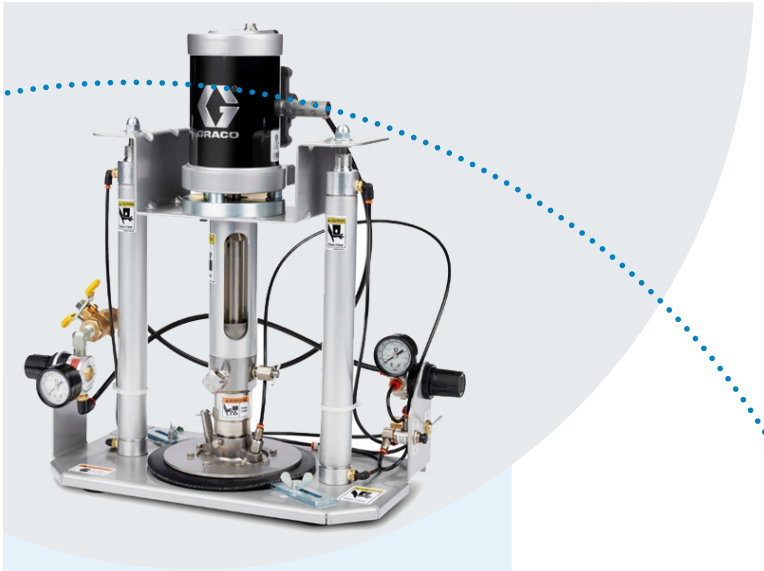

Mini Ram Pump

Precise, Consistent Fluid Dispensing of Viscous Materials from Small Pails

- Extrudes viscous material from its original 3.8-liter Dymax pail or other 1-gallon container
- Tough construction for rugged conditions, low maintenance, and minimal consumable components
- Provides higher fluid delivery pressures than purely pneumatic reservoirs when used with thixotropic materials greater than 5,000 cP
- Compact and lightweight for significantly easier loading/unloading and cleaning when compared to pumps designed for larger pails
- Perfect solution for applications utilizing Dymax SpeedMask® resins, form-in-place gaskets, and other thixotropic materials packaged in a 3.8-liter pail
- Wetted components are highly chemical resistant and chemically stable with Dymax products
- Offers highly precise fluid delivery with an additional, optional fluid regulator for end-of-line pressure control

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The Graco DynaMite Mini Ram Pump provides precise and consistent fluid dispensing in a small, compact model. It utilizes an NXT air motor to provide the power necessary to move viscous materials like adhesives, gaskets, maskants, and more from smaller 3.8-liter Dymax pails and other 1-gallon containers. The ram pump excels when used to spray high-viscosity materials and is available as part of the complete Dymax SG-150 high-flow and SG-200 super-flow spray systems. It can also be used in conjunction with any other Dymax dispensing system or valve. The Dymax Application Engineering group can help configure the best dispensing or spray system to meet your needs.

Typical Applications

- Dispensing viscous fluids and pastes
- Fluid dispensing applications using manual or automatic valves
- Fluid dispensing applications in small manufacturing work cells, at industrial workbenches, or on mobile workstations which have an air supply

Specifications

Specifications	
Part Number	T18561 Mini Ram Pump for Dymax 3.8-Liter Pails and Other 1-Gallon Containers
System Part Numbers	T17840 Model 400 Valve System with 3.8-Liter Mini Ram Pump T17837 Model 485 Valve System with 3.8-Liter Mini Ram Pump T17857 Model 775 Valve System with 3.8-Liter Mini Ram Pump T17852 Model 830 Valve System with 3.8-Liter Mini Ram Pump T17848 SG-150 High-Flow Spray System with 3.8-Liter Mini Ram Pump T17850 SG-200 Super-Flow Spray System with 3.8-Liter Mini Ram Pump T18572 ViscoTec Valve System with 3.8-Liter Mini Ram Pump
Maximum Fluid Outlet Pressure	1,200 psi (83 bar, 8.3 MPa)
Maximum Fluid Flow	20 oz/min. (0.59 lpm)
Maximum Fluid Viscosity	600,000 cPs
Volume Per Stroke	0.17 oz (5.0 cc)
Pump Cycles Per 1 Gallon	376.5
Maximum Recommended Pump Speed	Intermittent Duty: 60 cpm | Continuous Duty: 40 cpm
Maximum Operating Temp.	140°F (60°C)
Air Input Pressure	25 to 100 psi (1.8 to 7 bar, 0.18 to 0.7 MPa)
Fluid Outlet Size	¼ NPT(f)
Air Inlet Size	¼ NPT(f)
Wetted Materials	304 and 17-4 pH, SST, PTFE, fluoroelastomer, PEEK, silicone
Weight	18.5 lbs. (8.4 kg)
Width	14.0 in. (356 mm)
Depth	8.25 in. (210 mm)
Maximum Height	28.75 in. (730 mm) with ram cylinder extended

Typical Fluids Handled

- Adhesives
- SpeedMask® resins
- Form-in-place gaskets
- Medium/High viscosity coatings
- Encapsulants
- Potting compounds
- Sealants
- Heatsink compounds
- Grease
- Inks
- Colorants

Spare Parts & Accessories

Spare Parts	
Replacement ram plate	T18562
Replacement 36 in. high-pressure fluid line	T18563
3.8-Liter wiper	T18564
90° Hose fitting	T18566
Replacement high-pressure fluid regulator (1200 inlet / 100 outlet psi max.)	T18563

Accessories	
6 ft. high-pressure hose kit (includes 3/8" NPTM union, 3/8" to 1/4" NPT reducers, 1/4" to 1/4" swivel adapter)	T18005
Downstream fluid regulator (300 psi max.)	T18486
Fitting, 3/8" NPT to 3/8" push (to connect from downstream fluid regulator to flexible HDPE fluid line)	T18568
Flexible HDPE fluid line, per foot (120 psi max.)	T15878
Pail opening tool	T17170

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Please note that most dispensing system applications are unique. Dymax does not warrant the fitness of the product for the intended application. Any warranty applicable to the product, its application and use is strictly limited to that contained in Dymax standard Conditions of Sale published on our website. Dymax recommends that any intended application be evaluated and tested by the user to ensure that desired performance criteria are satisfied. Dymax is willing to assist users in their performance testing and evaluation. Data sheets are available for valve controllers or pressure pots upon request. **PB0057 10/2/2017**