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## Product Description Sheet Loctite® DuraPump™ Programmable Meter Mix System

North American Engineering Center, June 2007

### PRODUCT DESCRIPTION

The Loctite® DuraPump™ Meter Mix Systems offer superior operating performance and durability for a wide range of two-component adhesive chemistries up to 10:1 ratios. These programmable models provide convenient touch screen digital control for shot size, choice of 3 operating modes, and can easily be integrated with a PLC. Its innovative rod displacement pump design ensures excellent shot repeatability, low wear, and allows direct connection to high pressure feed systems. A static mix nozzle can also be mounted directly on the integrated mixing manifold, eliminating the need for a dispense valve in many applications. Optional reservoirs, level controls, hoses, and valves are also available to complete your specific process requirements.

### PRODUCT FEATURES

- No requirement for pump phasing on start-ups; just start up and go.
- Includes 3 modes, including an incremental shot size mode, where shots can be set and dispensed without recharging.
- Superior pump wear life, especially well suited for highly filled materials.
- Direct flow shut off, no check valves to repair or replace.
- Accepts external feed systems up to 2,000 psi without extraneous accumulators.
- Optional mix block manifold assembly static mix nozzles directly eliminating the need for a valve in many applications.
- Available with optional low-level sensors.
- Linear position encoder ensures precision dispensing of adhesive volumes.
- Storage up to 63 programs for shot size, ratio, purge settings, and volume compensation parameters.
- Available in 1:1, 2:1, 4:1, 10:1 or custom ratio systems. See table below.



DuraPump™ Programmable Meter Mix System

Item Number	Mix Ratio	Shot Size Range
1041649	1:1	0.4 to 28 ml
1041644	2:1	0.4 to 21 ml
1041639	4:1	0.4 to 18 ml
1041638	10:1	0.4 to 15.5 ml
1041635	Custom ratio *	Will vary based on ratio selected

\* Custom ratios available from 1:1 up to 9.99:1



Optional Reservoir Kit shows  
 2 Poly Tanks mounted on Stand



Optional Hand-held Valve, Stationary Valve  
 and Dual Mix Block Manifold Assembly

NOT FOR PRODUCT SPECIFICATIONS

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### Technical Data

- Electrical input voltage 110-250 VAC; 50-60 Hz.
- Air Input: 80 –110 PSI filtered dry air.
- Weight: 80 lbs.
- Dimensions: 12.5" W x 12.5" D x 27" H
- Products: Epoxies; Acrylics; Polyurethanes
- Cycle Rate: Up to 20/minute
- Package Types: Any, excluding dual cartridges

### System includes:

- DuraPump™ Programmable Meter Mix
- Foot Switch
- Night cap
- Ratio cap
- Operating Manual

### Optional Accessories (not included):

Loctite® DuraPump™ Programmable Meter Mix Feed System Options and Accessories

All items sold separately

PRODUCT	Item Number	Description
DuraPump™ Mix Block Manifold Assembly; Item # 1167586		
DuraPump™ Dispense Valves - 1/4" FNPT product hose connection		
	1051664	Dispense Valve, All ratios
	1051661	Pistol Grip with Pneumatic Trigger Switch (converts Dispense Valve into a Hand-held Tool.)
DuraPump™ Hose Kit – 2 required for each dispense valve		
	1051692	DuraPump™ Hose General Purpose – 3/8" x 24"
	1051691	DuraPump™ Hose General Purpose – 3/8" x 96"
	1051693	DuraPump™ Hose General Purpose – 3/8" x 144"
	1051668	DuraPump™ Heated Hose Option - 48"
	1051667	DuraPump™ Heated Hose Option - 96"
	1051666	DuraPump™ Heated Hose Option - 144"
All Loctite® DuraPump™ hose kits come complete with 2 fittings for connection to the DuraPump™ System and Dispense Valve		
	1051660	9.5 Liter Poly Gravity Feed Tank with Cover (requires 1051651)
	1051659	7 Liter Stainless Steel Gravity Feed Tank with Cover (requires 1051651)
	1051651	Dual Tank Stand (1 required for each pair of Gravity Tanks)
	1051657	Disposable Desiccant Air Dryer Option
	1051656	Follower Plate with Handle – (for stainless steel tank only)
	1061655	Agitator Assembly - (for stainless steel tank only)
	1051654	Tank Heater and Controls Option- (for stainless steel tank only)
	1051630	Low Level Sensing Option -Stainless Steel Tank – (Programmable DuraPump™ only)
	1051629	Low Level Sensing Option - Poly Tank - (Programmable DuraPump™ only)
DuraPump™ Control Options		
	1051627	Hose Heat Controller for 1 or 2 Heated Hoses
	1051695	Precision Hydraulic Flow Controller

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