

Equipment Catalogue

LOCTITE®



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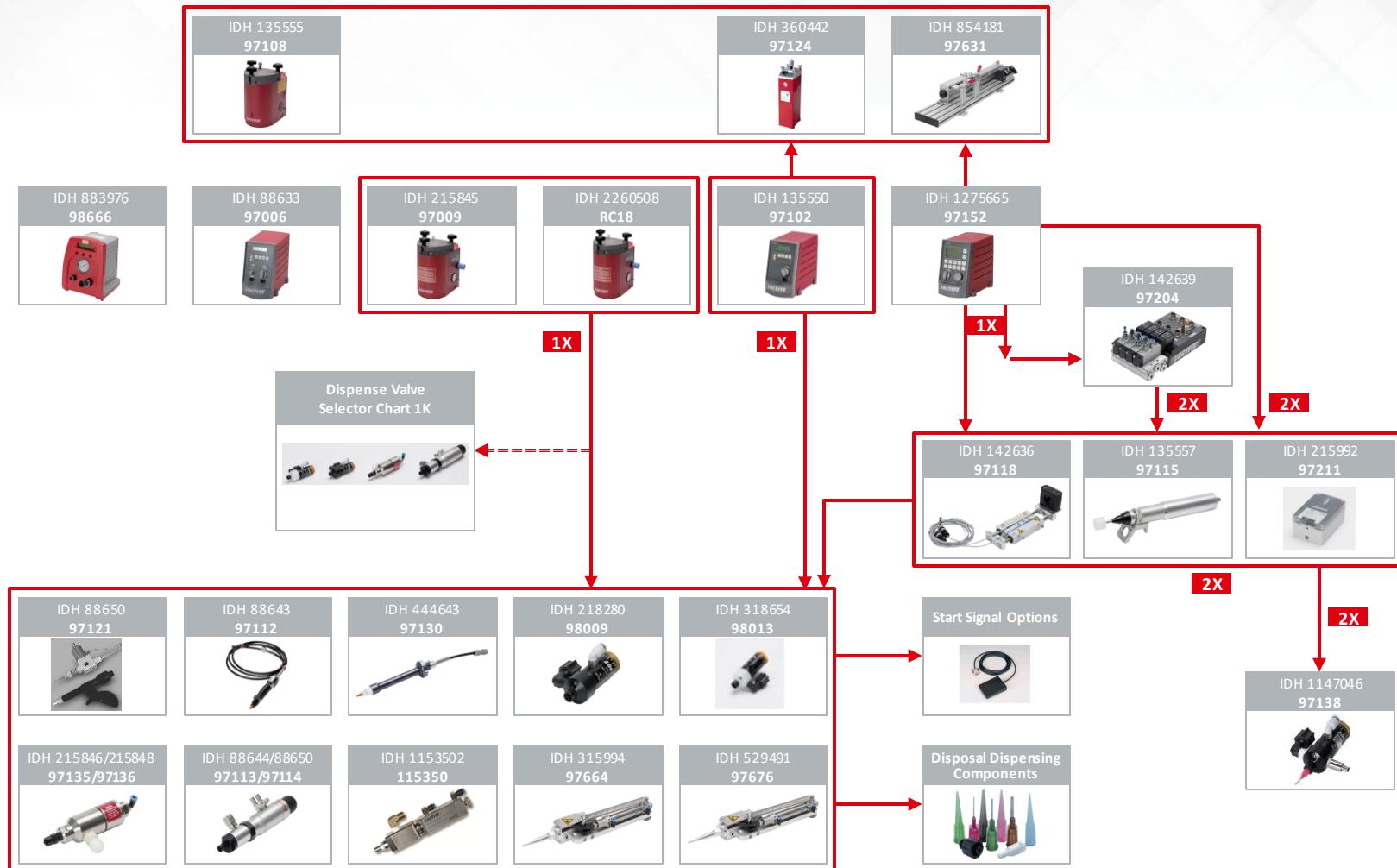
- Pressure-Time Dispensing Systems – 1K
- Pressure-Time Dispense Valves Selector Chart – 1K
- Volumetric Dispensing Systems – 1K
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- Volumetric Dispensing Systems – 2K
- Hand Applicator
- Dispense Needles and Mixers Selector
- Benchtop Robots
- Light Cure Equipment
- Air Filter Systems



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Pressure-Time Dispensing Systems – 1K



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LOCTITE 97108 2.0 L Reservoir

Application Field

LOCTITE 97108 2.0 L Reservoir accommodates LOCTITE bottles and is equipped with a pneumatic connection and an electrical interface for setup with all LOCTITE controllers. It suits adhesive bottle sizes 250ml, 500g, 1l, 2l and 2kg.

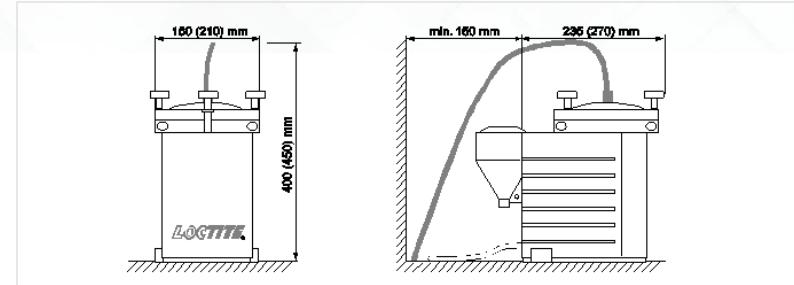
Operation

The original LOCTITE bottle is inserted into the reservoir with the adhesive feedline located in the bottle and the lids secured in place.

The dosed reservoir is supplied with regulated, pressurized air from the LOCTITE controller 97102 or 97152. Pneumatic pressure inside the reservoir is applied to the surface of the adhesive in the original LOCTITE bottle and transports through the product line to the dispense valve. With the 2-liter Reservoir 97108, LOCTITE Products can be applied directly from the original packages with a maximum height of 250 mm and a maximum diameter of 124 mm.

Benefits

- Operational with semi-automatic and automatic controllers
- Product low level and empty sensor to prevent air entrapment
- Reservoir lid holder with drip tray eliminates feed line contamination when changing product container



Technical Data	
Dimensions 0,5l	205 mm (W) x 335 mm (H) x 360 mm (D)
Weight	6,50 kg
Pneumatic Supply	Regulated pressure supply, max. 8 bar (116 psi)
Quality	Filtered 10 µm, oil-free, non-condensing
Over-Pressure Safety (rupture disc)	min. 9 bar (130.5 PSI); max. 12,5 bar (174 PSI)
Tightening torque of the rupture disc	max. 20 Nm
Items supplied	97108 2 Litre Reservoir, Power cord, operation manual, adhesive cups, airline 6 mm, screwdriver, fitting, bottle nest

LOCTITE 97124 2 L Bag Dispenser

Application Field

The Bag Reservoir 97124 is suitable for the application of LOCTITE adhesives with a dispensing valve at workstations such as in workshops, laboratories, and industrial installations.

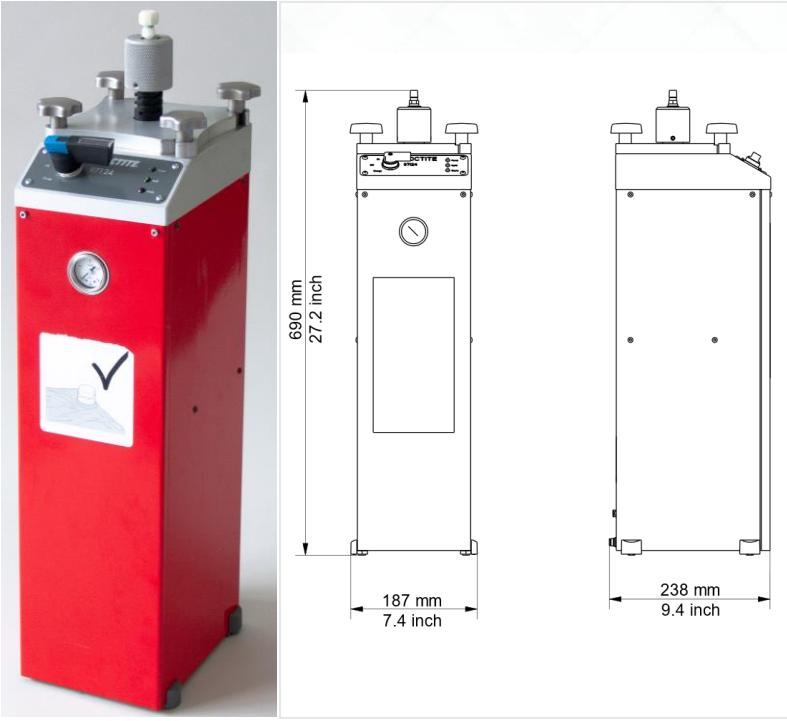
Operation

The LOCTITE 97124 2l Bag Dispenser dispenses LOCTITE adhesive by air pressure. After a 2l bag package of LOCTITE adhesive has been loaded to the reservoir, it is pressurized from a LOCTITE Controller using clean, filtered dry air. The air pressure inside the vessel presses the product out of the bag package without mechanical stress. The dispensing pressure (regulated air from the controller) squeezes the bag and transports the product through the piercing element, the product fitting and the feedline to the dispensing valve. An integrated pneumatic cylinder presses a pusher plate against the bag in a controlled way. This action avoids twisting and closing of the bag.

Benefits

Considerable reduction of packaging waste by using a 2-litre product bag

- Automatic ventilation by solenoid valve in connection with controllers 97102 or 97152
- No contamination as product remains in original container



Technical Data	
Dimensions	187 mm (W) x 690 mm (H) x 238 mm (D)
Weight	13.0 kg
Pneumatic Supply	Min. 4 bar (58 PSI), max. 8 bar (115 PSI)
Pneumatic Quality	Filtered 10 µm, oil-free, non-condensing
Over-Pressure Safety (rupture disc)	min. 9 bar (130.5 PSI); max. 12.5 bar (174 PSI)
Items supplied	Tightening torque of the rupture disc max. 20 Nm 97124 2L Bag Dispenser, Tank cord, Product fitting 1/4", Piercing element 5mm, Reservoir tubing set, Operating Manual

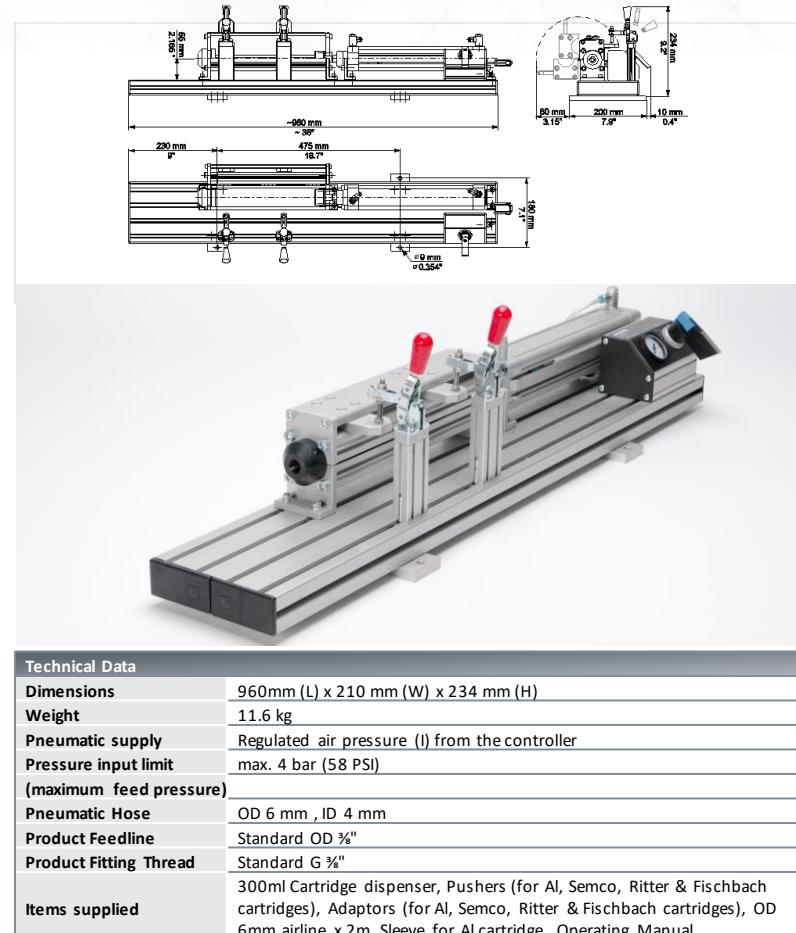
LOCTITE 97631 300 ml Cartridge Dispenser

Application Field

The LOCTITE 97631 Cartridge Dispenser 97631 is used to dispense bubble minimized LOCTITE products in 300 ml cartridges such as Gel-CA's, Anaerobics, Epoxies and Silicones. In connection with a dispensing valve or eccentric rotor pump it can be used in transfer lines, manual or automatic workplaces.

Operation

The LOCTITE 97631 300 ml Cartridge Dispenser should be pressurized from a LOCTITE controller with max. 4 bar (58 PSI). The piston of the pneumatic cylinder presses the product out of the cartridge and forces it through the feedline to the dispensing valve/eccentric rotor pump. When connected to a Controller 97152, the regulated air pressure is available at the unit when the controller is switched on. The piston can be switched to the forward position, "keep in position" or piston backwards. It will be depressurized automatically when the controller is switched off. No movement of the piston is possible.



LOCTITE 98666 All Purpose Syringe Dispensing System

Application Field

LOCTITE All Purpose Syringe Dispensing System accurately dispenses adhesives or other fluids. Typical applications are the assembly of electrical components, wire tacking, circuit board repair, and the locking of fasteners. It is designed for adhesives and sealants in 10ml, 30ml, 55ml and 300ml syringes/cartridges from medium viscosities to pastes.

Operation

The LOCTITE Digital Syringe Dispenser 883976 is a semi-automatic dispensing system designed to dispense adhesives and fluids packaged in 3, 5, 10, 30, 55 syringes and 300 ml cartridges. The unit has digital timing control with decimal settings to 0.001 seconds for increased precision over typical pressure-time systems. An adjustable pressure regulator controls a pulse of air, and when used in conjunction with an airline adapter attached to an adhesive syringe barrel, will provide a controlled dispensed amount of adhesive. The system can be operated in the manual, incremental, or timed (automatic) dispense mode to dispense dots, beads or to fill syringes.

Benefits

Digital timing control

- Compact design to minimize workspace requirement
- Vacuum suck back to ensure no drips or run-on
- Useful for all kinds of applications: drops, beads, potting



► Needle Selector



Technical Data

Dimensions	152 mm (W) x 165 mm (D) x 178 mm (H)
Weight	1.2 kg (2.6 lbs)
Input Voltage	24 VDC
Air Input	Maximum 7 bar (100 psi)
Air Output	Maximum 7 bar (100 psi)
Timer Range	0.02 – 60.00 s
Cycle Modes	Manual, Incremental or Timed
Items supplied	98666 All Purpose Syringe dispenser Universal Power Cord and Adapter Foot Switch Syringe Stand 10ml and (1) 30ml Airline Adapter Dual Unit Stacking Lock Pin Air line Support Mast Needle Sample Kit Inlet Air Hose (6mm OD x 6ft) & Fitting Kit

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LOCTITE 97006 Precision Syringe Dispensing System

Application Field

LOCTITE 97006 Precision Syringe Dispensing System accurately dispenses adhesives or other fluids. Typical applications are the assembly of electrical components, wire tacking, circuit board repair, and the locking of fasteners. It is designed for adhesives and sealants in 10ml, 30ml, 55ml and 300ml syringes/cartridges from viscosities as low as 5mPas to pastes.

Operation

The Syringe Dispenser 97006 is connected to an external electrical and pneumatic supply. The Control Unit 97006 regulates the adjusted dispensing pressure and controls the dispensing during the selected dispensing time. Pressure variation of more than 10 % results in an error message on the digital display. By means of air pressure on the plug in the syringe, the product is transported to the dispensing needle. The built-in precision vacuum regulator prevents dripping of the product during pauses in dispensing.

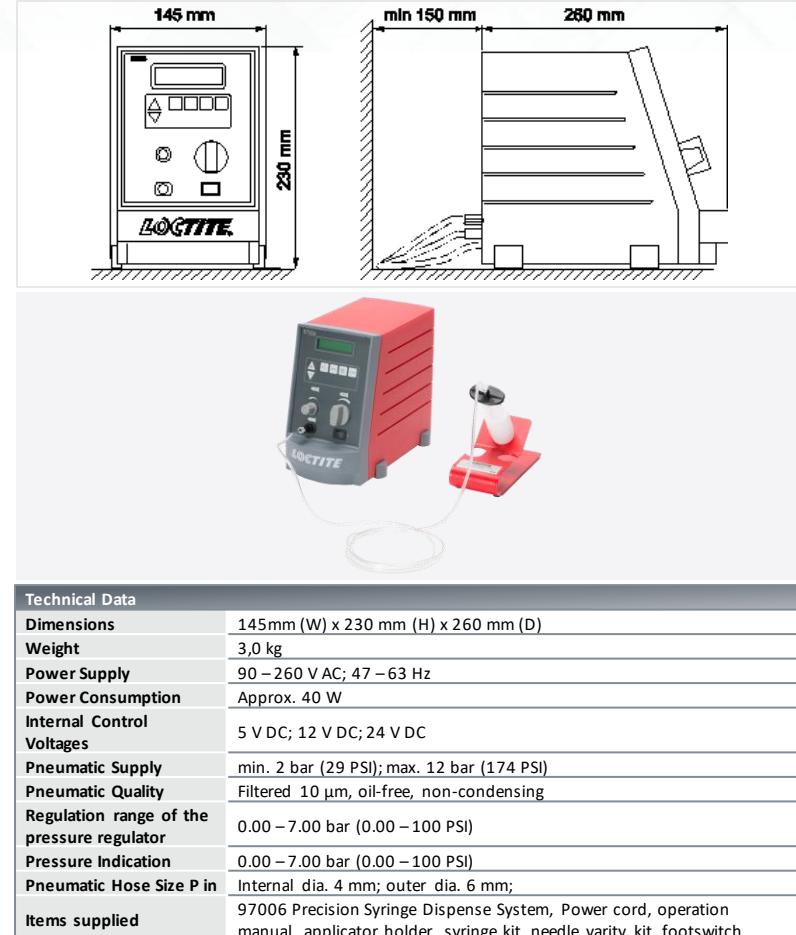
Benefits

Digital Precision regulator for accurate flow control

- Vacuum suck back to ensure no drips or run-on
- Useful for all kinds of applications: drops, beads, potting



► Needle Selector



LOCTITE 97009 Integrated Semi-Automatic Dispensing System HP

Application Field

LOCTITE 97009 Integrated Semi-Automatic Dispensing System enables adhesive to be dispensed directly from larger bottles. Anaerobic, cyanoacrylate and light cure adhesives in 250ml and 500g bottles.

Operation

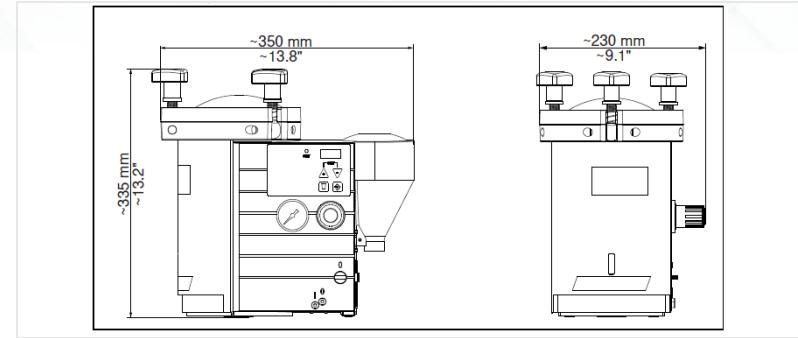
The LOCTITE 97009 Integrated Dispense System is connected to an external electrical and pneumatic supply. It regulates the adjusted dispensing pressure and controls the dispensing during the selected dispensing time. An uncovered bottle of LOCTITE product is placed directly into the integrated reservoir, and the reservoir lid is damped in place. It is then pressurized using clean, filtered dry air. Air within the reservoir will push down on the liquid in the bottle and force it through the product feedline to the dispensing valve. The amount of product dispensed is controlled by the three main factors: Amount of pressure in the reservoir, length of time the dispensing valve remains open and dispensing needle size. The controller provides digital timing control for any LOCTITE automatic dispense valve or automatic hand-held applicator. It is equipped with precision pressure regulator, with a range of 0.1 - 4 bar (2 - 60 psi) for the 97009 for reliable dispensing, eliminating air pressure fluctuations.

Benefits

- Integrated design (controller and reservoir) for simple set-up and space economy
- Timer-controlled solenoid valve for air-actuated applicator
- Level sensor to give empty warning
- Controller can be actuated by footswitch, finger switch or proximity switch
- Capable of operating in a continuous mode for bead dispensing applications



► Dispense Valve Selector



Technical Data	
Dimensions	W x H x D: 350 x 335 x 230 mm (13.8 x 13.2 x 9.1 inch)
Weight	7.5 kg
Power Supply	90 – 260 V AC; 47 – 63 Hz
Power Consumption	Approx. 25 W
Internal Control Voltage	24 V DC
Pneumatic Supply	Min. 5 bar (70 PSI), max. 10 bar (145 PSI)
Regulation Range of the Pressure Regulator	0-4 bar (0-60 PSI) - 97009
Items supplied	97009 Integrated Semi-Automatic system, Power cord, bottle nest, adhesive cups, pneumatic airline 6 mm, operation manual
Accessory	Footswitch IDH 88653

LOCTITE EQ RC18 Integrated Semi-Automatic Dispensing System LP

Application Field

LOCTITE EQ RC18 Integrated Semi-Automatic Dispensing System enables the adhesive to be dispensed directly from larger bottles. Anaerobic, cyanoacrylate and light cure adhesives in 250ml and 500g bottles.

Operation

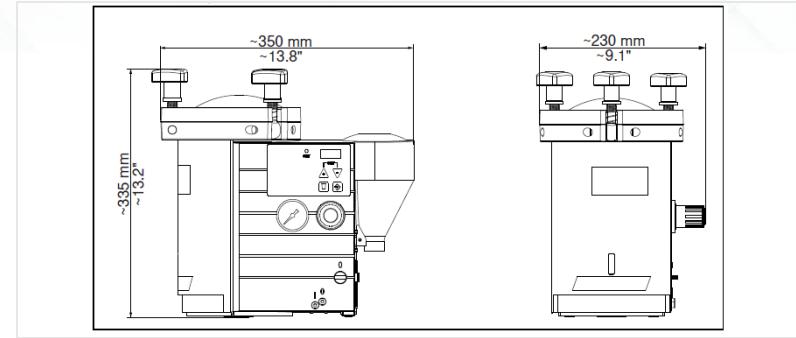
The LOCTITE EQ RC18 Integrated Dispense System is connected to an external electrical and pneumatic supply. It regulates the adjusted dispensing pressure and controls the dispensing during the selected dispensing time. An uncovered bottle of LOCTITE product is placed directly into the integrated reservoir, and the reservoir lid is damped in place. It is then pressurized using clean, filtered dry air. Air within the reservoir will push down on the liquid in the bottle and force it through the product feedline to the dispensing valve. The amount of product dispensed is controlled by the three main factors: Amount of pressure in the reservoir, length of time the dispensing valve remains open and dispensing needle size. The controller provides digital timing control for any LOCTITE automatic dispense valve or automatic hand-held applicator. It is equipped with precision pressure regulator, with a range of 0 – 0.7 bar (0 – 10 psi) for reliable dispensing, eliminating air pressure fluctuations.

Benefits

- Integrated design (controller and reservoir) for simple set-up and space economy
- Timer-controlled solenoid valve for air-actuated applicator
- Level sensor to give empty warning
- Controller can be actuated by footswitch, finger switch or proximity switch
- Capable of operating in a continuous mode for bead dispensing applications



► Dispense Valve Selector



Technical Data	
Dimensions	W x H x D: 350 x 335 x 230 mm (13.8 x 13.2 x 9.1 inch)
Weight	7.5 kg
Power Supply	90 – 260 V AC; 47 – 63 Hz
Power Consumption	Approx. 25 W
Internal Control Voltage	24 V DC
Pneumatic Supply	Min. 5 bar (70 PSI), max. 10 bar (145 PSI)
Regulation Range of the Pressure Regulator	0-0.7 bar (0-10 psi) – EQ RC18
Items supplied	EQ RC18 Integrated Semi-Automatic system, Power cord, bottle nest, adhesive cups, pneumatic airline 6 mm, operation manual
Accessory	Footswitch IDH 88653

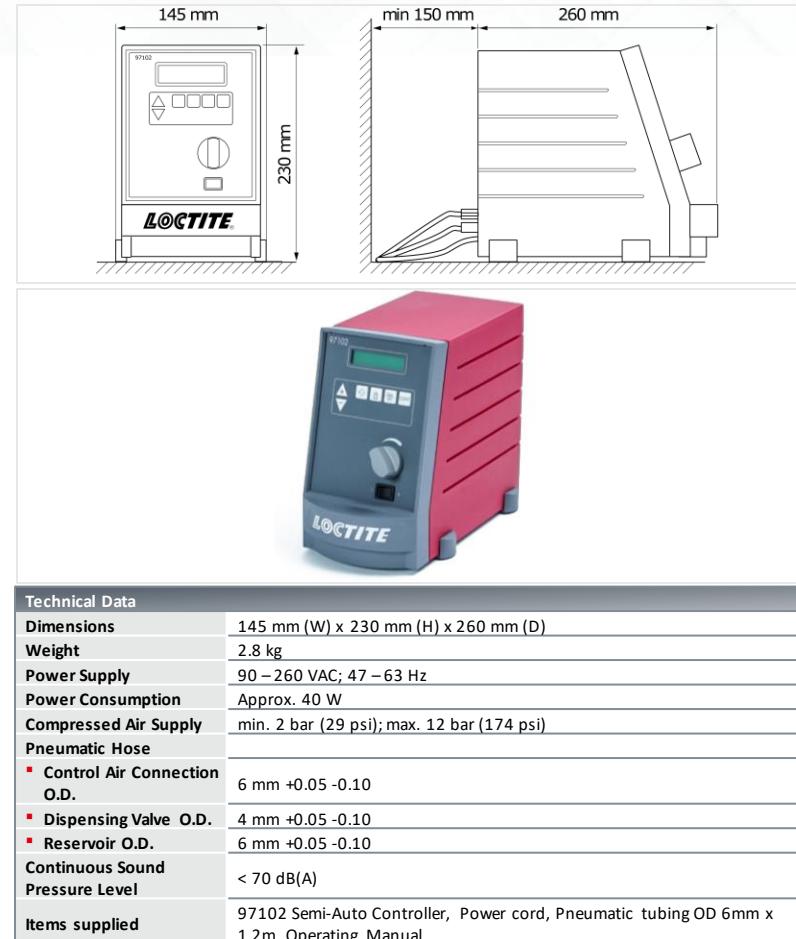
LOCTITE 97102 Semi-Automatic Controller

Application Field

The Semi-Automatic Controller 97102 controls the exact application of LOCTITE Products from a product reservoir by means of a dispensing valve.

Operation

The LOCTITE 9712 semi-automatic controller has been designed for precision dispensing. The digital pressure display and digital time ranging from 0.04 to 99.9 seconds allows the operator to make pin-point accurate deposits when applying a wide range of fluids from low to high viscosity. This controller can be interfaced with various LOCTITE reservoirs and valves to make a complete dispensing system. The semi-automatic controller controls the selected dispensing pressure in the reservoir and the pneumatic operation of the dispense valve according to the selected dispensing time. The start signal for dispensing is provided by an external footswitch or fingerswitch. Error messages are shown on a digital display and are accompanied by an audible alarm.



LOCTITE 97152 Dual Channel Controller

Application Field

The LOCTITE Dual-Channel Controller 97152 is a versatile multi-functional controller for actuating 1 – 2 dispensing valves as well as appropriate peripheral equipment such as reservoir, advancing slide, rotorspray, on-line flow monitor etc.!

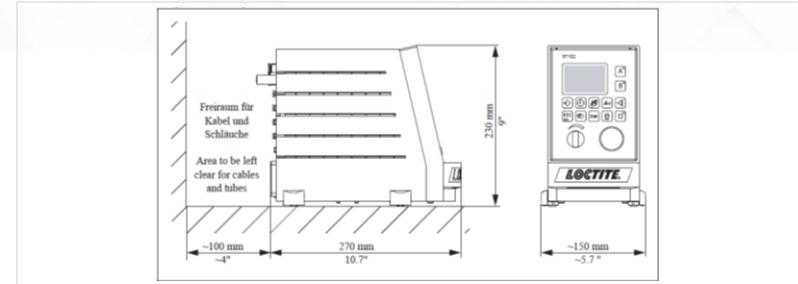
Operation

The LOCTITE Dual Channel Controller 97152 utilizes the latest microprocessor technology to create a user-friendly control system for workstations in manufacturing environments. The controller is made up of a micro-controller core, a user interface keypad and graphic LCD display. A solenoid valve module and a precision pressure regulator are integrated into the unit; an external solenoid valve module may be connected as an additional option.

Multiple interfaces allow easy connection to peripheral devices (valves, reservoirs, dispense and flow monitors or PLC). The keypad allows the user to easily change dispense time, pressure, and mode of operation settings. All adjustments and the system status overview are displayed on the screen. Up to 4 different dispense applications with different dispense parameters can be set and stored. These applications, as stored for a maximum of 4 different parts, can be actuated via the keyboard or through the primary controller.

Benefits

- Convenient setup and programming of even complex dispense stations.
- Automatic sequencing of advance slide, rotorspray and dispense valve.
- Maximum process quality by control of time, pressure and optionally flow.
- PIN-locking option for setup parameters.
- Full integration capability into highly automated production systems.



Technical Data	
Dimensions	150 (W) x 230 (H) x 270 (D) mm
Weight	3.0 kg
Power Supply	100-240 VAC; 50/60 Hz
Power Consumption	approx. 60 W
Internal Control Voltages	5 VDC; 24 VDC
Pneumatic Supply	min. 2 bar; max. 10 bar
Quality	filtered 10 µm, oil-free, non-condensing
Adjustment Range of the pressure Regulator	0.1 – 7.00 bar
Pressure Indication	0.1 – 7.00 bar
Pneumatic Hose Size, P in	ID Ø 4 mm ; OD Ø 6 mm
Pneumatic Hose Size, to connect reservoir	ID Ø 4 mm; OD Ø 6 mm
Items supplied	97152 Dual Channel Controller, Power cord, airline 6 mm, operation manual

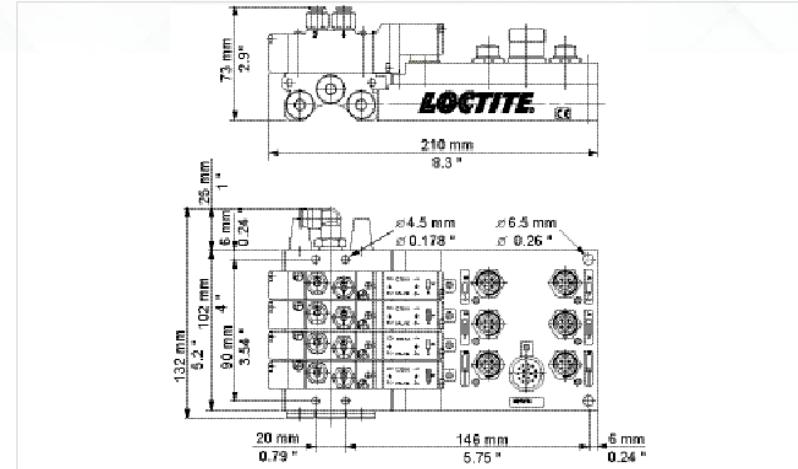
LOCTITE 97204 Solenoid Valve Module

Operation

Electromagnetic valves are combined into a valve array with common air supply, eliminating complex pneumatic lines and making installation of the unit much easier. The four-channel LOCTITE 97204 solenoid valve module brings pneumatic energy close to the dispensing valves and provides electrical connections for 2 Rotorsprays and 2 advancing slides including limit switches.

Benefits

- 4 independent 5/2-way solenoid valves
- 2 electrical outputs for rotorsprays
- 4 electrical inputs for limit switches
- 1 central multipole connector to a utomatic controller 97152



Technical Data	
Dimensions	132 mm (W) x 73 mm (H) x 210 mm (D)
Weight	2.5 kg
Air Input	2 – 8 bar, filtered to maximum of 10 µm
Items supplied	97204 Solenoid valve module

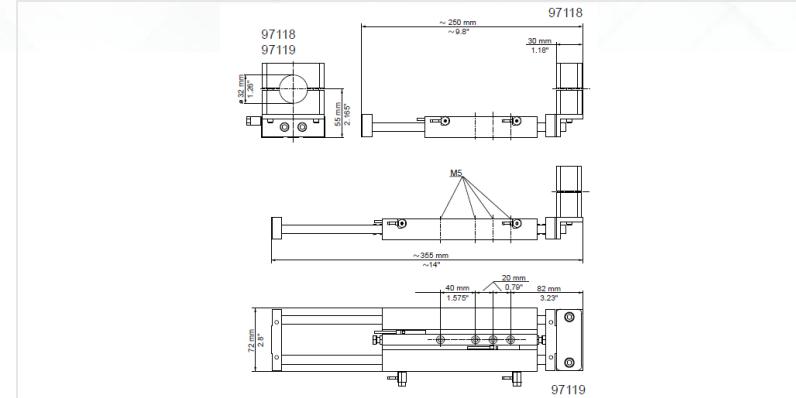
LOCTITE 97118 Advancing Slide 50 mm

Application Field

With the LOCTITE 97118 Advancing Slide, a dispensing valve or a rotorspray with dispensing valve can be moved exactly and vibration-free to a defined dispensing position and returned to its initial position.

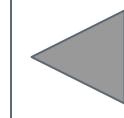
Benefits

- Allows simple and precise positioning of valves and rotorsprays
- Airflow controls to adjust advance and retract speed
- Easy installation with Automatic Controllers 97152
- Reed switch with 4-pin M12 circular connectors for sensing the two end positions



Technical Data

Weight 50mm / 100mm	1.3 kg / 1.5 kg
Rated Voltage, proximity switch	24 VDC/AC
Pneumatic Supply, Cylinder	Max. 10 bar (145 PSI)
Items supplied	Advancing slide, Connection kit, Operating Manual



LOCTITE 97115 Rotospray

Application Field

LOCTITE 97115 Rotospray is used to apply LOCTITE products to the interior cylindrical surfaces of work pieces. The Rotospray is designed for anaerobic adhesives.

Operation

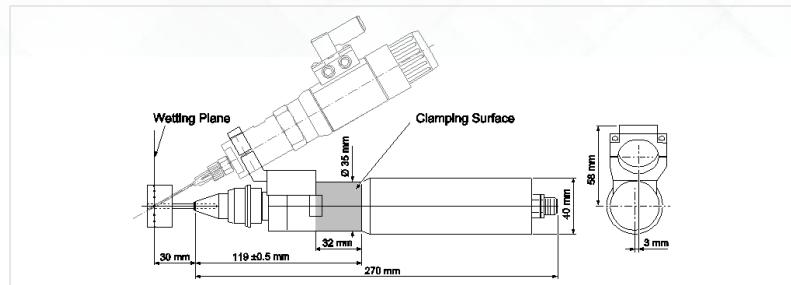
The Rotospray 97115 is used in conjunction with a dispense valve to apply Loctite anaerobic adhesives. The dispensing valve is clamped in the holder of the Rotospray so that the tip of the flexible dispensing needle is directed to the inside of the wetting holes on the rotor disk. The LOCTITE Controller 97152 must control: Switching on/off of the Rotospray and the preselected dispensing time after the rated rotor speed is reached.

As long as the dispensing valve is open, the product is dispensed through the wetting holes by centrifugal force and uniformly distributed onto the cylindrical inner surface of the part. In conjunction with an advancing slide, reaching the end of the advancing movement triggers the dispensing. The head of the Rotospray has a longitudinal play of 5 mm. Within this distance, unintentional contact with an obstacle can be compensated without the rotor disk or the drive assembly and its shaft being damaged.

Benefits

Accurate, controlled spray pattern

- High speed rotation for large and small rotor disks
- Fail to spin alarm



Technical Data

Weight	0.530 kg
Standard Rotational speed	8,000 rpm
Adjustable Speed Range	3,500 – 8,000 rpm in steps of 500 rpm
Power Consumption	Constant current ~0.2 A, Starting-up current up to 2 A W
Adjustable starting-up current	2 A
Rated monitored time to reach speed	0.5 sec
Adjustable monitored time to reach speed	No limit
Rated voltage Safety extra low	24 V DC
Items supplied	97115 Rotospray, Rotor disk 10 mm & 25 mm, rotor cord, operation manual, different mounting clamps for all valves/pumps

LOCTITE EQ 97211 On-Line Preamplifier

Application Field

The 97211 is designed specifically for applications requiring high accuracy in dispensing Loctite adhesives. It is an ideal tool for quality assurance.

Operation

The integrated flow monitor of the LOCTITE controller 97152 in connection with the 97211 online Preamplifier measures the dispense pressure characteristic by means of a pressure sensor and stores this parameter. The pressure sensor is integrated in the dispensing valve. The measuring time corresponds with the dispense time sequence. The controller compares the measured pressure characteristic with a previously stored reference characteristic, based on four different criteria: Dispensing time, integral of pressure characteristic (corresponds with quantity of product dispensed), length of envelope curve for pressure characteristic and center of gravity. If the measured values are within the pre-set tolerance zone in comparison to the reference value, this dispensing cycle is recognized as OK and the ready signal will be available. If the deviation is outside the tolerance zone, this dispensing cycle is detected as an error, and a fault is signaled. This message is indicated on the display at the controller. It is also provided as a signal at the PLC interface of the LOCTITE controllers.

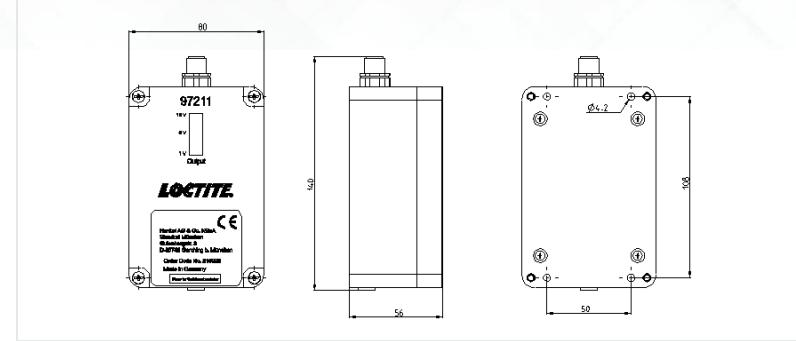
Benefits

Adjustable amplifying factor with LED signal strength indication

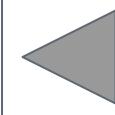
- Power supply to pressure-based sensor
- Single channel



► Flow Sensing Valve



Technical Data	
Dimensions	80 mm (W) x 57 mm (H) x 141 mm (D)
Weight	0.24 kg
Power Input	24 VDC
Signal Output	1 – 10 VDC
Protection Grade	IP 65
Max Length of the cable between Pressure Sensor and Preamplifier	5m
Max Length of the cable between Preamplifier and Controller	10m
Items supplied	97211 Preamplifier Connection cord to Controller Operating Manual



Pressure-Time Dispense Valve Selector Chart - 1K

	IDH 88650 97121	IDH 88643 97112	IDH 444643 97130	IDH 218280 98009	IDH 318654 98013	IDH 215846 97135	IDH 215848 97136	IDH 88644 97113	IDH 88645 97114	IDH 1153502	IDH 315994 97664	IDH 529491 97676	IDH 1147046 97138
Wetted parts	PTFE	POM, PTFE	PTFE	POM, PE- UHMW	POM, PE- UHMW	PTFE	PTFE	POM, PTFE	POM, PTFE	Stainless Steel	POM	POM, PE- UHMW	
Viscosity mPas	Low to medium	Medium to high	Low to medium	Low	Low	Low	Medium	Medium to high	Medium to high	High	High	High	Low
Flow rate	Medium	High	Medium	Low	Low	Medium	Medium	Medium	High	High	High	High	Low
Recommended products	CA, UV, AN	UV, AN	CA, AN	Activators, AN, Primers, UV	Activators, CA, Primers	AN, UV	AN, UV	AN, CA, Epoxy, UV	AN, CA, Epoxy, UV	SI/MSP's	SI/MSP's	AN	Activators, AN, CA, Primers, UV
Suck-back feature	No	Yes	No	No	No	No	No	Yes	Yes	Yes	No	No	No
Stroke adjustments	No	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes	No	No	Yes

CA: Cyanoacrylates; **UV:** UV and light curable products; **AN:** Anaerobics/Acrylics; ***POM:** Polyoxymethylene (Polyacetals);
PTFE: Polytetrafluoroethylene; **PE-UHMW:** Ultra high molecular weight polyethylene

Low viscosity up to 1.500 mPas / Mid viscosity from 1.501 - 10.000 mPas / High viscosity from 10.000 mPas onwards...

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LOCTITE 97130 ErgoLoc Valve

Application Field

The LV Hand-Held Applicator 97130 is suitable for dispensing LOCTITE products in a manual or semi-automatic process. It can be used especially for CA and other low-pressure applications up to 2 bar (30 PSI). It is suited to Anaerobic, cyanoacrylate and light cure adhesives with viscosities under 10,000 mPas.

Operation

The LV Hand-Held Applicator is a normally closed, fail-safe dispensing valve with adjustable opening. The LOCTITE product is transported through a product feedline to the LV Hand-Held Applicator driven by the dispensing pressure in the product reservoir. The opening of the valve takes place by pressurizing an internal single acting cylinder. The rod pulls open and permits the fluid to flow through the product chamber. Closing of the valve is achieved by removing the air supply and spring force. On closing a piston at the end of the valve seals against a valve seat preventing any leakage of adhesive.

Within the shut off valve assembly, PTFE material is used for the area in contact with the adhesive to prevent curing of adhesive in this part of the valve.

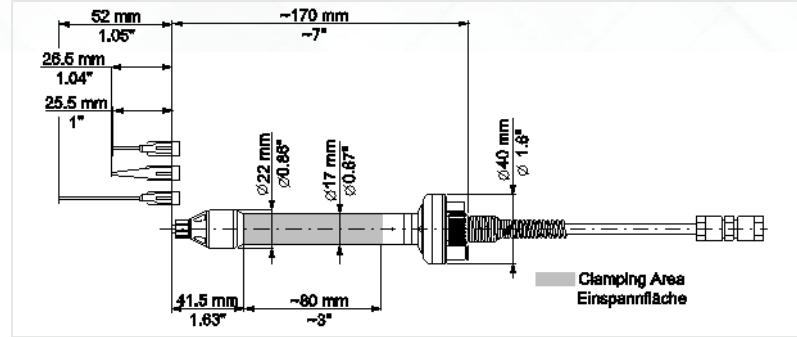
The opening of the LV Hand-Held Applicator 97130 is pneumatically controlled. The start is initiated by footswitch or finger switch. The amount of product dispensed is controlled by: The amount of pressure in the reservoir, the length of time the shut off valve remains open, the stroke of the shutoff piston in the actuator assembly and the dispensing needle.

Benefits

- Forward closing avoids air entrapment and potential premature curing of cyanoacrylates
- Dispenses repeatable drop sizes down to 0.005 g
- Stroke adjustment for fine-tuning dispense characteristics
- Slim ergonomic design greatly reduces hand fatigue



► Needle Selector



Technical Data

Dimensions	170mm (L) x 40mm (D)
Weight	0.140 kg
Fluid Pressure	4-30 psi (.25-2 bar)
Pneumatic Supply	Minimum – 60 psi (4.8 bar) Maximum – 100 psi (7 bar)
Items supplied	97130 Ergoloc valve, Needle variety kit, 2m PTFE lined OD 1/4" Feedline, 2m Pneumatic tubing, Operating Manual
Accessory	Footswitch IDH 88653, Fingerswitch IDH 531803

LOCTITE EQ 97121 Pinch Valve Applicator

Application Field

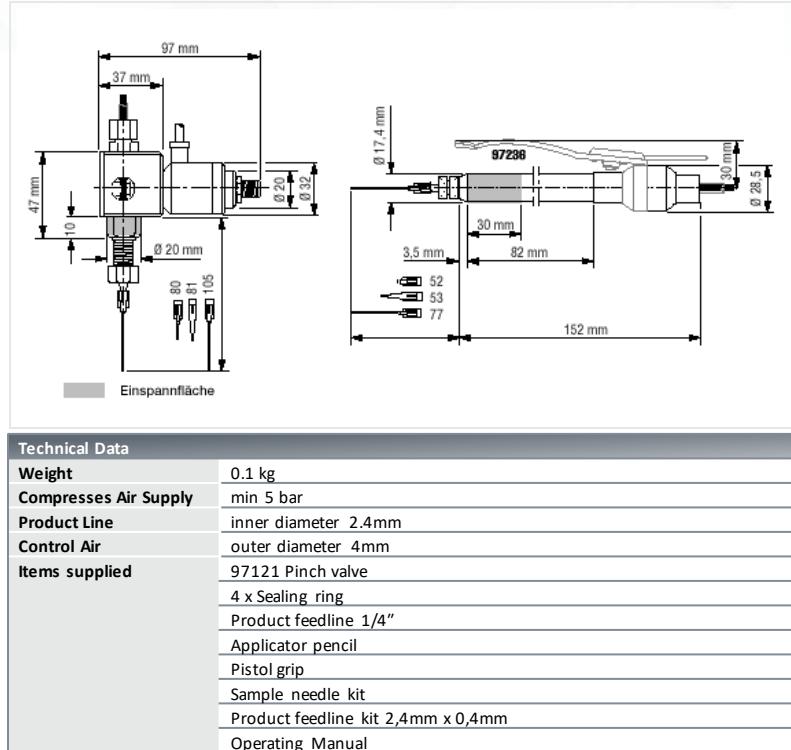
The LOCTITE 97121 Pinch valve is used for the exact metering of low-viscosity cyanoacrylate adhesives up to a viscosity of approx. 500 mPas.!

Operation

The LOCTITE 97121 Pinch Valve is used for the exact metering of low-viscosity adhesives up to a viscosity of approx. 500 mPas. With the supplied larger product hose (diameter 2.7 mm), products with a viscosity of up to approx. 5000 mPas can be dosed. The Pinch valve is opened pneumatically. The dosing start is triggered by a foot switch or an electric fingerswitch. Sealing in the rest position is achieved by squeezing the product line by a pneumatic piston. By limiting the opening stroke of the valve, very small delivery quantities can be achieved.

Benefits

- Ergonomic design provides comfortable handling
- Adhesive only contacts feedline therefore only feedline needs replacement



▶ Needle Selector

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LOCTITE EQ 97112 Hand-held Applicator

Application Field

The LOCTITE 97112 Hand-held Applicator is for timed dispensing of single component adhesives.

Operation

The LOCTITE 97112 hand-held applicator is actuated using a foot switch (not included). It is ergonomically designed for comfort, application control, and a low actuation force to reduce hand fatigue. It also incorporates a suckback feature which prevents dripping or stringing. A 2 metre, black 1/4 inch feedline delivers the products up to 15,000 mPas viscosity thru this valve. An optional feedline upgrade kit (item # 97220) will allow dispensing of adhesives up to 80,000 mPas!

Benefits

- Ergonomic design provides comfortable handling
- Suck-back feature to prevent post-dispense dripping



► Needle Selector



Technical Data

Weight	0.140 kg
Pneumatic Supply	Min 4 bar (60 psi), max 7 bar (105 psi)
Pneumatic Quality	Filtered 10µm, oil free, non condensing
Product Feedline	6.3 mm (1/4 in.)
Items supplied	97112 Hand-held applicator Applicator holder Sample needle kit Operation Manual

LOCTITE[®]

LOCTITE 97135 / 97136 Diaphragm Dispense Valve

Application Field

LOCTITE 97135 / 97136 Diaphragm Dispense Valve is a pneumatically activated dispense valve which is designed to be either mounted or hand-held in conjunction with pressure-time dispense systems. The Diaphragm Valve is suitable for the exact application of LOCTITE products. It is designed for anaerobic adhesives up to viscosities of 2.500 mPas for the 97135 and higher viscosities for the 97136.

Operation

The LOCTITE product is transported through a product feedline to the Diaphragm valve by the dispensing pressure in the product reservoir.

At the shut off valve assembly, PTFE material is used for the area in contact with the adhesive to prevent curing of adhesive in this part of the Diaphragm valve. The opening of the diaphragm valve takes place by pressuring an internal single acting cylinder. In the inactive position, the diaphragm valve is closed by spring force. A piston pushing against a diaphragm, which seals off the product bore in the valve, achieves sealing in idle position. The floating mounted diaphragm enables easy repair and service.

The amount of product dispensed is controlled by amount of pressure in the reservoir, length of time the shut off valve remains open and dispensing needle size.

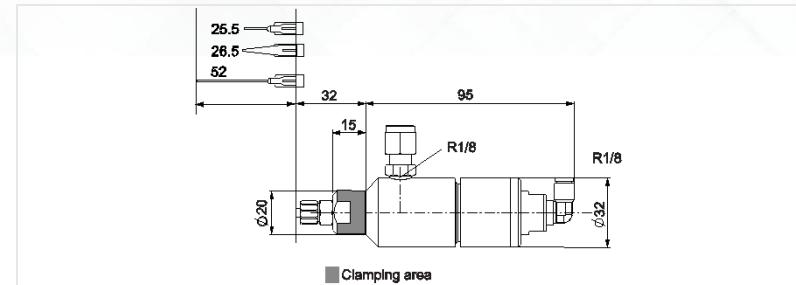
The diaphragm valve is not suitable for moisture sensitive product like Cyanoacrylate.

Benefits

- Fail-safe spring assists closing of valve upon loss of air pressure
- Internal components are PTFE to prevent premature curing
- Modular design and floating diaphragm allow for easy cleaning



► Needle Selector



Technical Data	
Weight	Filtered 10 µm, oil-free, non-condensing
Pneumatic supply	Min. 5 bar (73 PSI), max. 7 bar (100 PSI)
Pneumatic Hose Size	External Dia.: 4 mm, Internal Dia.: 2.5 mm
Product Feedline	Standard: 1/4 inch 97135
	Standard: 3/8 inch 97136
	Optional: Feedline Upgrade Kit 3/8 inch
Dispensing Pressure Range of the Valve	0.5 bar (7 PSI) - 4 bar (60 PSI)
Items supplied	Diaphragm Dispense valve, Needle set, airline 4 mm, operation manual, feedlines

LOCTITE 97113 / 97114 Stationary Dispensing Valve

Application Field

LOCTITE 97113 / 97114 Stationary Dispense Valves are designed for pressure-time applications with anaerobic and light cure adhesives up to viscosities of 15,000 mPas for the 97113 or higher viscosities for the 97114.

Operation

The LOCTITE Stationary Applicator Valve is a slim, lightweight, patented seal-less dispense valve designed for pressure-time applications. This valve is modular in design and consists of a product shut-off valve and valve actuator, providing quick on-line serviceability.

This valve has an adjustable suck-back feature to eliminate stringing and dripping. It has a double-acting cylinder that allows for adjustable opening and closing times for increased dispensing control. This valve must be used in conjunction with a controller and product reservoir.

Benefits

- Slim, lightweight, seal-less
- Adjustable suck-back feature eliminates stringing and dripping
- Can be used in stationary mounted, robotic, or hand-held applications



► Needle Selector



Technical Data

Dimensions	163,0 mm (L) x 44,5 (Dia.) mm
Weight	0.34 kg (0.75 lbs)
Air Input (minimum)	4 bar (60 psi)
Product Pressure	7bar (100 psi)
Feedline Inlet	1/4" 97113 3/8" 97114
Items supplied	Stationary Dispensing valve, Needle set, 2 x airline 4 mm, operation manual, feedline 1/4" or 3/8", kink protection spring

LOCTITE[®]

LOCTITE 98009 Light Cure Dispensing Valve

Application Field

LOCTITE 98009 Light Cure Dispensing Valve is a normally-closed diaphragm valve that provides high-resolution stroke adjustment and results in consistent flow control. Light Cure Adhesives, anaerobic retaining compounds and threadlockers in a broad range of viscosities from low to medium viscosity can be dispensed with the LOCTITE 98009 valve.

Operation

The LOCTITE Light Cure Dispensing Valve is opened via a single-acting cylinder. In rest position the dosing valve is closed. The sealing in the rest position is effected by pressure of the piston via a spring on the diaphragm. The diaphragm seals the product bore in the valve.

An inlet pressure of 4 to 6 bar moves the diaphragm seal, which is connected to a piston rod, over a preset path length so that product can flow into the diaphragm chamber.

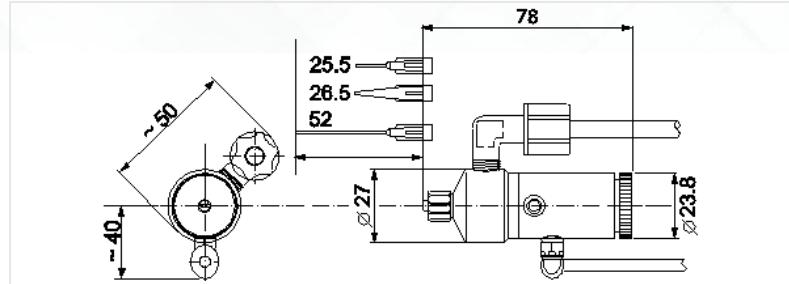
The product quantity is determined by the following factors: Opening time of the dosing valve, dosing pressure in the product tank, size of the dosing tip, stroke of the diaphragm dosing piston (max. 0.6 mm) and viscosity of the product to be processed.

Benefits

- Bubble-free, no-drip dispensing
- Precision adjustment of stroke to control flow
- Can be used in stationary mounted, robotic, or hand-held applications



► Needle Selector



Technical Data	
Dimensions	78.5 mm (L) x 26.9 mm (D)
Weight	0.3 kg
Compressed Air Supply	Minimum 5 bar (73 PSI), maximum 7 bar (100 PSI)
Pneumatic Quality	Filtered 10 µm, oil-free, non condensing
Hose Size, Pilot Air Connection	Outer Diameter 4mm, Inner Diameter 2,5
Product Hose	Standard 1/4"
Dosing Pressure Range of Valve	0,5 bar – 4 bar
Items supplied	98009 Light Cure dispensing valve, Needle set, airline 4 mm, operation manual, 1/4" feedline, fixing screw

LOCTITE 98013 Cyanoacrylate Dispensing Valve

Application Field

LOCTITE 98013 Cyanoacrylate Dispensing Valve is a normally-closed diaphragm valve that provides high-resolution stroke adjustment and results in consistent flow control. It is designed for instant adhesives, retaining compounds and threadlockers in a broad range of viscosities from low to medium viscosity.

Operation

The LOCTITE Cyanoacrylate Dispensing Valve is opened via a single-acting cylinder. In rest position the dosing valve is closed. The sealing in the rest position is effected by pressure of the piston via a spring on the diaphragm. The diaphragm seals the product bore in the valve.

An inlet pressure of 4 to 6 bar moves the diaphragm seal, which is connected to a piston rod, over a preset path length so that product can flow into the diaphragm chamber.

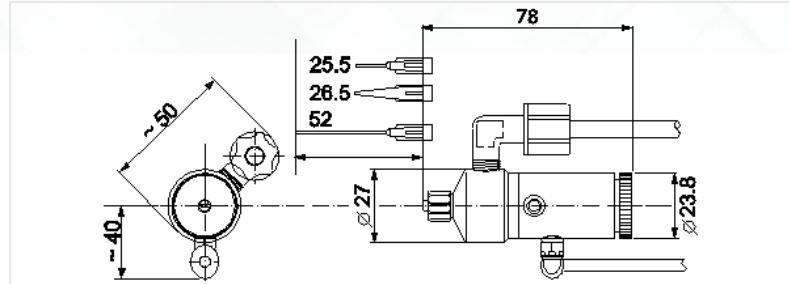
The product quantity is determined by the following factors: Opening time of the dosing valve, dosing pressure in the product tank, size of the dosing tip, stroke of the diaphragm dosing piston (max. 0.6 mm) and viscosity of the product to be processed.

Benefits

- Bubble-free, no-drip dispensing
- Precision adjustment of stroke to control flow
- Can be used in stationary mounted, robotic, or hand-held applications

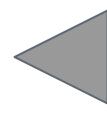


► Needle Selector



Technical Data	
Dimensions	78.5 mm (L) x 26.9 mm (D)
Weight	0.3 kg
Compressed Air Supply	Minimum 5 bar (73 PSI), maximum 7 bar (100 PSI)
Pneumatic Quality	Filtered 10 µm, oil-free, non condensing
Hose Size, Pilot Air Connection	Outer Diameter 4mm, Inner Diameter 2,5
Product Hose	Standard 1/4"
Dosing Pressure Range of Valve	0,5 bar – 4 bar
Items supplied	98013 Cyanoacrylate Dispensing valve, Needle set, airline 4 mm, operation manual, 1/4" feedline, fixing screw

LOCTITE 97138 Flow Sensing Dispensing Valve 3.5 Bar



Application Field

LOCTITE 97138 Flow Sensing Dispensing Valve is a normally-dosed diaphragm valve that provides high-resolution stroke adjustment and results in consistent flow control. It includes a Pressure Transducer that is used to measure the pressure of the adhesive flow which is an indication of the flow of the adhesive. Light Cure Adhesives, retaining compounds and threadlockers in a broad range of viscosities from low to medium viscosity can be dispensed with this valve.

Operation

The LOCTITE Dispensing Valve is opened via a single-acting cylinder. In rest position the dosing valve is dosed. The sealing in the rest position is effected by pressure of the piston via a spring on the diaphragm. The diaphragm seals the product bore in the valve. An inlet pressure of 4 to 6 bar moves the diaphragm seal, which is connected to a piston rod, over a preset path length so that product can flow into the diaphragm chamber. The product quantity is determined by the following factors: Opening time of the dosing valve, dosing pressure in the product tank, size of the dosing tip, stroke of the diaphragm dosing piston (max. 0.6 mm) and viscosity of the product to be processed. The dispensing valve 97138 can only be used in conjunction with the preamplifier 97211 and the control units 97152.

Benefits

- Online monitoring of adhesive flow to confirm process quality bubble-free, no-drip dispensing
- Precision adjustment of stroke to control flow
- Can be used in stationary mounted, robotic, or hand-held applications



► Needle Selector



Technical Data	
Dimensions	78,5 mm (L) x 26,9 mm (D)
Weight	0.3 kg
Compressed Air Supply	Minimum 5 bar (73 PSI), maximum 7 bar (100 PSI)
Pneumatic Quality	Filtered 10 µm, oil-free, non condensing
Hose Size, Pilot Air Connection	Outer Diameter 4mm, Inner Diameter 2,5
Product Hose	Standard 1/4"
Dosing Pressure Range of Valve	0,5 bar – 4 bar
Items supplied	97138 Flow Sensing Valve (including 3.5 bar Pressure sensor and cable), Needle set, airline 4 mm, operation manual, 1/4" feedline, fixing screw

LOCTITE

LOCTITE 97664 Shut-Off Valve for Silicones

Application Field

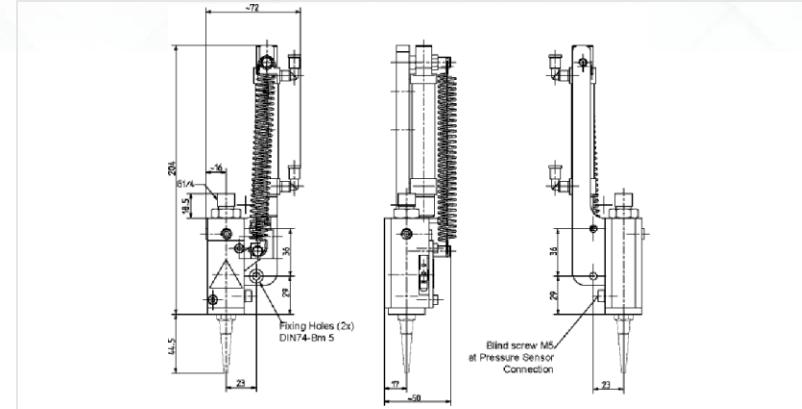
The 97664 Shut-Off Valve is designed for dispensing LOCTITE silicones.

Operation

The LOCTITE 97664 Shut-off Valve for Silicones is used in combination with an Eccentric Rotor Pump for dispensing silicones. It opens and shuts by a double acting cylinder. Additionally if the air supply is switched off it doses by spring force. This prevents the running out of the adhesive. The valve is mounted directly at the rotor pump. Different dispensing nozzles are available according to the application. A pressure sensor for monitoring the dispensing can be mounted directly to the Shut-Off valve.



► Needle Selector



Technical Data

Weight	0.6 kg
Pneumatic Supply	min. 5 bar (73 PSI) – max. 10 bar (145 PSI)
Pneumatic Tube Size	External Dia. 4 mm, internal Dia. 2.5 mm
Connection Thread Feedline/Pump	G 1/4"
Max. Product Pressure	40 bar (580 psi)
Quality of Air Pressure	Filtered oil-free or filtered oiled
Items supplied	97664 Shut-Off valve (Needle must be ordered separately)

LOCTITE
®

LOCTITE 97676 Shut-Off Valve for Anaerobics

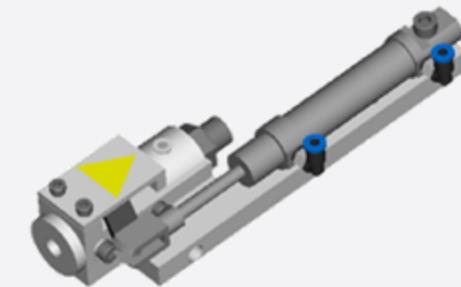
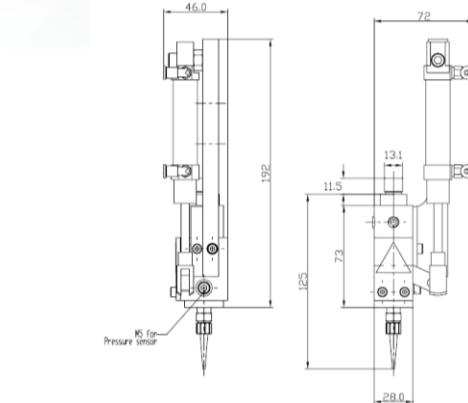


Application Field

The 97676 Shut-Off Valve is designed for dispensing LOCTITE anaerobic adhesives.

Operation

The LOCTITE 97676 Shut-off Valve for Anaerobics is used in combination with an Eccentric Rotor Pump for dispensing Anaerobic adhesives. It opens and shuts by a double acting cylinder. Additionally if the air supply is switched off it closes by spring force. This prevents the running out of the adhesive. The valve is mounted directly at the rotor pump. Different dispensing nozzles are available according to the application. A pressure sensor for monitoring the dispensing can be mounted directly to the Shut-Off valve.



Technical Data	
Weight	0.5 kg
Pneumatic Supply	min. 5 bar (73 PSI) – max. 10 bar (145 PSI)
Pneumatic Tube Size	External Dia. 4 mm, internal Dia. 2.5 mm
Connection Thread Feedline/Pump	G 1/4"
Max. Product Pressure	40 bar (580 psi)
Quality of Air Pressure	Filtered oil-free or filtered oiled
Items supplied	97676 Shut-Off valve (Needle must be ordered separately)



► Needle Selector

LOCTITE

LOCTITE High Pressure 150bar/3mm Dispense Valve

Application Field

The 1153502 High pressure 150bar/3mm Dispense Valve is designed for dispensing LOCTITE silicones at high pressure.

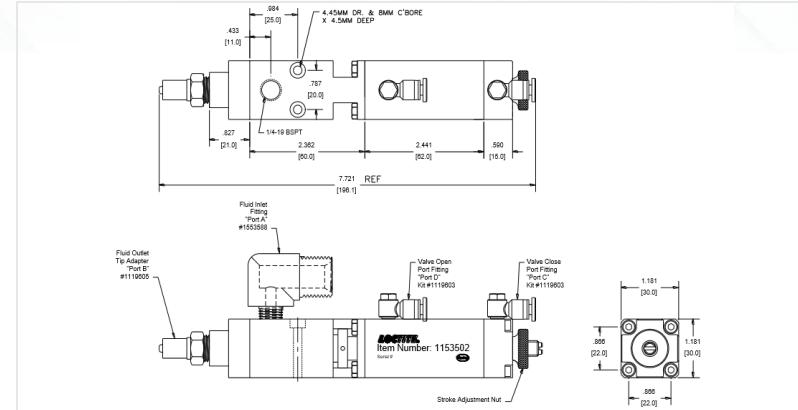
Operation

The LOCTITE High Pressure Dispense Valve is a double-acting dispense valve that is used to dispense high viscosity adhesives when pumped from pail and drum pump systems. This stainless steel dispense valve is compatible with silicones, MS polymers, and urethane products. It features suck-back capability and can operate at fluid pressures up to 2175 psi. (150 bar).

- Handles high viscosity adhesives approx. 500,000 to 2,000,000 mPs.
- Stainless steel valve ensures long term, durable dispensing performance.
- Bubble-free, no-drip dispensing with suck-back control.
- Lightweight and durable; can be mounted or comfortably hand held.
- High resolution stroke adjustment
- Double acting - air to open; air to close.
- Operates at fluid pressures up to 2175 psi. (150 bar).



▶ Needle Selector



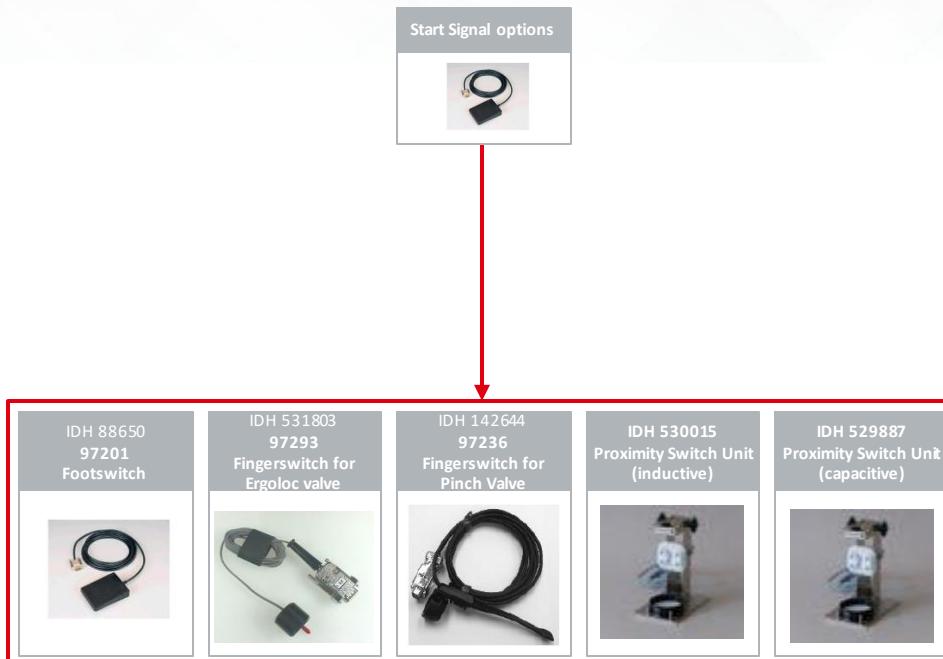
Technical Data

Weight	0.68 kg
Pneumatic Supply	min. 4 bar (55 PSI) – max. 6 bar (85 PSI)
Pneumatic Tube Size	External Dia. 4 mm, internal Dia. 2.5 mm
Max. Product Pressure	150 bar (2185 psi)
Quality of Air Pressure	Filtered oil-free or filtered oiled
Items supplied	150 bar dispense valve, Fluid inlet/outlet fittings, air input fitting, 2 metre airline (Needles must be ordered separately)

LOCTITE



Start Signal Options



LOCTITE®

LOCTITE Footswitch

Application Field

The LOCTITE Footswitch is designed for to initiate LOCTITE Dispense and Curing equipment.

Operation

The LOCTITE Footswitch is used in combination with LOCTITE Dispense and Curing equipment. It connects to the equipment via a standard Male 9 pin D connector.

It provides a start signal to each dispense/cure equipment and enables the operator to keep hands free for other assembly tasks.



Technical Data	
Weight	0.6 kg
Electrical connector	Standard male 9 pin D connector
Items supplied	97201 Footswitch

LOCTITE Fingerswitch for Ergoloc Valve

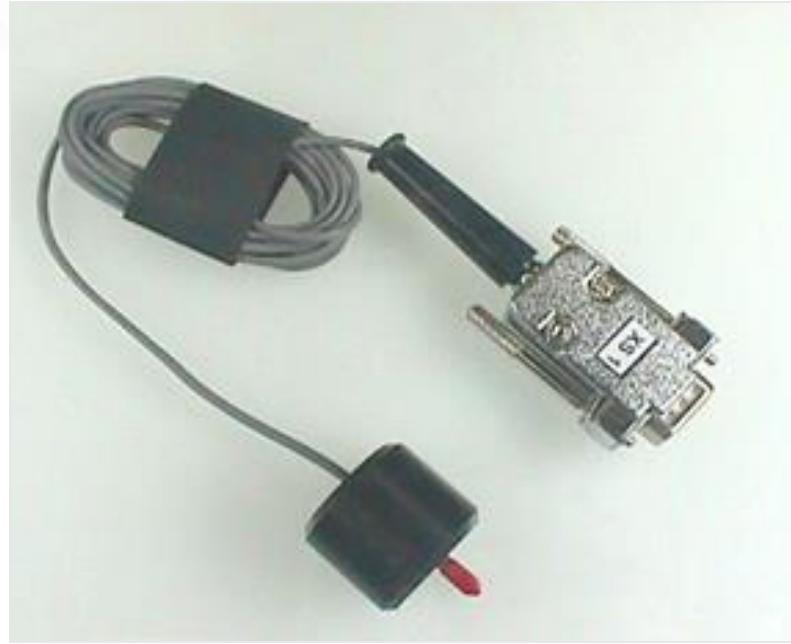
Application Field

The 97293 fingerswitch is designed to be used in conjunction with the LOCTITE Ergoloc Valve (IDH 444743).

Operation

An ergonomically designed fingerswitch connects directly to the Ergoloc Dispense Valve. This provides an ideal method for initiating a dispense cycle where trigger initiation is preferred.

The fingerswitch interfaces directly with standard Loctite control units by means of a 'D' plug connector.



Technical Data

Weight	0.06 kg
Electrical Connection	Standard male 9 pin D connector
Items supplied	97293 fingerswitch with integrated connector cable

LOCTITE Fingerswitch for Pinch Valve

Application Field

The 97236 fingerswitch is designed to be used in conjunction with the LOCTITE Pinch Valve (IDH 88650).

Operation

An ergonomically designed fingerswitch connects directly to a Pinch Valve Pencil Applicator. This provides an ideal method for initiating a dispense cycle where trigger initiation is preferred.

The fingerswitch interfaces directly with standard Loctite control units by means of a 'D' plug connector.



Technical Data	
Weight	0.14 kg
Electrical Connection	Standard male 9 pin D connector
Items supplied	97236 fingerswitch with integrated connector cable

LOCTITE Proximity Switch Stand (Inductive)

Application Field

The LOCTITE Proximity switch stand (inductive) is designed to initiate a dispense cycle when the sensor is contacted by metal parts. The sensor is located in a fixture arrangement to enable parts to be presented in a consistent position to enable adhesive to be applied in the same position.

Operation

The LOCTITE Proximity switch stand (inductive) is designed to be used in a semi automatic work environment where an operator presents a component into the 'vee' block, when the component is detected by the proximity switch the dispense cycle will be initiated. Adhesive will then be accurately applied from the dispense valve.



Technical Data

Weight	0.6 kg
Electrical connection	Standard male 9 pin D connector
Items supplied	Proximity stand and Inductive sensor (Valve must be ordered separately)



LOCTITE Proximity Switch Stand (Capacitive)

Application Field

The LOCTITE Proximity switch stand (Capacitive) is designed to initiate a dispense cycle when the sensor is contacted by non metallic parts. The sensor is located in a fixture arrangement to enable parts to be presented in a consistent position to enable adhesive to be applied in the same position.

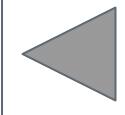
Operation

The LOCTITE Proximity switch stand (Capacitive) is designed to be used in a semi automatic work environment where an operator presents a component into the 'vee' block, when the component is detected by the proximity switch the dispense cycle will be initiated. Adhesive will then be accurately applied from the dispense valve.



Technical Data

Weight	0.6 kg
Electrical connection	Standard male 9 pin D connector
Items supplied	Proximity stand and Inductive sensor (Valve must be ordered separately)



Dispense Needles, Mixers and Accessories

Illustration / Example	Item No.	Order No.	Pack Size	Colour	Gauge	Inner Ø, mm		
Flexible Dispensing Tips: Dispensing Needle, Polypropylene (PPF), Helical Thread								
	97229	142640	50 pcs	Amber	15	1.37		
	97230	142641	50 pcs	Green	18	0.84		
	97231	142642	50 pcs	Pink	20	0.61		
	97232	142643	50 pcs	Red	25	0.25		
Tapered Dispensing Tips: Dispensing Needle, Polyethylene – Conical (PPC), Luer-Lock								
	97221	88660	50 pcs	Grey	16	1.19		
	97222	88661	50 pcs	Green	18	0.84		
	97223	88662	50 pcs	Pink	20	0.61		
	97224	88663	50 pcs	Blue	22	0.41		
High Precision Dispensing Tips: Dispensing Needle, Stainless Steel Standard (SSS), Luer-Lock								
	97225	88664	50 pcs	Amber	15	1.37		
	97226	88665	50 pcs	Green	18	0.84		
	97227	88666	50 pcs	Pink	20	0.61		
	97228	88667	50 pcs	Red	25	0.25		
Additional Dispensing Tips and Mixer Nozzles								
	Illustration	Item No.	Order No.	Pack Size	Description			
	98741	1146079	50 pcs	Dispensing needle, stainless steel – PTFE-lined (SSTL), 25 gauge				
	97262	218288	2 each	Needle selection pack: 2 each of a variety of dispensing needles				
	K1003100	88805	50 pcs	Formable dispensing tip, 21 gauge / 0.5 mm				
	97248	218275	50 pcs	Luer-Lock® tip caps				
	97233	88672	20 + 5 pcs	Luer-Lock® adapter kit: 20 Luer-Locks® and 5 adapters				
	97207	88656	40 pcs	10 ml clear syringe barrel kit				

IDH 88650

IDH 531803

IDH 142644

IDH 530015

IDH 529887

Disposal Dispensing Components

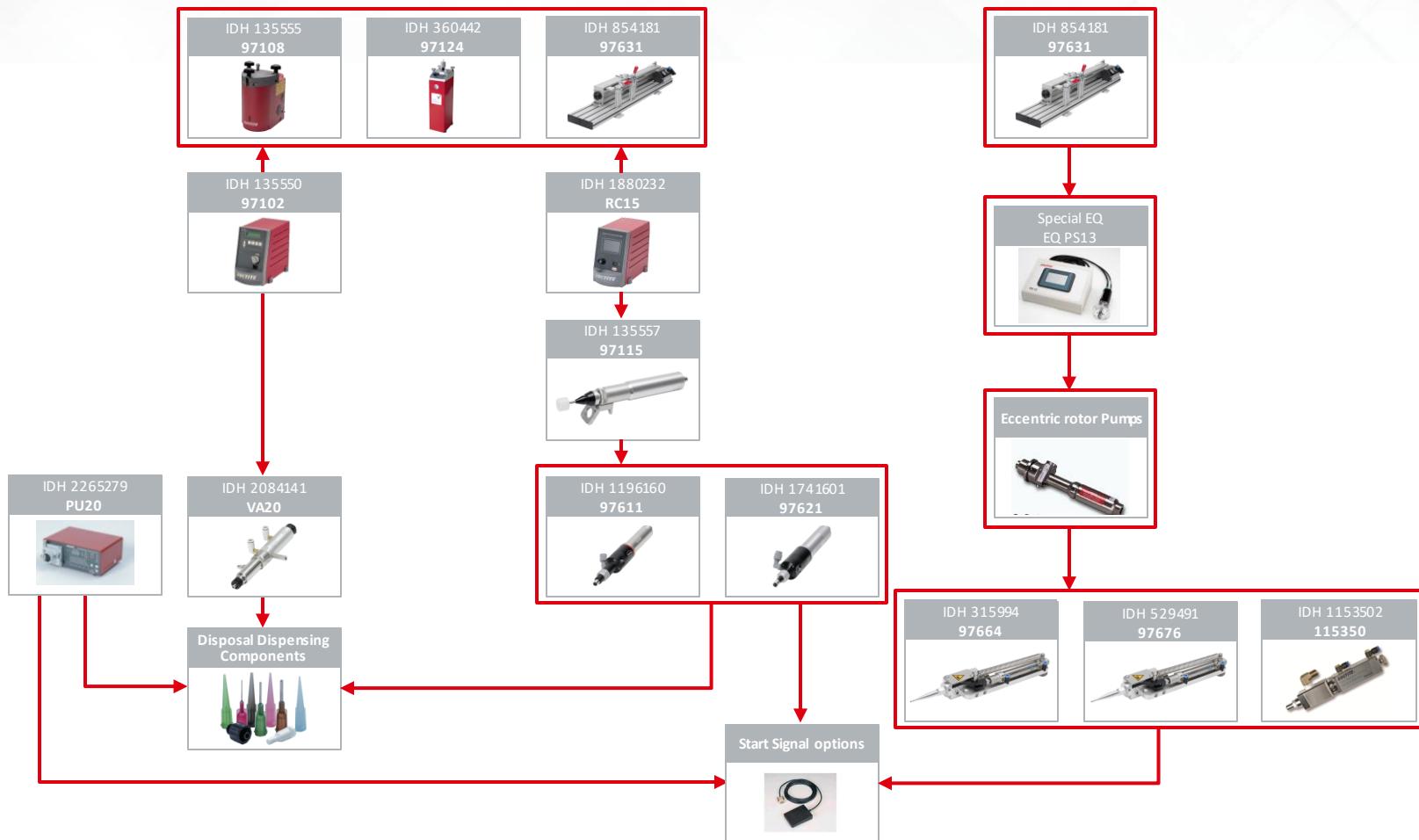
Additional Dispensing Tips and Mixer Nozzles				
Illustration	Item No.	Order No.	Pack Size	Description
	97283	529462	40 pcs	10 ml amber syringe barrel kit, for UV products
	97263	218287	40 pcs	10 ml black syringe barrel kit, for UV and light cure adhesives
	97208	88657	2 pcs	10 ml syringe airline adapter
	97244	88677	20 pcs	30 ml clear syringe barrel kit
	97264	218286	20 pcs	30 ml black syringe barrel kit, for UV and light cure adhesives
	97245	88678	2 pcs	30 ml syringe airline adapter
	97290	397462	50 pcs	All plastic precision dispensing tip, 20 gauge
	984569	1487440	10 pcs	Static mixer for epoxy and PU in 50 ml, SQ 5.3-24
	984570	1487439	10 pcs	Static mixer for epoxy in 200 / 400 ml, SQ 7.5-24
	1034575	1034575	10 pcs	Static mixer MBX 6.5-20-S 10:1 for LOCTITE AA 3038
	8953593	1248606	10 pcs	Spray mix nozzle for LOCTITE PC 7255
	8953186	1104046	10 pcs	Static mixer 4:1 / 10:1 for 400 / 490 ml, MCX 08-18
	5289010	545996	10 pcs	Static mixer 1:1 for acrylics in 50 ml, MA 6.3-7
	98457	720174	10 pcs	Static mixer 1:1 / 2:1 in 200 / 400 ml, MC 8-24
	863585	367545	10 pcs	Static mixer 1:1 for MS polymers in 410 ml, MC 13-18
	8953187	1104047	10 pcs	Static mixer 4:1 / 10:1 in 400 / 490 ml, MCX 08-24
	8955989	1453183	10 pcs	Static mixer for LOCTITE 3090 and LOCTITE 4070, MLX 2.5-16-5
	n.a.	1826921	10 pcs	Static mixer 1:1 / 2:1 in 50 ml, MBH 3.2-16 S
	n.a.	1573153	10 pcs	Static mixer 1:1 / 2:1 in 50 ml, MBQ 5.0-24 L
	n.a.	1573135	10 pcs	Static mixer 1:1 / 2:1 in 400 ml, MFH 6.0-34 T



LOCTITE®



Volumetric Dispensing Systems – 1K



LOCTITE®

LOCTITE 97108 2.0 L Reservoir

Application Field

LOCTITE 97108 2.0 L Reservoir accommodates LOCTITE bottles and is equipped with a pneumatic connection and an electrical interface for setup with all LOCTITE controllers. It suits adhesive bottle sizes 250ml, 500g, 1l, 2l and 2kg.

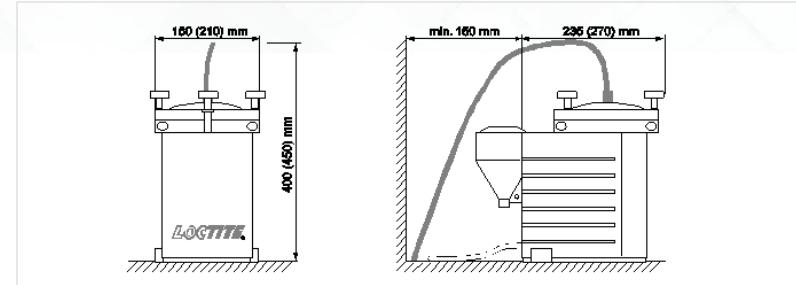
Operation

The original LOCTITE bottle is inserted into the reservoir with the adhesive feedline located in the bottle and the lid secured in place.

The dosed reservoir is supplied with regulated, pressurized air from the LOCTITE controller 97102 or 97152. Pneumatic pressure inside the reservoir is applied to the surface of the adhesive in the original LOCTITE bottle and transports through the product line to the dispense valve. With the 2 liter Reservoir 97108, LOCTITE Products can be applied directly from the original packages with a maximum height of 250 mm and a maximum diameter of 124 mm.

Benefits

- Operational with semi-automatic and automatic controllers
- Product low level and empty sensor to prevent air entrapment
- Reservoir lid holder with drip tray eliminates feed line contamination when changing product contain



Technical Data

Dimensions 0,5l	205 mm (W) x 335 mm (H) x 360 mm (D)
Weight	6,50 kg
Pneumatic Supply	Regulated pressure supply, max. 8 bar (116 psi)
Quality	Filtered 10 µm, oil-free, non-condensing
Over-Pressure Safety (rupture disc)	min. 9 bar (130.5 PSI); max. 12,5 bar (174 PSI)
Tightening torque of the rupture disc	max. 20 Nm
Items supplied	97108 2 Litre Reservoir, Power cord, operation manual, adhesive cups, airline 6 mm, screwdriver, fitting, bottle nest

LOCTITE[®]

LOCTITE 97124 2 L Bag Dispenser

Application Field

The Bag Reservoir 97124 is suitable for the application of LOCTITE adhesives with a dispensing valve at workstations such as in workshops, laboratories, and industrial installations.

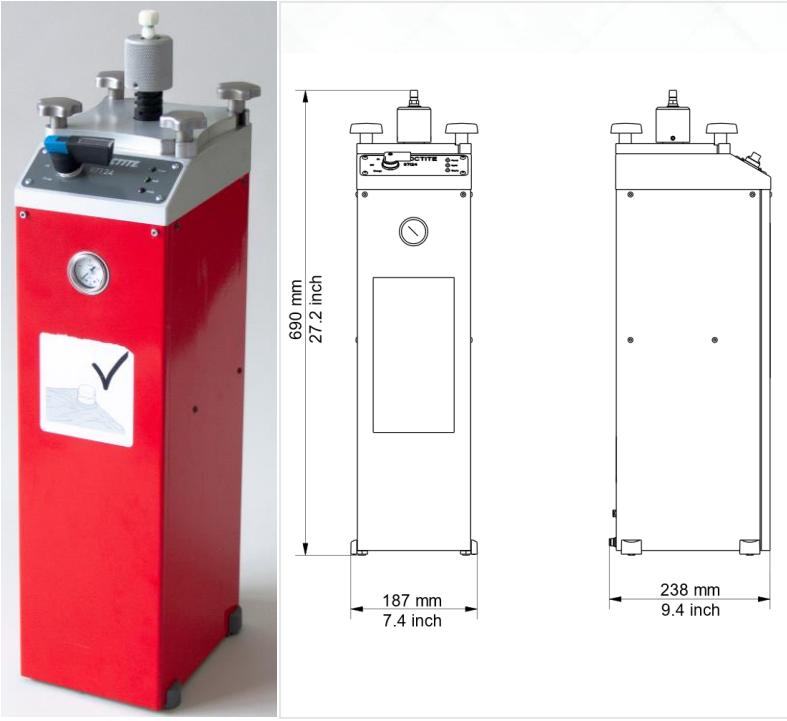
Operation

The LOCTITE 97124 2l Bag Dispenser dispenses LOCTITE adhesive by air pressure. After a 2l bag package of LOCTITE adhesive has been loaded to the reservoir, it is pressurized from a LOCTITE Controller using clean, filtered dry air. The air pressure inside the vessel presses the product out of the bag package without mechanical stress. The dispensing pressure (regulated air from the controller) squeezes the bag and transports the product through the piercing element, the product fitting and the feedline to the dispensing valve. An integrated pneumatic cylinder presses a pusher plate against the bag in a controlled way. This action avoids twisting and closing of the bag.

Benefits

Considerable reduction of packaging waste by using a 2-litre product bag

- Automatic ventilation by solenoid valve in connection with controllers 97102 or 97152
- No contamination as product remains in original container



Technical Data	
Dimensions	187 mm (W) x 690 mm (H) x 238 mm (D)
Weight	13.0 kg
Pneumatic Supply	Min. 4 bar (58 PSI), max. 8 bar (115 PSI)
Pneumatic Quality	Filtered 10 µm, oil-free, non-condensing
Over-Pressure Safety (rupture disc)	min. 9 bar (130.5 PSI); max. 12.5 bar (174 PSI)
Items supplied	Tightening torque of the rupture disc max. 20 Nm 97124 2L Bag Dispenser, Tank cord, Product fitting 1/4", Piercing element 5mm, Reservoir tubing set, Operating Manual

LOCTITE 97631 300 ml Cartridge Dispenser

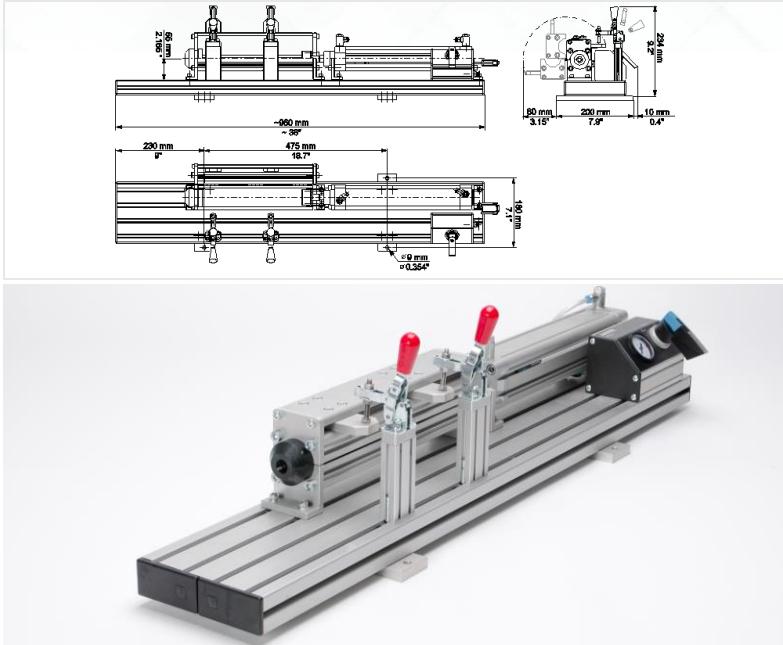


Application Field

The LOCTITE 97631 Cartridge Dispenser 97631 is used to dispense bubble minimized LOCTITE products in 300 ml cartridges such as Gel-CA, Anaerobics, Epoxies and Silicones. In connection with a dispensing valve or eccentric rotor pump it can be used in transfer lines, manual or automatic work places.

Operation

The LOCTITE 97631 300 ml Cartridge Dispenser should be pressurized from a LOCTITE controller with max. 4 bar (58 PSI). The piston of the pneumatic cylinder presses the product out of the cartridge and forces it through the feedline to the dispensing valve/eccentric rotor pump. When connected to a Controller 97152, the regulated air pressure is available at the unit when the controller is switched on. The piston can be switched to the forward position, "keep in position" or piston backwards. It will be depressurized automatically when the controller is switched off. No movement of the piston is possible.



Technical Data	
Dimensions	960mm (L) x 210 mm (W) x 234 mm (H)
Weight	11.6 kg
Pneumatic supply	Regulated air pressure (l) from the controller
Pressure input limit (maximum feed pressure)	max. 4 bar (58 PSI)
Pneumatic Hose	OD 6 mm , ID 4 mm
Product Feedline	Standard OD $\frac{3}{16}$ "
Product Fitting Thread	Standard G $\frac{3}{8}$ "
Items supplied	300ml Cartridge dispenser, Pushers (for Al, Semco, Ritter & Fischbach cartridges), Adaptors (for Al, Semco, Ritter & Fischbach cartridges), OD 6mm airline x 2m, Sleeve for Al cartridge, Operating Manual

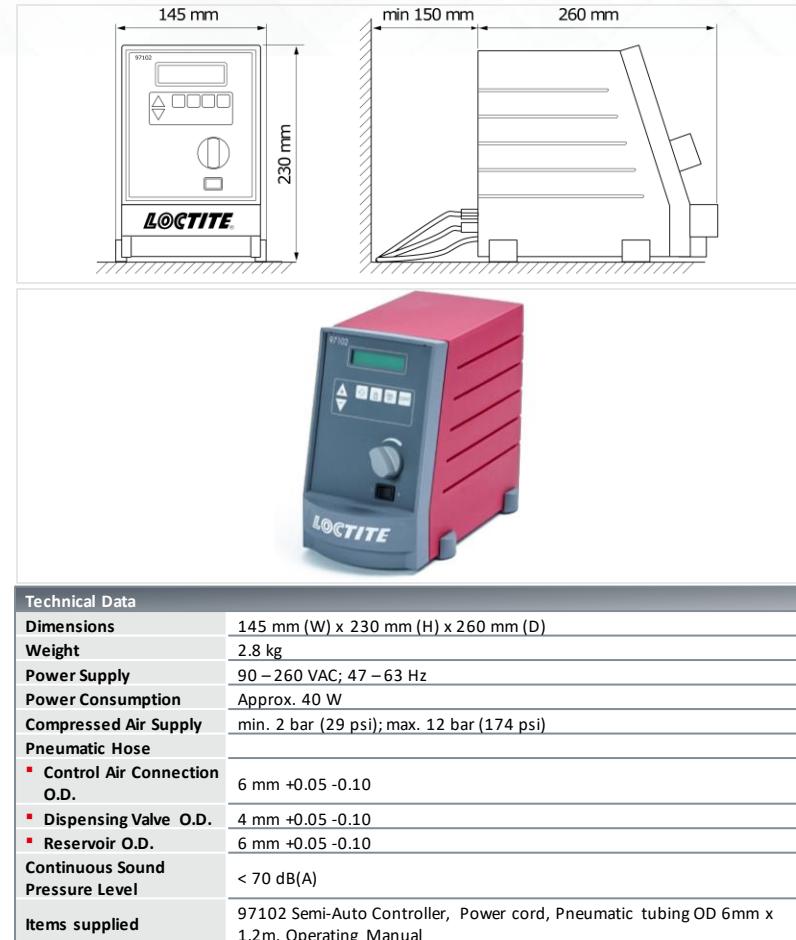
LOCTITE 97102 Semi-Automatic Controller

Application Field

The Semi-Automatic Controller 97102 controls the exact application of LOCTITE Products from a product reservoir by means of a dispensing valve.

Operation

The LOCTITE 9712 semi-automatic controller has been designed for precision dispensing. The digital pressure display and digital time ranging from 0.04 to 99.9 seconds allows the operator to make pin-point accurate deposits when applying a wide range of fluids from low to high viscosity. This controller can be interfaced with various LOCTITE reservoirs and valves to make a complete dispensing system. The semi-automatic controller controls the selected dispensing pressure in the reservoir and the pneumatic operation of the dispense valve according to the selected dispensing time. The start signal for dispensing is provided by an external footswitch or fingerswitch. Error messages are shown on a digital display and are accompanied by an audible alarm.



LOCTITE EQ RC15 Compact Rotor Pump Controller

Application Field

LOCTITE EQ RC15 Compact Rotor Pump Controller provides all control required for both the 97611 and 97621 Compact Rotor Pumps. This controls all the dispensing parameters such as; Pump speed, volume dispense, reservoir pressure and Rotsprays control (if used). The application field depends on the supplementary equipment.

Operation

The EQ RC15 unit controls the drive of a connected rotor pump in a way that a precise dosage is made upon a simple digital start signal.

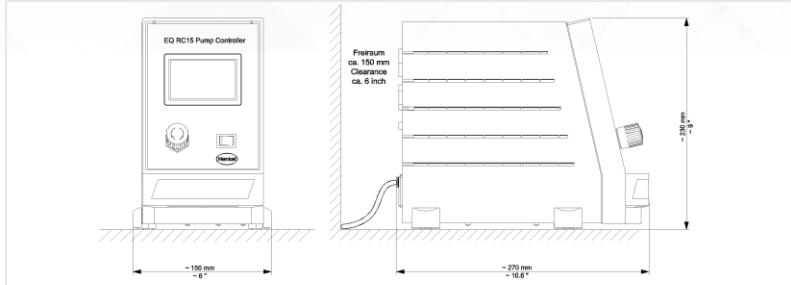
For different dosing applications it is possible to store up to 3 programs in the RC15 controller. These can be accessed via separate digital start signals of a higher-ranking controller.

The EQ RC15 controller provides digital output signals to the higher-level controller to indicate the status of the dosing system as well as the level of the reservoir. For manual workstations without higher level control, the EQ RC15 system can be started with a simple foot switch. The status is shown on the display with easy to understand, user friendly icons. Dosing parameters can be adjusted via the graphical user interface depending on the operating mode: flow rate for dispensing, dispensing quantity or dispensing time.

Benefits

Menu navigation is easy and allows users to select either the amount of product dispensed (in ml) or the dispense rate (in ml / min)

- High accuracy +/-1%
- Reversible direction of flow (suck-back) allows for an exact stoppage of the product flow
- Useful for all kinds of applications: drops, beads, potting



Technical Data	
Weight	~ 2.3 kg
Compressed air supply	min. 4 bar (72 PSI), max. 6 bar (116 PSI)
Pneumatic Quality	filtered 10 µm, oil-free, non-condensing
Power Supply	110 – 240V AC 50/60 Hz, 100 W
Pneumatic hose, control air connection O.D.	6 mm
Pneumatic Hose, reservoir connection O.D.	6 mm
Items supplied	EQ RC15 Compact Rotor Pump Controller, Power cord, operation manual, airline 6 mm, calibration pipette

LOCTITE 97115 Rotospray

Application Field

LOCTITE 97115 Rotospray is used to apply LOCTITE products to the interior cylindrical surfaces of work pieces. The Rotospray is designed for anaerobic adhesives.

Operation

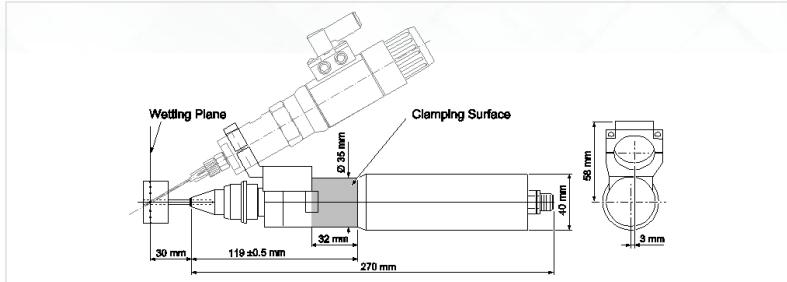
The Rotospray 97115 is used in conjunction with a dispense valve to apply Loctite anaerobic adhesives. The dispensing valve is clamped in the holder of the Rotospray so that the tip of the flexible dispensing needle is directed to the inside of the wetting holes on the rotor disk. The LOCTITE Controller 97152 must control: Switching on/off of the Rotospray and the preselected dispensing time after the rated rotor speed is reached. As long as the dispensing valve is open, the product is dispensed through the wetting holes by centrifugal force and uniformly distributed onto the cylindrical inner surface of the part.

In conjunction with an advancing slide, reaching the end of the advancing movement triggers the dispensing.

The head of the Rotospray has a longitudinal play of 5 mm. Within this distance, unintentional contact with an obstacle can be compensated without the rotor disk or the drive assembly and its shaft being damaged.

Benefits

- Accurate, controlled spray pattern
- High speed rotation for large and small rotor disks
- Fail to spin alarm



Technical Data

Weight	0.530 kg
Standard Rotational speed	8,000 rpm
Adjustable Speed Range	3,500 – 8,000 rpm in steps of 500 rpm
Power Consumption	Constant current ~0.2 A, Starting-up current up to 2 A W
Adjustable starting-up current	2 A
Rated monitored time to reach speed	0.5 sec
Adjustable monitored time to reach speed	No limit
Rated voltage Safety extra low	24 V DC
Items supplied	97115 Rotospray, Rotor disk 10 mm & 25 mm, rotor cord, operation manual, different mounting clamps for all valves/pumps

LOCTITE EQ PU20 Digital Peristaltic Dispenser

Application Field

Anaerobic, cyanoacrylate and light cure adhesives in 10ml, 20g, 30ml and 50ml packs. Solvent-free activators and oils up to a viscosity of approx. 5,000 mPa·s. The LOCTITE EQ PU20 Digital Peristaltic Dispenser is ideal for dispensing adhesives from bottles. The peristaltic motion of the rotor provides volumetric dispensing of the material directly from a bottle or similar container.

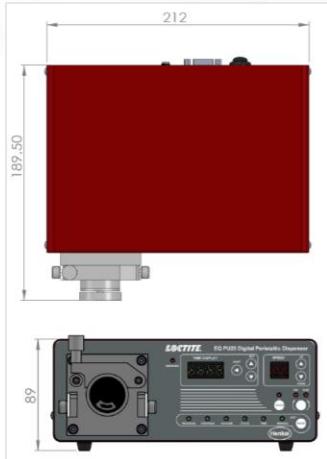
Operation

The LOCTITE EQ PU20 Digital Peristaltic Dispenser transfers low viscosity liquids by pressure displacement applied by a turning rotor against a tube carrying the material. Usually these pumps are chosen because the liquids are hazardous or difficult to work with and it is advisable to limit operator contact. Another reason is that peristaltic pumps are air free. Dispense outputs can be timed from 0.01 - 99.99 seconds with flow speeds from 0.01 - 6 ml/min using PTFE tubing. The pump is bi-directional allowing suck-back after dispense to prevent dripping of the fluid. When dispensing Light Cure adhesives use only black tubing. This avoids curing of the adhesive in the tube.

The amount of product dispensed is controlled by: the dispensing time, the size of the used feedline and the speed of the drive.

Benefits

- Air-free dispensing eliminates air in the adhesive.
- Forward and reverse motion of rotor.
- Instant reverse for vacuum suck-back; shuts off the flow of liquid and prevents dripping.
- Adjustable post-delay time for vacuum setting.
- Simple and convenient load mechanism for tubing replacement.
- Digital motor speed adjustment and display
- Digital timer display
- “Teach In” and program memory saving function.



Technical Data

Power Supply	110/220 VAC; 50/60 Hz.
Weight	3.0 kg
Dispense time range	0.01 - 99.99 seconds
Maximum Flow Rate	Up to 6 ml/min
Direction of Rotation	Clockwise (CW) or Counterclockwise (CCW)
Dimensions	212 W x 89 H x 189.5 D (mm)
Suck-back	Programmable by reversing the direction of rotor
Items supplied	1 PU20 Digital Peristaltic Dispenser 1 Manual Applicator 1 Operation Manual 1 Tip Adapter 1.6mm 1 Tip Adapter 2.0mm 1 Tip Adapter 2.5mm 1 Tip Adapter 3.2mm Tubing, Black, 1.4mmx0.3mm Wall x 1.0 Long Tubing, Black, 1.0mmx0.3mm Wall x 1.0 Long Tubing, White, 1.4mmx0.3mm Wall x 1.0 Long Tubing, White, 1.0mmx0.3mm Wall x 1.0 Long

LOCTITE EQ PS13 Volumetric Dispense System

Application Field

The LOCTITE EQ PS13 is a Controller and Servo drive designed to operate the Loctite Eccentric Rotor Pumps. The lightweight design makes it ideal for mounting to an EQ RB40 Benchtop Robot.

Operation

The pump system PS-13 consists of a control unit in a casing as well as a brushless servomotor planetary gear combination with supply and signal lines.

The PS-13 allows a dosing either by the touch display or by interface via external circuit.

The following operation modes are available:

- Dosing via Start/Stop operation
- Volumetric dosing

In both operating modes, the retraction is adjustable and the calibration function enables an exact adjustment of the used pump.

The parameters for four pump types can be stored in the control unit.



Technical Data	
Dimensions	198 x 290 x 120 / 56 mm
Weight	4 kg (Servo drive)
Supply Voltage	230V/50Hz
Items supplied	EQ PS13 Control Unit, Servo Drive, 5m Control line & 5m Supply line

LOCTITE 97621 Volumetric Rotor Pump 1.0



Application Field

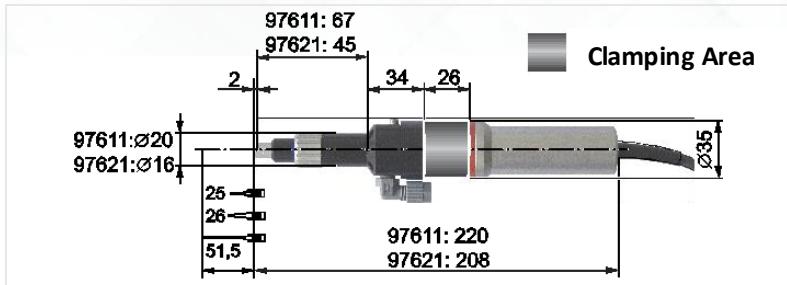
LOCTITE 97621 Volumetric Rotor Pump 1.0 is a precision volumetric dispenser for accurate dispensing applications with flow rates from 120 to 1.480 $\mu\text{L}/\text{min}$. It is designed for anaerobic, light cure and acrylic adhesives.

Operation

The dispenser uses a rotating displacement consisting of a rotor and a stator. A number of voids are produced as a result of the various geometries of the conveying elements. Conveying of adhesive is proportional to the angle of rotation and speed of rotation of the rotor within the stator. Since the direction of flow is reversible, the adhesive can be sucked back to allow a clean break of the product.

Benefits

- High repeatability
- High accuracy +/-1%
- Reversible direction of flow (suck-back) allows for an exact stoppage of the product flow
- Useful for all kinds of applications: drops, beads, potting



Technical Data	
Dimensions	206 mm (L) x Ø 33 mm
Weight	0.380 kg
Minimum Quantity	0,001 ml (1 µl)
Accuracy	±1%
Flow Rate	120 to 1.480 µl/min
Input Pressure	0 - 6 bar
Max. Dispensing Pressure	16 bar
Intrinsic Tightness	ca. 2 bar
Items supplied	97621 Volumetric Rotor Pump 1.0, Operation manual, 1/4" feedline, mounting tools

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LOCTITE 97611 Volumetric Rotor Pump 4.0

Application Field

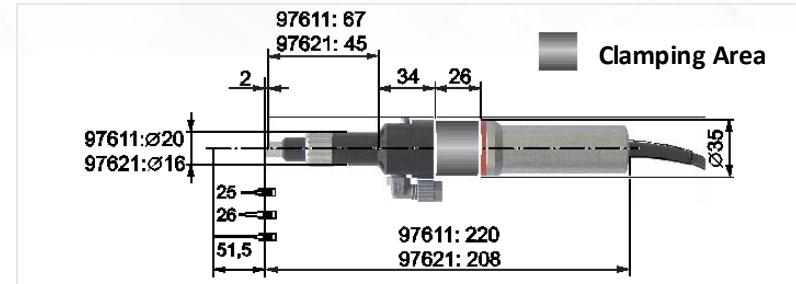
LOCTITE 97611 Rotor Dispenser 4.0 is a precision volumetric dispenser for accurate dispensing applications with flow rates from 500 to 6,000 $\mu\text{l}/\text{min}$. It is designed for anaerobic, light cure and acrylic adhesives.

Operation

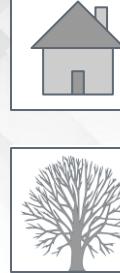
The dispenser uses a rotating displacement consisting of a rotor and a stator. A number of voids are produced as a result of the various geometries of the conveying elements. Conveying of adhesive is proportional to the angle of rotation and speed of rotation of the rotor within the stator. Since the direction of flow is reversible, the adhesive can be sucked back to allow a clean break of the product.

Benefits

- High repeatability
- High accuracy $\pm 1\%$
- Reversible direction of flow (suck-back) allows for an exact stoppage of the product flow
- Useful for all kinds of applications: drops, beads, potting



Technical Data	
Dimensions	220 mm (L) x Ø 35 mm
Weight	0,300 kg
Minimum Quantity	0,004 ml (4 μl)
Accuracy	$\pm 1\%$
Flow Rate	500 to 6,000 $\mu\text{l}/\text{min}$
Input Pressure	0 - 6 bar
Max. Dispensing Pressure	16 bis 20 bar
Intrinsic Tightness	ca. 2 bar
Items supplied	97611 Volumetric Rotor Pump 4.0, Operation manual, 1/4" feedline, mounting tools



LOCTITE EQ VA20 Volumetric Dispense Valve

Application Field

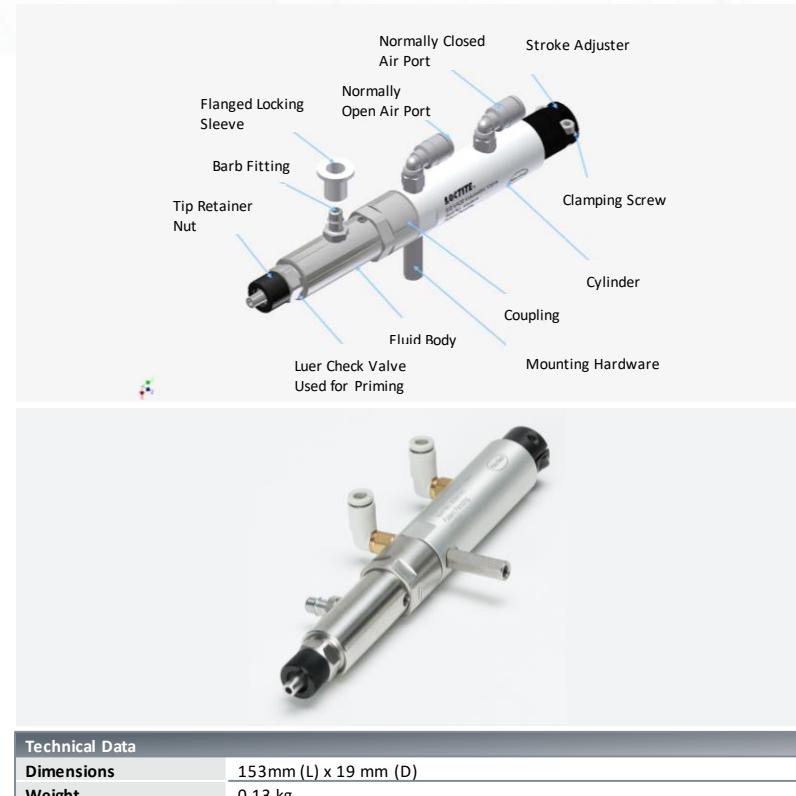
The LOCTITE EQ VA20 is specifically design to dispense drops of Loctite Light Cure Adhesives with precise dosing in the range of 1.5 to 12 microliters.

Operation

The LOCTITE EQ VA20 Volumetric Valve is a positive displacement metering valve which dispenses a precise volumetric drop of adhesive with each cycle. The EQ VA20 is designed with a flooded chamber and a single check valve that allows for quick priming and minimizes the need for re-priming. The priming system utilizes a patent pending check valve design which improves the speed and reliability of priming. The innovative displacement rod and seal of the VA20 design provide long dispensing life before rebuild is needed.

Benefits

- Stroke adjusted positive displacement independent of external influences such as pressure, viscosity, and temperature.
- Quick and reliable priming
- Long Life, >1Million cycles
- Stackable configuration on 19mm centres
- Tool free fluid line hook up that can be oriented 360°



Technical Data

Dimensions	153mm (L) x 19 mm (D)
Weight	0,13 kg
Viscosity Range	1 to 10.000 mPas
Operating Air Pressure	4 to 7 bar [60-100 Psi]
Operating Product Pressure	2 to 5 bar [30 to 70 Psi]
Items supplied	EQ VA20 Volumetric Dispense valve, Needle kit, operation manual, feedline, 2 x airline 4 mm,

LOCTITE Eccentric Rotor Pumps RD-EC Series

Application Field

The Eccentric Rotor Pump is ideally suited for volumetric dispensing of materials ranging from anaerobic adhesives and sealants to very pasty silicones.

Operation

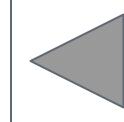
The direction of flow is reversible and the dispensed amount proportional to speed of rotation, i.e. the system allows for continuously variable adjustment of the dispensing rate via motor speed adjustment. The drive shaft is sealed by two double acting sealing rings made of UHMW-PE and PTFE; it is fitted with a barrier liquid connection.

Eccentric Rotor Pumps are positive displacement pumps providing volumetric dispensing and a nearly pulsation free flow of material.

Volume flow depends on the size of the pump and the number of revolutions. The pumps can be driven by either a digital AC servo drive or a DC drive. Pump and drive are fixed together with a mounting damp for fast assembly and disassembly.



Technical Specifications		
	1997132	1997130/1997123
Item #	97660	97663/97669
Approved LOCTITE products – silicones	5900, 5970	5083, 5699, 5900, 5910, 5960, 5970
Approved LOCTITE products – anaerobics	-	97669 only: 510, 518, 5203 5205, 5206, 5209
Maximum Inlet Pressure	20 bar dynamic, 30 bar static	
Dispensing rate for LOCTITE 5900	3.0g/s at 20°C 150rpm 3mm nozzle	0.6g/s at 20°C 150rpm 2mm nozzle
Dispensing rate for anaerobic gasketing compounds	97669 only: 0.5g/s at 20°C 150rpm 2mm nozzle	
Stator Material	EPDM*	97663: EPDM* 97669: VisChem**
		VisChem**



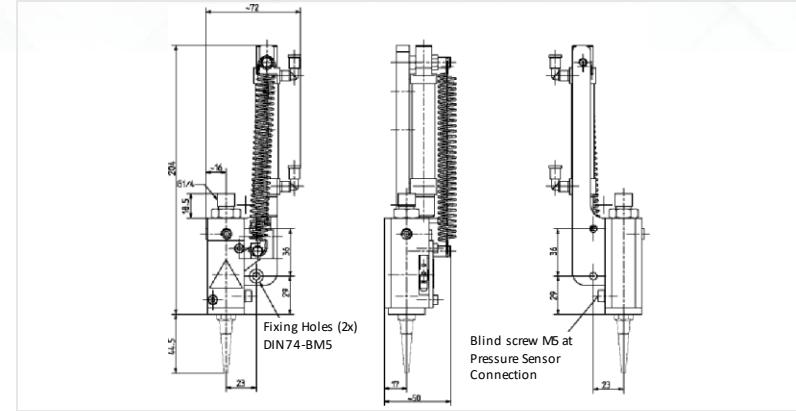
LOCTITE 97664 Shut-Off Valve for Silicones

Application Field

The 97664 Shut-Off Valve is designed for dispensing LOCTITE silicones.

Operation

The LOCTITE 97664 Shut-off Valve for Silicones is used in combination with an Eccentric Rotor Pump for dispensing silicones. It opens and shuts by a double acting cylinder. Additionally if the air supply is switched off it doses by spring force. This prevents the running out of the adhesive. The valve is mounted directly at the rotor pump. Different dispensing nozzles are available according to the application. A pressure sensor for monitoring the dispensing can be mounted directly to the Shut-Offvalve.



Technical Data	
Weight	0.6 kg
Pneumatic Supply	min. 5 bar (73 PSI) – max. 10 bar (145 PSI)
Pneumatic Tube Size	External Dia. 4 mm, internal Dia. 2.5 mm
Connection Thread Feedline/Pump	G 1/4"
Max. Product Pressure	40 bar (580 psi)
Quality of Air Pressure	Filtered oil-free or filtered oiled
Items supplied	97664 Shut-Off valve (Needle must be ordered separately)

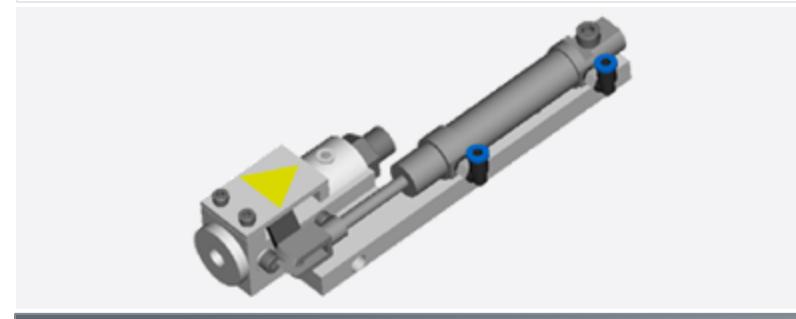
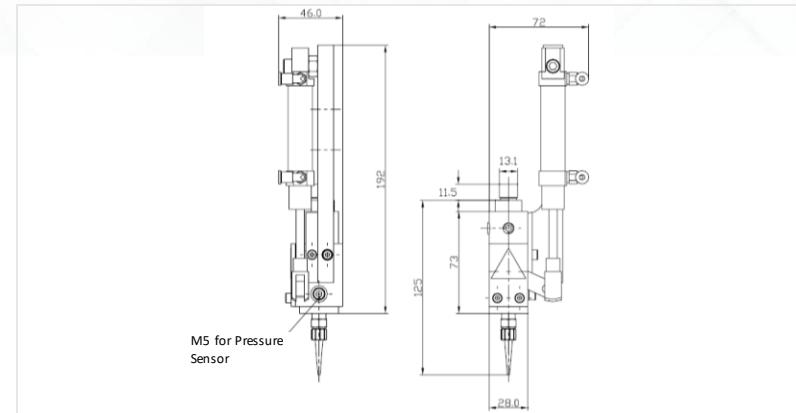
LOCTITE 97676 Shut-Off Valve for Anaerobics

Application Field

The 97676 Shut-Off Valve is designed for dispensing LOCTITE anaerobic adhesives.

Operation

The LOCTITE 97676 Shut-off Valve for Anaerobics is used in combination with an Eccentric Rotor Pump for dispensing Anaerobic adhesives. It opens and shuts by a double acting cylinder. Additionally if the air supply is switched off it closes by spring force. This prevents the running out of the adhesive. The valve is mounted directly at the rotor pump. Different dispensing nozzles are available according to the application. A pressure sensor for monitoring the dispensing can be mounted directly to the Shut-Off valve.



Technical Data	
Weight	0.5 kg
Pneumatic Supply	min. 5 bar (73 PSI) – max. 10 bar (145 PSI)
Pneumatic Tube Size	External Dia. 4 mm, internal Dia. 2.5 mm
Connection Thread Feedline/Pump	G 1/4"
Max. Product Pressure	40 bar (580 psi)
Quality of Air Pressure	Filtered oil-free or filtered oiled
Items supplied	97676 Shut-Off valve (Needle must be ordered separately)

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LOCTITE High Pressure 150bar/3mm Dispense Valve

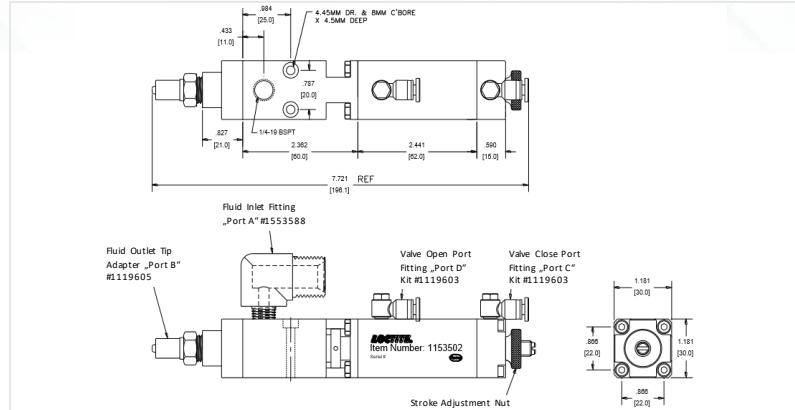
Application Field

The 1153502 High pressure 150bar/3mm Dispense Valve is designed for dispensing LOCTITE silicones at high pressure.

Operation

The LOCTITE High Pressure Dispense Valve is a double-acting dispense valve that is used to dispense high viscosity adhesives when pumped from pail and drum pump systems. This stainless steel dispense valve is compatible with silicones, MS polymers, and urethane products. It features suck-back capability and can operate at fluid pressures up to 2175 psi. (150 bar).

- Handles high viscosity adhesives approx. 500,000 to 2,000,000 mPa.s.
- Stainless steel valve ensures long term, durable dispensing performance.
- Bubble-free, no-drip dispensing with suck-back control.
- Lightweight and durable; can be mounted or comfortably handheld.
- High resolution stroke adjustment.
- Double acting - air to open; air to close.
- Operates at fluid pressures up to 2175 psi. (150 bar).



Technical Data	
Weight	0.68 kg
Pneumatic Supply	min. 4 bar (55 PSI) – max. 6 bar (85 PSI)
Pneumatic Tube Size	External Dia. 4 mm, internal Dia. 2.5 mm
Max. Product Pressure	150 bar (2185 psi)
Quality of Air Pressure	Filtered oil-free or filtered oiled
Items supplied	150 bar dispense valve, Fluid inlet/outlet fittings, air input fitting, 2 metre airline (Needles must be ordered separately)

LOCTITE Footswitch

Application Field

The LOCTITE Footswitch is designed for to initiate LOCTITE Dispense and Curing equipment.

Operation

The LOCTITE Footswitch is used in combination with LOCTITE Dispense and Curing equipment. It connects to the equipment via a standard Male 9 pin D connector.

It provides a start signal to each dispense/cure equipment and enables the operator to keep hands free for other assembly tasks.



Technical Data	
Weight	0.6 kg
Electrical connector	Standard male 9 pin D connector
Items supplied	97201 Footswitch

Dispense Needles, Mixers and Accessories



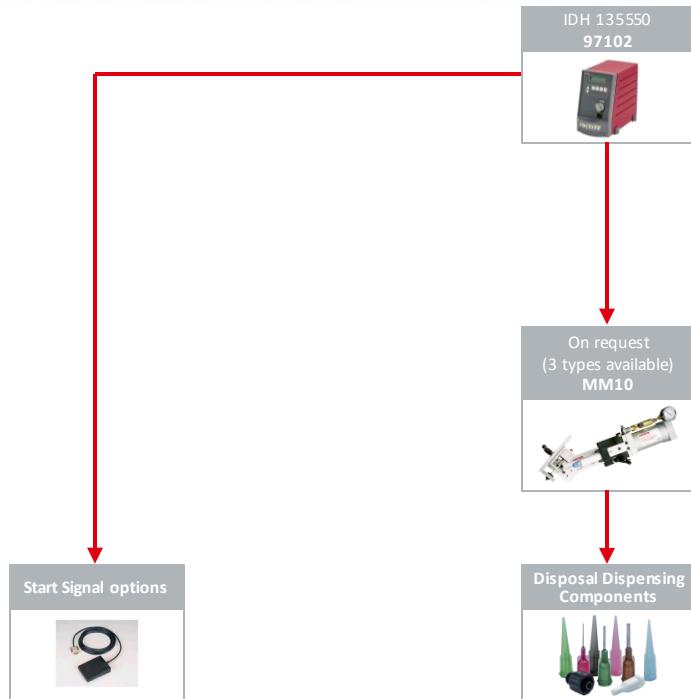
Illustration / Example	Item No.	Order No.	Pack Size	Colour	Gauge	Inner Ø, mm		
Flexible Dispensing Tips: Dispensing Needle, Polypropylene (PPF), Helical Thread								
	97229	142640	50 pcs	Amber	15	1.37		
	97230	142641	50 pcs	Green	18	0.84		
	97231	142642	50 pcs	Pink	20	0.61		
	97232	142643	50 pcs	Red	25	0.25		
Tapered Dispensing Tips: Dispensing Needle, Polyethylene – Conical (PPC), Luer-Lock								
	97221	88660	50 pcs	Grey	16	1.19		
	97222	88661	50 pcs	Green	18	0.84		
	97223	88662	50 pcs	Pink	20	0.61		
	97224	88663	50 pcs	Blue	22	0.41		
High Precision Dispensing Tips: Dispensing Needle, Stainless Steel Standard (SSS), Luer-Lock								
	97225	88664	50 pcs	Amber	15	1.37		
	97226	88665	50 pcs	Green	18	0.84		
	97227	88666	50 pcs	Pink	20	0.61		
	97228	88667	50 pcs	Red	25	0.25		
Additional Dispensing Tips and Mixer Nozzles								
	Illustration	Item No.	Order No.	Pack Size	Description			
	98741	1146079	50 pcs	Dispensing needle, stainless steel – PTFE-lined (SSTL), 25 gauge				
	97262	218288	2 each	Needle selection pack: 2 each of a variety of dispensing needles				
	K1003100	88805	50 pcs	Formable dispensing tip, 21 gauge / 0.5 mm				
	97248	218275	50 pcs	Luer-Lock® tip caps				
	97233	88672	20 + 5 pcs	Luer-Lock® adapter kit: 20 Luer-Locks® and 5 adapters				
	97207	88656	40 pcs	10 ml clear syringe barrel kit				

Illustration	Item No.	Order No.	Pack Size	Description
	97283	529462	40 pcs	10 ml amber syringe barrel kit, for UV products
	97263	218287	40 pcs	10 ml black syringe barrel kit, for UV and light cure adhesives
	97208	88657	2 pcs	10 ml syringe airfine adapter
	97244	88677	20 pcs	30 ml clear syringe barrel kit
	97264	218286	20 pcs	30 ml black syringe barrel kit, for UV and light cure adhesives
	97245	88678	2 pcs	30 ml syringe airfine adapter
	97290	397462	50 pcs	All plastic precision dispensing tip, 20 gauge
	984569	1487440	10 pcs	Static mixer for epoxy and PU in 50 ml, SQ 5.3-24
	984570	1487439	10 pcs	Static mixer for epoxy in 200 / 400 ml, SQ 7.5-24
	1034575	1034575	10 pcs	Static mixer MBX 6.5-20-S 10:1 for LOCTITE AA 3038
	8953593	1248606	10 pcs	Spray mix nozzle for LOCTITE PC 7255
	8953186	1104046	10 pcs	Static mixer 4:1 / 10:1 for 400 / 490 ml, MCX 08-18
	5289010	545996	10 pcs	Static mixer 1:1 for acrylics in 50 ml, MA 6.3-7
	98457	720174	10 pcs	Static mixer 1:1 / 2:1 in 200 / 400 ml, MC 8-24
	863585	367545	10 pcs	Static mixer 1:1 for MS polymers in 410 ml, MC 13-18
	8953187	1104047	10 pcs	Static mixer 4:1 / 10:1 in 400 / 490 ml, MCX 08-24
	8955989	1453183	10 pcs	Static mixer for LOCTITE 3090 and LOCTITE 4070, MLX 2.5-16-5
	n.a.	1826921	10 pcs	Static mixer 1:1 / 2:1 in 50 ml, MBH 3.2-16 S
	n.a.	1573153	10 pcs	Static mixer 1:1 / 2:1 in 50 ml, MBQ 5.0-24 L
	n.a.	1573135	10 pcs	Static mixer 1:1 / 2:1 in 400 ml, MFH 6.0-34 T

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Pressure-Time Dispensing Systems – 2K



LOCTITE®

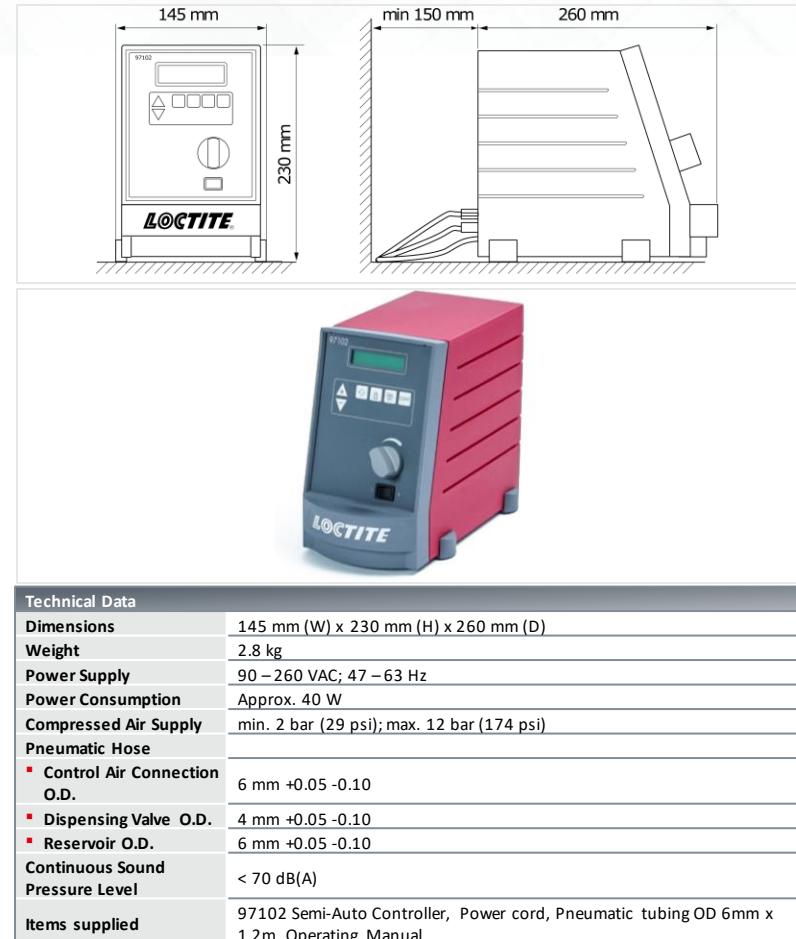
LOCTITE 97102 Semi-Automatic Controller

Application Field

The Semi-Automatic Controller 97102 controls the exact application of LOCTITE Products from a product reservoir by means of a dispensing valve.

Operation

The LOCTITE 9712 semi-automatic controller has been designed for precision dispensing. The digital pressure display and digital time ranging from 0.04 to 99.9 seconds allows the operator to make pin-point accurate deposits when applying a wide range of fluids from low to high viscosity. This controller can be interfaced with various LOCTITE reservoirs and valves to make a complete dispensing system. The semi-automatic controller controls the selected dispensing pressure in the reservoir and the pneumatic operation of the dispense valve according to the selected dispensing time. The start signal for dispensing is provided by an external footswitch or fingerswitch. Error messages are shown on a digital display and are accompanied by an audible alarm.



LOCTITE EQ MM10 50 ml Dual Cartridge Dispenser

Application Field

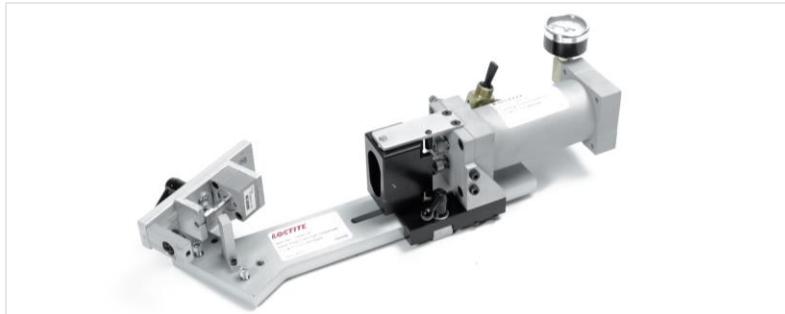
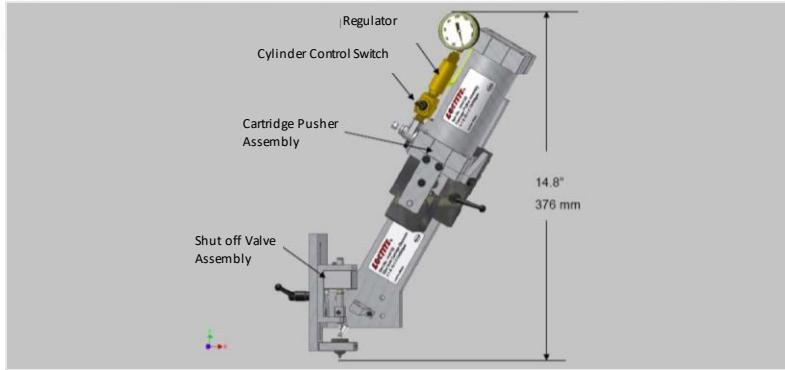
The LOCTITE MM10 Dual Cartridge Dispenser is designed for 2K epoxy and Hybrid products in 50ml cartridges.

Operation

The LOCTITE MM10 Dual Cartridge Dispenser provides highly accurate control for applying drops or small beads of 2-part adhesives with a 1:1 & 2:1 mix ratio from "A" style cartridges. This 50 ml Dual Cartridge Dispenser can be used as a stationary dispenser or can be integrated into LOCTITE Precision Adhesive Dispensing Robots. Interchangeable cartridge pusher with common mounting tooling can accommodate 1:1, 2:1, or 10:1 dual cartridges for both A-System and B-System 50 ml cartridges.

Benefits

- Independent cartridge pressure and actuation controls to fine-tune adhesive flow rate
- Light-weight design; able to be used on any LOCTITE Precision Adhesive Dispensing Robots, excluding the 200D Benchtop Robot, or as a stationary applicator
- Dispenses adhesives up to 200,000 mPas viscosities.



Description	Article Number	IDH Number
50 ml Dual Cartridge Dispenser	EQ_MM10 1:1 / 2:1 A-Style Cartridges	1633364
	EQ_MM10 1:1 / 2:1 B Style Cartridges	1633365
	EQ_MM10 4:1 / 10:1 B Style Cartridges	1633366
Technical Data		
Dimensions	297 mm (W) x 376 mm (D) x 118 mm (H)	
Weight	2.5 kg	
Items supplied	EQ_MM10 50ml Dual cartridge Dispenser, Robot mounting screws, Operating Manual	

NOTE: Anti Drip Valves must be ordered separately

LOCTITE

LOCTITE Footswitch

Application Field

The LOCTITE Footswitch is designed for to initiate LOCTITE Dispense and Curing equipment.

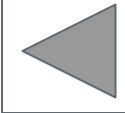
Operation

The LOCTITE Footswitch is used in combination with LOCTITE Dispense and Curing equipment. It connects to the equipment via a standard Male 9 pin D connector.

It provides a start signal to each dispense/cure equipment and enables the operator to keep hands free for other assembly tasks.



Technical Data	
Weight	0.6 kg
Electrical connector	Standard male 9 pin D connector
Items supplied	97201 Footswitch



Dispense Needles, Mixers and Accessories

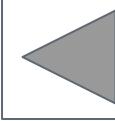


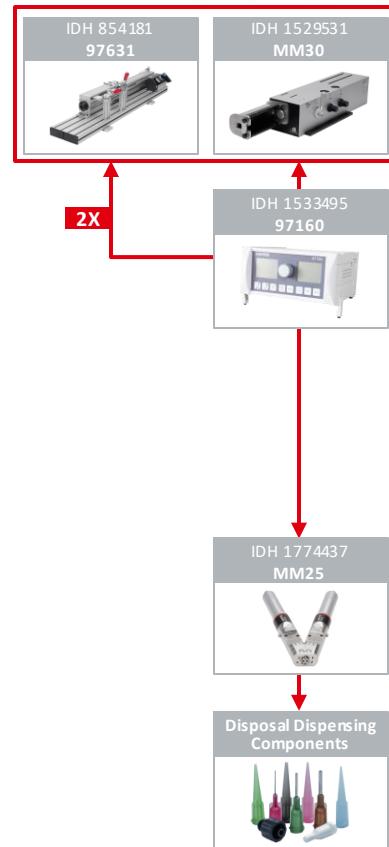
Illustration / Example	Item No.	Order No.	Pack Size	Colour	Gauge	Inner Ø, mm		
Flexible Dispensing Tips: Dispensing Needle, Polypropylene (PPF), Helical Thread								
	97229	142640	50 pcs	Amber	15	1.37		
	97230	142641	50 pcs	Green	18	0.84		
	97231	142642	50 pcs	Pink	20	0.61		
	97232	142643	50 pcs	Red	25	0.25		
Tapered Dispensing Tips: Dispensing Needle, Polyethylene – Conical (PPC), Luer-Lock								
	97221	88660	50 pcs	Grey	16	1.19		
	97222	88661	50 pcs	Green	18	0.84		
	97223	88662	50 pcs	Pink	20	0.61		
	97224	88663	50 pcs	Blue	22	0.41		
High Precision Dispensing Tips: Dispensing Needle, Stainless Steel Standard (SSS), Luer-Lock								
	97225	88664	50 pcs	Amber	15	1.37		
	97226	88665	50 pcs	Green	18	0.84		
	97227	88666	50 pcs	Pink	20	0.61		
	97228	88667	50 pcs	Red	25	0.25		
Additional Dispensing Tips and Mixer Nozzles								
	Illustration	Item No.	Order No.	Pack Size	Description			
	98741	1146079	50 pcs	Dispensing needle, stainless steel – PTFE-lined (SSTL), 25 gauge				
	97262	218288	2 each	Needle selection pack: 2 each of a variety of dispensing needles				
	K1003100	88805	50 pcs	Formable dispensing tip, 21 gauge / 0.5 mm				
	97248	218275	50 pcs	Luer-Lock® tip caps				
	97233	88672	20 + 5 pcs	Luer-Lock® adapter kit: 20 Luer-Locks® and 5 adapters				
	97207	88656	40 pcs	10 ml clear syringe barrel kit				

Illustration	Item No.	Order No.	Pack Size	Description
	97283	529462	40 pcs	10 ml amber syringe barrel kit, for UV products
	97263	218287	40 pcs	10 ml black syringe barrel kit, for UV and light cure adhesives
	97208	88657	2 pcs	10 ml syringe airfine adapter
	97244	88677	20 pcs	30 ml clear syringe barrel kit
	97264	218286	20 pcs	30 ml black syringe barrel kit, for UV and light cure adhesives
	97245	88678	2 pcs	30 ml syringe airfine adapter
	97290	397462	50 pcs	All plastic precision dispensing tip, 20 gauge
	984569	1487440	10 pcs	Static mixer for epoxy and PU in 50 ml, SQ 5.3-24
	984570	1487439	10 pcs	Static mixer for epoxy in 200 / 400 ml, SQ 7.5-24
	1034575	1034575	10 pcs	Static mixer MBX 6.5-20-S 10:1 for LOCTITE AA 3038
	8953593	1248606	10 pcs	Spray mix nozzle for LOCTITE PC 7255
	8953186	1104046	10 pcs	Static mixer 4:1 / 10:1 for 400 / 490 ml, MCX 08-18
	5289010	545996	10 pcs	Static mixer 1:1 for acrylics in 50 ml, MA 6.3-7
	98457	720174	10 pcs	Static mixer 1:1 / 2:1 in 200 / 400 ml, MC 8-24
	863585	367545	10 pcs	Static mixer 1:1 for MS polymers in 410 ml, MC 13-18
	8953187	1104047	10 pcs	Static mixer 4:1 / 10:1 in 400 / 490 ml, MCX 08-24
	8955989	1453183	10 pcs	Static mixer for LOCTITE 3090 and LOCTITE 4070, MLX 2.5-16-5
	n.a.	1826921	10 pcs	Static mixer 1:1 / 2:1 in 50 ml, MBH 3.2-16 S
	n.a.	1573153	10 pcs	Static mixer 1:1 / 2:1 in 50 ml, MBQ 5.0-24 L
	n.a.	1573135	10 pcs	Static mixer 1:1 / 2:1 in 400 ml, MFH 6.0-34 T

LOCTITE®



Volumetric Dispensing Systems – 2K



LOCTITE®

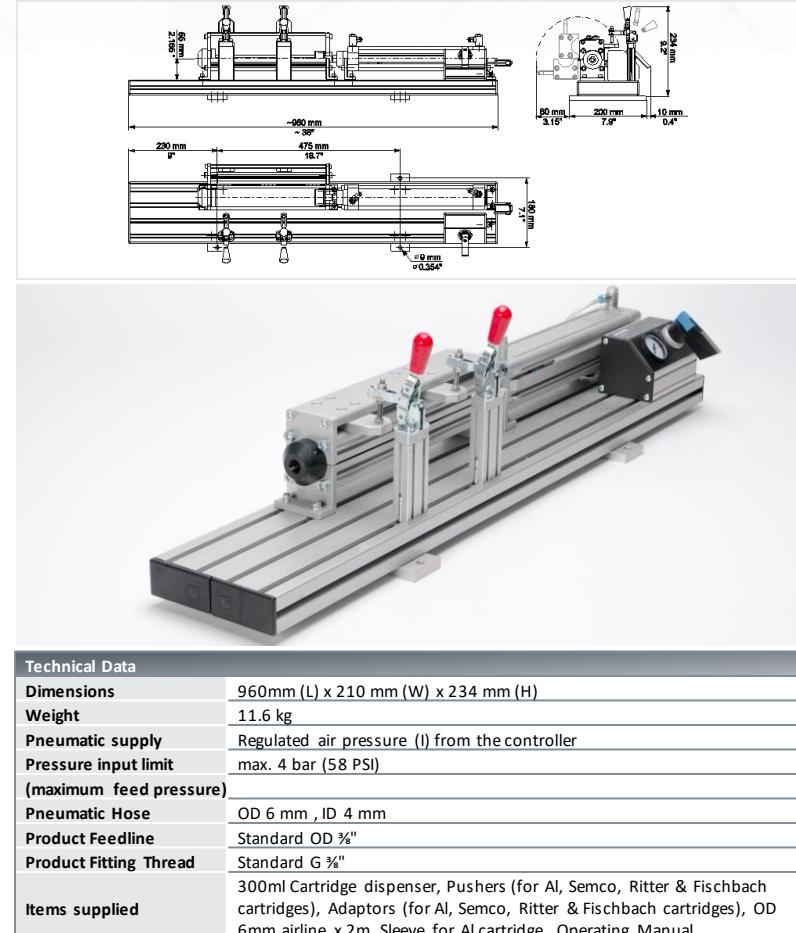
LOCTITE 97631 300 ml Cartridge Dispenser

Application Field

The LOCTITE 97631 Cartridge Dispenser 97631 is used to dispense bubble minimized LOCTITE products in 300 ml cartridges such as Gel-CA, Anaerobics, Epoxies and Silicones. In connection with a dispensing valve or eccentric rotor pump it can be used in transfer lines, manual or automatic workplaces.

Operation

The LOCTITE 97631 300 ml Cartridge Dispenser should be pressurized from a LOCTITE controller with max. 4 bar (58 PSI). The piston of the pneumatic cylinder presses the product out of the cartridge and forces it through the feedline to the dispensing valve/eccentric rotor pump. When connected to a Controller 97152, the regulated air pressure is available at the unit when the controller is switched on. The piston can be switched to the forward position, "keep in position" or piston backwards. It will be depressurized automatically when the controller is switched off. No movement of the piston is possible.



LOCTITE EQ MM30 Dual Cartridge Pusher

Application Field

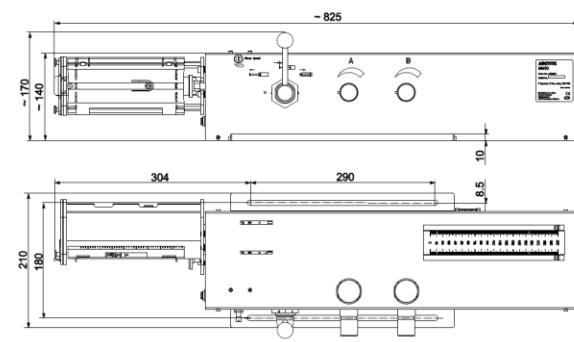
The LOCTITE EQ MM30 is designed for 2K methyl methacrylate (MMAs), epoxy, silicone and hybrid products in 400ml cartridges.

Operation

LOCTITE EQ MM30 Dual Cartridge Pusher is used as a supply unit for volumetric 2K dispensers such as the MM25 Dual Compact Rotor Pump. Two piston rods are mechanically driven independently to ensure continuous supply of both products. To increase the process reliability, a path measurement is integrated allowing the measurement of both piston rods.

Benefits

- Mixing ratio and dispensed volume can be monitored via path measurement and mechanical pointers
- Low level sensing
- Independent pressure control to each side of the 400ml 2K cartridge



Technical Data	
Dimensions	810 mm (L) x 210 mm (W) x 170 mm (H)
Weight	13.5 kg
Pressure input limit	max. 6 bar (87 PSI)
Pneumatic Hose	OD 6 mm , ID 4 mm
Items supplied	EQ MM30 Dual cartridge Pusher, Cartridge tray 1:1/2:1, Cartridge tray 4:1, 2m Pneumatic hose, Operating Manual

LOCTITE

LOCTITE 97160 Dual Rotor Pump Controller

Application Field

The LOCTITE 97160 Dual Rotor Pump Controller is designed for 2K methyl methacrylate (MMAs), epoxy, silicone and hybrid products in 400ml cartridge. Applications include drop or bead dispensing or potting.

Operation

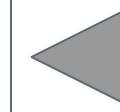
The LOCTITE 97160 Dual Rotor Pump Controller offers a wide range of options for adjusting the desired quantity of product to be dispensed. A mixing ratio from 1:1 to 5:1 can be adjusted. All dosing related values can be stored on an SD card, and can be retrieved and modified at any time. The controller has a graphical user interface for operator guidance and operation. It provides all the functions required to control the MM25 Dual Rotor Pump providing precise control of the rotation speed. It can be set to provide volumetric flow rate or volume dispense to suit the application requirement. It can be interfaced with a higher-ranking PLC for integration into automatic systems.

Benefits

- Easy menu navigation to allow users to select either the amount of product dispensed (in ml) or the dispense rate (in ml / min)
- Very high repetition accuracy
- Automatic purge feature to prevent mixer nozzle curing



Technical Data	
Dimensions	240 mm (W) x ~115 mm (H) x 260 mm (D)
Weight	1.3 kg
Power Supply	External: 100-240 VAC ~1,2 A max, 47 - 63 HZ. 100 -2 00 VA; Controller: 24 VDC
Pressure Control	Dispensing: 0 - 40 bar; Operating: 0 - 7 bar
External Memory	MM C/SD-Card, min. 64 MB, max. 24 Suspense Programs
Start/Stop External Signal	24 V impulse, 100 mA terminal strip, low 0 to 1.5 V, high 12 to 24 V
Items supplied	97160 Dual Rotor Pump Controller, SD Card (512MB), Connectors, Operating Manual



LOCTITE EQ MM25 Dual Rotor Pump

Application Field

The LOCTITE EQ MM25 is designed for 2K methyl methacrylate (MMAs), epoxy, silicone and hybrid products.

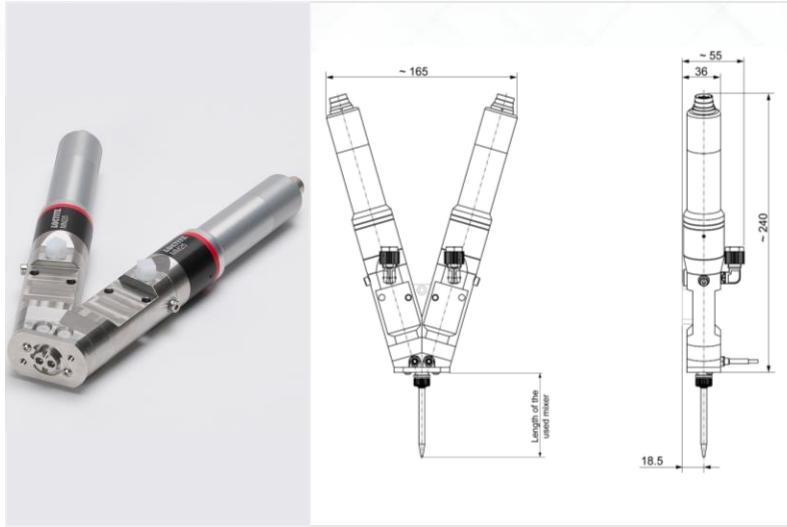
Operation

The LOCTITE EQ MM25 2K dispenser uses a rotating displacement consisting of a rotor and a stator. Several voids are produced as a result of the various geometries of the conveying elements. Conveying that is either proportional to the angle of rotation or else is rpm-dependent is produced by the rotation of the rotor in the stator. Since the direction of flow is reversible, the adhesive can be sucked back to allow a clean break of the product.

Benefits

Positive displacement

- Repeatability > 99 %
- Accurate and adjustable flowrate control
- Self-sealing with controlled stalling of the product bead
- Volumetric device, flow rate proportional to speed, electronically controlled.
- Dispenses 2-part MMAs, Epoxies, PU or Silicones
- Applications include drop or bead dispensing or potting
- Integrated Adapter for B type mixer ensures sealing in flow



Technical Data	
Minimum Dispensing Quantity	0.01 ml
Accuracy	+/- 1%
Volume Flow	0,005 to 6 ml/m (per pump)
Input Pressure, non-self-levelling Liquid	0 - 20 bar
Max. Dispensing Pressure	0 - 40 bar
Intrinsic Tightness	Ca. 2 bar
AS DUAL ROTOR PUMP	
Weight	~ 1.1 kg
Mixing Ratio	1:1 to 10:1
Volume Flow	0.2 - 12 ml/min
Items supplied	EQ MM25 Dual Rotor Pump, Mounting Tool, 2 x Screw drivers, Operating Manual

Dispense Needles, Mixers and Accessories

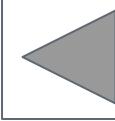


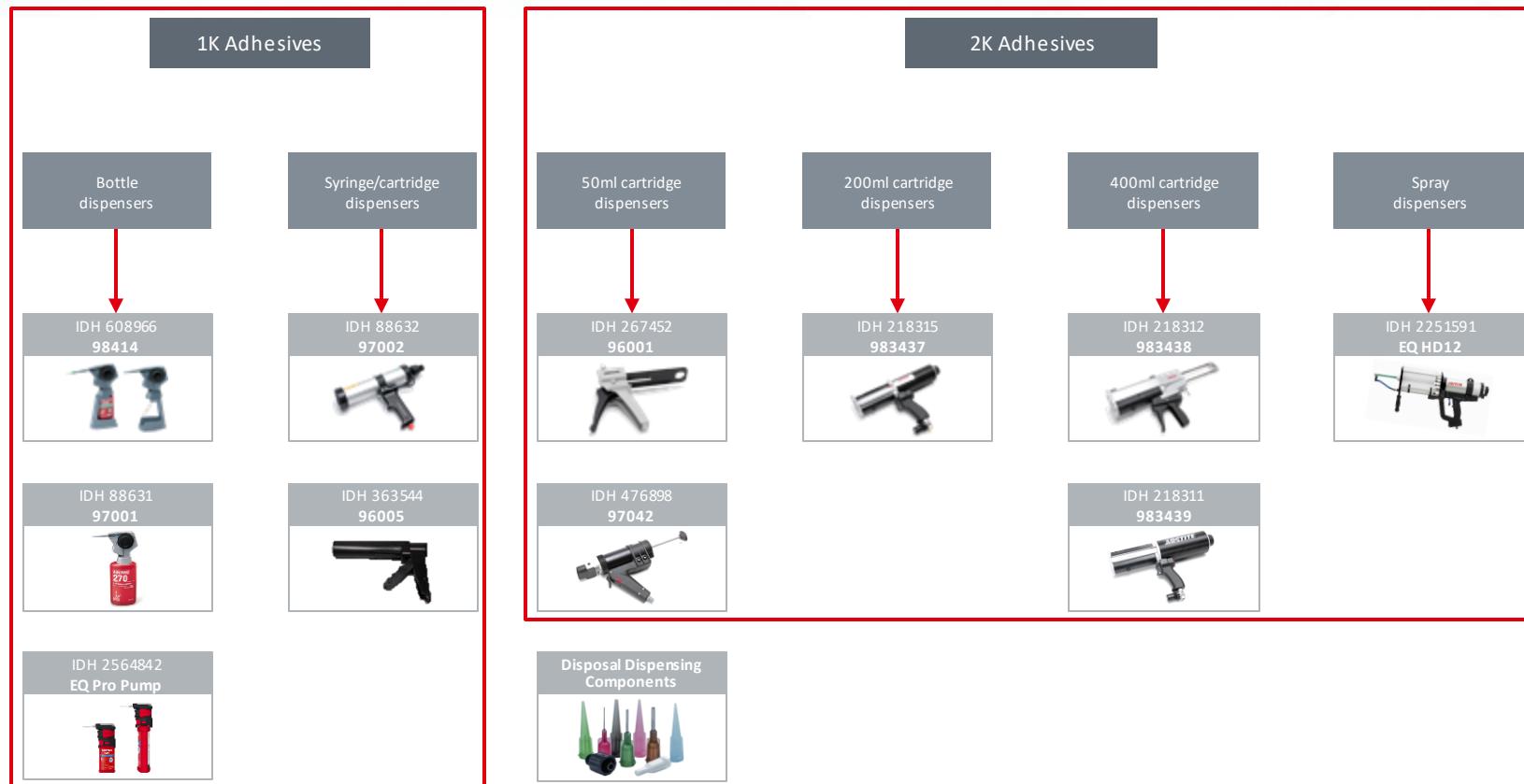
Illustration / Example	Item No.	Order No.	Pack Size	Colour	Gauge	Inner Ø, mm		
Flexible Dispensing Tips: Dispensing Needle, Polypropylene (PPF), Helical Thread								
	97229	142640	50 pcs	Amber	15	1.37		
	97230	142641	50 pcs	Green	18	0.84		
	97231	142642	50 pcs	Pink	20	0.61		
	97232	142643	50 pcs	Red	25	0.25		
Tapered Dispensing Tips: Dispensing Needle, Polyethylene – Conical (PPC), Luer-Lock								
	97221	88660	50 pcs	Grey	16	1.19		
	97222	88661	50 pcs	Green	18	0.84		
	97223	88662	50 pcs	Pink	20	0.61		
	97224	88663	50 pcs	Blue	22	0.41		
High Precision Dispensing Tips: Dispensing Needle, Stainless Steel Standard (SSS), Luer-Lock								
	97225	88664	50 pcs	Amber	15	1.37		
	97226	88665	50 pcs	Green	18	0.84		
	97227	88666	50 pcs	Pink	20	0.61		
	97228	88667	50 pcs	Red	25	0.25		
Additional Dispensing Tips and Mixer Nozzles								
	Illustration	Item No.	Order No.	Pack Size	Description			
	98741	1146079	50 pcs	Dispensing needle, stainless steel – PTFE-lined (SSTL), 25 gauge				
	97262	218288	2 each	Needle selection pack: 2 each of a variety of dispensing needles				
	K1003100	88805	50 pcs	Formable dispensing tip, 21 gauge / 0.5 mm				
	97248	218275	50 pcs	Luer-Lock® tip caps				
	97233	88672	20 + 5 pcs	Luer-Lock® adapter kit: 20 Luer-Locks® and 5 adapters				
	97207	88656	40 pcs	10 ml clear syringe barrel kit				

Illustration	Item No.	Order No.	Pack Size	Description
	97283	529462	40 pcs	10 ml amber syringe barrel kit, for UV products
	97263	218287	40 pcs	10 ml black syringe barrel kit, for UV and light cure adhesives
	97208	88657	2 pcs	10 ml syringe airfine adapter
	97244	88677	20 pcs	30 ml clear syringe barrel kit
	97264	218286	20 pcs	30 ml black syringe barrel kit, for UV and light cure adhesives
	97245	88678	2 pcs	30 ml syringe airfine adapter
	97290	397462	50 pcs	All plastic precision dispensing tip, 20 gauge
	984569	1487440	10 pcs	Static mixer for epoxy and PU in 50 ml, SQ 5.3-24
	984570	1487439	10 pcs	Static mixer for epoxy in 200 / 400 ml, SQ 7.5-24
	1034575	1034575	10 pcs	Static mixer MBX 6.5-20-S 10:1 for LOCTITE AA 3038
	8953593	1248606	10 pcs	Spray mix nozzle for LOCTITE PC 7255
	8953186	1104046	10 pcs	Static mixer 4:1 / 10:1 for 400 / 490 ml, MCX 08-18
	5289010	545996	10 pcs	Static mixer 1:1 for acrylics in 50 ml, MA 6.3-7
	98457	720174	10 pcs	Static mixer 1:1 / 2:1 in 200 / 400 ml, MC 8-24
	863585	367545	10 pcs	Static mixer 1:1 for MS polymers in 410 ml, MC 13-18
	8953187	1104047	10 pcs	Static mixer 4:1 / 10:1 in 400 / 490 ml, MCX 08-24
	8955989	1453183	10 pcs	Static mixer for LOCTITE 3090 and LOCTITE 4070, MLX 2.5-16-5
	n.a.	1826921	10 pcs	Static mixer 1:1 / 2:1 in 50 ml, MBH 3.2-16 S
	n.a.	1573153	10 pcs	Static mixer 1:1 / 2:1 in 50 ml, MBQ 5.0-24 L
	n.a.	1573135	10 pcs	Static mixer 1:1 / 2:1 in 400 ml, MFH 6.0-34 T

LOCTITE®



Hand Applicators



LOCTITE®

LOCTITE EQ Pro Handpump Dispenser

Application Field

The LOCTITE Pro Handpump Dispenser is a manual adhesive dispenser that can be used with 50ml or 250ml bottles of LOCTITE adhesives creating a complete dispensing system. This dispenser utilizes patented progressive cavity pump technology that is specifically designed to dispense LOCTITE anaerobic threadlockers and retaining compounds. The ergonomic design allows the user to deliver up to 30 mg of adhesive with a single pull of the trigger. The multi-position nozzle delivers adhesive in three different orientations, horizontal, 45° up and 45° down and can also be folded down 90° for storing. The LOCTITE Pro Handpump Dispenser provides for a clean and efficient dispensing experience.

Operation

The LOCTITE EQ Pro Handpump Dispenser is a portable, bottle-top applicator that attaches firmly onto any 50ml or 250ml anaerobic bottle. The unit will dispense single shots of LOCTITE anaerobic threadlockers and Retaining Compounds with a maximum mass of 40mg with viscosities up to 30,000 mPas. These units require no flushing, power or air source. It is designed to dispense at any angle without leaks or product waste.

Benefits

- Turns a bottle of adhesive into a dispensing system.
- Prevents spills, eliminates mess and waste.
- Provides consistent and repeatable drop size and drop placement
- Metered amount of adhesive is always ready with just a pull of the trigger.
- Small compact and light weight.



Technical Data

Dimensions	Pump: 115mm (H), 40mm (W), 115mm (D)
Items supplied	EQ Pro Handpump Dispenser

LOCTITE 98414 Peristaltic Handpump

Application Field

LOCTITE 98414 Peristaltic Handpump is a manual peristaltic, volumetric bottle-top handpump applicator. It is designed for use with Anaerobic adhesives in 50ml bottles for viscosities up to approx. 30,000 mPa · s.

Operation

The LOCTITE 50 ml bottle Handpump is a portable, precision, bottle-top applicator that attaches firmly onto any 50ml. anaerobic bottle. It includes an ergonomically balanced and resilient bottle stand that greatly reduces the tendency of bottle tipping. The unit will dispense single shots of LOCTITE anaerobic threadlockers and retaining compounds from 0.01 to 0.4 ml with viscosities up to 30,000 mPas. These units require no flushing, power or air source. It is designed to dispense at any angle without leaks or product waste.

Benefits

- Ideal for accurate drop dispensing: improves quality and reduces waste
- Mounts easily to standard 50ml anaerobic bottles
- Ensures no leakage, regardless of the orientation of the bottle
- Requires no flushing, power or air source



Technical Data	
Dimensions	Pump: 102 mm (H) x 146 mm (W) x 38 mm (D) Bottle stand: 115 mm (H) x 100 mm (W) x 58 mm (D)
Items supplied	98414 Peristaltic Handpump (50ml)

LOCTITE 97001 Peristaltic Handpump

Application Field

LOCTITE 97001 Peristaltic Handpump is a manual, peristaltic, volumetric bottle-top handpump applicator. It is designed for use with Anaerobic adhesives in 250ml bottles for viscosities up to approx. 30,000 mPas.

Operation

The LOCTITE 250ml Bottle Handpump 97001 is a portable, precision, bottle-top applicator that attaches firmly onto any 250ml anaerobic bottle. It converts the product bottle into a manual mobile dispenser. These units will dispense single shots of LOCTITE anaerobic Threadlockers and Retaining Compounds from 0.01 to 0.4 ml with viscosities up to 30,000 mPas. They require no flushing, power or air source. They are designed to dispense at any angle without leaks and eliminate waste of product.

Benefits

- Ideal for accurate drop dispensing therefore improves quality and reduces waste
- Mounts easily to standard 250ml anaerobic bottles
- Ensures no leakage, regardless of the orientation of the bottle
- Requires no flushing, power or air source



Technical Data

Dimensions	Pump: 102 mm (H) x 146 mm (W) x 38 mm (D)
Items supplied	97001 Peristaltic Handpump 250ml

LOCTITE 97002 Pneumatic Handpump

Application Field

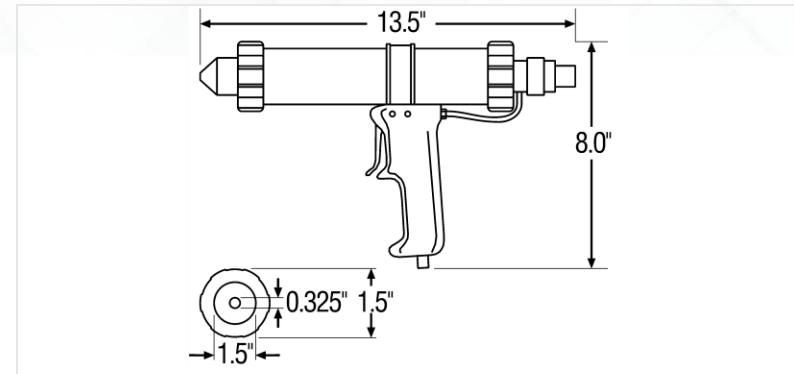
LOCTITE 97002 Pneumatic Handpump for plastic and aluminum cartridges. It is designed for LOCTITE 250 ml tubes and 300 ml cartridges.

Operation

LOCTITE Hand-held 300 ml Cartridge Dispenser is a manually controlled, pneumatically operated unit. The amount and rate is controlled by the operator.

Benefits

- Rapid-loading system to make cartridge changes clean and easy
- Ergonomically designed
- Simple and clean dispensing



Technical Data

Weight	0,800 kg
Pneumatic Quality	Filtered 10 µm, oil-free, non-condensing
Cartridge pressure	max. 8,5 bar (125 psi)
Squeeze tube pressure	max. 1,5 bar (22 psi)
Pneumatic hose size	OD 6 mm, ID 4 mm
Dimensions (WxDxH)	320 x 230 x 70 mm
Items supplied	97002 Pneumatic Handpump, Tube adaptor, Pneumatic hose

LOCTITE[®]

LOCTITE 96005 Manual Dispensing Applicator 50 ml

Application Field

The LOCTITE 96005 Manual Dispensing Applicator is designed for any product package in a standard 50 ml cartridge.

Operation

The LOCTITE Manual Dispensing Applicator for 50ml Cartridges is a hand-held, manually operated dispenser for use with any product packaged in a standard 50ml cartridge. This dispenser provides a convenient, cost-effective method to apply product.

Benefits

- Pistol configuration for ease of application
- Ergonomic design minimizes operator fatigue



Technical Data

Items supplied

96005 Manual dispensing applicator 50ml

LOCTITE[®]

LOCTITE 96001 Dual Cartridge Handpump

Application Field

The LOCTITE 96001 50 ml Dual Cartridge Applicator is a hand-held, manually operated dispenser. The dispenser provides a convenient, cost-effective method to apply product from two component cartridges. It is used for 1:1 and 2:1 mix ratio products.

Operation

The LOCTITE 96001 dual Cartridge Handgun is designed for 2K epoxy, polyurethane and hybrid products in 50ml cartridges.

Benefits

- Convenient, cost-effective method of application
- Good ergonomic features to minimize operator fatigue



Technical Data	
Weight	0,18 kg
Items supplied	96001 50ml Dual Cartridge Handpump 1:1/2:1 Plunger 10:1 (extended) Plunger to suit Loctite 4070 x 50ml

LOCTITE 97042 Pneumatic Dual Cartridge Handpump

Application Field

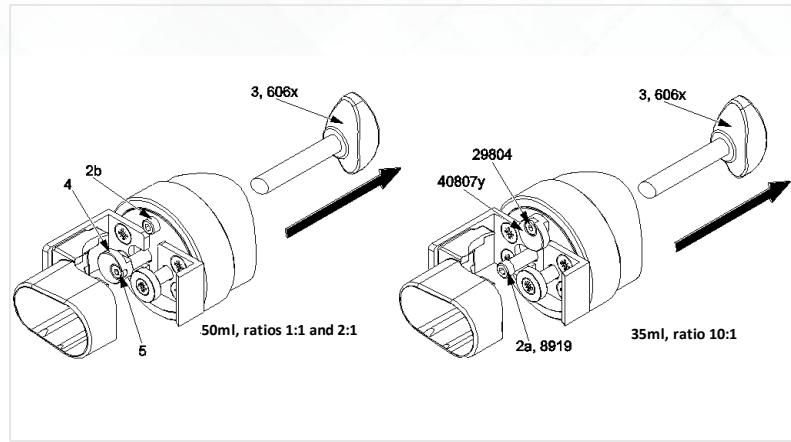
The LOCTITE 97042 Pneumatic Dual Cartridge Handpump is designed for 2K epoxy, polyurethane and hybrid products in 50ml dual cartridges.

Operation

The LOCTITE 50 ml Dual Cartridge Applicator is a hand-held, pneumatically driven meter-mix dispenser. It provides a convenient, cost-effective method for applying product with minimal waste. The adjustable dispense rate is set via the integral air pressure regulator (range 1-5 recommended). The applicator is capable for 1:1 and 1:2 mix ratio products and can easily be modified for 35 ml 10:1 mix ratio products. Mix nozzles are sold separately.

Benefits

- Lightweight and ergonomic design for easy use
- Integrated air pressure regulator
- Convenient 8-position thumb wheel pressure adjustment to control the dispense rate



Technical Data	
Dimensions	292 mm (L) x 191 mm (H) x 58 mm (D)
Weight	0,725 kg
Pneumatic Supply	Minimum: 4.8 bar (30 psi) Maximum: 8 bar (125 psi)
Items supplied	97042 Pneumatic Dual cartridge handpump 50ml

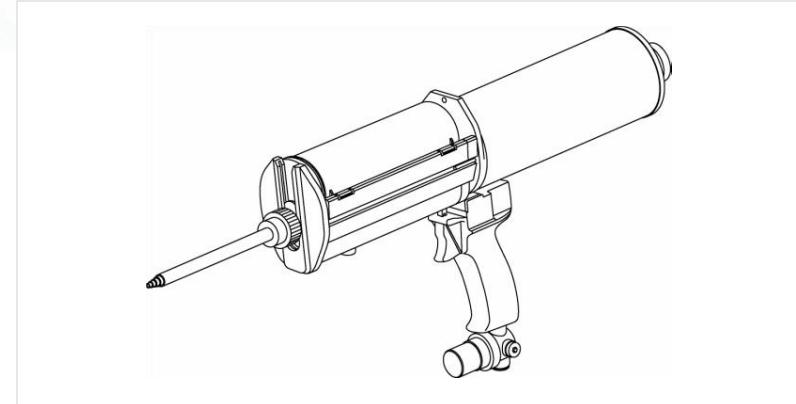
LOCTITE 983437 200 ml Dual Cartridge Manual Applicator

Application Field

The LOCTITE 983437 200 ml Dual Cartridge Manual Applicator has been developed for mixing and applying 2-component adhesives of various adhesive chemistries.

Operation

The LOCTITE 200 ml Dual Cartridge Pneumatic Manual Applicator is a hand-held, manually operated meter-mix dispenser. These dispensers provide a convenient, cost-effective method to apply product with minimal waste. The dispensers are compatible with 1:1 and 1:2 mix ratio products.



Technical Data

Weight	1.6 kg
Compressed Air Supply	Max. 8 bar (max. 120 psi)
Air Requirements	ISO 8573-1.2.4.2
Operating Pressure	Max. 6 bar (max. 87 psi)
Pressure Adjustment	Variable 0 – 6 bar (87 psi)
Sound Level	83 dBA
Items supplied	983437 Pneumatic Dual Cartridge Handpump 200ml

LOCTITE[®]

LOCTITE 983438 Manual Dual Cartridge Handpump

Application Field

The LOCTITE 983438 Manual Dual Cartridge Handpump is designed for 2K epoxy and silane modified polymer (SMPs) products in 400ml cartridges.

Operation

The 983438 400 ml Dual Cartridge Manual Applicator is a hand-held, manually operated meter-mix dispenser. These dispensers provide a convenient, cost-effective method to apply product with minimal waste. The dispensers are compatible with 1:1 and 1:2 mix ratio products.

Benefits

- Convenient, cost-effective method of application
- Conversion kit is available to convert this applicator to 4:1



Technical Data

Weight	2.10 kg
Items supplied	983438 Manual Dual cartridge Handpump 400ml

LOCTITE 983439 Pneumatic Dual Cartridge Handpump

Application Field

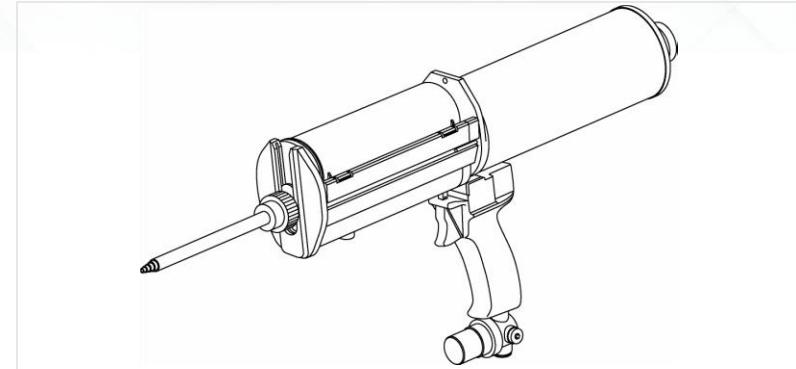
The LOCTITE 983439 Pneumatic Dual Cartridge Handgun is designed for 2K epoxy, silane modified polymer (SMPs) and hybrid products in 400ml cartridges.

Operation

The 983439 400 ml Dual Cartridge Pneumatic Manual Applicator is a hand-held, manually operated meter-mix dispenser. These dispensers provide a convenient, cost-effective method to apply product with minimal waste. The dispensers are compatible with 1:1 and 1:2 mix ratio products.

Benefits

- Convenient, cost-effective method to apply product and eliminates hand fatigue
- Integrated air pressure regulator for precise flow control
- Conversion kit is available to convert this applicator to 4:1 or 10:1



Technical Data

Weight	2.2 kg
Sound Level	83 dBA
Operating Pressure	Maximum 6 bar (87 psi)
Compressed Air Supply	Maximum 8 bar (120 psi)
Pressure Adjustment	Variable 0 – 6 bar (87 psi)
Items supplied	983439 Pneumatic Dual Cartridge Handpump 400ml

LOCTITE[®]

LOCTITE EQ HD12 Pneumatic Spray Dispenser

Application Field

The LOCTITE HD12 Pneumatic Spray Dispenser is suitable for spraying LOCTITE 7255 packaged in 900 ml Dual Cartridges. It is designed for 2:1 mix ratio.

Operation

The LOCTITE HD12 Pneumatic Spray Dispenser includes Heavy duty dual cartridge handgun for 600+300 ml side-by-side dual cartridge with Spray adapter, pressure regulator, gauge, on/off-valve and air hose.

Benefits

- Control pressure separately adjustable for advancing cylinder and atomizing air
- A handle valve is provided for turning the atomizing air supply to the spray nozzle on and off



Technical Data

Weight	3.6 kg
Pneumatic Supply	Min. 6 bar, max. 8 bar
Supply Air Cartridge	
Pusher	Min. 6 bar, typically full throttle
Spray Air Supply	Typ. 1 – 2 bar
Material of Handgun	Mild Steel
Rise Time to generate full Product Pressure	0.01 s
Range of Viscosity	Up to 5000 mPas, preheating to min 35°C
Max. Thrust	5.25 kN at 6.8 bar operating pressure

Dispense Needles, Mixers and Accessories

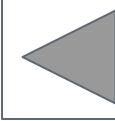


Illustration / Example	Item No.	Order No.	Pack Size	Colour	Gauge	Inner Ø, mm		
Flexible Dispensing Tips: Dispensing Needle, Polypropylene (PPF), Helical Thread								
	97229	142640	50 pcs	Amber	15	1.37		
	97230	142641	50 pcs	Green	18	0.84		
	97231	142642	50 pcs	Pink	20	0.61		
	97232	142643	50 pcs	Red	25	0.25		
Tapered Dispensing Tips: Dispensing Needle, Polyethylene – Conical (PPC), Luer-Lock								
	97221	88660	50 pcs	Grey	16	1.19		
	97222	88661	50 pcs	Green	18	0.84		
	97223	88662	50 pcs	Pink	20	0.61		
	97224	88663	50 pcs	Blue	22	0.41		
High Precision Dispensing Tips: Dispensing Needle, Stainless Steel Standard (SSS), Luer-Lock								
	97225	88664	50 pcs	Amber	15	1.37		
	97226	88665	50 pcs	Green	18	0.84		
	97227	88666	50 pcs	Pink	20	0.61		
	97228	88667	50 pcs	Red	25	0.25		
Additional Dispensing Tips and Mixer Nozzles								
	Illustration	Item No.	Order No.	Pack Size	Description			
	98741	1146079	50 pcs	Dispensing needle, stainless steel – PTFE-lined (SSTL), 25 gauge				
	97262	218288	2 each	Needle selection pack: 2 each of a variety of dispensing needles				
	K1003100	88805	50 pcs	Formable dispensing tip, 21 gauge / 0.5 mm				
	97248	218275	50 pcs	Luer-Lock® tip caps				
	97233	88672	20 + 5 pcs	Luer-Lock® adapter kit: 20 Luer-Locks® and 5 adapters				
	97207	88656	40 pcs	10 ml clear syringe barrel kit				

Illustration	Item No.	Order No.	Pack Size	Description
	97283	529462	40 pcs	10 ml amber syringe barrel kit, for UV products
	97263	218287	40 pcs	10 ml black syringe barrel kit, for UV and light cure adhesives
	97208	88657	2 pcs	10 ml syringe airfine adapter
	97244	88677	20 pcs	30 ml clear syringe barrel kit
	97264	218286	20 pcs	30 ml black syringe barrel kit, for UV and light cure adhesives
	97245	88678	2 pcs	30 ml syringe airfine adapter
	97290	397462	50 pcs	All plastic precision dispensing tip, 20 gauge
	984569	1487440	10 pcs	Static mixer for epoxy and PU in 50 ml, SQ 5.3-24
	984570	1487439	10 pcs	Static mixer for epoxy in 200 / 400 ml, SQ 7.5-24
	1034575	1034575	10 pcs	Static mixer MBX 6.5-20-S 10:1 for LOCTITE AA 3038
	8953593	1248606	10 pcs	Spray mix nozzle for LOCTITE PC 7255
	8953186	1104046	10 pcs	Static mixer 4:1 / 10:1 for 400 / 490 ml, MCX 08-18
	5289010	545996	10 pcs	Static mixer 1:1 for acrylics in 50 ml, MA 6.3-7
	98457	720174	10 pcs	Static mixer 1:1 / 2:1 in 200 / 400 ml, MC 8-24
	863585	367545	10 pcs	Static mixer 1:1 for MS polymers in 410 ml, MC 13-18
	8953187	1104047	10 pcs	Static mixer 4:1 / 10:1 in 400 / 490 ml, MCX 08-24
	8955989	1453183	10 pcs	Static mixer for LOCTITE 3090 and LOCTITE 4070, MLX 2.5-16-5
	n.a.	1826921	10 pcs	Static mixer 1:1 / 2:1 in 50 ml, MBH 3.2-16 S
	n.a.	1573153	10 pcs	Static mixer 1:1 / 2:1 in 50 ml, MBQ 5.0-24 L
	n.a.	1573135	10 pcs	Static mixer 1:1 / 2:1 in 400 ml, MFH 6.0-34 T

LOCTITE®



Benchtop Robots

IDH 2104801
LOCTITE EQ RB40 200D
Benchtop Robot



IDH 2104799
LOCTITE EQ RB40 300D
Benchtop Robot



IDH 2104795
LOCTITE EQ RB40 400D
Benchtop Robot



IDH 2103369
LOCTITE EQ RB40 500D
Benchtop Robot



LOCTITE®

LOCTITE EQ RB40 200D Benchtop Robot

Application Field

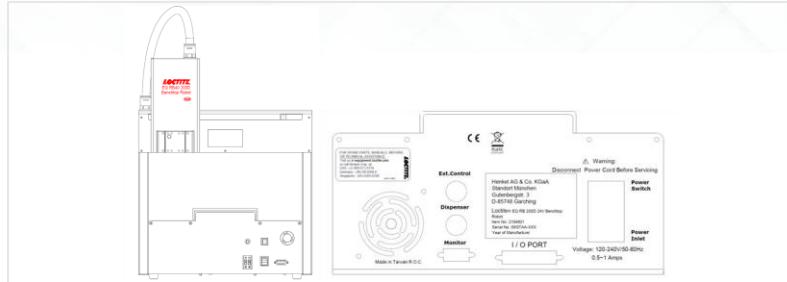
The LOCTITE EQ RB40 200D Benchtop Robot is designed for adhesive dispensing.

Operation

The LOCTITE 200 D-Series Dispensing Robot has a 200 x 200 x 50 mm range of operation (X,Y,Z) and has features and accessories that are custom tailored for adhesive dispensing processes. The range of operation is 200 mm by 200 mm by 50 mm (X-Y-Z). This unit is fully compliant with RIA (Robotic Industry Association) safety guidelines. Programming accessories, dispensing equipment, integration cables and mounting hardware are sold separately. This low-cost benchtop robot has 3-axis control and 120 VAC or 220 VAC operation with a 24 VDC output signal.

Benefits

- Independent dispense on/off purge control button on front panel allows adhesive to be purged from a dispense valve to prevent curing or for aiding initial set-up
- No special programming required
- Teach Pendant program storage capabilities allows dispense program to be easily transferred from Robot to Robot
- 100 programs, 4,000 points memory per program compact flash card
- Auto-switching power supply 95-132 VAC or 180-250 VAC
- Easily integrates with the LOCTITE Needle Calibration Kit (#1569523) for precise dispense tip location
- Over-speed error indicator prevents Robot from traveling too fast during the execution of the program
- Teach Pendant IDH 2268727 to be ordered separately



Technical Data

Dimensions	350mm (W) x 330 mm (D) x 490 mm (H)
Weight	18.0 kg
Nr of controllable Axis	3
Range of Operation	X axis: 200 mm, Y axis: 200 mm, Z axis: 50 mm
Portable Weight	Work Surface: 3.0 kg, Tool Head: 2.0kg
Maximum Speed	PTP (X,Y): 400 mm/s, PTP (Z): 200 mm/s
Repeatability Accuracy	X, Y, Z axis, +/- 0.04 mm, 3 Sigma
CPU	32 bit
Display	Teach Pendant LCD
I/O Signals	8 inputs, 8 outputs
Working Environment	Temperature: 0 °C- 40 °C, Humidity: 20-90 % RH
Items supplied	EQ RB40 200D Benchtop robot, Syringe holder, external shorted connector, dispensing cable, mounting screw for syringe holder, power cord, USB memory stick

LOCTITE EQ RB40 300D Benchtop Robot

Application Field

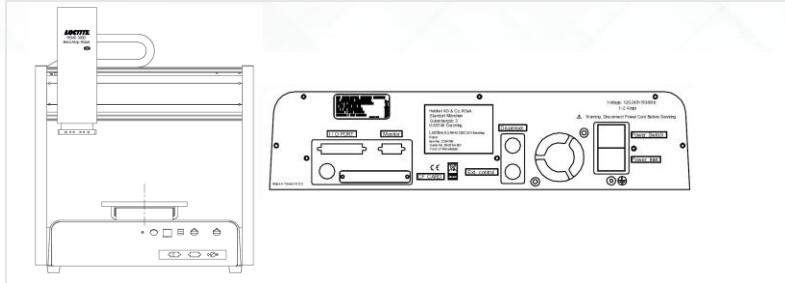
The LOCTITE EQ RB40 300D Benchtop Robot is designed for adhesive dispensing

Operation

The LOCTITE 300 D-Series Dispensing Robot has a 300 x 300 x 100 mm range of operation (X, Y, Z) and has features and accessories that are custom tailored for adhesive dispensing processes. This low-cost benchtop robot has 3-axis control and 120 VAC or 220 VAC operation with a 24 VDC output signal. This unit is fully compliant with RIA (Robotic Industry Association) safety guidelines. Programming accessories, dispensing equipment, integration cables and mounting hardware are sold separately.

Benefits

- Independent dispense on/off purge control button on front panel allows adhesive to be purged from a dispense valve to prevent curing or for aiding initial set-up
- No special programming required
- Teach Pendant program storage capabilities allows dispense program to be easily transferred from Robot to Robot
- 100 programs, 4,000 points memory per program compact flash card
- Auto-switching power supply 95-132 VAC or 180-250 VAC
- Easily integrates with the LOCTITE Needle Calibration Kit (#1569523) for precise dispense tip location
- Over-speed error indicator prevents Robot from traveling too fast during the execution of the program
- Teach Pendant IDH 2268727 to be ordered separately



Technical Data	
Dimensions	485mm (W) x 500 mm (D) x 591 mm (H)
Weight	32.0 kg
Nr of controllable Axis	3
Range of Operation	X axis: 300 mm, Y axis: 300 mm, Z axis: 100 mm
Portable Weight	Work Surface: 10.0 kg, Tool Head: 5.0kg
Maximum Speed	PTP (X,Y): 600 mm/s, PTP (Z): 320 mm/s
Repeatability Accuracy	X, Y, Z axis, +/- 0.01 mm, 3 Sigma
CPU	32 bit
Display	Teach Pendant LCD
I/O Signals	8 inputs, 8 outputs
Working Environment	Temperature: 0 °C- 40 °C, Humidity: 20-90 % RH
Items supplied	EQ RB40 300D Benchtop robot, Syringe holder, external shorted connector, dispensing cable, mounting screw for syringe holder, power cord, USB memory stick

LOCTITE EQ RB40 400D Benchtop Robot

Application Field

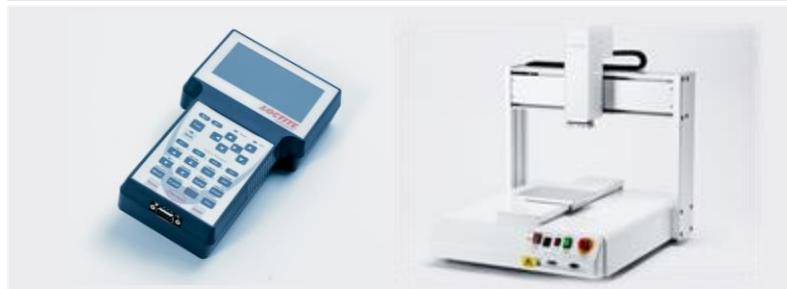
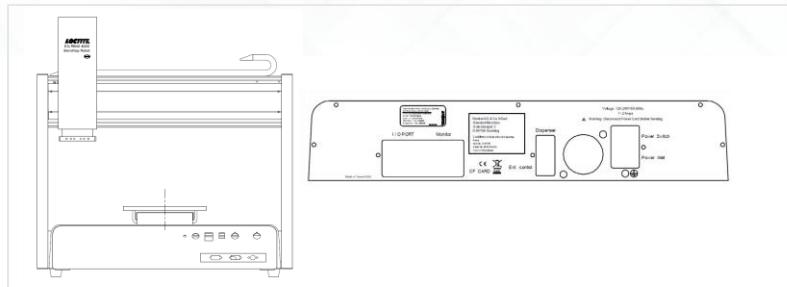
The LOCTITE EQ RB40 400D Benchtop Robot is designed for adhesive dispensing

Operation

The LOCTITE 400 D-Series Dispensing Robot has a 400 x 400 x 100 mm range of operation (X,Y,Z) and has features and accessories that are custom tailored for adhesive dispensing processes. This low-cost benchtop robot has 3-axis control and 120 VAC or 220 VAC operation with a 24 VDC output signal. This unit is fully compliant with RIA (Robotic Industry Association) safety guidelines. Programming accessories, dispensing equipment, integration cables and mounting hardware are sold separately.

Benefits

- Independent dispense on/off purge control button on front panel allows adhesive to be purged from a dispense valve to prevent curing or for aiding initial set-up
- No special programming required
- Teach Pendant program storage capabilities allows dispense program to be easily transferred from Robot to Robot
- 100 programs, 4,000 points memory per program compact flash card
- Auto-switching power supply 95-132 VAC or 180-250 VAC
- Easily integrates with the LOCTITE Needle Calibration Kit (#1569523) for precise dispense tip location
- Over-speed error indicator prevents Robot from traveling too fast during the execution of the program
- Teach Pendant IDH 2268727 to be ordered separately



Technical Data	
Dimensions	585mm (W) x 600 mm (D) x 597 mm (H)
Weight	40.0 kg
Nr of controllable Axis	3
Range of Operation	X axis: 400 mm, Y axis: 400 mm, Z axis: 100 mm
Portable Weight	Work Surface: 10.0 kg, Tool Head: 5.0kg
Maximum Speed	PTP (X,Y): 600 mm/s, PTP (Z): 320 mm/s
Repeatability Accuracy	X, Y, Z axis, +/- 0.01 mm, 3 Sigma
CPU	32 bit
Display	Teach Pendant LCD
I/O Signals	8 inputs, 8 outputs
Working Environment	Temperature: 0 °C- 40 °C, Humidity: 20-90 % RH
Items supplied	EQ RB40 400D Benchtop robot, Syringe holder, external shorted connector, dispensing cable, mounting screw for syringe holder, power cord, USB memory stick

LOCTITE EQ RB40 500D Benchtop Robot



Application Field

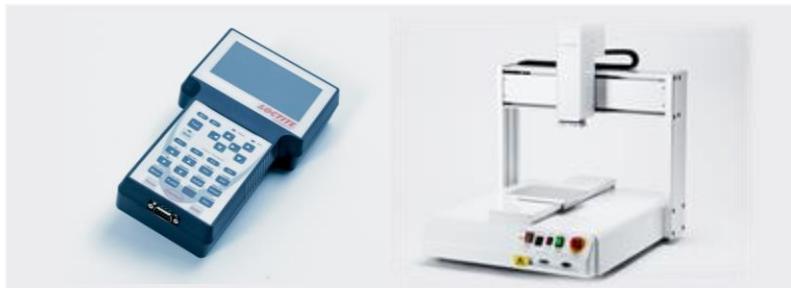
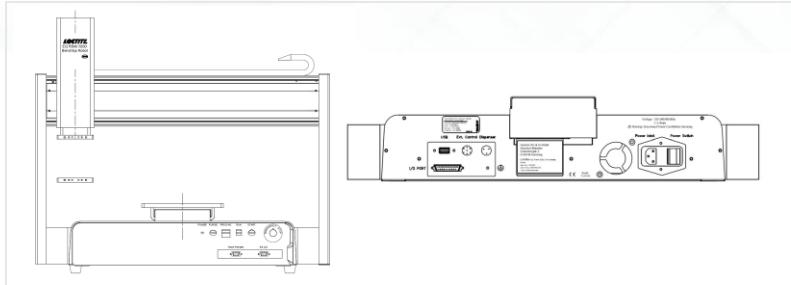
The LOCTITE EQ RB40 500D Benchtop Robot is designed for adhesive dispensing

Operation

The LOCTITE EQ RB20 500 D-Series Dual Dispensing Robot is a low-cost benchtop robot with 3-axis control with features and accessories that are custom tailored for adhesive dispensing processes. This Robot is identical to the existing LOCTITE 500D robot, except it has two independent working tables on the Y-axis creating an operating range for two parts at 250 x 500 x 100 mm (X,Y,Z). It operates at 120 VAC or 220 VAC with a 24 VDC output signal.

Benefits

- Independent dispense on/off purge control button on front panel allows adhesive to be purged from a dispense valve to prevent curing or for aiding initial set-up
- No special programming required
- Teach Pendant program storage capabilities allows dispense program to be easily transferred from Robot to Robot
- 100 programs, 4,000 points memory per program compact flash card
- Auto-switching power supply 95-132 VAC or 180-250 VAC
- Easily integrates with the LOCTITE Needle Calibration Kit (#1569523) for precise dispense tip location
- Over-speed error indicator prevents Robot from traveling too fast during the execution of the program
- Teach Pendant IDH 2268727 to be ordered separately

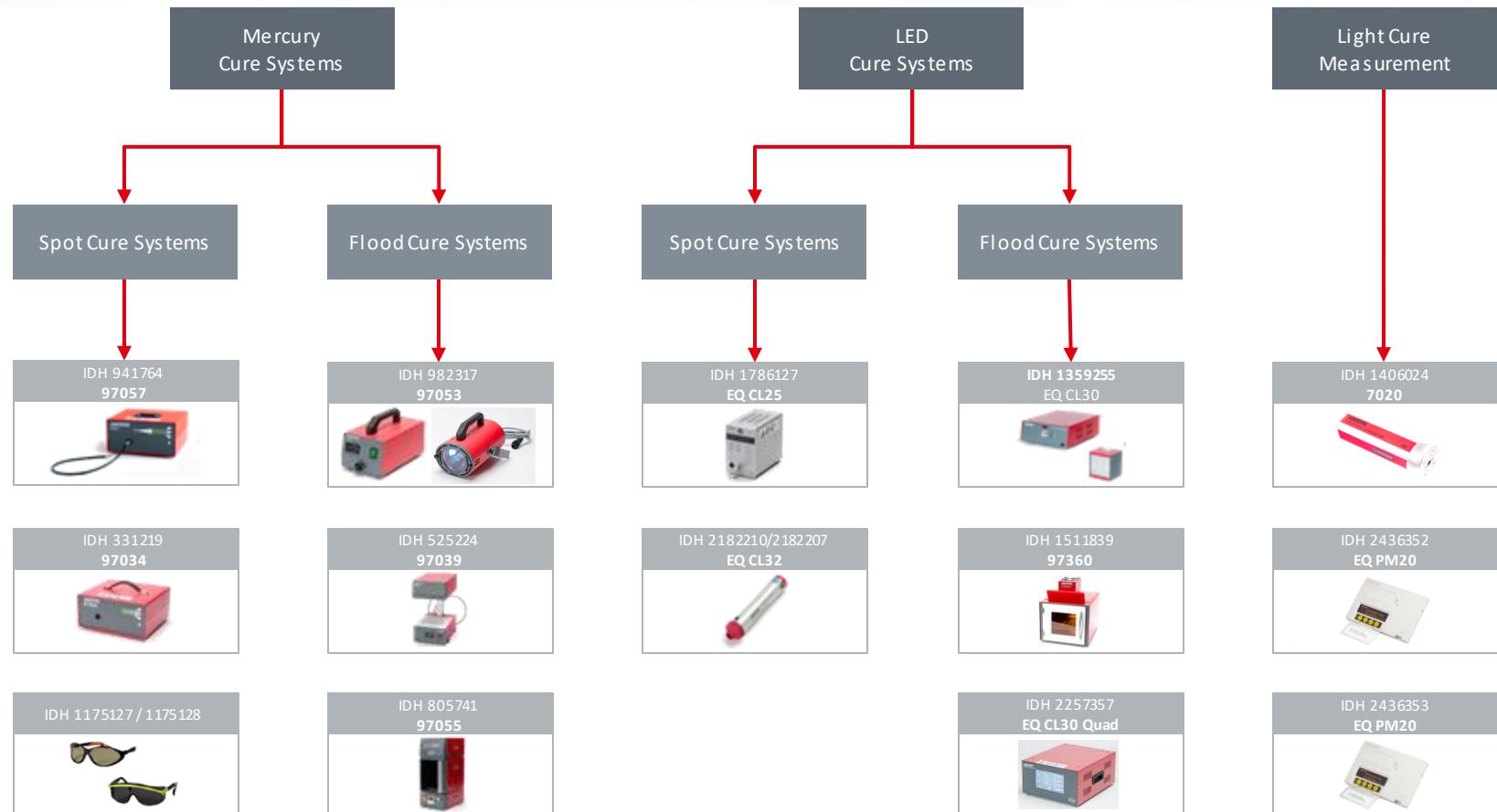


Technical Data

Dimensions	685mm (W) x 715 mm (D) x 670 mm (H)
Weight	70.0 kg
Nr of controllable Axis	3
Range of Operation	X axis: 500 mm, Y axis: 500 mm, Z axis: 100 mm
Portable Weight	Work Surface: 10.0 kg, Tool Head: 5.0kg
Maximum Speed	PTP (X,Y): 600 mm/s, PTP (Z): 300 mm/s
Repeatability Accuracy	X, Y, Z axis, +/- 0.01 mm, 3 Sigma
CPU	32 bit
Display	Teach Pendant LCD
I/O Signals	8 inputs, 8 outputs
Working Environment	Temperature: 10 °C - 40 °C, Humidity: 20-90 % RH
Items supplied	EQ RB40 500D Benchtop robot, Syringe holder, external shorted connector, dispensing cable, mounting screw for syringe holder, power cord, USB memory stick



Light Cure Equipment



LOCTITE®

LOCTITE EQ CL32 LED Spot 365nm / 405 nm

Application Field

The EQ CL32 LED Spot is designed for use with light cure products that cure when exposed to ultraviolet and/or visible light.

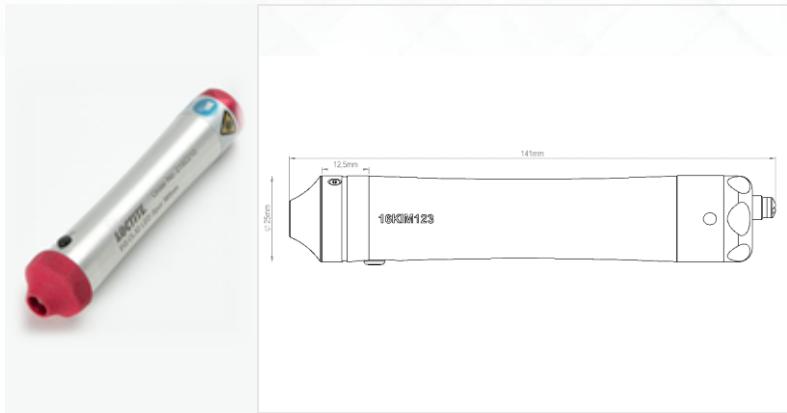
Operation

The LOCTITE EQ CL32 LED Spot is a high powered, portable LED light source capable of consistently curing light cure products that respond to UV/visible light. This system is offered in both 365 nm and 405 nm wavelengths and can be used in either hand-held or stationary applications. Due to its unique LED technology, the EQ CL32 LED Spot provides instant on/off performance and consistent light output. The system's focused spectral output significantly reduces IR emission, resulting in minimal heat exposure to parts and assemblies. This focused output also minimizes the amount of ultraviolet energy that the system irradiates, significantly reducing UV exposure risk. The EQ CL32 LED Spot can be run on rechargeable batteries or while connected to a wall plug adapter, allowing for operation as either a portable unit or mounted unit with remote on/off capability. Due to its small size, light weight and portability, EQ CL32 is perfect for applications in confined areas and hard to reach joints.

Benefits

Handheld and stationary unit in one device.

- Robust aluminum housing.
- Ergonomic finger switch.
- Rechargeable using mini-USB adapter..
- Long focus length to allow for maximum flexibility.
- 100 % Duty Cycle when operated by wall power (stationary mount)



Technical Data	
Dimensions	139 mm (L) x max. 30.3 mm (Dia.)
Weight	0.11 kg
Operating Time	Cordless: up to 3 h; permanently Powered: limited by safety features
Battery	Li-Ion, 3.6 V, 2250 mAh, 8.1 Wh, exchangeable by LOCTITE service
Charging Time	< 4.0 h
Length USB Cable	Max. 2 m
UV DATA	
365 nm Wavelength	365 nm
Output	Min 2.6 W/cm ² at 10 mm distance
Irradiation Area	5 mm (rounded square shaped)
Homogeneity of Irradiation Area	± 50% within specified field
LED Lifetime	>6000 h @ 80 % emission
405 nm Wavelength	405 nm
Output	Min. 3.0 W / cm ² at 10 mm distance
Irradiation Area	5 mm (rounded square shaped)
Homogeneity of Irradiation Area	± 50% within specified field
LED Lifetime	6000 h @ 80 % emission
Items supplied	EQ CL32 LED Spot, AC adaptor/Charger USB, USB-A to mini USB cable (length 1.8m, Tip Guard rubber, Operating Manual)

LOCTITE EQ CL25 LED Spot Cure Controller

Application Field

The LOCTITE EQ CL25 Spot Cure Controller is designed for 365nm and 405nm curing products dependent on the LED head selected. It is a specially developed high-power radiation system for curing Loctite UV adhesives and coatings.

Operation

The LOCTITE UV LED Curing System EQ CL25 offers the possibility of controlling up to four LED heads. Programming of each head (channel) with 7 dispensing programs, each containing up to 10 steps is available via PC connection. Within the programs the value of intensity and time can be adjusted and changed for each step. To check the irradiation output of the LED head an optional UV power meter is available. The power meter has to be ordered separately. The intensity of each LED head can be calibrated and monitored. If the level is below of an adjusted value an error message is available at the output interface. To configure a complete system accessories must be ordered separately. These include LED Heads, lenses, connector cables and the UV power meter.

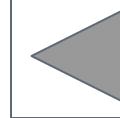
Benefits

- Long lifetime LED
- Low cost of ownership
- No heat load to curing area
- High intensity output
- Compact size



Controller		IDH# 1786127	
Available Lenses	3 mm  IDH# 1305335	6 mm  IDH# 1305333	10 mm  IDH# 1305332
Available Connection Cables	1.7 m  IDH# 1305339	3 m  IDH# 1984961	10 m  IDH# 1305337
LED Heads	365 nm  IDH# 1984957	365 nm  IDH# 1984949	405 nm  IDH# 2104788
Option Foot Switch		IDH# 88653	
Option UV Power Meter		IDH# 1523721	

Technical Data	
Dimensions Controller	80 mm (W) x 127 mm (H) x 140 mm (D)
Weight	1.3 kg
Power Supply (external Adapter)	100 to 240 V AC ($\pm 10\%$), 50/60 Hz
Power Consumption	Max. 60 VA
Connectable LED Heads	1 to 4
Connectable UV Sensor	1
Items supplied	EQ CL25 LED Spot Cure Controller, AC Power adaptor, Adaptor cord to Footswitch, Connection cord to PC, Operating Manual, Software on CD

LOCTITE EQ CL30 Flood Cure System

Application Field

The LOCTITE EQ CL30 Flood Cure System is designed for UVA, and UVV curing products.

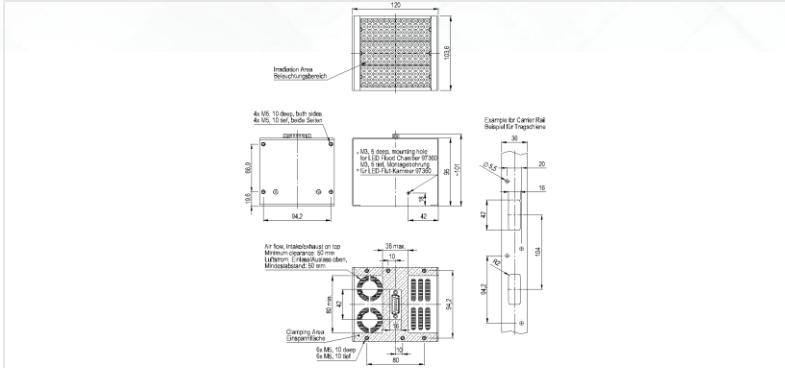
Operation

The LOCTITE CL30 LED Flood System is a high intensity flood system specially designed for curing LOCTITE UV and Visible Light Cure adhesives. The modular configuration consists of an LED head with connection cable and controller (ordered separately). The system is offered in either 365, 380, or 405 nm wavelengths. Each CL30 head is equipped with 144 high power LED's and integrated reflectors, providing uniform curing across a wide area (100 mm x 100 mm). The heads can also be stacked side by side in two directions further expanding the curing area for maximum flexibility. The expected lifetime of the LED's is more than 20.000 hours under normal operating conditions. The CL30 system is compatible with manual workstations as well as automated production lines.

Benefits

Lasts up to 10 times longer than traditional arc lamps

- 100% of the emitted light is within the range of the curing spectra of the adhesive (when compared to Mercury vapor arc lamps)
- Energy efficient, LEDs produce little wasted energy
- Each LED head has been optimized for its specific wavelength (365 nm, 380 nm, 405 nm)
- Air cooling system maintenance free



Technical Data	
Weight	1.5 kg
Recommended Working Distance	25 – 75 mm
Peak Intensity (Distance 50 mm)	>800 mW/cm ² for 365 nm >1250 mW/cm ² for 380 nm >1500 mW/cm ² for 405 nm
Wavelength	365, 380 or 405 nm
Continuous Noise Level	< 70 dB(A)
System Components IDH #	
LED Flood Controller 97104/1359255	EQ CL30 LED Flood Head 380 nm / 2139181
EQ CL30 LED Flood Head 365 nm / 2139182	EQ CL30 LED Flood Head 405 nm / 2139180

LOCTITE EQ CL30 LED Flood System Quad Controller

Application Field

The LOCTITE EQ CL30 LED Flood System Quad Controller is designed for UVA, and UVV curing products.

Operation

This LOCTITE LED Flood Quad Controller supplies power and control for up to four (4) LOCTITE LED Flood Arrays.

Choose from wavelength (the LED Flood Array wavelength is selected according to the curing requirements of the adhesive):

365 nm, item #2139182

380 nm, item #2139181

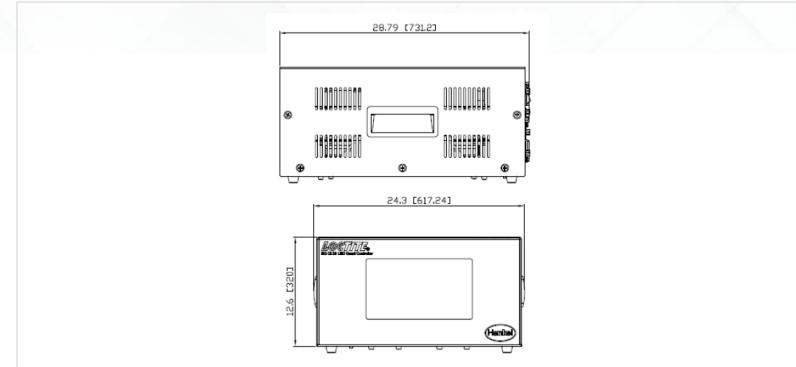
405 nm, item #2139180

Product Features

- Capacity for up to four UV LED heads
- Intensity adjustment for each channel
- Works with Loctite CL30 LED Flood heads
- Touch screen HMI
- 3 running modes: Timer, Level and Advance
- 3 languages: English, German and Chinese
- Environmentally friendly

Benefits

- Touch screen operation panel, easy to use
- Energy efficient, LEDs produce little wasted energy
- Friendly user interface
- Increased productivity, maintenance free
- Lower cost of ownership
- Less energy required, lower operating cost
- Easy integration



Technical Data

Weight	14 kg
Dimensions (L x H x W)	600 x 340 x 733.2 mm
Operating voltage	110~240 VAC 50/60Hz
Power consumption	1500 Watts
Wavelength	365, 380 or 405 nm

System Components IDH

EQ CL30 LED Flood Quad Controller / 2257357	EQ CL30 LED Flood Head 380 nm / 2139181
EQ CL30 LED Flood Head 365 nm / 2139182	EQ CL30 LED Flood Head 405 nm / 2139180

LOCTITE

LOCTITE 97360 LED Flood Chamber

Application Field

The LOCTITE 97360 Flood Chamber is designed for the use with the EQ CL30 Flood Systems.

Operation

The LOCTITE 97360 LED Flood Chamber has been designed especially for the use with the LED Flood systems. It consists out of a chamber with adapter for one or two LED heads, work piece holder, door locking and ESD safe door with window. The Flood systems are started automatically on closing of the door which remains locked for the duration of the curing cycle. The chamber system is meant for use at manual working places. The inside of the chamber is made out of polished stainless steel to maximize use of reflected light within the enclosure.

Benefits

- Provides fully interlocked guarding of LED Flood systems for operator safety



Technical Data

Dimensions	310 mm (W) x 300 mm (H) x 365 mm (D)
Weight	3.5 kg
Power Supply	230 V AC, 50 Hz
Power Consumption	approx. 10 W
Internal Control Voltage	24 V DC
Radiation Area	100 (or 200) mm (W) x 100 mm (D)
Items supplied	97360 LED Flood Chamber, 2 x Connector cable (LED Head), 2 x Connector cable (Controller), Adaptor plate (to suit 2 LED Flood arrays), Adaptor plate (to suit 1 LED Flood array), Power cable, Operating Manual

The LOCTITE logo, featuring the word "LOCTITE" in a bold, red, sans-serif font with a registered trademark symbol.

LOCTITE 97053 UV Hand Lamp 250W

Application Field

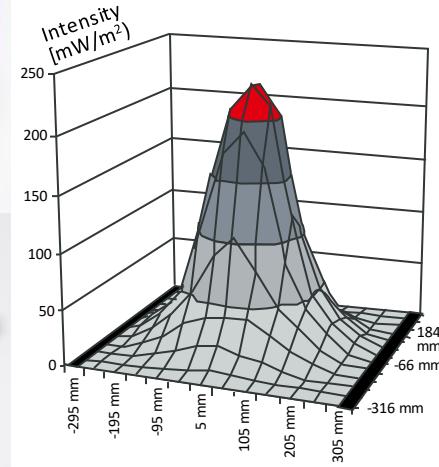
The LOCTITE 97053 UV hand lamp 250W has been designed exclusively for curing LOCTITE UV adhesives or coatings.

Operation

The UV Hand Lamp 250W is a mobile lamp system for curing UV adhesive. It is used for curing larger components where a portable curing device is required. The Dichroic reflector reflects only UVA and a small amount of visible light. The IR radiation can pass through and the resulting heat is sucked out of the lamp by a fan. Radiation spectrum and performance provided by the lamp are especially matched to the requirements of LOCTITE UV A curing adhesives and coating materials. Exposure time has to be determined by testing to ensure precise results. As with all UV lamps of this type, the intensity of light will decline with time as the electrodes deteriorate and burnt tungsten is deposited on the lamp housing.

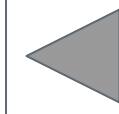


UVA Intensity of the MH Bulb at a Distance of 300 mm



Technical Data

Dimensions	121 mm (H) x 146 mm (W) x 230 mm (D) 120 mm (H) x 150 mm (W) x 260 mm (D)
▪ Hand Lamp	
▪ Controller	
Weight	2.0 kg
▪ Lamp Part	4.0 kg
▪ Controller	
Power Supply	230 VAC +/-10 %, 50 Hz
Power Consumption	250 W
Fuse	6.3 AT, 5 x 20
Items supplied	97053 UV Hand Lamp (including lamp and power supply) Power cord Safety glasses Safety gloves Operating Manual



LOCTITE 97039 UVALOC 400

Application Field

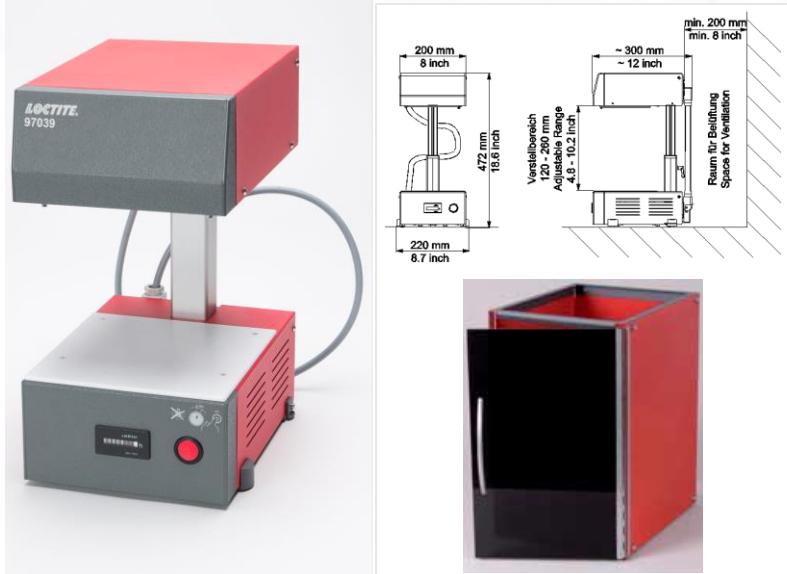
The LOCTITE 97039 UVALOC 400 System is designed for UVA and visible light curing of Loctite UV products.

Operation

The LOCTITE 97039 UVALOC System is a UVA lamp system for curing UV adhesives. Exposure times must be controlled with an external timer to ensure precise repeatability of curing results. UV lamps also emit heat energy that is usually insignificant, however, if heat sensitive parts are being processed, a sample part should be tested by exposing it to a cure cycle. It may be necessary to move the part away from the lamp and increase the cure time. The UV power should be monitored regularly using a radiometer. Measurements should be made using the same type of radiometer and preferably the exact same instrument, if possible. Super pressure mercury vapor lamps provide maximum UVA intensity. Manufacturers typically specify a $\pm 10\%$ tolerance for radiation output of these lamps.

Benefits

- Simple robust UV-curing station
- Emission spectrum matching wide range of LOCTITE UV-curing adhesives
- Provides basic operator's safety due to heat resistant filter glass
- Adjustable stand for easy adaptation to parts to be bonded
- Integrated hour-meter for bulb life monitoring
- Improved reflector design to boost the intensity and to limit the radiation



Technical Data

Dimensions	220 mm (W) x 472 mm (H) x ~ 300 mm (D)	
Weight	11.5 kg	
Power Supply	230 V AC, 50 Hz	
Power Consumption	Approx. 460 W	
Power Protection	2 x 5 A, time-lag	
Warm-up Time of UV Lamp	3 min	
Lamp Type	400 W high pressure metal vapor bulb, double sided plug-type socket	
Lamp Life	Approx. 1000 hours	
Items supplied	97039 Uvaloc 400	Protective gloves
	Power cord	Protective curtain with mounting parts
	Protective Glasses	Operating Manual
Useful Accessory	UV Protection Box IDH 1280676, must be ordered separately (see picture below)	

LOCTITE
®

LOCTITE 97057 FB UVA Spot Cure System

Application Field

The LOCTITE 97057 FB UV Light Guide System is designed for curing LOCTITE UV adhesives and coatings with UVA and visible light.

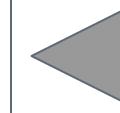
Operation

The LOCTITE UV Light Guide System is a high-power lamp system. The unit is equipped with an integrated UV monitoring system, an automatic intensity feedback control, a PLC connection for integration into an automatic line, an LCD display for menu guidance and a controlled cooling system.



Technical Data	
Dimensions	340 mm (W) x 160 mm (H) x 310 mm (D)
Weight	7.5 kg
Power Supply	110 - 240 V AC, 50-60 Hz
Power Consumption	Max. 380 VA
Current Consumption	Max. 3.3 A
Fuse	2 x 3,15A time lag
Lifetime of the Bulb	Up to 3000 hours
Bulb Type	120 W Calotte lamp
Items supplied	97057 FB UVA Spot Cure system Footswitch 15 pin SubD connector Power cord Safety glasses Liquid light guide (TO BE ORDERED SEPARATELY)

Selector Chart									
Light guide for 97057 & 97058	Item #	IDH No.	Accessories / Spare Parts	Item #	IDH No.	Light guide for 97034	Item #	IDH No.	
UVA ø 5 x 1500mm	97323	376720	UVA lamp module for 97058	97317	951638	UVC ø 5 x 1000mm	97326	329278	
UVA ø 8 x 1500mm	97324	298849	UVA lamp module for 97057	97317	951638	UVC ø 8 x 1000mm	97327	376721	
UVA 2 x ø 3 x 1500mm	97318	951637	UVC lamp module for 97034	97322	354963	UVC 2 x ø 3 x 1000mm	97328	352194	
UVA Light Guide Intensity Meter	7020	1406024	UV Protection Glasses	8953426	1175127				



LOCTITE 97034 UVC Light Guide System

Application Field

The LOCTITE 97034 UVC Light Guide System is designed for curing Loctite UV adhesives and coatings with UVC and UVA light.

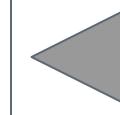
Operation

The LOCTITE UVC Light Guide System is equipped with an integrated UV monitoring system, a PLC connection for integration into an automatic line, an LCD display for menu guidance and a controlled cooling system.



Technical Data	
Dimensions	340 mm (W) x 160 mm (H) x 310 mm (D)
Weight	7.5 kg
Power Supply	110 - 240 V AC, 50-60 Hz
Power Consumption	Max. 380 VA
Current Consumption	Max. 3.3 A
Fuse	2 x 3,15A time lag
Lifetime of the Bulb	Up to 3000 hours
Bulb Type	120 W Calotte lamp
Items supplied	97034 UVC Spot Cure system, Footswitch 15 pin SubD connector Power cord Safety glasses Liquid light guide (TO BE ORDERED SEPARATELY)

Selector Chart									
Light guide for 97057 & 97058	Item #	IDH No.	Accessories / Spare Parts	Item #	IDH No.	Light guide for 97034	Item #	IDH No.	
UVA ø 5 x 1500mm	97323	376720	UVA lamp module for 97058	97317	951638	UVC ø 5 x 1000mm	97326	329278	
UVA ø 8 x 1500mm	97324	298849	UVA lamp module for 97057	97317	951638	UVC ø 8 x 1000mm	97327	376721	
UVA 2 x ø 3 x 1500mm	97318	951637	UVC lamp module for 97034	97322	354963	UVC 2 x ø 3 x 1000mm	97328	352194	
UVA Light Guide Intensity Meter	7020	1406024	UV Protection Glasses	8953426	1175127				



LOCTITE 97055 UVALOC 1000

Application Field

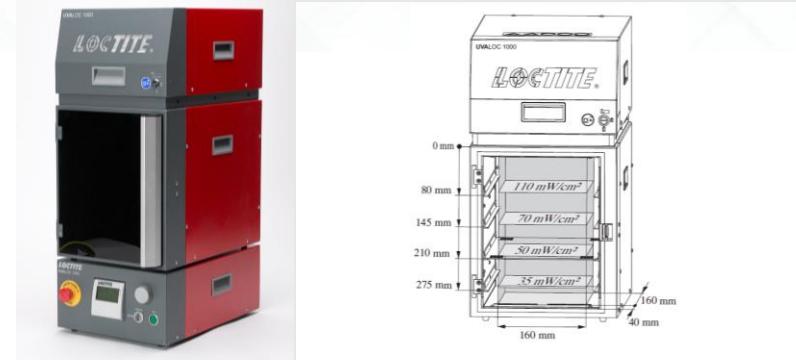
The UVALOC 1000 is a 1000 W lamp system designed exclusively for curing LOCTITE UV adhesives or coatings.

Operation

The 979055 UVALOC 1000 is a high-performance lamp system for curing UV adhesive. The chamber version (97055) is a closed system. It is used for applications permitting manual loading of the cure chamber. Radiation spectrum and performance provided by the lamp are especially matched to the requirements of LOCTITE UV curing adhesives and coating materials. Completely dry, non-tacky surfaces can be achieved rapidly. Exposure times can be preset in 1 s steps to ensure precise repeatability of curing results. Exposure time has to be determined by testing to ensure precise results. The UVALOC 1000 is a closed system with safety door locking and a programmable controller. The door is made out of 'smoked' polycarbonate, which secures 100% protection of UV radiation. The UVALOC 1000 can be operated with 500 W and 1000 W. At the programmable controller the bulb hours, the unit hours and the UV intensity can be monitored. The UVALOC 1000 is equipped with a cooling system, a pneumatic shutter system and an emergency stop button.

Benefits

- Standard unit supplied with a 1,000 W medium pressure mercury arc lamp to provide good tack-free and depth cure
- Optional Visible light bulb for plastic bonding
- Optional iron-doped bulb for maximum depth of cure
- Repeatable and exact curing results due to adjustable opening times of the shutter
- Complete shielding of operator from exposure to UV light
- High degree of occupational safety due to pneumatically operated shutter
- High process safety due to the integrated UV monitoring system



Technical Data	
Dimensions (width x height x depth)	305 mm x 211 mm x 490 mm
▪ Lamp module	305 mm x 170 mm x 525 mm
▪ Controller	305 mm x 385 mm x 480 mm
▪ Cure Chamber	232 mm x 307 mm x 352 mm
Cure chamber internal	
▪ Controller	13 kg
▪ Cure chamber with lamp housing	12.5 kg
▪ Lamp Housing	8.0 kg
Power Supply	230 V AC, 50 Hz, min. 210 V AC, 50 Hz
Power Consumption	Approx. 1200 W
Lamp Power	500 W / 1000 W, standby 500 W
Power Fuse	10 AT/250V; glass tube miniature fuse 5 x 20 mm
Concentration Work Place (MAK) Ozone	Start with cold bulb: ~ 0,1 ppm; During operation: ≤ 0,05 ppm
Internal Control Voltage	Internal Control Voltage
Pneumatic supply	4 – 6 bar (60 – 90 PSI)
UV lamp warm-up time	approx. 90 seconds
Irradiated Area	160 x 160 mm
Items supplied	97055 Uvaloc 1000 Controller, Lamp housing, Curing chamber, UV Bulb (mercury), Connector cord, Power cable, Footswitch, Operating Manual

LOCTITE 7020 UV Spot Radiometer

Application Field

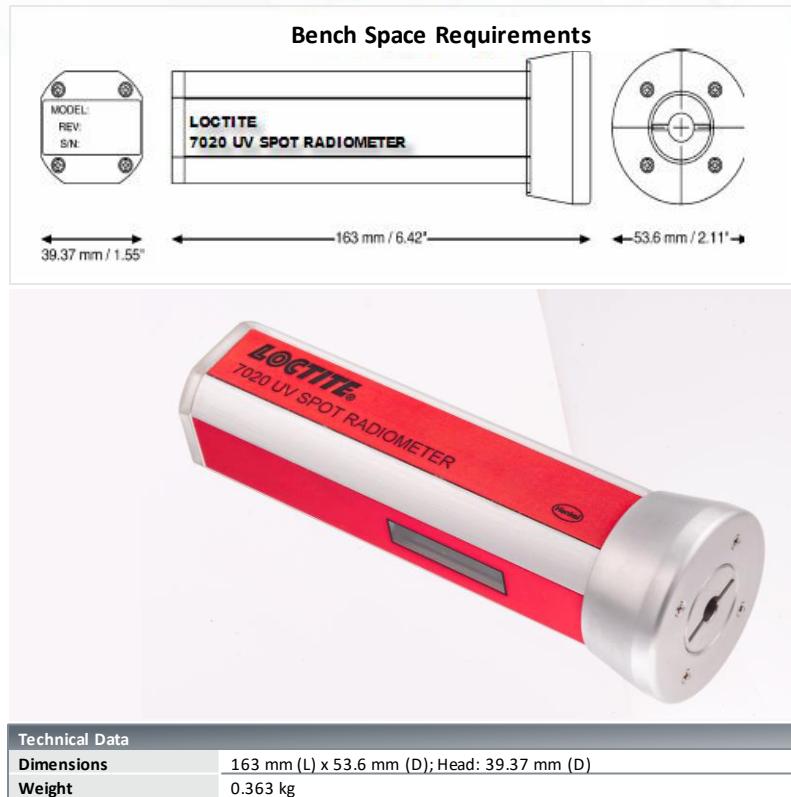
The LOCTITE 7020 UV Spot Radiometer is designed to measure and display the UV power density (irradiance) emitted by a UV spot curing system

Operation

The LOCTITE 7020 UV Spot Radiometer is a self-contained, electro-optic instrument designed to measure and display the UV power density (irradiance) emitted by a UV spot curing system. The units displayed are watts per square centimeter. Decreased radiant power related to the degradation of UV lamps, light guides and reflectors can result in declines in process efficiency or incomplete curing of Loctite Light Cure products. The Radiometer is designed to provide the operator with instant feedback as to the performance of the spot curing system based upon changes in the irradiance.

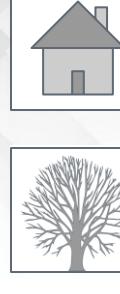
Benefits

- Monitor UV spot curing system performance
- Measure individual UV lamp performance
- Measure light guide degradation
- Optimize light guide positioning
- Determine proper UV intensity required for curing various materials
- Meet ISO-9000 requirements
- Includes Adapters for 3 mm, 5 mm, and 8 mm size lightguides



Technical Data

Dimensions	163 mm (L) x 53.6 mm (D); Head: 39.37 mm (D)
Weight	0.363 kg
Power Source	Lithium Battery Stick
Battery Life	12,500 hours continuous operation
Case Material	aluminum, polyester and quartz
Spectral Range	320 to 390 nm (UVA region)
Resolution	10mW/cm ²
Items supplied	7020 UV Spot Radiometer



LOCTITE EQ PM20 UV VIS Radiometer

Application Field

The LOCTITE EQ PM20 UV VIS Radiometer is designed to measure UV light source outputs including LOCTITE UV LED light sources, conveyor, flood, spot, and UV lamps.

Operation

The LOCTITE EQ PM20 UV VIS Radiometer is an industry first for measurement of LED Light Curing devices. The flat response curve makes this radiometer uniquely qualified to measure narrow band wavelengths of LED Light Curing devices. The Radiometer can also be used with Curing Chambers, Conveyors, and Flood lamps. This unit combines the all-in-one exposure, intensity measurement, and profile memory capability into one device.

Benefits

- Solid-state detector and ultra-stable amplifier technology to give lower noise, greater speed, and higher accuracy.
- Digital display of peak intensity and total exposure
- Graphical display of intensity vs. time.
- Baseline profile reference plot allows on-the-spot comparison of the current performance of the curing unit with the base line.
- Built-in rechargeable battery with USB cable included



Technical Data	
Dimensions	152.4 mm (W) x 191.6 mm (D) x 12.7 mm (H)
Spectral Measurements Range	Total Range: 350 – 660 nm, LED Range: 395 – 620 nm
Intensity Dose Range	5 mW/cm sq. to 20 W/cm sq.
Accuracy	Typically, better than 6%
Digital Display	4 significant digits
Items supplied	Loctite® EQ MP20 UV Radiometer Micro USB charging / data cable Equipment instructions Certificate of Calibration Meter storage / shipping case

LOCTITE EQ PM20 UV AB Radiometer

Application Field

The LOCTITE EQ PM20 UV AB Radiometer is designed to measure UV light source outputs including LOCTITE UV LED light sources, conveyor, flood, spot, and UV lamps.

Operation

The LOCTITE EQ PM20 UV AB Radiometer is an industry first for measurement of light sources and LED Light Curing devices that emit in the UVA & UVB wavelengths. The flat response curve makes this radiometer uniquely qualified to measure UVA & UVB wavelengths. The Radiometer can also be used with Curing Chambers, Conveyors, and Flood lamps. This unit combines the all-in-one exposure, intensity measurement, and profile memory capability into one device.

Benefits

- Solid-state detector and ultra-stable amplifier technology to give lower noise, greater speed, and higher accuracy.
- Digital display of peak intensity and total exposure
- Graphical display of intensity vs. time.
- Baseline profile reference plot allows on-the-spot comparison of the current performance of the curing unit with the base line.
- Built-in rechargeable battery with USB cable included



Technical Data	
Dimensions	152.4 mm (W) x 191.6 mm (D) x 12.7 mm (H)
Spectral Measurements Range	Total Range: 280 – 405 nm, LED Range: 320 – 395 nm
Intensity Dose Range	5 mW/cm sq. to 20 W/cm sq.
Accuracy	Typically, better than 6%
Digital Display	4 significant digits
Items supplied	Loctite® EQ MP20 UV Radiometer Micro USB charging / data cable Equipment instructions Certificate of Calibration Meter storage / shipping case

LOCTITE Light Cure Safety Glasses

Application Field

Two types of UV safety glasses are available with selection being dependent on the UV equipment and light wavelength.

Grey UV Safety Glasses

The grey UV safety glasses are recommended for general use with equipment that emits UV light within the UVA and UVC spectra. The bright light is absorbed by the grey lenses therefore improving comfort for the operator..

Orange UV Safety Glasses

The orange UV safety glasses are designed for use with light within the UV spectra. They enable parts being cured to be visually inspected during the curing process. These are not recommended for use with UVA and UVC emitting UV equipment.

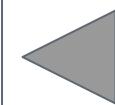


Technical Data – Grey glasses (IDH1175127)

Visible light transmission	15%
IR Absorption	50%
UV Absorption	≥99.9% up to 400nm
Complies with:	DIN EN 166, DIN EN 172
Items supplied	Loctite Grey UV safety glasses

Technical Data – Orange glasses (IDH1175128)

Visible light transmission	20%
IR Absorption	50%
UV Absorption	≥99.9% up to 400nm
Complies with:	DIN EN 166, DIN EN 172
Items supplied	Loctite Orange UV safety glasses





Air Filter Systems

IDH 494964
LOCTITE 97612
Air Filter Trolley



IDH 527595
LOCTITE 97603 Air Filter
System LAS 250



LOCTITE®

LOCTITE 97612 Air Filter Trolley

Application Field

The LOCTITE 97612 Air Filter Trolley is designed for health and environment protection at bonding workplaces.

Operation

The LOCTITE Air Filter Trolley is a robust device for the mobile and stationary workshop and industrial use. It is suitable for exhausting and filtering gases, vapors and odors in the workplaces. Released, gases and vapors, are captured by suction elements immediately at the workstation and then filtered with the Filter Trolley. The dean air can be supplied back to the working premises. Not valid for carcinogenic substances!

Benefits

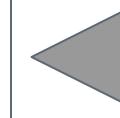
- High impact ABS housing
- Resistant to chemicals and corrosion
- Adjustable discharge direction
- Adjustable flow rate
- Low noise level
- Compact design
- High performance fan, minimum energy consumption
- High capacity filter (can be recycled)
- Easy operation, servicing and filter replacement
- Long life brushless electric motor



Technical Data

Dimensions	450 mm (W) x 530 – 860 mm (H) x 340 mm (D)
Weight	18.0 kg
Power Supply	230 VAC, 50 Hz
Power Consumption	150 W
Power Protection	5 A, time-lag
Max. Air Flow	170 m ³ /h
Constant Air Flow	80 m ³ /h at 1400 Pa
Max. Vacuum	Max. 2800 Pa
Relative Humidity for Storage	50 %
Items supplied	97612 Filter Trolley Power cord Operating Manual

System	Item #	IDH No.	System	Item #	IDH No.
Benchtop Suction Arm, 3 joints, maximum range 950mm, including hood	8991090	503370	Hose with fitting, 2 metre	8991091	529639
Y splitter (for connecting 2 hoses)	8991096	529643	Filter for Trolley 97612, new	97968	267469
Spare filter for Trolley 97612, replacement	97969	782862	Filter for LAS 250 97603, new	8991092	529640
Spare filter for LAS 250 97603, replacement	8991093	529641	Suction hood transparent	8955065	1034999



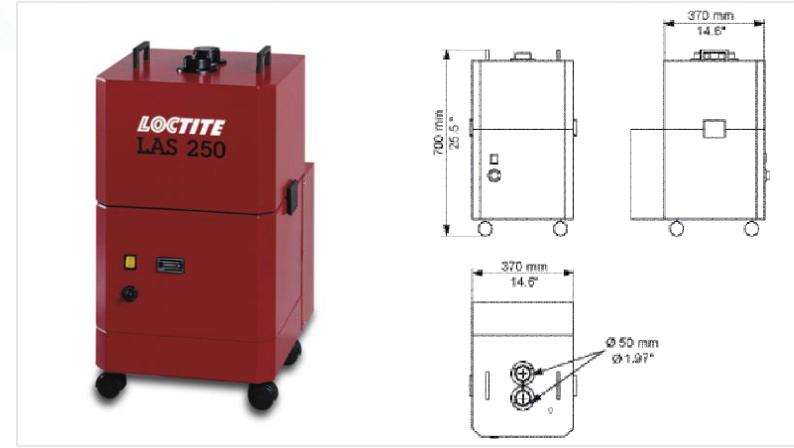
LOCTITE 97603 Air Filter System LAS 250

Application Field

The LOCTITE 97603 Air Filter System LAS 250 system is suitable for exhausting and filtering gases, vapors and odors in the workplaces.

Operation

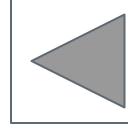
The LOCTITE 97603 Air Filter System exhausts the polluted air and blows out the cleaned air at the air outlet. The combination of pre-filter and activated carbon guarantees a high filtration efficiency of unhealthy gases, vapor and fumes. The large surface area and small particle size of the activated carbon maximizes absorption of polluted air.



Technical Data

Dimensions	370 mm (W) x 780 mm (H) x 500 mm (D)
Weight	40.0 kg
Temperature	Operating: +10°C – +45°C (50°F – 113°F)
Power Supply	230 VAC, 50 Hz
Power Consumption	370 W
Max. Air Flow	40 m3/h
Constant Air Flow	250m3/h at 2200 Pa
Max. Vacuum	2600 Pa
Relative Humidity for Storage	Max. 50%
Noise Level	52 dB (A)
Items supplied	97603 Air filter system LAS 250 Power cord Operating Manual

System	Item #	IDH No.	System	Item #	IDH No.
Benchtop Suction Arm, 3 joints, maximum range 950mm, including hood	8991090	503370	Hose with fitting, 2 metre	8991091	529639
Y splitter (for connecting 2 hoses)	8991096	529643	Filter for Trolley 97612, new	97968	267469
Spare filter for Trolley 97612, replacement	97969	782862	Filter for LAS 250 97603, new	8991092	529640
Spare filter for LAS 250 97603, replacement	8991093	529641	Suction hood transparent	8955065	1034999



Dispense Needles, Mixers and Accessories

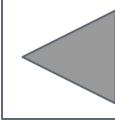


Illustration / Example	Item No.	Order No.	Pack Size	Colour	Gauge	Inner Ø, mm		
Flexible Dispensing Tips: Dispensing Needle, Polypropylene (PPF), Helical Thread								
	97229	142640	50 pcs	Amber	15	1.37		
	97230	142641	50 pcs	Green	18	0.84		
	97231	142642	50 pcs	Pink	20	0.61		
	97232	142643	50 pcs	Red	25	0.25		
Tapered Dispensing Tips: Dispensing Needle, Polyethylene – Conical (PPC), Luer-Lock								
	97221	88660	50 pcs	Grey	16	1.19		
	97222	88661	50 pcs	Green	18	0.84		
	97223	88662	50 pcs	Pink	20	0.61		
	97224	88663	50 pcs	Blue	22	0.41		
High Precision Dispensing Tips: Dispensing Needle, Stainless Steel Standard (SSS), Luer-Lock								
	97225	88664	50 pcs	Amber	15	1.37		
	97226	88665	50 pcs	Green	18	0.84		
	97227	88666	50 pcs	Pink	20	0.61		
	97228	88667	50 pcs	Red	25	0.25		
Additional Dispensing Tips and Mixer Nozzles								
	Illustration	Item No.	Order No.	Pack Size	Description			
	98741	1146079	50 pcs	Dispensing needle, stainless steel – PTFE-lined (SSTL), 25 gauge				
	97262	218288	2 each	Needle selection pack: 2 each of a variety of dispensing needles				
	K1003100	88805	50 pcs	Formable dispensing tip, 21 gauge / 0.5 mm				
	97248	218275	50 pcs	Luer-Lock® tip caps				
	97233	88672	20 + 5 pcs	Luer-Lock® adapter kit: 20 Luer-Locks® and 5 adapters				
	97207	88656	40 pcs	10 ml clear syringe barrel kit				

Illustration	Item No.	Order No.	Pack Size	Description
	97283	529462	40 pcs	10 ml amber syringe barrel kit, for UV products
	97263	218287	40 pcs	10 ml black syringe barrel kit, for UV and light cure adhesives
	97208	88657	2 pcs	10 ml syringe airfine adapter
	97244	88677	20 pcs	30 ml clear syringe barrel kit
	97264	218286	20 pcs	30 ml black syringe barrel kit, for UV and light cure adhesives
	97245	88678	2 pcs	30 ml syringe airfine adapter
	97290	397462	50 pcs	All plastic precision dispensing tip, 20 gauge
	984569	1487440	10 pcs	Static mixer for epoxy and PU in 50 ml, SQ 5.3-24
	984570	1487439	10 pcs	Static mixer for epoxy in 200 / 400 ml, SQ 7.5-24
	1034575	1034575	10 pcs	Static mixer MBX 6.5-20-S 10:1 for LOCTITE AA 3038
	8953593	1248606	10 pcs	Spray mix nozzle for LOCTITE PC 7255
	8953186	1104046	10 pcs	Static mixer 4:1 / 10:1 for 400 / 490 ml, MCX 08-18
	5289010	545996	10 pcs	Static mixer 1:1 for acrylics in 50 ml, MA 6.3-7
	98457	720174	10 pcs	Static mixer 1:1 / 2:1 in 200 / 400 ml, MC 8-24
	863585	367545	10 pcs	Static mixer 1:1 for MS polymers in 410 ml, MC 13-18
	8953187	1104047	10 pcs	Static mixer 4:1 / 10:1 in 400 / 490 ml, MCX 08-24
	8955989	1453183	10 pcs	Static mixer for LOCTITE 3090 and LOCTITE 4070, MLX 2.5-16-5
	n.a.	1826921	10 pcs	Static mixer 1:1 / 2:1 in 50 ml, MBH 3.2-16 S
	n.a.	1573153	10 pcs	Static mixer 1:1 / 2:1 in 50 ml, MBQ 5.0-24 L
	n.a.	1573135	10 pcs	Static mixer 1:1 / 2:1 in 400 ml, MFH 6.0-34 T

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Thank you!