

# Equipment Catalogue 5.0



**LOCTITE®**



Technical data herein are informative, please consult Product Data Sheet and Operating Manual for up to date information.

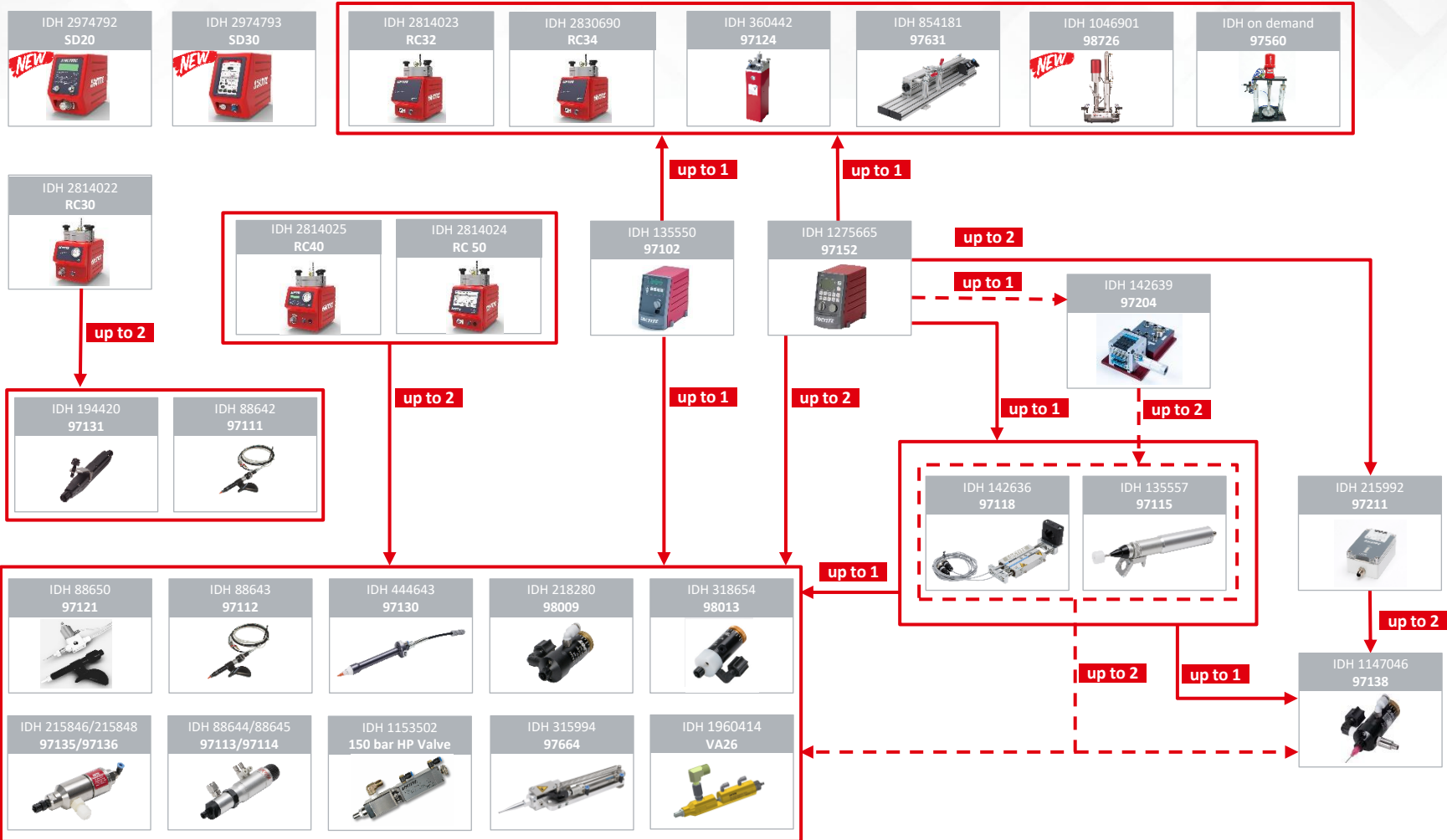
# Equipment Catalogue 5.0

- ▶ Pressure-Time Dispensing Systems – 1K
- ▶ Pressure-Time Dispense Valves Selector Chart – 1K
- ▶ Volumetric Dispensing Systems – 1K
- ▶ Pressure-Time Dispensing Systems – 2K
- ▶ Volumetric Dispensing Systems – 2K
- ▶ Hand Applicators
- ▶ Benchtop Robots – Handling Systems
- ▶ Light Cure Equipment
- ▶ Air Filter Systems
- ▶ Special Equipment
- ▶ Dispense Needles and Tips
- ▶ Static Mixers
- ▶ Syringe Consumables and Supplies
- ▶ Feed Line and Fittings





# Pressure-Time Dispensing Systems – 1K



**Dispense Valve Selector Chart 1K**

**Start Signal Options**

**Dispense Needles and Tips**

**Feed Line and Fittings**

**Syringe Consumables and Supplies**

# LOCTITE RC30 Manual Reservoir



## Application Field

The LOCTITE EQ RC30 Manual Reservoir is suitable for the application of Loctite adhesive with a manual applicator at manual workstations such as in workshops, laboratories, and industrial installations

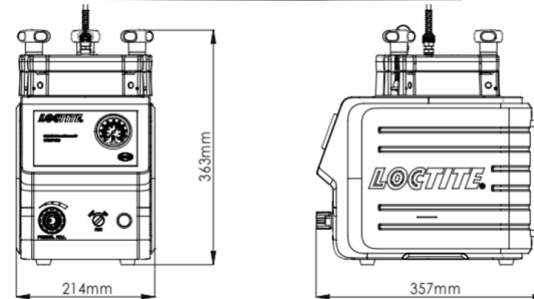
## Product Features

- User-friendly design
- Low level sensor for process control
- Equipped with a 0 to 7 bar (0-100psi) manual pressure regulator
- Easy to read pressure gauge
- Can accommodate a variety of Loctite packages
- All pneumatic operation

## Recommended Packages



## Recommended Manual Handheld Applicators



Technical Data	
Dimensions	214 mm x 357 mm x 363 mm (W x D x H)
Weight	3.5 kg
Pneumatic Supply	Clean, dry air not exceed 8 bar (116 psi) and filtered with a maximum of 10 micron
Pneumatic Hose Size	External dia. 6 mm
Items supplied	1x RC30 Manual Reservoir; 2x 1/4" NPT x 1/4" Tubbing (One already installed); 1x Bottle Holder; 1x Anti-bubbler Kit; 1x XS2 Cable; 1x Bottle spacer; 1x Operating Manual.

# LOCTITE RC32 Automatic Reservoir SP

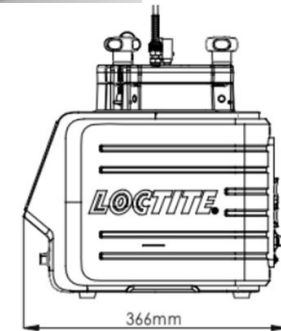
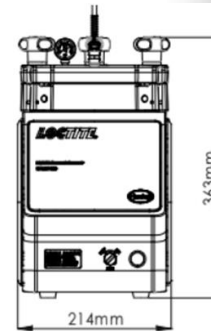
## Application Field

The LOCTITE EQ RC32 Automatic Reservoir is equipped with a single point low level sensor that sends an electronic signal to a LOCTITE controller. It is typically integrated into a dispensing system that consist of a dispensing valve and one of LOCTITE controllers.

## Product Features

- Modular design allows user to build suited application process
- Operational with manual, semi-automatic and automatic controllers
- Low level sensor alarm provides warning for adhesive bottle replacement
- Integrated solenoid vent valve

## Recommended Packages



Technical Data	
Dimensions	214 mm x 366 mm x 363 mm (W x D x H)
Weight	4.0 kg
Internal Control Voltages	24 VDC
Pneumatic Supply	Clean, dry air not exceed 8 bar (116 psi) and filtered with a maximum of 10 micron
Pneumatic Hose Size	External dia. 6 mm
Items supplied	1x RC32 Automatic Reservoir SP; 2x ¼" NPT x ¼" Tubbing (One already installed); 1x Bottle Holder; 1x Anti-bubbler Kit; 1x XS2 Cable; 1x Bottle spacer; 1x Operating Manual.



# LOCTITE RC34 Automatic Reservoir DP

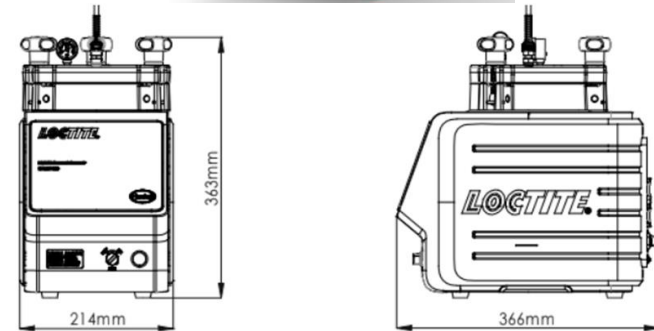
## Application Field

The LOCTITE EQ RC34 Automatic Reservoir DP is equipped with an analogue low level sensor that sends an electronic signal to a LOCTITE controller. It is typically integrated into a dispensing system that consist of a dispensing valve and one of LOCTITE controllers.

## Product Features

- Modular design allows user to build suited application process
- Operational with manual, semi-automatic and automatic controllers
- Low level sensor alarm provides warning of refill and empty for adhesive bottle replacement
- Integrated solenoid vent valve

## Recommended Packages



Technical Data	
Dimensions	214 mm x 366 mm x 363 mm (W x D x H)
Weight	4.0 kg
Internal Control Voltages	24 VDC
Pneumatic Supply	Clean, dry air not exceed 8 bar (116 psi) and filtered with a maximum of 10 micron
Pneumatic Hose Size	External dia. 6 mm
Items supplied	1x RC34 Automatic Reservoir DP; 2x ¼" NPT x ¼" Tubbing (One already installed); 1x Bottle Holder; 1x Anti-bubbler Kit; 1x XS2 Cable; 1x Bottle spacer; 1x Operating Manual.





# LOCTITE RC40 Integrated Dispenser

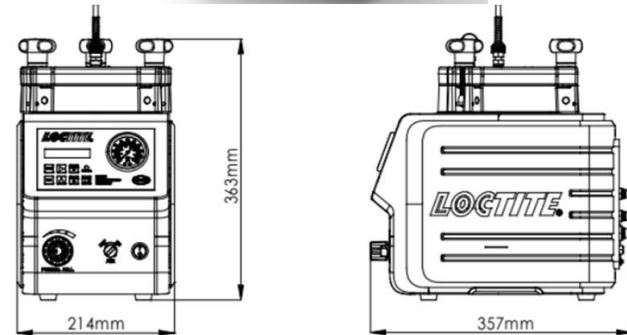
## Application Field

The LOCTITE EQ RC40 Integrated Semi-Automatic Dispenser combines both a dual channel dispense controller and a reservoir into a single unit. The controller provides two independent digital timing channels that provide control of two pneumatic outputs. These outputs can be used to control dispense valves or any other pneumatic device. The controller can be actuated either by a footswitch (included), finger switch or external start signal. It is capable of operating in a timed or continuous mode for dot or bead dispensing applications.

## Product Features

- Controls up to two dispense valves
- Two independent digital timing channels
- Delay setting allows positioning of an advancing slide prior to the opening of dispense valve
- Low level sensor alarm provides warning for adhesive bottle replacement
- Interface connections for customer's PLC to indicate reservoir low level condition and cycle complete signal
- Easy-to-use keypad with LCD display screen for entering values
- Simple menu-driven commands
- Equipped with a 0 to 7 bar (0-100psi) pressure regulator
- Analogue pressure gauge
- Time range is adjustable from 0.01 to 99.99 seconds
- Timed and continuous mode options can be selected
- Manual button for purging adhesive from valves

## Recommended Packages



Technical Data	
Dimensions	214 mm x 357 mm x 363 mm (W x D x H)
Weight	5.0 kg
Power Supply	100-240 VAC, 50-60 Hz
Power Connections	Plug Ends for North America, Japan, Continental Europe, UK, Australia and China
Pneumatic Hose Size	External dia. 6 mm
Items supplied	1x RC40 Integrated Dispenser; 2x 1/4" NPT x 1/4" Tubing (One already installed); 1x Foot Switch; 1x Universal Power Adapter; 1x Bottle Holder; 1x Anti-bubbler Kit; 1x Bottle spacer; 1x Operating Manual.

### Dispense Valve Selector Chart 1K



# LOCTITE RC50 Integrated Dispenser I4.0

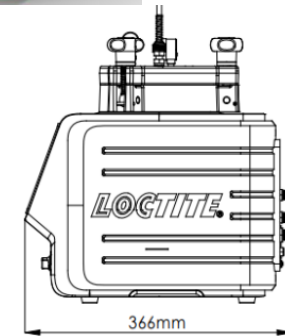
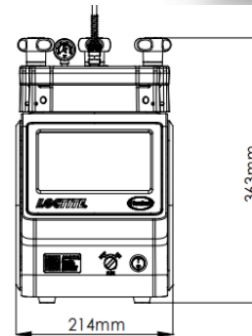
## Application Field

The LOCTITE PULSE EQ RC50 Integrated Semi-Automatic Dispenser combines a dual channel dispense controller and a reservoir into a single unit. The dispenser provides two independent digital timing channels that provide control of two pneumatic outputs. These outputs can be used to control dispense valves or any other pneumatic device. The dispenser can be actuated either by the start/stop button on the front touch panel, a footswitch (included), or external start signal. It is capable of operating in a timed or continuous mode for dot or bead dispensing applications. The reservoir is suitable for manual workstations as well as integration into automated production lines. The dispenser includes an integrated 'Industry 4.0' function to enable remote communication via Wi-Fi, Bluetooth or ethernet.

## Product Features

- Controls up to two dispense valves
- Two independent digital timing channels
- Low level sensor alarm provides warning for adhesive bottle replacement
- Interface connections for customer's PLC to indicate reservoir low level condition and cycle complete signal
- User friendly HMI included with easy-to-use large touch panel for entering values
- Equipped with a 0 to 7 bar (0-100psi) digital pressure regulator (electronic proportional valve)
- Digital pressure gauge included
- Time range is adjustable from 0.01 to 99.99 seconds
- Timed and continuous mode options can be selected
- Manual button for purging adhesive from valves
- Powerful I4.0 function - Provides convenient remote user access in real time via Wi-Fi, Bluetooth, or Ethernet

## Recommended Packages



Technical Data	
Dimensions	214 mm x 366 mm x 363 mm (W x D x H)
Weight	5.0 kg
Internal Control Voltages	24 VDC
Input Voltage	100-240 VAC, 50-60 Hz
Power Connections	Plug Ends for North America, Japan, Continental Europe, UK, Australia and China
Pneumatic Hose Size	External dia. 6 mm
Items supplied	1x RC50 Integrated Dispenser I4.0; 2x ¼" NPT x ¼" Tubing (One already installed); 1x Foot Switch; 1x Universal Power Adapter; 1x Bottle Holder; 1x Anti-bubbler Kit; 1x Bottle spacer; 1x USB Stick (for firmware update); 1x Operating Manual.

### Dispense Valve Selector Chart 1K





# LOCTITE 97124 2 L Bag Dispenser

## Application Field

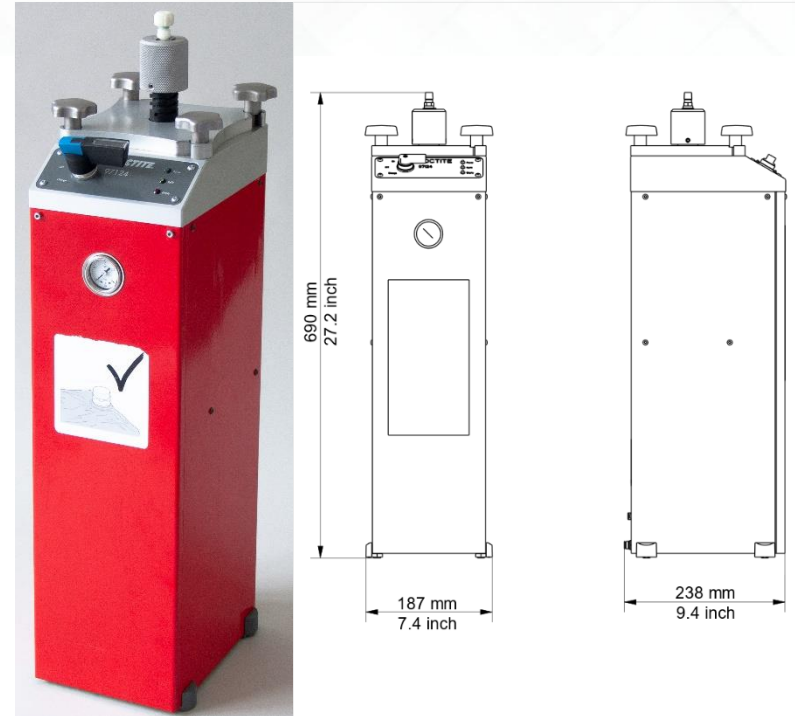
The Bag Reservoir 97124 is suitable for the application of LOCTITE adhesives with a dispensing valve at workstations such as in workshops, laboratories, and industrial installations.

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

# LOCTITE 97631 300 ml Cartridge Dispenser

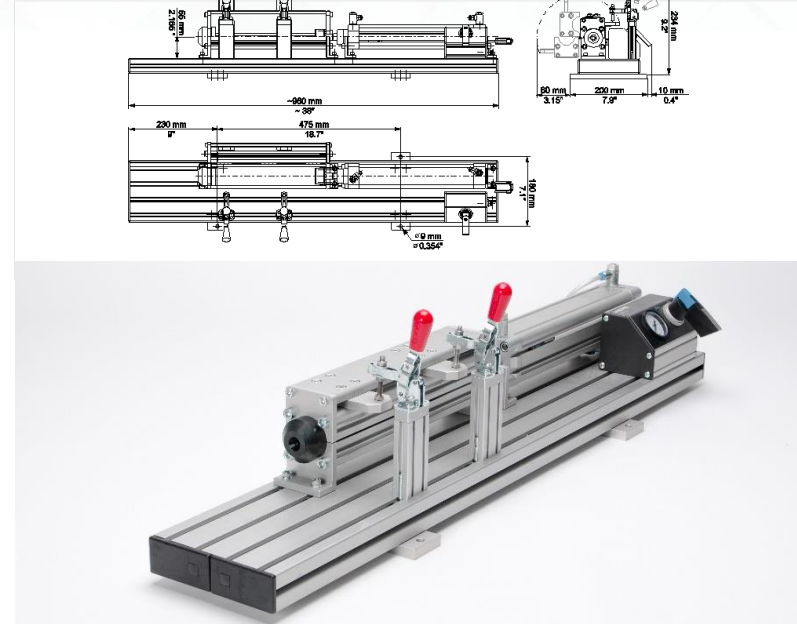
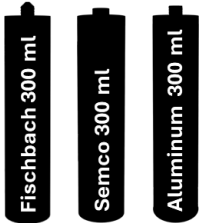
## Application Field

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.

## Recommended Packages



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 3/8"
Product Fitting Thread	Standard G 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 High Pressure Cartridge Dispenser

## Application Field

The Loctite® High Pressure Cartridge Dispenser is designed for dispensing high viscosity 1-component adhesives and sealants. Compatible Loctite® product chemistries include: Silicone, Polyurethane and MS polymer adhesives. The dispenser can be used as a manual dispenser or integrated with a controller and dispensing valve for automated dispensing.

The Loctite® High Pressure Cartridge Dispenser **cannot** be used with other product chemistries, like anaerobic products, UV acrylates or cyanoacrylates.

## Operation

The cartridge dispenser consists of three main components: the pneumatic priming ram, adhesive reservoir block and the 10:1 pump. The pneumatic ram is used to provide a low pressure feed of adhesive to the reservoir block. The 10:1 pump draws product from the reservoir block and amplifies the pressure by a factor of 10 and feeds the product through a feedline to the valve.

The unit has two regulators to control the pressure of the pneumatic priming ram and the 10:1 pump. By increasing the pressure of either of these regulators the outlet pressure of the dispenser will be increased. The primary product regulation should be controlled using the pump regulator and the pneumatic ram regulator should be set to supply product at just enough pressure to feed the reservoir.

The 110 – 240 VAC power cable plugs to the electrical junction box and supplies power to the 10:1 pump via the low level relay.

The low level sensor is mounted to the pneumatic priming ram to indicate when the adhesive cartridge is empty. When activated, the low level sensor will provide a signal to the COM port on the electrical box and turn the 10:1 pump off.

## Recommended Packages

Fischbach 300 ml

## Recommended Products



**NEW**



Technical Data	
Dimensions (D; W; H)	210; 355; 687 mm
Weight	5,0 kg
Input Voltage	110 – 240 VAC 50/60 Hz (Voltage fluctuation not to exceed 10% of nominal voltage)
Rated Power	20 W
Pneumatic supply	Max. 6 bar; Filtered 10 µm, oil-free, non-condensing.
Air Consumption	80 Liter/min (0.7 CFM) maximum
Pump Cycle Rate	200 cycles/minute maximum
Pressure output	50 bar maximum
Viscosity Range	10.000 – 1.000.000 mPa.s
Items supplied	1x High Pressure Cartridge Dispenser; 2x Cartridge Adaptor Inserts; 1x PTFE Lined Stainless Steel Braided Feedline (2m long); 1x Power Cord; 1x XS2 Connection Cable; 1x Low Level Sensor with Cable (1m long) – Already Installed; 1x Air Supply Line (2m long); 1x Lubricant Oil; 1x Operation Manual.

# LOCTITE 97560 Extrusion Pump 26:1

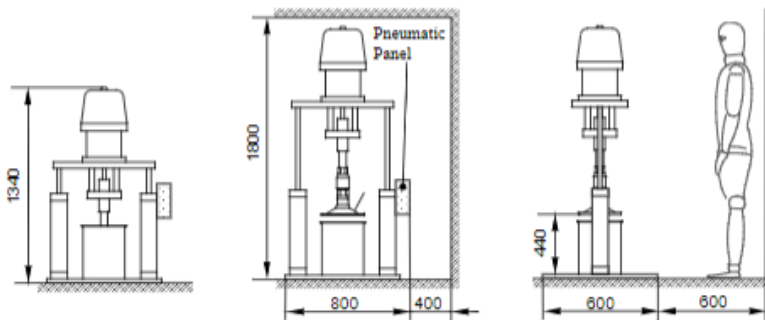
## Application Field

The Extrusion Pump 26:1 is a high-pressure pneumatic pump used for extrusion and transfer of high viscous and paste products. The pump is essentially constituted of an air motor and the pumping group, mounted on a ram. In the air motor, compressed air causes the vertical reciprocating movement of the motor piston; this movement is transmitted through a connecting rod to the material pumping piston ending with a shovel plate allowing to suck very viscous products. The shovel plate (follower plate) is supplied with a series of gaskets able to protect the product contained in the pail from powder, moisture and drying process caused by the touch with air. The use of the ram enables to drive the sucking unit of the pump during the product intake phase directly into the 20 l pails. The ram can automatically compensate the shovel plate descent during the use of the product. This system allows lifting of the extrusion pump for a quick replacement of the pail when it is empty. The ratio 26:1 means that the outlet pressure of product is 26 times higher than the pump feed air pressure. In order to ensure best product compatibility, the pumping group and sealing balls are made from stainless steel.

***Please consult Regional Equipment Application Engineering Team for further information!***



## Space Requirements



## Technical Data

Dimensions	800 mm (L) x 600 mm (W) x 1800 mm (H)
Weight	67 kg
Pneumatic supply	Max. 7 bar (100 psi)
Pressure input min	max. 3.5 bar (50 psi)
Material Outlet	G 3/4" female
Maximal Output Pressure	182 bar (2730 psi) for 26:1
Max product flow rate	4 liter/min (26:1)



Special Equipment

**LOCTITE**

# LOCTITE SD20 Digital Syringe Dispenser

## Application Field

The Loctite® SD20 Digital Syringe Dispenser is a semi-automatic dispensing system designed to dispense Loctite® adhesives and fluids packaged in 30ml and 55ml syringes. The unit has digital timing control with centesimal settings to 0.01 seconds for increased precision over typical pressure-time systems. An adjustable precision pressure regulator with digital display 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 continuous, timer, cycle and program modes to dispense dots or beads. Suck-Back feature with digital vacuum display ensures no dripping.

## Operation

The Loctite® EQ SD20 Digital Syringe Dispenser is connected to an external pneumatic supply. The control unit of the EQ SD20 Digital Syringe Dispenser regulates the dispensing pressure and time to dispense a repeatable volume of product. By means of air pressure on the plug in the syringe barrel, the product is transported to the dispensing needle. The built-in vacuum regulator prevents dripping of the product during pauses in dispensing.

## Product Features

- Precise air pressure regulator.
- Pressure and Vacuum digital display.
- Keypad with LCD display
- Four working modes: Timer, Continuous, Cycle and Program.
- Teaching function.
- Stores up to 40 dispensing programs.

## Recommended Packages



Technical Data	
Dimensions	130 mm (W) x 295 mm (D) x 207 mm (H)
Weight	4.7 kg ( 10.4 lbs)
Power Supply	110-240 VAC 50/60Hz
Power Consumption	~10 W
Pneumatic Air Supply	Clean, dry air not to exceed 7bar (100psi) and filtered with a maximum of 50 µm
Timer Range	0.02 – 99.99 s
Working Modes	Timer, Continuous, Cycle and Program
Items supplied	1x SD20 Digital Syringe Dispenser; 1x Operating Manual; 1x Universal Power AC Adapter; 1x 30/55ml Syringe Air Line Adapter; 1x Foot Switch; 1x Syringe Holder.

Note: If 10ml Syringes needs to be used, 10 ml syringe airline adapter (IDH 88657) must be purchased separately

### Dispense Needles and Tips



### Syringe Consumables and Supplies



# LOCTITE PULSE SD30 Precision Syringe Dispenser

## Application Field

The Loctite PULSE SD30 Precision Syringe Dispenser is a self-contained dispenser system and suitable for the precise application of Loctite brand products at manual workstations such as in workshops, laboratories and industrial installations. The SD30 Precision Syringe Dispenser can be actuated either by the start/stop button on the front touch panel, a footswitch (included), or external start signal. It is capable of operating in a timed or continue mode for dot or bead dispensing applications. The dispenser includes an integrated 'Industry 4.0' function to enable remote communication via Wi-Fi or ethernet.

## Operation

The Loctite® Pulse EQ SD30 Precision Syringe Dispenser is connected to an external pneumatic supply. The system is equipped with a 0 to 7 bar (0-100psi) digital pressure regulator that regulates the adjusted dispensing pressure and controls the dispensing during the selected dispensing time. An error is displayed on the screen if pressure varies more than specified on pressure range. By means of air pressure on the plug in the syringe barrel, the product is transported to the dispensing needle. The built-in vacuum regulator prevents dripping of the product during pauses in dispensing.

## Product Features

- Touch screen User Interface (UI) with color display and ease of use.
- Four operating modes: Timer, Continue, Cycle and Program.
- Digital pressure and vacuum regulator.
- Pressure alarm.
- Password locking.
- Stores up to 40 dispensing programs.
- Integrated with I/O communication interface.
- I4.0 function enables real time remote process monitoring through WiFi or Ethernet.

## Recommended Packages



Technical Data	
Dimensions	130 mm (W) x 295 mm (D) x 207 mm (H)
Weight	5,4 kg (11,9 lbs)
Power Supply	110-240 VAC 50/60Hz
Power Consumption	~ 15 W
Pneumatic Air Supply	Clean, dry air not to exceed 7bar (100psi) and filtered with a maximum of 50 µm
Timer Range	0.02 – 99.99 s
Working Modes	Timer, Continuous, Cycle and Program
Items supplied	1x LOCTITE PULSE SD30 Digital Syringe Dispenser; 1x Operating Manual; 1x Universal Power AC Adapter; 1x 30/55ml Syringe Air Line Adapter; 1x Foot Switch; 1x Syringe Holder; 1x USB Stick (for firmware update).

**Note:** If 10ml Syringes needs to be used, 10 ml syringe airline adapter (IDH 88657) must be purchased separately.





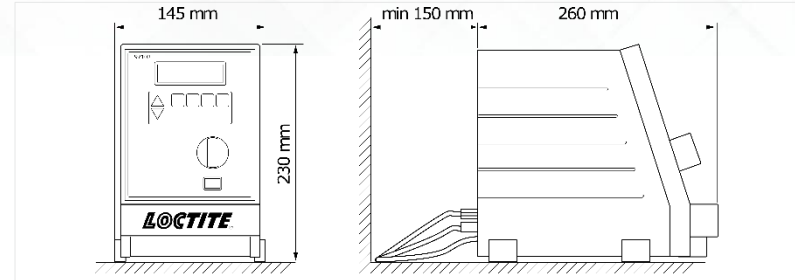
# LOCTITE 97102 Semi-Automatic Controller

## 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 97102 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.



Technical Data	
Dimensions	145 mm (W) x 230 mm (H) x 260 mm (D)
Weight	2.8 kg
Power Supply	90 – 260 VAC; 47 – 63 Hz
Power Consumption	Approx. 40 W
Compressed Air Supply	min. 2 bar (29 psi); max. 12 bar (174 psi)
Pneumatic Tube	
▪ Control Air Connection O.D.	6 mm +0.05 -0.10
▪ Dispensing Valve O.D.	4 mm +0.05 -0.10
▪ Reservoir O.D.	6 mm +0.05 -0.10
Continuous Sound Pressure Level	< 70 dB(A)
Items supplied	97102 Semi-Auto Controller, Power cord, Pneumatic tubing OD 6mm x 1.2m, Operating Manual

# 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.!

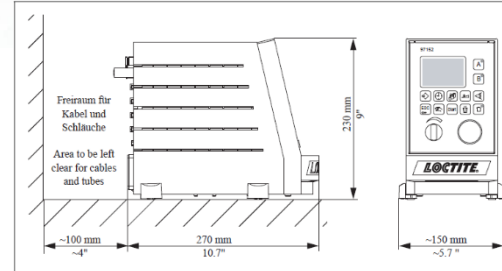
## Operation

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.

## Product Features

- 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



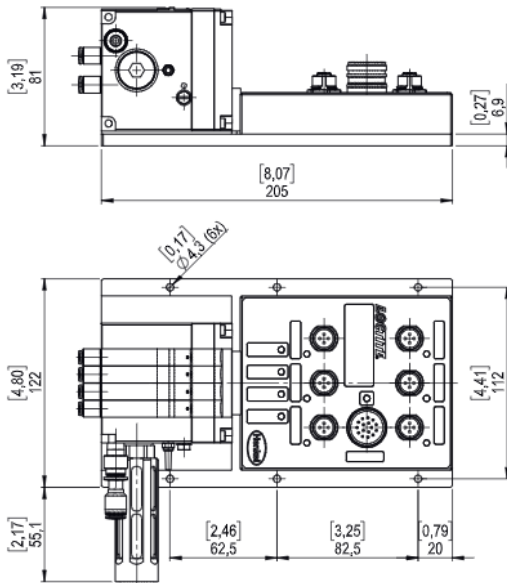
# LOCTITE 97204 Solenoid Valve Module

## 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.

## Product Features

- 4 independent 5/2-way solenoid valves
- 2 electrical outputs for [Rotorsprays](#)
- 4 electrical inputs for limit switches
- 1 central multipole connector to automatic 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

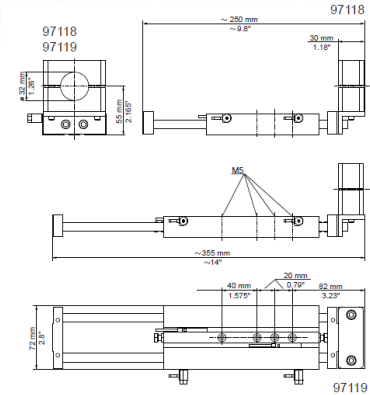
# LOCTITE 97118 Advancing Slide 50 mm

## 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.

## Product Features

- Allows simple and precise positioning of [valves](#) and [Rotorsprays](#)
- Air flow 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 Rotorspray

## Application Field

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

## Operation

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

The product is dispensed through the wetting holes by centrifugal force and uniformly distributed onto the cylindrical inner surface of the part.

The head of the Rotorspray 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.

## Product Features

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

Dispensing spot cannot be reached? Please contact Local Equipment Specialist (Level 2) and ask for a “rotor prolongation”.

## Recommended Products



Rotor Disc Available					
Outer Diameter (mm)	IDH	Description	Outer Diameter (mm)	IDH	Description
10	529513	Rotor Disc O.D. 10mm (1 un.)	30	529533	Rotor Disc O.D. 30mm (1 un.)
15	529524	Rotor Disc O.D. 15mm (1 un.)	35	806098	Rotor Disc O.D. 35mm (1 un.)
20	88813	Rotor Disc O.D. 20mm (1 un.)	40	529534	Rotor Disc O.D. 40mm (1 un.)
25	529515	Rotor Disc O.D. 25mm (1 un.)			

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 Rotorspray, Rotor disc O.D. 10mm (IDH 529513) & O.D. 25mm (IDH 529515), rotor cord, operation manual, different mounting clamps for valves/pumps.



# LOCTITE 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.

## Product Features

- Adjustable amplifying factor with LED signal strength indication
- Power supply to pressure-based sensor
- Single channel



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 1960414 VA26	IDH 1147046 97138
<b>Wetted parts</b>	PTFE	POM, PTFE	PTFE	POM, PE- UHMW	POM, PE- UHMW	PTFE	PTFE	POM, PTFE	POM, PTFE	Stainless Steel	Stainless Steel	Aluminum	POM, PE- UHMW
<b>Viscosity mPa.s</b>	Low to medium	Medium to high	Low to medium	Low	Low	Low	Medium	Medium to high	Medium to high	High	High	High	Low
<b>Flow rate</b>	Medium	High	Medium	Low	Low	Medium	Medium	Medium	High	High	High	High	Low
<b>Recommended products</b>	CA, LC, AN	LC, AN	CA, AN	Activators, AN, Primers, LC	Activators, CA, Primers	AN, LC	AN, LC	AN, CA, Epoxy, LC	AN, CA, Epoxy, LC, SI	SI/MSP's	SI/MSP's	SI/MSP's	Activators, AN, CA, Primers, LC
<b>Suck-back feature</b>	No	Yes	No	No	No	No	No	Yes	Yes	Yes	No	Yes	No
<b>Stroke adjustments</b>	No	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes	No	Yes	Yes

**CA:** Cyanoacrylates; **LC:** Light Curable products; **AN:** Anaerobics/Acrylics; **\*POM:** Polyoxymethylene (Polyacetals), **SI:** Silicone, **MSP's:** Modified Silane - Polymers; **PTFE:** Polytetrafluorethylene; **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...

# LOCTITE 97131/ 97132 Vari-Drop Applicator

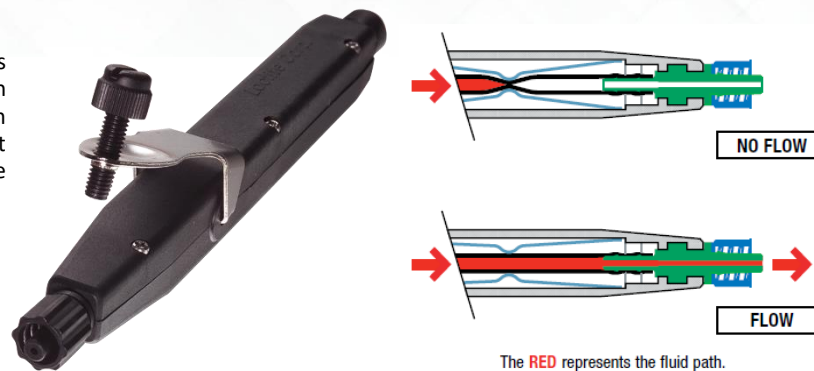
## Application Field

The Vari-Drop™ applicator is suitable for manually dispensing all LOCTITE products that can be dispensed using time/pressure dispensing. This covers products with viscosities up to 80,000 mPa.s. The adjusting screw allows repeatable dispense from light to heavy beads or drops. The quantity applied is dependent on the stroke set for the trigger. Adjust the screw for the desired amount. It is recommended to be used with [LOCTITE RC30 Manual Reservoir](#).

## Operation

When using the Vari-Drop applicator with, screw the tank fitting into the tank cover and tighten with a wrench. Leave a length of tubing extending beyond the fitting so that the tubing stops within 2-3 cm from the inside bottom surface of the product container when the reservoir cover is closed. Then tighten the nut and ferrule assembly to hold the tubing secure. Follow reservoir instructions for operation

## Recommended Products



Technical Data		
Weight	0.100 kg	
Fluid Pressure	Max. 6 bar	
	97131	97132
IDH	194420	215996
Items supplied	1x Vari-Drop Applicator; 1x ¼" Feeding line with Spring Guard; 1x Needle Variety Kit; 1x Operating Manual.	1x Vari-Drop Applicator; 1x Operating Manual.



# LOCTITE 97111 Hand-Held Applicator

## Application Field

The LOCTITE 97111 Hand-held Applicator is for manual dispensing of single component products up to 15,000 cPs viscosity. It is recommended to be used with [LOCTITE RC30 Manual Reservoir](#).

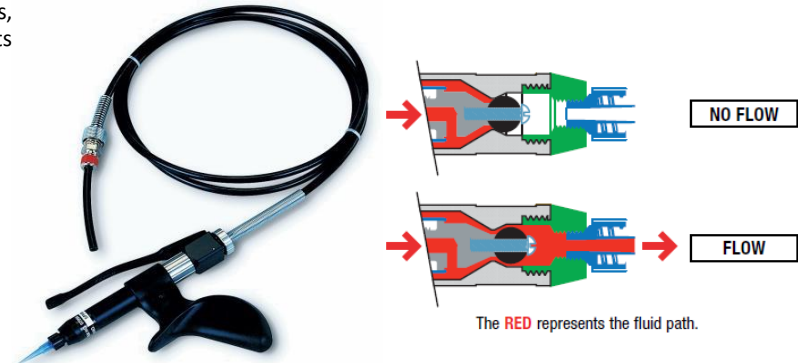
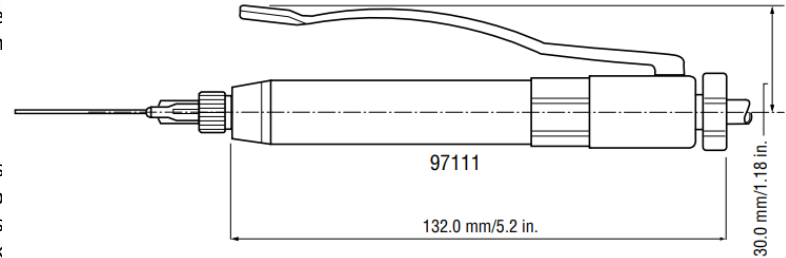
## Operation

The LOCTITE 97111 hand-held applicator is actuated by a finger trigger that is ergonomically designed for comfort, application control and a low actuation force to reduce hand fatigue. It also incorporates a suck-back feature which prevents dripping or stringing. This valve comes attached to a 2 meter length of 1/4 inch black feed line so no assembly is required. If dispensing an adhesive over 15,000 mPas, then a 3/8 inch feed line upgrade kit is available that will allow dispensing products up to 50,000 mPas viscosity.

## Product Features

- Ergonomically designed for hand comfort and application control
- Low actuation force to reduce hand fatigue
- Designed with a suck-back feature for dispensing accuracy and control
- Dispenses Loctite products up to 50,000 mPas with 3/8" feedline
- Dispenses Loctite products up to 15,000 mPas with 1/4" feedline

## Recommended Products



Technical Data	
Weight	0.100 kg
Product Feedline	1/4" O.D.
Items supplied	1x 97111 Hand-held applicator; 1x Applicator grip; 1x Sample needle kit; 1x Operation Manual

### Dispense Needles and Tips



### Dispense Valve Selector Chart 1K



# 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.

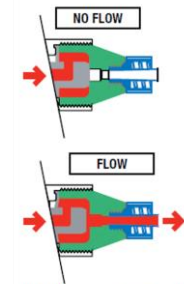
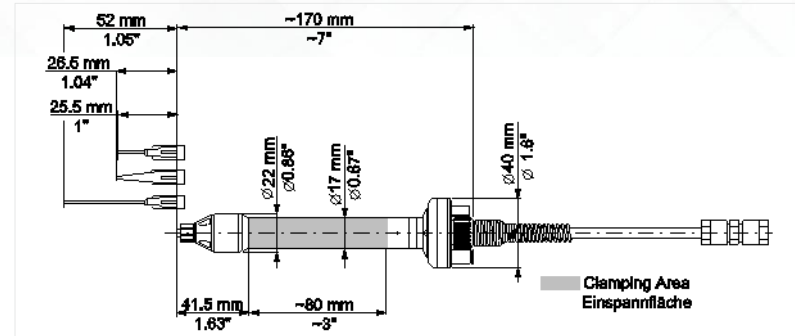
Within the shut off valve assembly, PTFE material is used for the area in contact with the adhesive to prevent curing of adhesive in this part of the valve.

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.

## Product Features

- 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

## Recommended Products



The RED represents the fluid path.

Technical Data	
Dimensions	170mm (L) x 40mm (D)
Weight	0.140 kg
Fluid Pressure	.25-2 bar (4-30 psi); Filtered 10µm, oil free, non condensing.
Pneumatic Supply	Minimum – 60 psi (4.8 bar) Maximum – 100 psi (7 bar)
Items supplied	1x 97130 Ergoloc valve, 1x Needle variety kit, 1x PTFE lined OD ¼"
Accessory	Footswitch IDH 88653, Fingerswitch IDH 531803



# LOCTITE 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.!

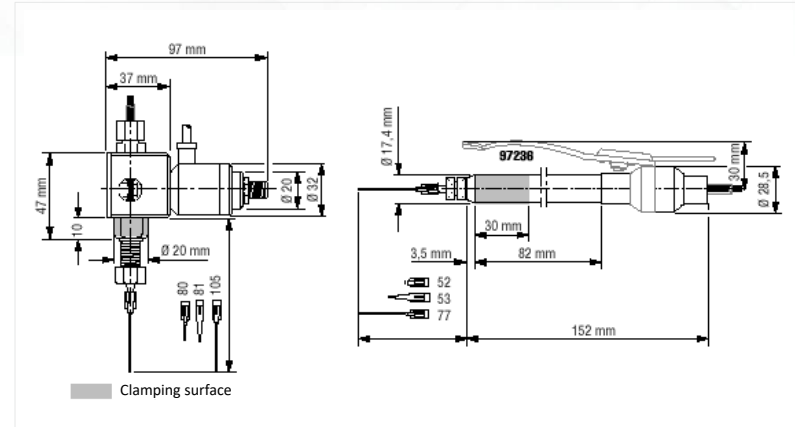
## Operation

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 tube (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 finger switch. 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.

## Product Features

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

## Recommended Products



Technical Data	
Weight	0.1 kg
Compresses Air Supply	Min. 5 bar (73 PSI), max. 7 bar (100 PSI); Filtered 10 µm, oil-free, non-condensing
Product Line	inner diameter 2.4mm
Control Air	outer diameter 4mm
Items supplied	1x 97121 Pinch valve; 4 x Sealing ring; 1x Product feedline 1/4"; 1x Applicator pencil; 1x Applicator grip; 1x Sample needle kit; 1x Product feedline kit 2,4mm x 0,4mm; 1x Operating Manual.



# LOCTITE 97112 Hand-Held Applicator



## Application Field

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

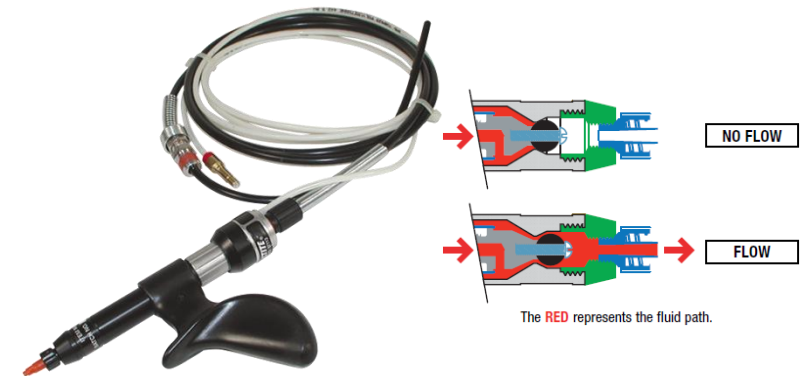
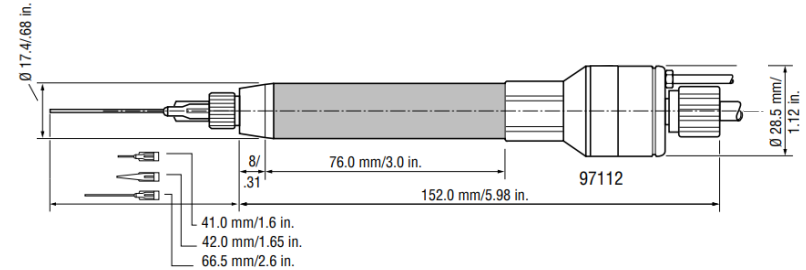
## Operation

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-meter, 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 50,000 mPas!

## Product Features

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

## Recommended Products



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





# 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 mPa.s 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.

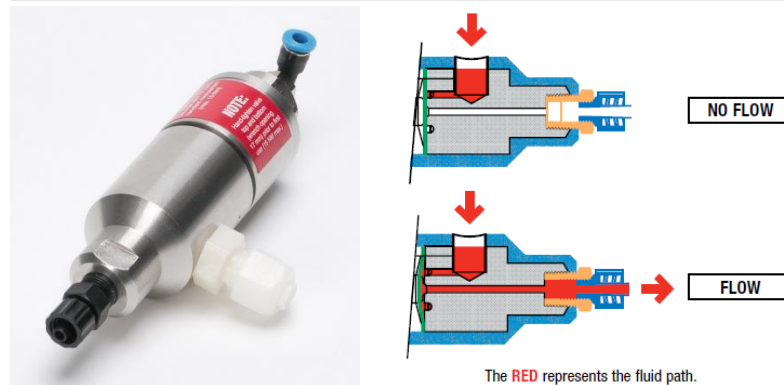
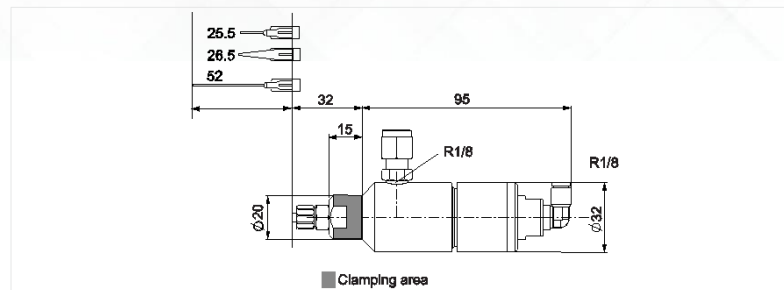
At the shut off valve assembly, PTFE material is used for the area in contact with the adhesive to prevent curing of adhesive in this part of the Diaphragm valve. The opening of the diaphragm valve takes place by pressuring an internal single acting cylinder. In the inactive position, the diaphragm valve 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.

## Product Features

- 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

## Recommended Products



Technical Data	
Dimensions	163,0 mm (L) x 44,5 (Dia.) mm
Weight	0.34 kg (0.75 lbs)
Air Input	Min. 5 bar (73 PSI), max. 7 bar (100 PSI); Filtered 10 µm, oil-free, non-condensing
Fluid Pressure	0,5 to 4 bar (7 to 58 psi)
Fluid Inlet	1/4" O.D Tube
	<b>97135</b> <b>97136</b>
IDH	215846                      215848
Viscosity Range (mPa.s)	Up to 2500                      2500 - 5000
Items supplied	1x 97135 Diaphragm Dispense valve, 1x Needle set, 1x airline 4 mm, 1x feed line 1/4" O.D.; 1x spring guard; 1x Operating Manual.                      1x 97136 Diaphragm Dispense valve, 1x Needle set, 1x airline 4 mm, 1x feed line 1/4" O.D.; 1x spring guard; 1x Operating Manual.



# 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

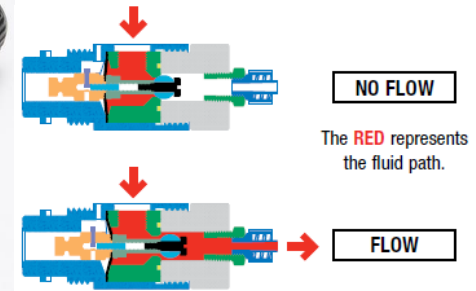
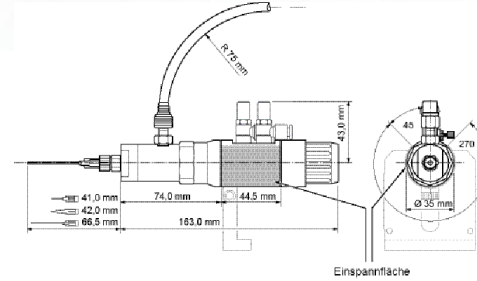
The LOCTITE Stationary Applicator Valve is a slim, lightweight, patented seal-less dispense valve designed for pressure-time applications. This valve is modular in design and consists of a product shut-off valve and valve actuator, providing quick on-line serviceability.

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.

## Product Features

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

## Recommended Products



Technical Data		
Dimensions	163,0 mm (L) x 44,5 (Dia.) mm	
Weight	0.34 kg (0.75 lbs)	
Air Input	Min. 4 bar (60 psi) Max. 5,5 bar (80 psi) Filtered 10 µm, oil-free, non- condensing	
Max. Fluid Pressure	5,5 bar (80 psi)	
	97113	97114
IDH	88644	88645
Viscosity Range (mPa.s)	Up to 15000	Up to 80000
Feedline Inlet	1/4"	3/8"
Items supplied	1x 97113 Stationary Dispensing valve, 1x Needle set, 2x airline 4 mm, 1x feed line 1/4" O.D.; 1x spring guard; 1x Operating Manual.	1x 97117 Stationary Dispensing valve, 1x Needle set, 2x airline 4 mm, 1x feed line 3/8" O.D.; 1x Fitting 1/4 NPT x 3/8 Tube; 1x spring guard; 1x Operating Manual.



# 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 affected 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 closing piston (max. 0.6 mm) and viscosity of the product to be processed.

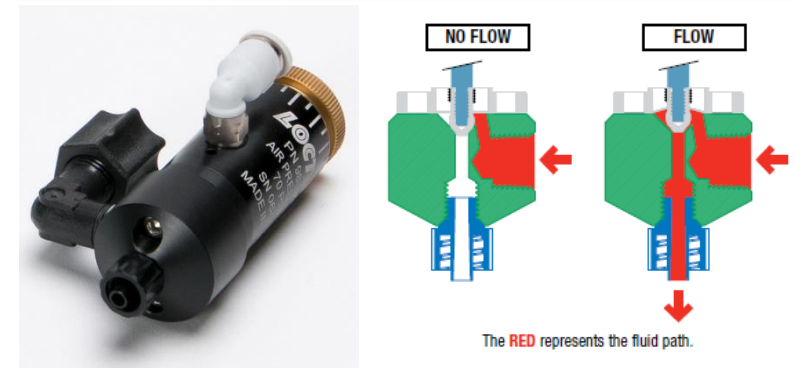
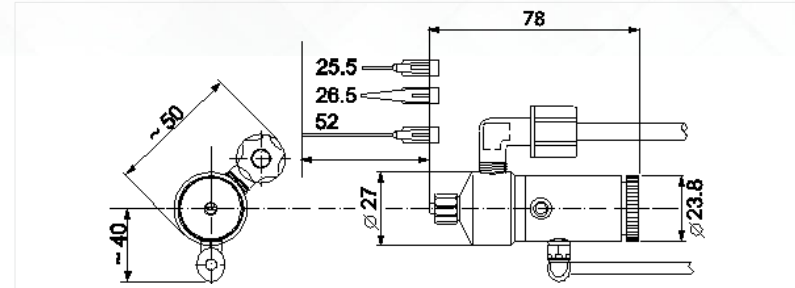
## Product Features

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

## Recommended Products



Note: Also recommended for Cyanoacrylates- Light Curable products



Technical Data	
Dimensions	78,5 mm (L) x 26,9 mm (D)
Weight	0.128 kg
Compressed Air Supply	Minimum 5 bar (73 PSI), maximum 7 bar (100 PSI); Filtered 10 µm, oil-free, non condensing.
Hose Size, Pilot Air Connection	Outer Diameter 4mm, Inner Diameter 2,5
Product Hose	Standard 1/4" O.D.
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 affected by pressure of the piston via a spring on the diaphragm. The diaphragm seals the product bore in the valve.

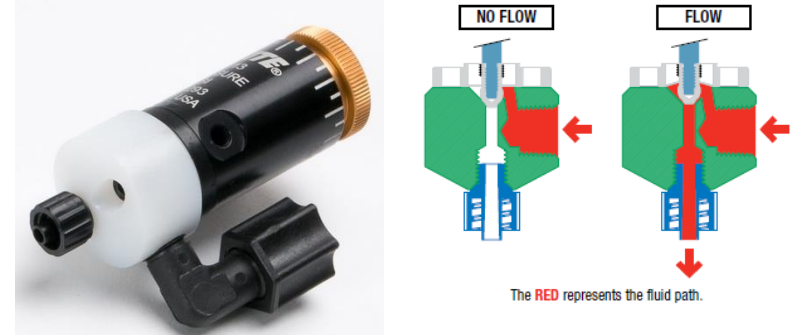
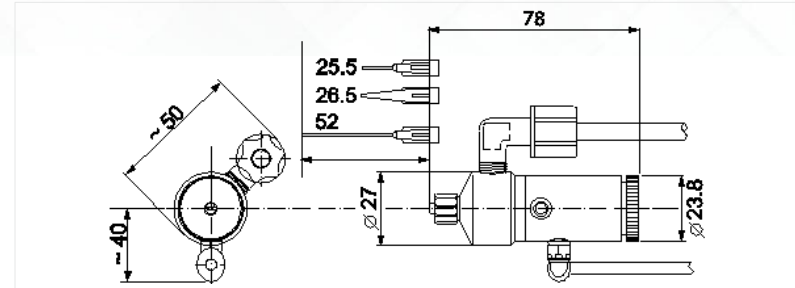
An inlet pressure of 4 to 6 bar moves the diaphragm seal, which is connected to a piston rod, over a preset path length so that product can flow into the diaphragm chamber.

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 closing piston (max. 0.6 mm) and viscosity of the product to be processed.

## Product Features

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

## Recommended Products



Technical Data	
Dimensions	78,5 mm (L) x 26,9 mm (D)
Weight	0.128 kg
Compressed Air Supply	Minimum 5 bar (73 PSI), maximum 7 bar (100 PSI); 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-closed 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 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 closing 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](#).

## Product Features

- 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

## Recommended Products



### 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); 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

### Dispense Needles and Tips



### Dispense Valve Selector Chart 1K



# 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.

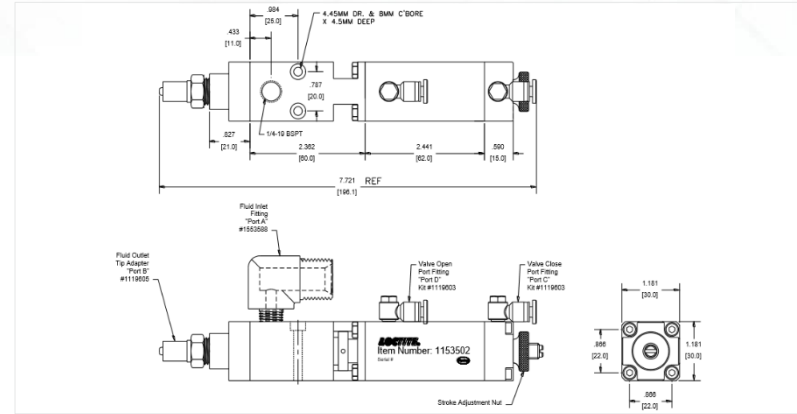
## Operation

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).

## Product Features

- Handles high viscosity adhesives approx. 500,000 to 2,000,000 mPas.
- 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).

## Recommended Products



Technical Data	
Weight	0.68 kg
Pneumatic Supply	min. 4 bar (55 PSI) – max. 6 bar (85 PSI); Filtered 10 µm, oil-free, non condensing
Pneumatic Tube Size	External Dia. 4 mm, internal Dia. 2.5 mm
Max. Product Pressure	150 bar (2185 psi)
Items supplied	150 bar dispense valve, Fluid inlet/outlet fittings, air input fitting, 2 metre airline (Needles must be ordered separately)





# LOCTITE 97664 Shut-Off Valve for Silicones

## Application Field

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

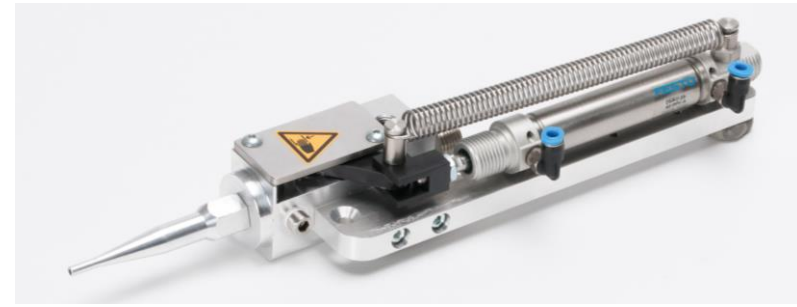
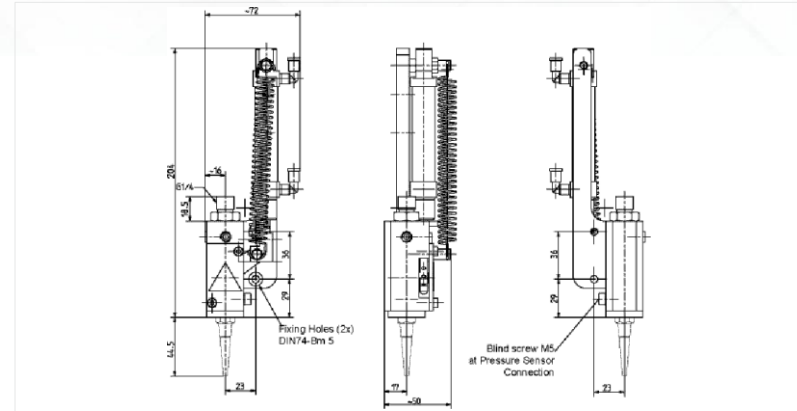
## Operation

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 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.

## Recommended Products

SI

MSP



Technical Data	
Weight	0.6 kg
Pneumatic Supply	min. 5 bar (73 PSI) – max. 10 bar (145 PSI); Filtered 10 µm, oil-free, non condensing
Pneumatic Tube Size	External Dia. 4 mm, internal Dia. 2.5 mm
Connection Thread Feedline/Pump	G ¼"
Max. Product Pressure	40 bar (580 psi)
Items supplied	97664 Shut-Off valve (Needle must be ordered separately)

Dispense Valve Selector Chart 1K	97664 Dispensing Needles		
	Inner Diameter (mm)	IDH	Description
	2,0	523142	DISPENSING NOZZLE 2MM (1 un)
	2,5	529537	DISPENSING NOZZLE 2,5MM (1 un)



# LOCTITE EQ VA26 Dispense Valve



## Application Field

The Loctite® VA26 Dispense Valve is a high precision, double-acting dispense valve that is used to dispense medium to high viscosity silicones, MS polymers and urethane products. It features a suck back capability and can operate at fluid pressures up to 725 psi. This Valve is recommended for use with the [High Pressure 300 ml Cartridge Dispenser](#).

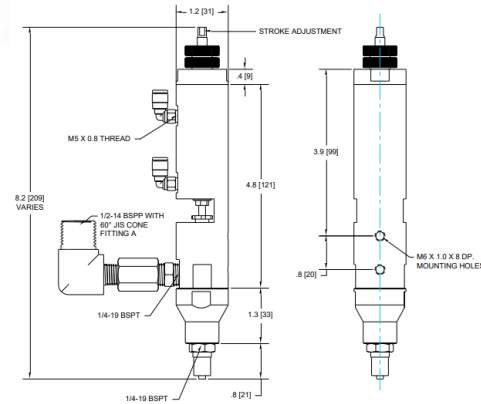
## Product Features

- Handles high viscosity adhesives approx. 10.000 to 100.000 mPas.
- 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 725 psi. (50 bar).

## Recommended Products



**Note: Not for dispensing anaerobic chemistry-based products.**





Technical Data	
Weight	0.54 kg
Pneumatic Supply	Max. 6,8 bar (100 PSI); Filtered 10 µm, oil-free, non condensing
Pneumatic Tube Size	External Dia. 4 mm, internal Dia. 2.5 mm
Max. Product Pressure	50 bar (725 psi)
Items supplied	1x VA26 dispense valve, 2x air line tubing 4mm O.D. 2m long, 1x Operating Manual.



# Start Signal Options



<p>IDH 88653 97201 Footswitch</p> 	<p>IDH 531803 97293 Fingerswitch for Ergoloc valve</p> 	<p>IDH 142644 97236 Fingerswitch for Pinch Valve</p> 	<p>IDH 530015 Proximity Switch Unit (inductive)</p> 	<p>IDH 529887 Proximity Switch Unit (capacitive)</p> 
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# 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

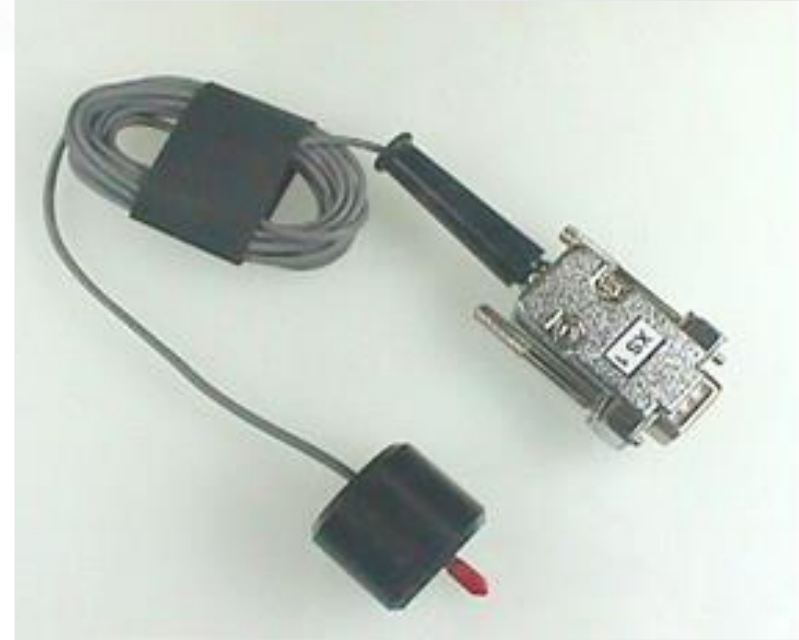
## Application Field

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

<b>Weight</b>	0.06 kg
<b>Electrical Connection</b>	Standard male 9 pin D connector
<b>Items supplied</b>	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 97121 Pinch Valve](#) and [LOCTITE 97112 Hand-Held Applicator](#).

## 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 (Capacitive)

## Application Field

The LOCTITE Proximity switch stand (Capacitive) is designed to initiate a dispense cycle when the sensor is contacted by nonmetallic 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. **The valve is sold separately.**

## 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	1x Proximity stand; 1x Capacitive sensor; 1x Adapter Cable for RC50 Integrated System. (Valve must be ordered separately)





# 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. **The valve is sold separately.**

## 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

<b>Weight</b>	0.6 kg
<b>Electrical connection</b>	Standard male 9 pin D connector
<b>Items supplied</b>	1x Proximity stand; 1x Inductive sensor; 1x Adapter Cable for RC50 Integrated System. (Valve must be ordered separately)



# Dispense Needles and Tips



















Illustration / Example	Item No.	Order No.	Pack Size	Colour	Gauge	Inner $\phi$ , mm
<b>Flexible Dispensing Tips: Dispensing Needle, Polypropylene (PPF), Helical Thread</b>						
	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
<b>Tapered Dispensing Tips: Dispensing Needle, Polyethylene – Conical (PPC), Luer-Lock</b>						
	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
<b>High Precision Dispensing Tips: Dispensing Needle, Stainless Steel Standard (SSS), Luer-Lock</b>						
	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
<b>Additional Dispensing Tips</b>						
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		
	97248	218275	50 pcs	Luer-Lock® tip caps		



# Feed Line and Fittings










Feed Line			
Illustration	Order No.	Description	Where used
	142646	PTFE Lined Tube 1/4" O.D. (10 meters)	Various
	142645	PTFE Lined Tube 3/8" O.D. (10 meters)	Various
	1087219	Tubing PTFE clear O.D. 1,6 mm (20 meters)	PU20 Digital Peristaltic Dispenser
	1109147	Tubing PTFE black O.D. 1,6mm (20 meters)	PU20 Digital Peristaltic Dispenser
	1001830	Tubing PTFE clear O.D. 2,0mm (20 meters)	PU20 Digital Peristaltic Dispenser
	1109318	Tubing PTFE black O.D. 2,0mm (20 meters)	PU20 Digital Peristaltic Dispenser
	1109317	Tubing PTFE clear O.D. 2,5mm (20 meters)	PU20 Digital Peristaltic Dispenser
	1070736	Tubing PTFE black O.D. 2,5mm (20 meters)	PU20 Digital Peristaltic Dispenser
	1019162	Tubing PTFE clear O.D. 3,2mm (20 meters)	PU20 Digital Peristaltic Dispenser
	1070735	Tubing PTFE black O.D. 3,2mm (20 meters)	PU20 Digital Peristaltic Dispenser

Fittings			
Illustration	Order No.	Description	Where used
	360636	TANK FITTING 1/4 NPTx1/4 TUBE (1 pc)	Reservoirs and Integrated Systems
	360633	TANK FITTING 1/4 NPT x 3/8 TUBE (1 pc)	Reservoirs and Integrated Systems
	88672	Luer-Lock® adapter kit: 20 Luer-Locks® and 2 adapters	Dispense Valves
	479882	ELBOW FITTING, 1/4 Tube X 1/8M NPT (10 pc)	Dispense Valves
	360634	Fitting 1/8M NPT x 1/4 Tube (1 pc)	97113 Dispense Valve
	360636	Fitting 1/8M NPT x 3/8 Tube (1 pc)	97114 Dispense Valve
	529510	Spring Guard Tube 1/4" (1 pc)	Reservoirs and Integrated Systems

# Syringe Consumables and Supplies

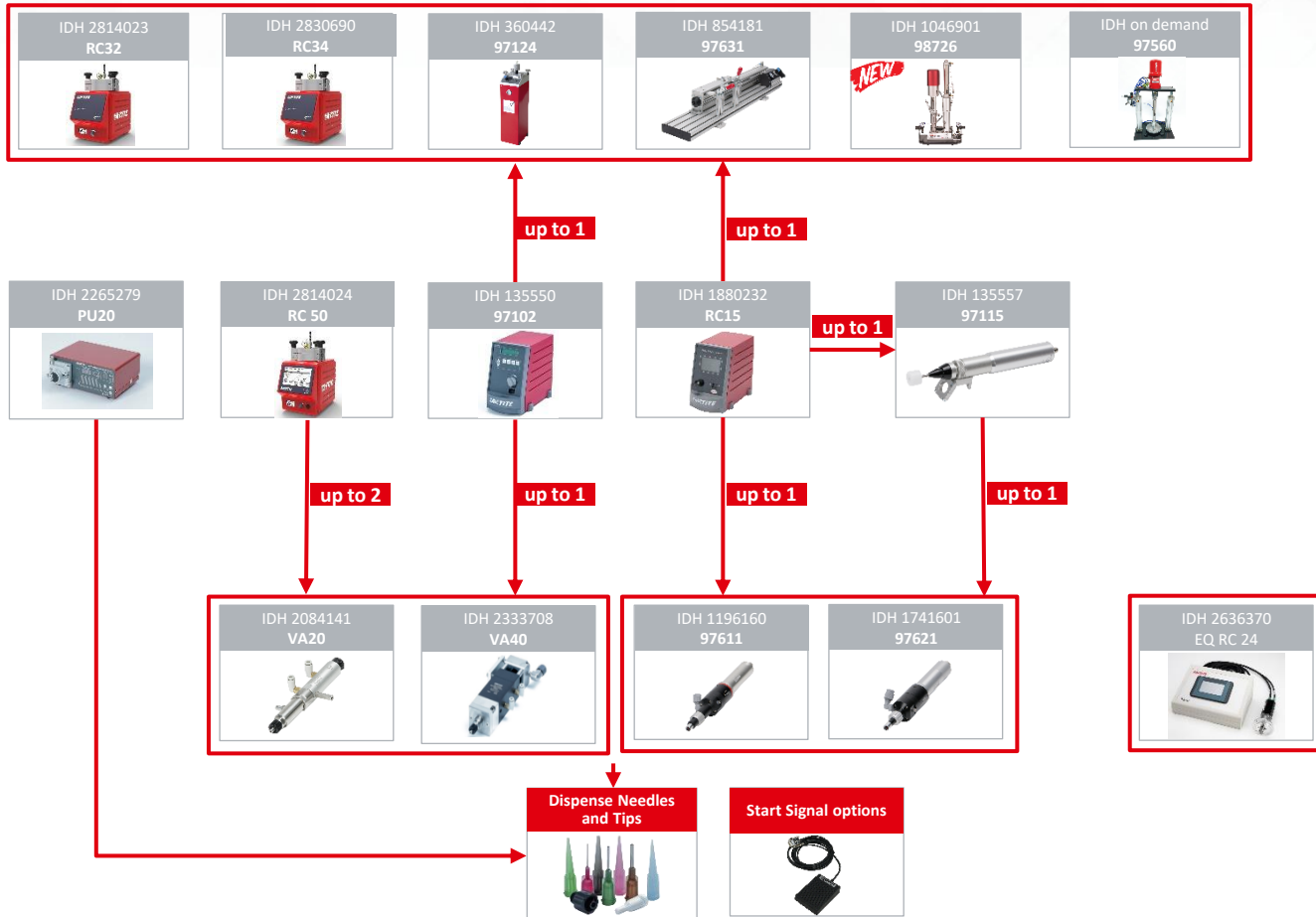


Illustration	Item No.	Order No.	Pack Size	Description
	97207	88656	40 pcs	10 ml clear syringe barrel kit
	97263	218287	40 pcs	10 ml black syringe barrel kit, for UV and light cure adhesives
	97208	88657	2 pcs	10 ml syringe airline adapter
	97244	88677	20 pcs	30 ml clear syringe barrel kit
	97264	218286	20 pcs	30 ml black syringe barrel kit, for UV and light cure adhesives
	97245	88678	2 pcs	30 ml syringe airline adapter
	97248	218275	50 pcs	Luer-Lock® tip caps





# Volumetric Dispensing Systems – 1K



# LOCTITE RC32 Automatic Reservoir SP

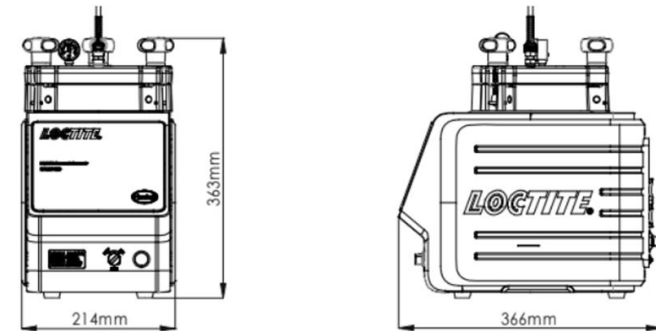
## Application Field

The LOCTITE EQ RC32 Automatic Reservoir is equipped with a single point low level sensor that sends an electronic signal to a LOCTITE controller. It is typically integrated into a dispensing system that consist of a dispensing valve and one of LOCTITE controllers.

## Product Features

- Modular design allows user to build suited application process
- Operational with manual, semi-automatic and automatic controllers
- Low level sensor alarm provides warning for adhesive bottle replacement
- Integrated solenoid vent valve

## Recommended Packages



Technical Data	
Dimensions	214 mm x 366 mm x 363 mm (W x D x H)
Weight	4.0 kg
Internal Control Voltages	24 VDC
Pneumatic Supply	Clean, dry air not exceed 8 bar (116 psi) and filtered with a maximum of 10 micron
Pneumatic Hose Size	External dia. 6 mm
Items supplied	1x RC32 Automatic Reservoir SP; 2x ¼" NPT x ¼" Tubbing (One already installed); 1x Bottle Holder; 1x Anti-bubbler Kit; 1x XS2 Cable; 1x Bottle spacer; 1x Operating Manual.



# LOCTITE RC34 Automatic Reservoir DP

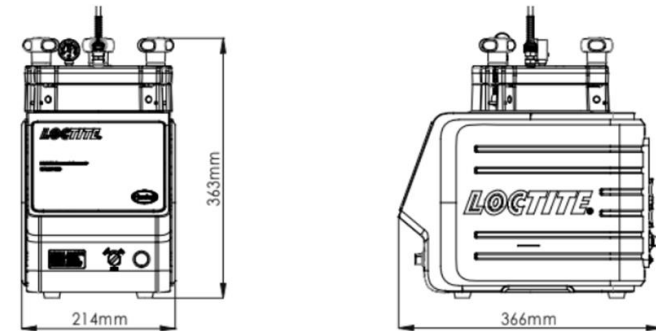
## Application Field

The LOCTITE EQ RC34 Automatic Reservoir DP is equipped with an analogue low level sensor that sends an electronic signal to a LOCTITE controller. It is typically integrated into a dispensing system that consist of a dispensing valve and one of LOCTITE controllers.

## Product Features

- Modular design allows user to build suited application process
- Operational with manual, semi-automatic and automatic controllers
- Low level sensor alarm provides warning of refill and empty for adhesive bottle replacement
- Integrated solenoid vent valve

## Recommended Packages



Technical Data	
Dimensions	214 mm x 366 mm x 363 mm (W x D x H)
Weight	4.0 kg
Internal Control Voltages	24 VDC
Pneumatic Supply	Clean, dry air not exceed 8 bar (116 psi) and filtered with a maximum of 10 micron
Pneumatic Hose Size	External dia. 6 mm
Items supplied	1x RC34 Automatic Reservoir DP; 2x ¼" NPT x ¼" Tubbing (One already installed); 1x Bottle Holder; 1x Anti-bubbler Kit; 1x XS2 Cable; 1x Bottle spacer; 1x Operating Manual.





# LOCTITE RC50 Integrated Dispenser I4.0

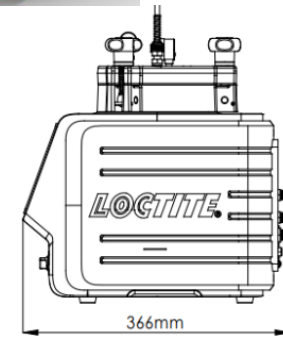
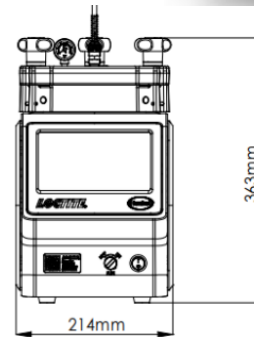
## Application Field

The LOCTITE PULSE EQ RC50 Integrated Semi-Automatic Dispenser combines a dual channel dispense controller and a reservoir into a single unit. The dispenser provides two independent digital timing channels that provide control of two pneumatic outputs. These outputs can be used to control dispense valves or any other pneumatic device. The dispenser can be actuated either by the start/stop button on the front touch panel, a footswitch (included), or external start signal. It is capable of operating in a timed or continuous mode for dot or bead dispensing applications. The reservoir is suitable for manual workstations as well as integration into automated production lines. The dispenser includes an integrated 'Industry 4.0' function to enable remote communication via Wi-Fi, Bluetooth or ethernet.

## Product Features

- Controls up to two dispense valves
- Two independent digital timing channels
- Low level sensor alarm provides warning for adhesive bottle replacement
- Interface connections for customer's PLC to indicate reservoir low level condition and cycle complete signal
- User friendly HMI included with easy-to-use large touch panel for entering values
- Equipped with a 0 to 7 bar (0-100psi) digital pressure regulator (electronic proportional valve)
- Digital pressure gauge included
- Time range is adjustable from 0.01 to 99.99 seconds
- Timed and continuous mode options can be selected
- Manual button for purging adhesive from valves
- Powerful I4.0 function - Provides convenient remote user access in real time via Wi-Fi, Bluetooth, or Ethernet

## Recommended Packages



Technical Data	
Dimensions	214 mm x 366 mm x 363 mm (W x D x H)
Weight	5.0 kg
Internal Control Voltages	24 VDC
Input Voltage	100-240 VAC, 50-60 Hz
Power Connections	Plug Ends for North America, Japan, Continental Europe, UK, Australia and China
Pneumatic Hose Size	External dia. 6 mm
Items supplied	1x RC50 Integrated Dispenser I4.0; 2x ¼" NPT x ¼" Tubbing (One already installed); 1x Foot Switch; 1x Universal Power Adapter; 1x Bottle Holder; 1x Anti-bubbler Kit; 1x Bottle spacer; 1x USB Stick (for firmware update); 1x Operating Manual.



# LOCTITE 97124 2 L Bag Dispenser

## Application Field

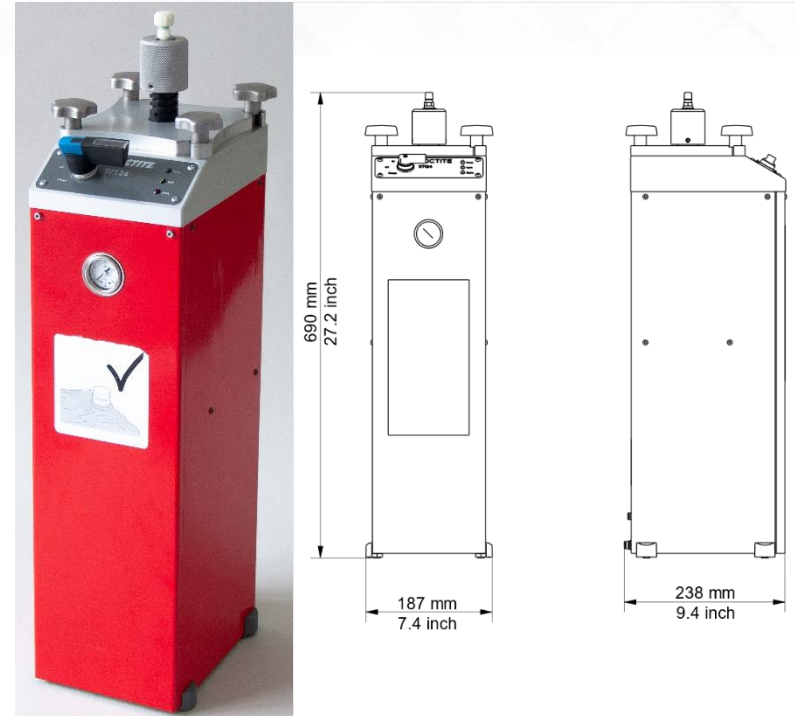
The Bag Reservoir 97124 is suitable for the application of LOCTITE adhesives with a dispensing valve at workstations such as in workshops, laboratories, and industrial installations.

## 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	97124 2L Bag Dispenser, Tank cord, Product fitting 1/4", Piercing element 5mm, Reservoir tubing set, Operating Manual

# LOCTITE 97631 300 ml Cartridge Dispenser

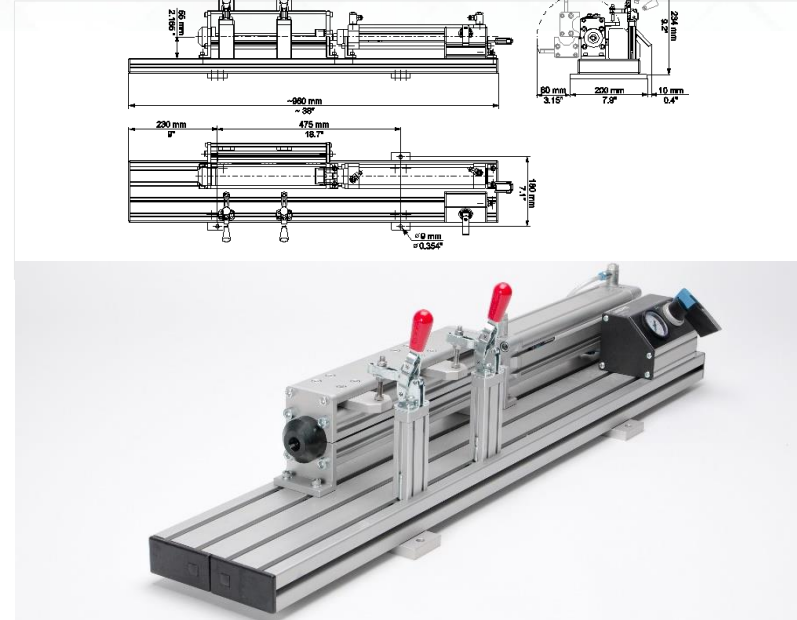
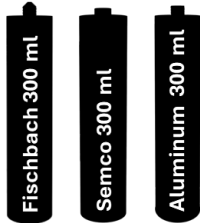
## Application Field

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.

## Recommended Packages



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 3/8"
Product Fitting Thread	Standard G 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 High Pressure Cartridge Dispenser

## Application Field

The Loctite® High Pressure Cartridge Dispenser is designed for dispensing high viscosity 1-component adhesives and sealants. Compatible Loctite® product chemistries include: Silicone, Polyurethane and MS polymer adhesives. The dispenser can be used as a manual dispenser or integrated with a controller and dispensing valve for automated dispensing.

The Loctite® High Pressure Cartridge Dispenser **cannot** be used with other product chemistries, like anaerobic products, UV acrylates or cyanoacrylates.

## Operation

The cartridge dispenser consists of three main components: the pneumatic priming ram, adhesive reservoir block and the 10:1 pump. The pneumatic ram is used to provide a low pressure feed of adhesive to the reservoir block. The 10:1 pump draws product from the reservoir block and amplifies the pressure by a factor of 10 and feeds the product through a feedline to the valve.

The unit has two regulators to control the pressure of the pneumatic priming ram and the 10:1 pump. By increasing the pressure of either of these regulators the outlet pressure of the dispenser will be increased. The primary product regulation should be controlled using the pump regulator and the pneumatic ram regulator should be set to supply product at just enough pressure to feed the reservoir.

The 110 – 240 VAC power cable plugs to the electrical junction box and supplies power to the 10:1 pump via the low level relay.

The low level sensor is mounted to the pneumatic priming ram to indicate when the adhesive cartridge is empty. When activated, the low level sensor will provide a signal to the COM port on the electrical box and turn the 10:1 pump off.

## Recommended Packages

Fischbach 300 ml

## Recommended Products



**NEW**

Technical Data	
Dimensions (D; W; H)	210; 355; 687 mm
Weight	5,0 kg
Input Voltage	110 – 240 VAC 50/60 Hz (Voltage fluctuation not to exceed 10% of nominal voltage)
Rated Power	20 W
Pneumatic supply	Max. 6 bar; Filtered 10 µm, oil-free, non-condensing.
Air Consumption	80 Liter/min (0.7 CFM) maximum
Pump Cycle Rate	200 cycles/minute maximum
Pressure output	50 bar maximum
Viscosity Range	10.000 – 1.000.000 mPa.s
Items supplied	1x High Pressure Cartridge Dispenser; 2x Cartridge Adaptor Inserts; 1x PTFE Lined Stainless Steel Braided Feedline (2m long); 1x Power Cord; 1x XS2 Connection Cable; 1x Low Level Sensor with Cable (1m long) – Already Installed; 1x Air Supply Line (2m long); 1x Lubricant Oil; 1x Operation Manual.

# LOCTITE 97560 Extrusion Pump 26:1

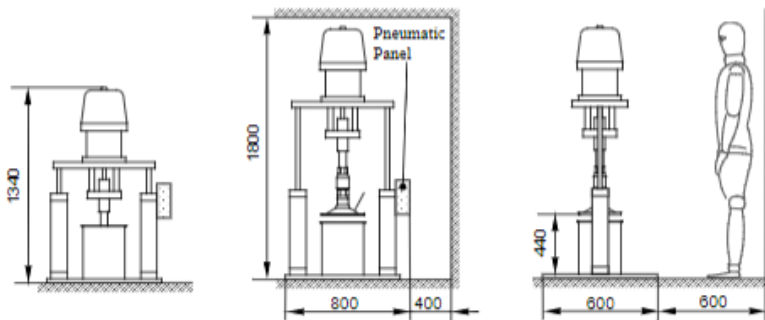
## Application Field

The Extrusion Pump 26:1 is a high-pressure pneumatic pump used for extrusion and transfer of high viscous and paste products. The pump is essentially constituted of an air motor and the pumping group, mounted on a ram. In the air motor, compressed air causes the vertical reciprocating movement of the motor piston; this movement is transmitted through a connecting rod to the material pumping piston ending with a shovel plate allowing to suck very viscous products. The shovel plate (follower plate) is supplied with a series of gaskets able to protect the product contained in the pail from powder, moisture and drying process caused by the touch with air. The use of the ram enables to drive the sucking unit of the pump during the product intake phase directly into the 20 l pails. The ram can automatically compensate the shovel plate descent during the use of the product. This system allows lifting of the extrusion pump for a quick replacement of the pail when it is empty. The ratio 26:1 means that the outlet pressure of product is 26 times higher than the pump feed air pressure. In order to ensure best product compatibility, the pumping group and sealing balls are made from stainless steel.

*Please consult Regional Equipment Application Engineering Team for further information!*



## Space Requirements



Technical Data	
Dimensions	800 mm (L) x 600 mm (W) x 1800 mm (H)
Weight	67 kg
Pneumatic supply	Max. 7 bar (100 psi)
Pressure input min	max. 3.5 bar (50 psi)
Material Outlet	G 3/4" female
Maximal Output Pressure	182 bar (2730 psi) for 26:1
Max product flow rate	4 liter/min (26:1)



Special Equipment

**LOCTITE**

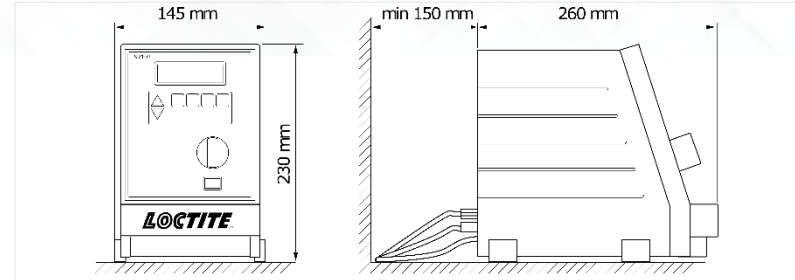
# LOCTITE 97102 Semi-Automatic Controller

## 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 97102 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.



Technical Data	
Dimensions	145 mm (W) x 230 mm (H) x 260 mm (D)
Weight	2.8 kg
Power Supply	90 – 260 VAC; 47 – 63 Hz
Power Consumption	Approx. 40 W
Compressed Air Supply	min. 2 bar (29 psi); max. 12 bar (174 psi)
Pneumatic Tube	
▪ Control Air Connection O.D.	6 mm +0.05 -0.10
▪ Dispensing Valve O.D.	4 mm +0.05 -0.10
▪ Reservoir O.D.	6 mm +0.05 -0.10
Continuous Sound Pressure Level	< 70 dB(A)
Items supplied	97102 Semi-Auto Controller, Power cord, Pneumatic tubing OD 6mm x 1.2m, Operating Manual



# 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 [97115 Rotorspray](#) control (if used). The application field depends on the supplementary equipment.

## Operation

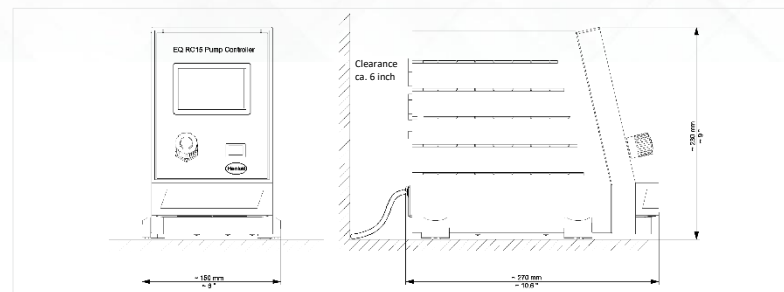
The EQ RC15 unit controls the drive of a connected rotor pump in a way that a precise dosage is made upon a simple digital start signal.

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.

## Product Features

- 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 tube, control air connection O.D.	6 mm
Pneumatic tube, 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 Rotorspray

## Application Field

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

## Operation

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

The product is dispensed through the wetting holes by centrifugal force and uniformly distributed onto the cylindrical inner surface of the part.

The head of the Rotorspray 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.

## Product Features

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

Dispensing spot cannot be reached? Please contact Local Equipment Specialist (Level 2) and ask for a “rotor prolongation”.

## Recommended Products



Rotor Disc Available					
Outer Diameter (mm)	IDH	Description	Outer Diameter (mm)	IDH	Description
10	529513	Rotor Disc O.D. 10mm (1 un.)	30	529533	Rotor Disc O.D. 30mm (1 un.)
15	529524	Rotor Disc O.D. 15mm (1 un.)	35	806098	Rotor Disc O.D. 35mm (1 un.)
20	88813	Rotor Disc O.D. 20mm (1 un.)	40	529534	Rotor Disc O.D. 40mm (1 un.)
25	529515	Rotor Disc O.D. 25mm (1 un.)			

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 Rotorspray, Rotor disc O.D. 10mm (IDH 529513) & O.D. 25mm (IDH 529515), rotor cord, operation manual, different mounting clamps for 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 small 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.

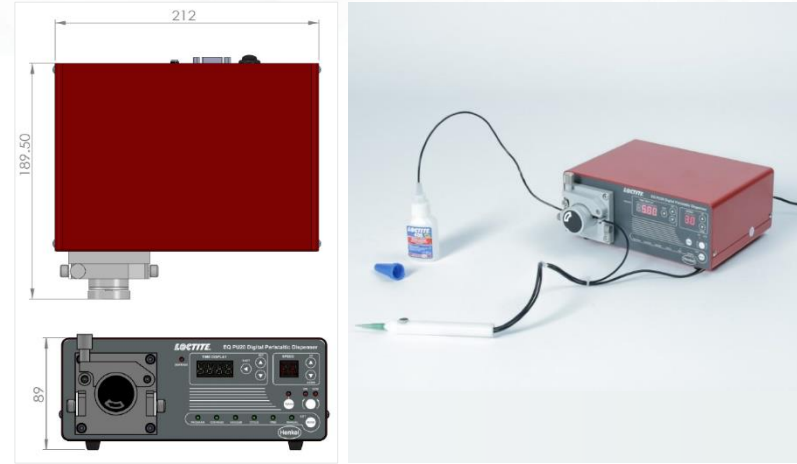
## Product Features

- 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.

## Recommended Products



## Recommended Packages



### 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	1x PU20 Digital Peristaltic Dispenser; 1x Manual Applicator (IDH # 2737712); 1x Tip Adapter 1.6mm (IDH # 2737714); 1x Tip Adapter 2.0mm (IDH # 2737715); 1x Tip Adapter 2.5mm (IDH # 2737716); 1x Tip Adapter 3.2mm (IDH # 2737717); 1x Tubing, Black, ID 1.7 x 0.4 mm (OD 2.5), 1 m long; 1x Tubing, Black, ID 2.4 x 0.4 mm (OD 3.2), 1 m long; 1x Tubing, Clear, ID 1.4 x 0.3 mm (OD 2.0), 1 m long; 1x Tubing, Clear, ID 1.0 x 0.3 mm (OD 1.6), 1 m long; 1x Operation Manual

### Dispense Needles and Tips



### Feed Line and Fittings



# LOCTITE EQ RC24 Volumetric Dispense System

## Application Field

The LOCTITE EQ RC24 is a Controller and Servo drive designed to operate the High Volume 1k Volumetric Pumps\*. The lightweight design makes it ideal for mounting to an EQ RB40 Benchtop Robot.

## Operation

The pump system EQ RC24 consists of a control unit in a casing as well as a brushless servomotor planetary gear combination with supply and signal lines.

The EQ RC24 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.

### \*Note:

**Please, contact Equipment Engineering Team to find out the current High Volume 1K Volumetric Pumps' options.**



Technical Data	
Dimensions	198 x 290 x 120 / 56 mm
Weight	4 kg (Servo drive)
Supply Voltage	230V/50Hz
Items supplied	EQ RC24 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.

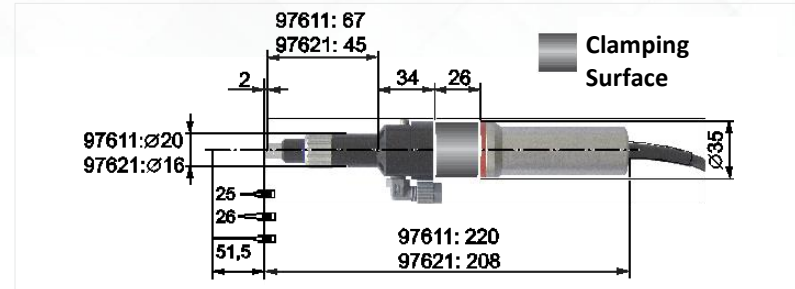
## Operation

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.

## Product Features

- 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

## Recommended Products



Technical Data	
Dimensions	206 mm (L) x $\varnothing$ 33 mm
Weight	0.380 kg
Minimum Quantity	0.001 ml (1 $\mu\text{l}$ )
Accuracy	$\pm 1\%$
Flow Rate	120 to 1.480 $\mu\text{L}/\text{min}$
Input Pressure	0 - 6 bar
Max. Dispensing Pressure	16 bar
Intrinsic Tightness	ca. 2 bar
Viscosity range	up to 100.000 mPa.s
Items supplied	97621 Volumetric Rotor Pump 1.0, Operation manual, 1/4" feedline, mounting tools

### Dispense Needles and Tips



# 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 $\mu$ L/min. It is designed for anaerobic, light cure and acrylic adhesives.

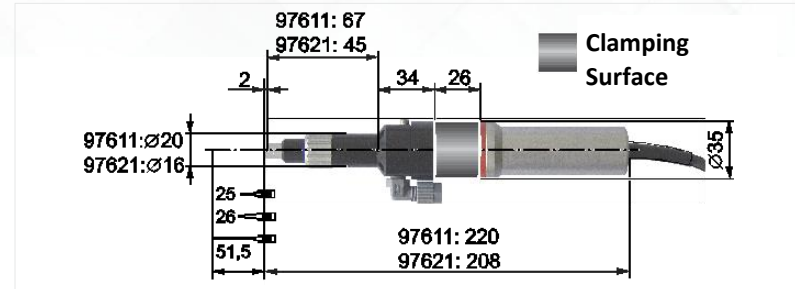
## Operation

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.

## Product Features

- 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

## Recommended Products



Technical Data	
Dimensions	220 mm (L) x $\varnothing$ 35 mm
Weight	0.300 kg
Minimum Quantity	0.004 ml (4 $\mu$ l)
Accuracy	$\pm$ 1%
Flow Rate	500 to 6.000 $\mu$ l/min
Input Pressure	0 - 6 bar
Max. Dispensing Pressure	16 to 20 bar
Intrinsic Tightness	ca. 2 bar
Viscosity range	up to 100.000 mPa.s
Items supplied	97611 Volumetric Rotor Pump 4.0, Operation manual, 1/4" feedline, mounting tools

### Dispense Needles and Tips



# 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

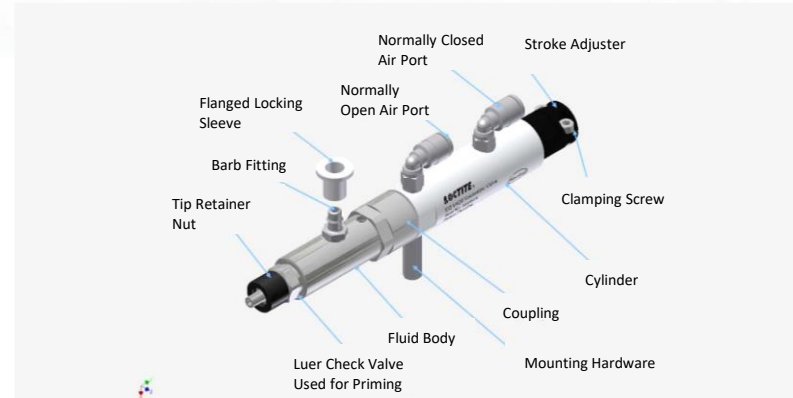
The LOCTITE EQ VA20 Volumetric Valve is a positive displacement metering valve which dispenses a precise volumetric drop of adhesive with each cycle. The EQ VA20 is designed with a flooded chamber and a single check valve that allows for quick priming and minimizes the need for re-priming. The priming 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.

## Product Features

- 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 centers
- Tool free fluid line hook up that can be oriented 360°
- Easy integration with LOCTITE integrated systems, reservoirs and controllers.

## Recommended Products

LC



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,

### Dispense Needles and Tips





# LOCTITE EQ VA40 CA Volumetric Valve

## Application Field

The LOCTITE EQ VA40 CA Volumetric Valve is a positive displacement metering valve which dispenses a precise volumetric drop of adhesive with each cycle. The LOCTITE EQ VA40 is specifically design to dispense drops of Cyanoacrylate with precise dosing in the range of 1.5 to 6 microliters.

Pair it with [RC50 Integrated Dispenser I4.0](#) for a complete dispensing system.

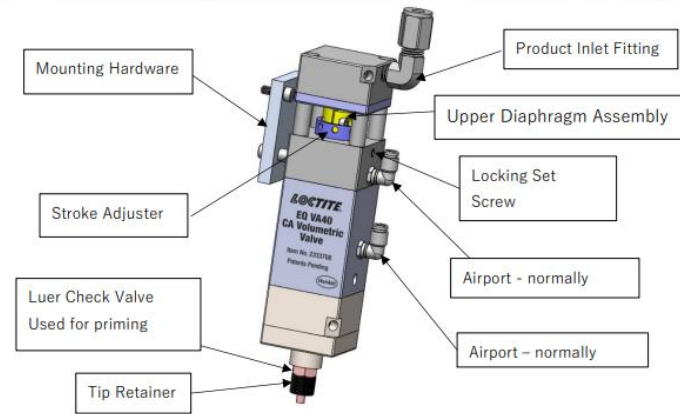
## Operation

The EQ VA40 utilizes a flooded chamber and a single check valve that allows for quick priming and minimizes the need for re-priming. The priming system uses a patent pending check valve design which improves the speed and reliability of priming. The innovative displacement rod and sealing system of the VA40 design provide long dispensing life before rebuild is needed.

## Product Features

- Volumetric displacement quick and reliable priming
- Dosing range, 1.5 – 6 microliters Stackable configuration on 19mm centres
- Cycle rate, 120/minute
- Adjustable Stroke
- Positive displacement is independent of external influences such as pressure, viscosity, and temperature.
- Quick and reliable priming
- Long Life > 1Million cycles
- Easy integration with LOCTITE integrated systems, reservoirs and controllers.

## Recommended Products



Technical Data	
Dimensions	1.5" x 1.5" x 7.0"
Weight	0.8 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 VA40 CA Volumetric Valve, Needle kit, operation manual, PTFE lined feedline, 2 x airline 4 mm

### Dispense Needles and Tips



# 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 and Tips









Illustration / Example	Item No.	Order No.	Pack Size	Colour	Gauge	Inner $\phi$ , mm
<b>Flexible Dispensing Tips: Dispensing Needle, Polypropylene (PPF), Helical Thread</b>						
	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
<b>Tapered Dispensing Tips: Dispensing Needle, Polyethylene – Conical (PPC), Luer-Lock</b>						
	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
<b>High Precision Dispensing Tips: Dispensing Needle, Stainless Steel Standard (SSS), Luer-Lock</b>						
	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
<b>Additional Dispensing Tips</b>						
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		
	97248	218275	50 pcs	Luer-Lock® tip caps		

# Feed Line and Fittings



Feed Line			
Illustration	Order No.	Description	Where used
	142646	PTFE Lined Tube 1/4" O.D. (10 meters)	Various
	142645	PTFE Lined Tube 3/8" O.D. (10 meters)	Various
	1087219	Tubing PTFE clear O.D. 1,6 mm (20 meters)	PU20 Digital Peristaltic Dispenser
	1109147	Tubing PTFE black O.D. 1,6mm (20 meters)	PU20 Digital Peristaltic Dispenser
	1001830	Tubing PTFE clear O.D. 2,0mm (20 meters)	PU20 Digital Peristaltic Dispenser
	1109318	Tubing PTFE black O.D. 2,0mm (20 meters)	PU20 Digital Peristaltic Dispenser
	1109317	Tubing PTFE clear O.D. 2,5mm (20 meters)	PU20 Digital Peristaltic Dispenser
	1070736	Tubing PTFE black O.D. 2,5mm (20 meters)	PU20 Digital Peristaltic Dispenser
	1019162	Tubing PTFE clear O.D. 3,2mm (20 meters)	PU20 Digital Peristaltic Dispenser
	1070735	Tubing PTFE black O.D. 3,2mm (20 meters)	PU20 Digital Peristaltic Dispenser

Fittings			
Illustration	Order No.	Description	Where used
	360636	TANK FITTING 1/4 NPTx1/4 TUBE (1 pc)	Reservoirs and Integrated Systems
	360633	TANK FITTING 1/4 NPT x 3/8 TUBE (1 pc)	Reservoirs and Integrated Systems
	88672	Luer-Lock® adapter kit: 20 Luer-Locks® and 2 adapters	Dispense Valves
	479882	ELBOW FITTING, 1/4 Tube X 1/8M NPT (10 pc)	Dispense Valves
	360634	Fitting 1/8M NPT x 1/4 Tube (1 pc)	97113 Dispense Valve
	360636	Fitting 1/8M NPT x 3/8 Tube (1 pc)	97114 Dispense Valve
	529510	Spring Guard Tube 1/4" (1 pc)	Reservoirs and Integrated Systems

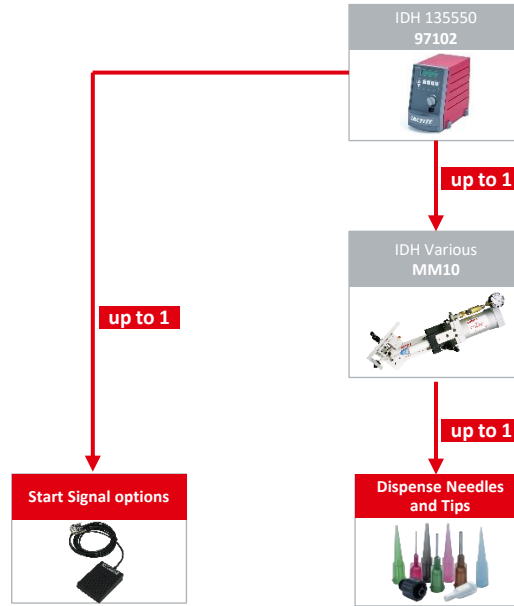
IDH 2265279  
PU20



**LOCTITE®**



# Pressure-Time Dispensing Systems – 2K



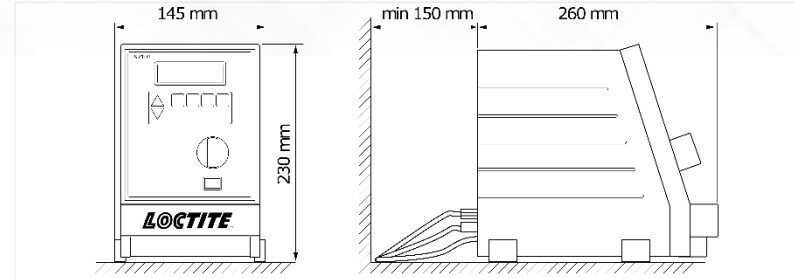
# LOCTITE 97102 Semi-Automatic Controller

## 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 97102 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.



Technical Data	
Dimensions	145 mm (W) x 230 mm (H) x 260 mm (D)
Weight	2.8 kg
Power Supply	90 – 260 VAC; 47 – 63 Hz
Power Consumption	Approx. 40 W
Compressed Air Supply	min. 2 bar (29 psi); max. 12 bar (174 psi)
Pneumatic Hose	
▪ Control Air Connection O.D.	6 mm +0.05 -0.10
▪ Dispensing Valve O.D.	4 mm +0.05 -0.10
▪ Reservoir O.D.	6 mm +0.05 -0.10
Continuous Sound Pressure Level	< 70 dB(A)
Items supplied	97102 Semi-Auto Controller, Power cord, Pneumatic tubing OD 6mm x 1.2m, Operating Manual

# LOCTITE EQ MM10 50 ml Dual Cartridge Dispenser

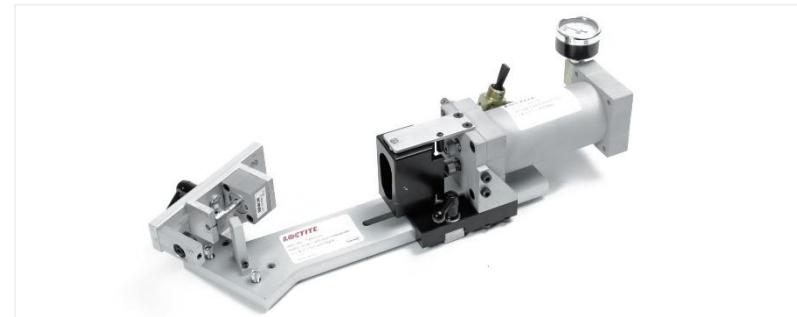
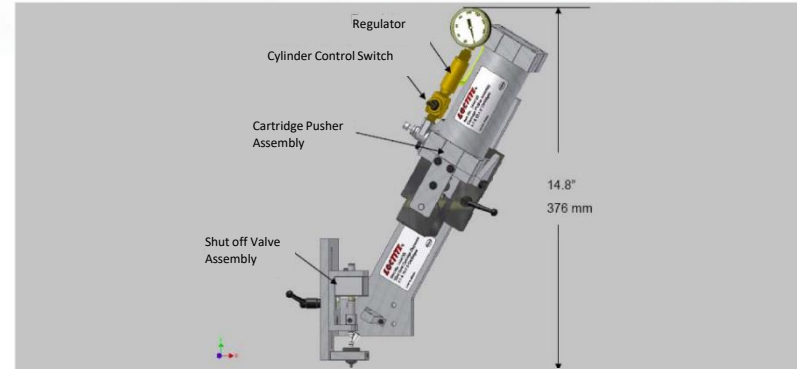
## Application Field

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

## 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 mPa.s viscosities

## Recommended Packages



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 IDH 1445944 (100 pk)**





# 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 and Tips



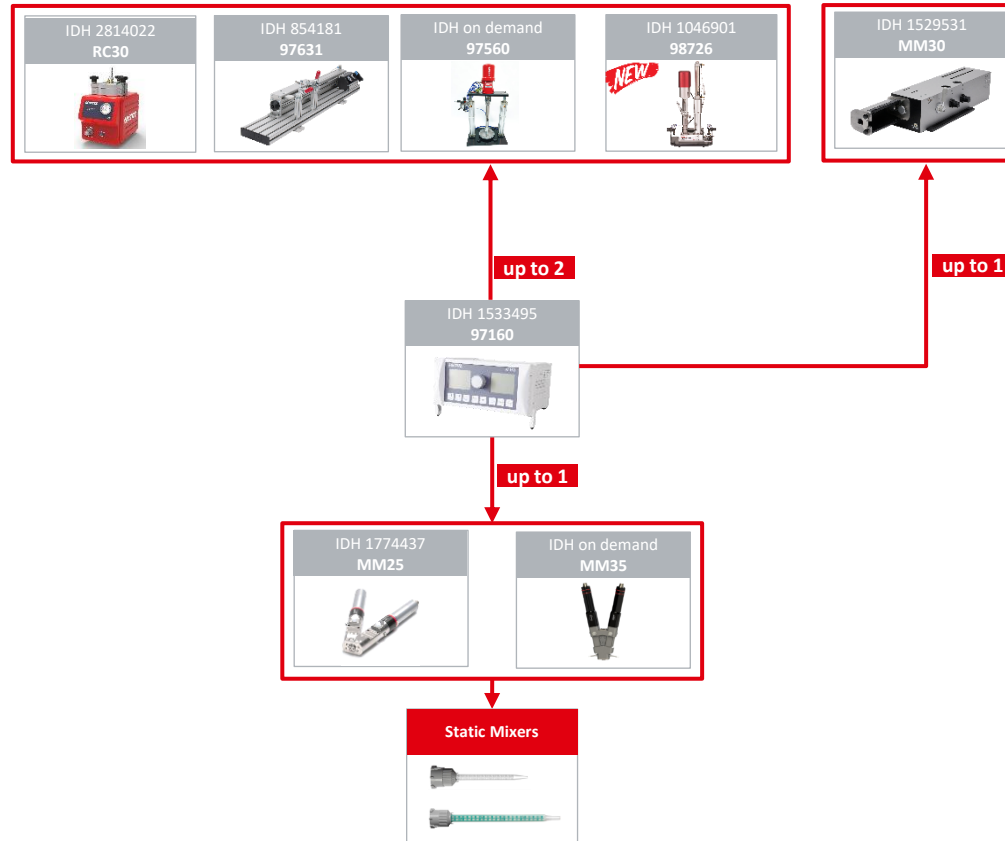
Illustration / Example	Item No.	Order No.	Pack Size	Colour	Gauge	Inner $\phi$ , mm
<b>High Precision Dispensing Tips: Dispensing Needle, Stainless Steel Standard (SSS), Luer-Lock</b>						
	97225	88664	50 pcs	Amber	15	1.37
	97226	88665	50 pcs	Green	18	0.84
	97227	88666	50 pcs	Pink	20	0.61
	97228	88667	50 pcs	Red	25	0.25

IDH Various  
MM10





# Volumetric Dispensing Systems – 2K



# LOCTITE RC30 Manual Reservoir

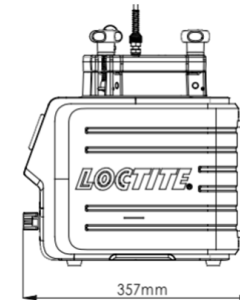
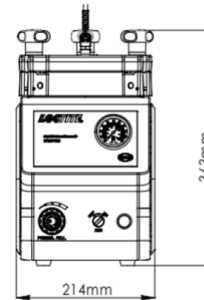
## Application Field

The LOCTITE EQ RC30 Manual Reservoir is suitable for the application of Loctite adhesive with a manual applicator at manual workstations such as in workshops, laboratories, and industrial installations

## Product Features

- User-friendly design
- Low level sensor for process control
- Equipped with a 0 to 7 bar (0-100psi) manual pressure regulator
- Easy to read pressure gauge
- Can accommodate a variety of Loctite packages
- All pneumatic operation

## Recommended Packages



Technical Data	
Dimensions	214 mm x 357 mm x 363 mm (W x D x H)
Weight	3.5 kg
Pneumatic Supply	Clean, dry air not exceed 8 bar (116 psi) and filtered with a maximum of 10 micron
Pneumatic Hose Size	External dia. 6 mm
Items supplied	1x RC30 Manual Reservoir; 2x 1/4" NPT x 1/4" Tubbing (One already installed); 1x Bottle Holder; 1x Anti-bubbler Kit; 1x XS2 Cable; 1x Bottle spacer; 1x Operating Manual.



# LOCTITE 97631 300 ml Cartridge Dispenser

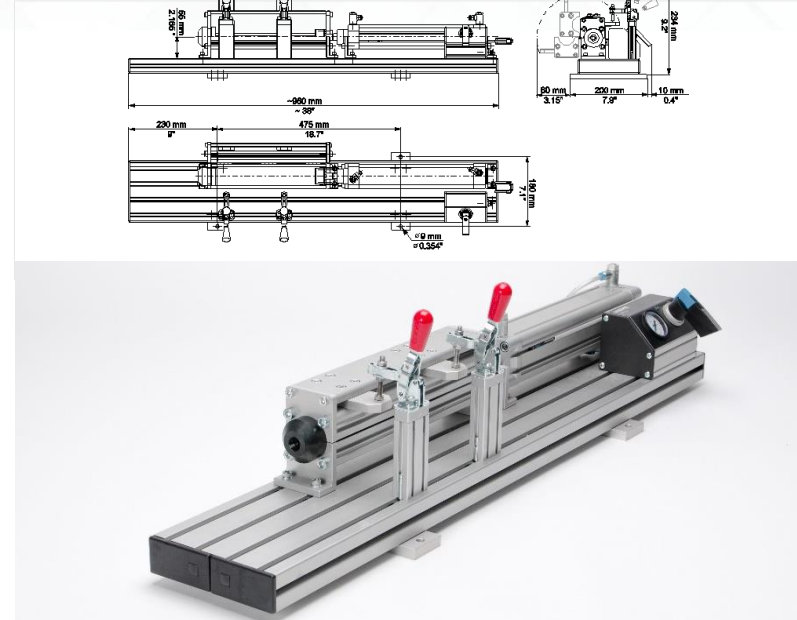
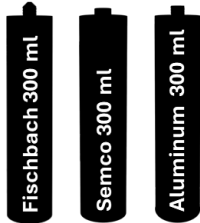
## Application Field

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.

## Recommended Packages



### 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 3/8"
Product Fitting Thread	Standard G 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 High Pressure Cartridge Dispenser



**NEW**

## Application Field

The Loctite® High Pressure Cartridge Dispenser is designed for dispensing high viscosity 1-component adhesives and sealants. Compatible Loctite® product chemistries include: Silicone, Polyurethane and MS polymer adhesives. The dispenser can be used as a manual dispenser or integrated with a controller and dispensing valve for automated dispensing.

The Loctite® High Pressure Cartridge Dispenser **cannot** be used with other product chemistries, like anaerobic products, UV acrylates or cyanoacrylates.

## Operation

The cartridge dispenser consists of three main components: the pneumatic priming ram, adhesive reservoir block and the 10:1 pump. The pneumatic ram is used to provide a low pressure feed of adhesive to the reservoir block. The 10:1 pump draws product from the reservoir block and amplifies the pressure by a factor of 10 and feeds the product through a feedline to the valve.

The unit has two regulators to control the pressure of the pneumatic priming ram and the 10:1 pump. By increasing the pressure of either of these regulators the outlet pressure of the dispenser will be increased. The primary product regulation should be controlled using the pump regulator and the pneumatic ram regulator should be set to supply product at just enough pressure to feed the reservoir.

The 110 – 240 VAC power cable plugs to the electrical junction box and supplies power to the 10:1 pump via the low level relay.

The low level sensor is mounted to the pneumatic priming ram to indicate when the adhesive cartridge is empty. When activated, the low level sensor will provide a signal to the COM port on the electrical box and turn the 10:1 pump off.

## Recommended Packages

Fischbach 300 ml

## Recommended Products



Technical Data	
Dimensions (D; W; H)	210; 355; 687 mm
Weight	5,0 kg
Input Voltage	110 – 240 VAC 50/60 Hz (Voltage fluctuation not to exceed 10% of nominal voltage)
Rated Power	20 W
Pneumatic supply	Max. 6 bar; Filtered 10 µm, oil-free, non-condensing.
Air Consumption	80 Liter/min (0.7 CFM) maximum
Pump Cycle Rate	200 cycles/minute maximum
Pressure output	50 bar maximum
Viscosity Range	10.000 – 1.000.000 mPa.s
Items supplied	1x High Pressure Cartridge Dispenser; 2x Cartridge Adaptor Inserts; 1x PTFE Lined Stainless Steel Braided Feedline (2m long); 1x Power Cord; 1x XS2 Connection Cable; 1x Low Level Sensor with Cable (1m long) – Already Installed; 1x Air Supply Line (2m long); 1x Lubricant Oil; 1x Operation Manual.

# 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](#) and [MM35 High Flow Dual 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.

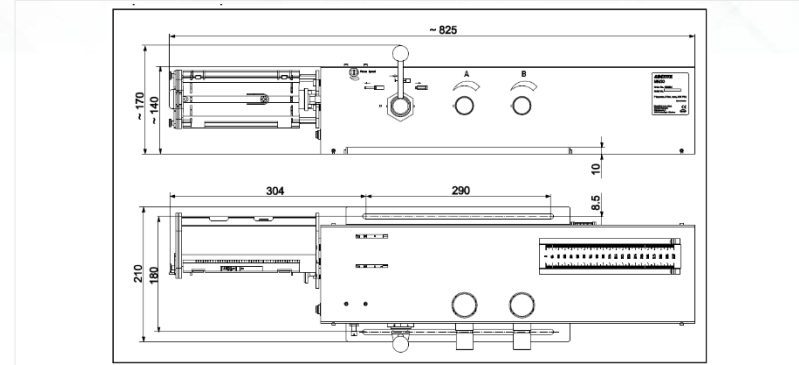
## Product Features

- 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

## Recommended Packages



\*Note: Depends on product's viscosity.



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 tube, Operating Manual





# LOCTITE 97560 Extrusion Pump 26:1

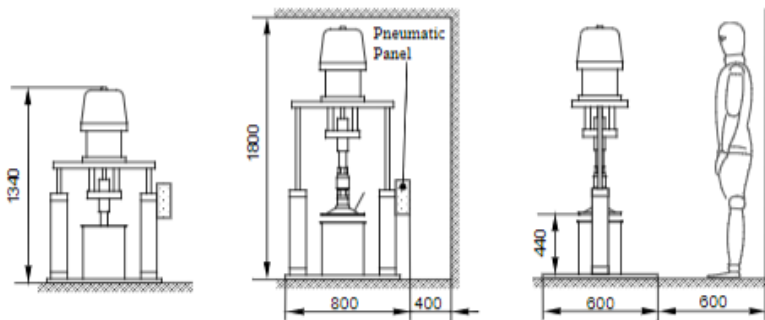
## Application Field

The Extrusion Pump 26:1 is a high-pressure pneumatic pump used for extrusion and transfer of high viscous and paste products. The pump is essentially constituted of an air motor and the pumping group, mounted on a ram. In the air motor, compressed air causes the vertical reciprocating movement of the motor piston; this movement is transmitted through a connecting rod to the material pumping piston ending with a shovel plate allowing to suck very viscous products. The shovel plate (follower plate) is supplied with a series of gaskets able to protect the product contained in the pail from powder, moisture and drying process caused by the touch with air. The use of the ram enables to drive the sucking unit of the pump during the product intake phase directly into the 20 l pails. The ram can automatically compensate the shovel plate descent during the use of the product. This system allows lifting of the extrusion pump for a quick replacement of the pail when it is empty. The ratio 26:1 means that the outlet pressure of product is 26 times higher than the pump feed air pressure. In order to ensure best product compatibility, the pumping group and sealing balls are made from stainless steel.

**Please consult TCS Experts for further information (Level 3 Support)!**



## Space Requirements



## Technical Data

Dimensions	800 mm (L) x 600 mm (W) x 1800 mm (H)
Weight	67 kg
Pneumatic supply	Max. 7 bar (100 psi)
Pressure input min	max. 3.5 bar (50 psi)
Material Outlet	G 3/4" female
Maximal Output Pressure	182 bar (2730 psi) for 26:1
Max product flow rate	4 liter/min (26:1)



Special Equipment

**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 [MM25 Dual Rotor Pump](#) or [MM35 High Flow 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.

## Product Features

- 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.

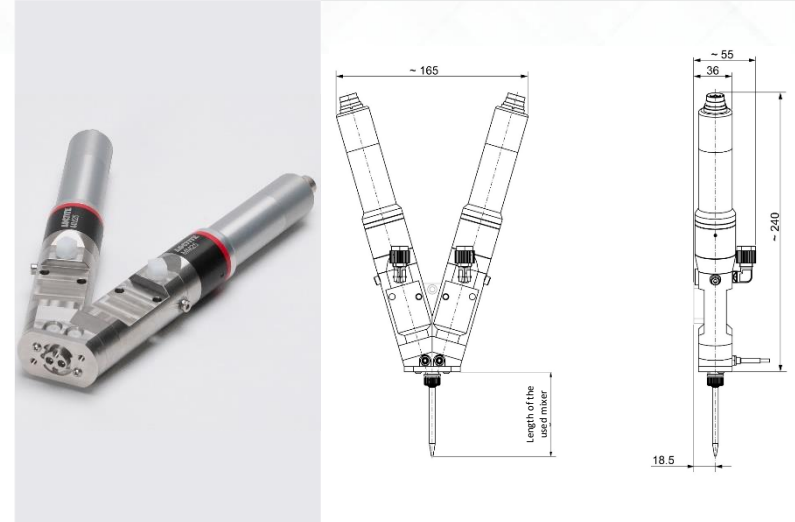
## Operation

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.

## Product Features

- 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 2K MMAs, Epoxies, PU or Silicones
- Applications include drop or bead dispensing or potting
- Integrated Adapter for B type mixer ensures sealing in flow

## Recommended Products



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
<b>AS DUAL ROTOR PUMP</b>	
Weight	~ 1.1 kg
Mixing Ratio	1:1 to 10:1
Max. Volume Flow*	12 ml/min
Items supplied	EQ MM25 Dual Rotor Pump, Mounting Tool, 2 x Screw drivers, Operating Manual

\*Note: Depends on Mixing Ratio.



# LOCTITE EQ MM35 High Flow Dual Rotor Pump

## Application Field

The LOCTITE EQ MM35 High Flow Dual Rotor Pump applies 2K LOCTITE adhesives, like MMAs, Epoxies, PU or Silicones with high repeatability. The limit of viscosity is approx. 400,000 mPa.s. Applications include drop or bead dispensing or potting.

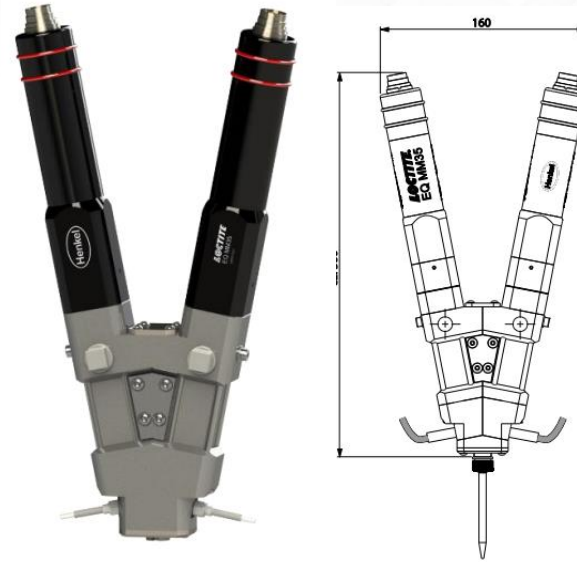
## Operation

The LOCTITE EQ MM35 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.

## Product Features

- 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 2K MMAs, Epoxies, PU or Silicones
- Applications include drop or bead dispensing or potting
- Integrated Adapter for B type mixer ensures sealing in flow

## Recommended Products



Technical Data	
Minimum Dispensing Quantity	0.03 ml
Accuracy	+/- 1%
Volume Flow	0.3 to 16 ml/m (per pump)
Input Pressure, non-self-leveilling Liquid	0 - 20 bar
Max. Dispensing Pressure	0 - 40 bar
Intrinsic Tightness	Ca. 2 bar
<b>AS DUAL ROTOR PUMP</b>	
Weight	~ 3.2 kg
Mixing Ratio	1:1 to 10:1
Max. Volume Flow*	32 ml/min
Items supplied	EQ MM35 Dual Rotor Pump, Mounting Tool, 2 x Screw drivers, Operating Manual
*Note: Depends on Mixing Ratio	

### Static Mixers






Special Equipment

**LOCTITE®**

# Static Mixers





Illustration	Cartridge Type	Elements	Waste Volume (ml)	Order No.	Pack Size	Description
	B	20	3,8	1034575	10 pcs	Static mixer MBX 6.5-20-S 10:1 for LOCTITE AA 3038
	B	16	0,6	1826921	10 pcs	Static mixer 1:1 / 2:1 in 50 ml, MBH 3.2-16 S
	B	24	2,6	1573153	10 pcs	Static mixer 1:1 / 2:1 in 50 ml, MBQ 5.0-24 L






# Feed Line and Fittings



Feed Line			
Illustration	Order No.	Description	Where used
	142646	PTFE Lined Tube 1/4" O.D. (10 meters)	Various
	142645	PTFE Lined Tube 3/8" O.D. (10 meters)	Various

IDH 1529531  
MM30



Fittings			
Illustration	Order No.	Description	Where used
	360636	TANK FITTING 1/4 NPTx1/4 TUBE (1 pc)	Reservoirs and Integrated Systems
	360633	TANK FITTING 1/4 NPT x 3/8 TUBE (1 pc)	Reservoirs and Integrated Systems
	1990861	C Type Cartridge Adapter (1 pc) (Tube fittings must be purchased sparely)	MM30 Cartridge Pusher



# Hand Applicators

## 1K Adhesives

Bottle  
Dispensers

IDH 608966  
98414



Syringe/Cartridge  
Dispensers

IDH 88632  
97002



IDH 88631  
97001



IDH 1233800  
10ml Syringe Dispenser



IDH 2564842  
EQ Pro Pump



IDH 1544934  
30ml Syringe Dispenser



Dispense Needles  
and Tips



Syringe Consumables  
and Supplies



## 2K Adhesives

50ml Cartridge  
Dispensers

IDH 267452  
96001



200ml Cartridge  
Dispensers

IDH 2693822  
EQ HD14 Manual



400ml Cartridge  
Dispensers

IDH 2693823  
EQ HD14 Manual



Spray  
Dispensers

IDH 2251591  
EQ HD12



IDH 476898  
97042



IDH 2693824  
EQ HD14 Pneumatic



IDH 2693825  
EQ HD14 Pneumatic



Static Mixers





# 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 50 ml 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.

## Product Features

- 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

## Recommended Products

AN

## Recommended Packages



Technical Data	
<b>Dimensions</b>	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)
<b>Items supplied</b>	98414 Peristaltic Handpump (50ml)
Spare Part	
<b>Tube</b>	IDH 200252
<b>Nozzle</b>	IDH 478609

### Dispense Needles and Tips



# 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 250 ml 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.

## Product Features

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

## Recommended Products

AN

## Recommended Packages



### Technical Data

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

### Spare Part

Tube	IDH 200252
Nozzle	IDH 478609

### Dispense Needles and Tips



# LOCTITE EQ Pro Pump

## Application Field

The LOCTITE Pro Pump Hand-held Dispenser is a bottle-mounted adhesive dispenser that can be used with 50 ml or 250 ml bottles of LOCTITE anaerobic 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.

## Operation

The ergonomic design allows the user to deliver a drop 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 storage. The LOCTITE Pro Pump Hand-held Dispenser enables more accurate and consistent application while eliminating waste and mess

## Product Features

- No assembly required – Fluid Compatibility Anaerobic Adhesives
- Compatible with all LOCTITE Anaerobic Threadlockers and Retaining Compounds
- Fits on both 50 ml and 250 ml LOCTITE adhesive bottles (no additional parts needed)
- Average dispense volume = 30 mg (30µl)
- Articulating nozzle with slip luer feature for dispense tips
- Easy to setup and easy to use
- Viscosity Range: 1 to 15,000 mPas
- Provides precise drop placement

## Recommended Products

AN

## Recommended Packages



### Technical Data

Dimensions	Pump: 114.3 mm x 40 mm x 115.5 mm
Items supplied	EQ Pro Pump

### Dispense Needles and Tips



# LOCTITE 97002 Pneumatic Handgun

## Application Field

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

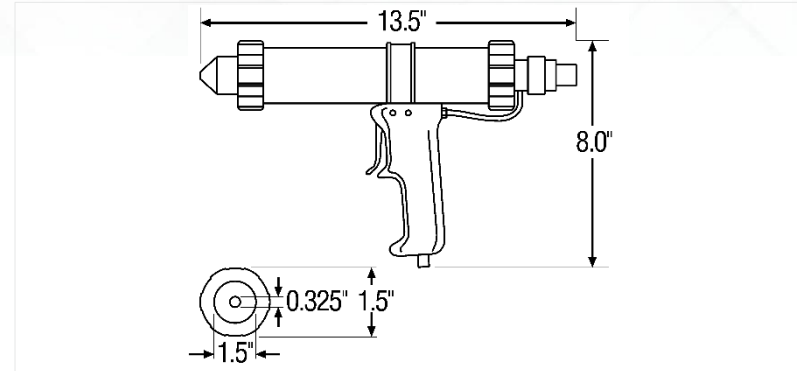
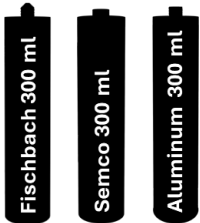
## Operation

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

## Product Features

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

## Recommended Packages



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 tube size	OD 6 mm , ID 4 mm
Dimensions (WxDxH)	320 x 230 x 70 mm
Items supplied	97002 Pneumatic Handgun, Tube adaptor, Pneumatic tube



# LOCTITE 10ml Manual Syringe Dispenser

## Application Field

The LOCTITE 10ml Manual Syringe Dispenser is designed for any product package in a standard 10 ml syringe.

## Product Features

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



Technical Data	
Items supplied	1x 10ml Manual Syringe Dispenser
Dispense Needles and Tips	Syringe Consumables and Supplies



# LOCTITE 30ml Manual Syringe Dispenser

## Application Field

The LOCTITE 30ml Manual Syringe Dispenser is designed for any product package in a standard 30 ml syringe.

## Product Features

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



### Technical Data

<b>Items supplied</b>	1x 30ml Manual Syringe Dispenser
-----------------------	----------------------------------

### Dispense Needles and Tips



### Syringe Consumables and Supplies



# 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 2K 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.

## Product Features

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

## Recommended Packages



### Technical Data

<b>Weight</b>	0,18 kg
<b>Items supplied</b>	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.

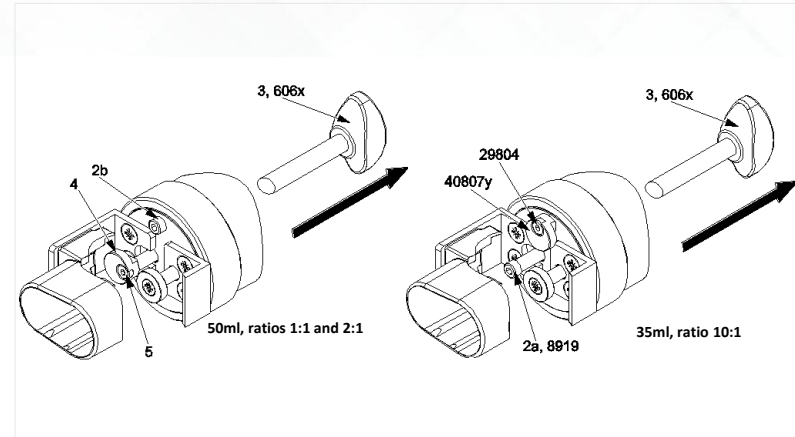
## Operation

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.

## Product Features

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

## Recommended Packages



### 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 EQ HD14 200 ml Manual Dispenser



## Application Field

The LOCTITE HD14 200 ml Dual Cartridge Manual Applicator has been developed for mixing and applying 2K adhesives of various adhesive chemistries.

## Operation

The LOCTITE HD14 200 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, 1:2, 4:1 & 10:1 mix ratio products.

## Recommended Packages



Technical Data	
Weight	1.60 kg
Compressed Air Supply	NA
Cartridge Ratios	1:1, 2:1, 4:1 & 10:1
Operating Pressure	NA
Air Supply	Variable 0 – 6 bar (87 psi)
Air Inlet	NA
Items supplied	EQ HD14 200 ml Manual Dispenser

# LOCTITE EQ HD14 400 ml Manual Dispenser



## Application Field

The LOCTITE HD14 400 ml Dual Cartridge Manual Applicator has been developed for mixing and applying 2K adhesives of various adhesive chemistries.

## Operation

The LOCTITE HD14 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, 1:2, 4:1 & 10:1 mix ratio products.

## Recommended Packages



Technical Data	
Weight	1.93 kg
Compressed Air Supply	NA
Cartridge Ratios	1:1, 2:1, 4:1 & 10:1
Operating Pressure	NA
Air Supply	Variable 0 – 6 bar (87 psi)
Air Inlet	NA
Items supplied	EQ HD14 400 ml Manual Dispenser

# LOCTITE EQ HD14 200 ml Pneumatic Dispenser



## Application Field

The LOCTITE HD14 200 ml Dual Cartridge Pneumatic Applicator has been developed for mixing and applying 2K adhesives of various adhesive chemistries.

## Operation

The LOCTITE HD14 200 ml Dual Cartridge Pneumatic 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, 1:2, 4:1 & 10:1 mix ratio products.

## Recommended Packages



Technical Data	
Weight	1.76 kg
Compressed Air Supply	10 bar max
Cartridge Ratios	1:1, 2:1, 4:1 & 10:1
Operating Pressure	6.8 bar
Air Supply	Variable 0 – 10 bar
Air Inlet	½" Male NPT
Items supplied	EQ HD14 200 ml Pneumatic Dispenser

# LOCTITE EQ HD14 400 ml Pneumatic Dispenser

## Application Field

The LOCTITE HD14 400 ml Dual Cartridge Pneumatic Applicator has been developed for mixing and applying 2K adhesives of various adhesive chemistries.

## Operation

The LOCTITE HD14 400 ml Dual Cartridge Pneumatic 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, 1:2, 4:1 & 10:1 mix ratio products.

## Recommended Packages



Technical Data	
Weight	2.66 kg
Compressed Air Supply	10 bar max
Cartridge Ratios	1:1, 2:1, 4:1 & 10:1
Operating Pressure	6.8 bar
Air Supply	Variable 0 – 10 bar
Air Inlet	½" Male NPT
Items supplied	EQ HD14 400 ml Pneumatic Dispenser



# LOCTITE EQ HD12 Pneumatic Spray Dispenser

## Application Field

The LOCTITE HD12 Pneumatic Spray Dispenser is suitable for spraying LOCTITE PC 7255 packaged in 1125 ml Dual Cartridge (2:1 ratio). This dispenser is designed for 2:1 mix ratio products.

## Operation

The LOCTITE HD12 Pneumatic Spray Dispenser includes Heavy duty dual cartridge handgun for 750+375 ml side-by-side dual cartridge with Spray adapter, pressure regulator, gauge, on/off-valve and air tube.

## Product Features

- Control pressure separately adjustable for advancing cylinder and atomizing air
- A hand lever 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 and Tips

















Illustration / Example	Item No.	Order No.	Pack Size	Colour	Gauge	Inner $\phi$ , mm
<b>Flexible Dispensing Tips: Dispensing Needle, Polypropylene (PPF), Helical Thread</b>						
	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
<b>Tapered Dispensing Tips: Dispensing Needle, Polyethylene – Conical (PPC), Luer-Lock</b>						
	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
<b>High Precision Dispensing Tips: Dispensing Needle, Stainless Steel Standard (SSS), Luer-Lock</b>						
	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
<b>Additional Dispensing Tips</b>						
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		
	97248	218275	50 pcs	Luer-Lock® tip caps		








# Static Mixers



Illustration	Cartridge Type	Elements	Waste Volume (ml)	Order No.	Pack Size	Description
	A	17	0,35	1334299	100 pcs	Static Mix Nozzle MAH 03-17-S
	A	24	1,9	1487440	10 pcs	Static mixer for epoxy and PU in 50 ml, SQ 5.3-24
	A	24	1,9	2900614	12 pcs	Static mixer for epoxy and PU in 50 ml, SQ 24
	B	20	3,8	1034575	10 pcs	Static mixer MBX 6.5-20-S 10:1 for LOCTITE AA 3038
	B	16	0,27	1453183	10 pcs	Static mixer for LOCTITE 3090 and LOCTITE 4070, MLX 2.5-16-5
	B	16	0,6	1826921	10 pcs	Static mixer 1:1 / 2:1 in 50 ml, MBH 3.2-16 S
	B	24	2,6	1573153	10 pcs	Static mixer 1:1 / 2:1 in 50 ml, MBQ 5.0-24 L
	C	24	6,2	1487439	10 pcs	Static mixer for epoxy in 200 / 400 ml, SQ 7.5-24
	C	18	6,4	1104046	10 pcs	Static mixer 4:1 / 10:1 for 400 / 490 ml MCX 08-18
	C	24	8,5	720174	10 pcs	Static mixer 1:1 / 2:1 in 200 / 400 ml, MC 8-24
	C	18	21	367545	10 pcs	Static mixer 1:1 for MS polymers in 410 ml, MC 13-18
	C	24	9,3	1104047	10 pcs	Static mixer 4:1 / 10:1 in 400 / 490 ml, MCX 08-24
	F	24	8,7	2447734	10 pcs	Spray mix nozzle for LOCTITE PC 7255 MFQ-08-24C-13
	F	24	5,4	1573135	10 pcs	Static mixer 1:1 / 2:1 in 400 ml, MFH 6.0-24 T

# Syringe Consumables and Supplies



Illustration	Item No.	Order No.	Pack Size	Description
	97207	88656	40 pcs	10 ml clear syringe barrel kit
	97263	218287	40 pcs	10 ml black syringe barrel kit, for UV and light cure adhesives
	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
	97248	218275	50 pcs	Luer-Lock® tip caps





# Benchtop Robots – Handling Systems

**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



**IDH 1635546**  
LOCTITE EQ RB10 Rotary  
Dispense Table



## LOCTITE Benchtop Robots Accessories



# LOCTITE EQ RB40 200D Benchtop Robot

## Application Field

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

## Operation

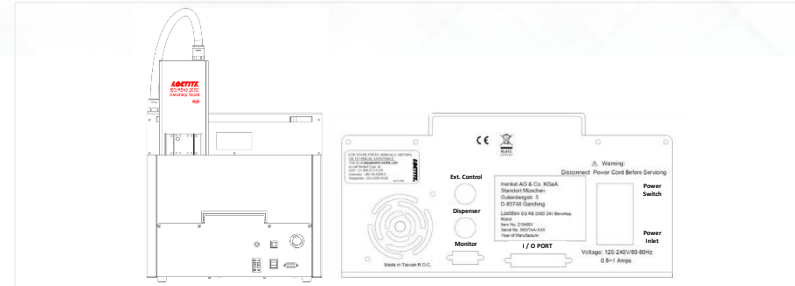
The LOCTITE RB40 200 D-Series Dispensing Robot has a 200 x 200 x 50 mm range of operation (X,Y,Z) and has features and accessories that are custom tailored for adhesive dispensing processes. Dispensing Equipment, [programming accessories](#), [dispensing equipment](#), [integration cables and mounting 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.

## Product Features

- 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**

### LOCTITE Benchtop Robots Accessories



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

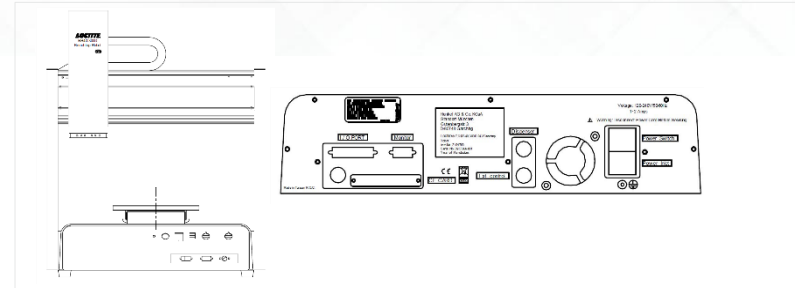
The LOCTITE RB40 300 D-Series Dispensing Robot has a 300 x 300 x 100 mm range of operation (X,Y,Z) and has features and accessories that are custom tailored for adhesive dispensing processes. Dispensing Equipment, [programming accessories](#), [dispensing equipment](#), [integration cables and mounting 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.

## Product Features

- 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**

### LOCTITE Benchtop Robots Accessories



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

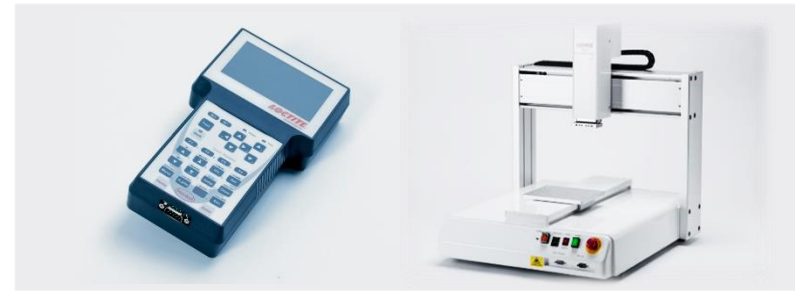
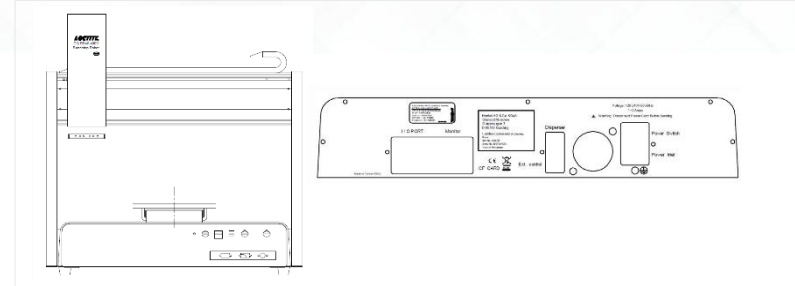
The LOCTITE RB40 400 D-Series Dispensing Robot has a 400 x 400 x 100 mm range of operation (X,Y,Z) and has features and accessories that are custom tailored for adhesive dispensing processes. Dispensing Equipment, [programming accessories](#), [dispensing equipment](#), [integration cables and mounting 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.

## Product Features

- 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**

### LOCTITE Benchtop Robots Accessories



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

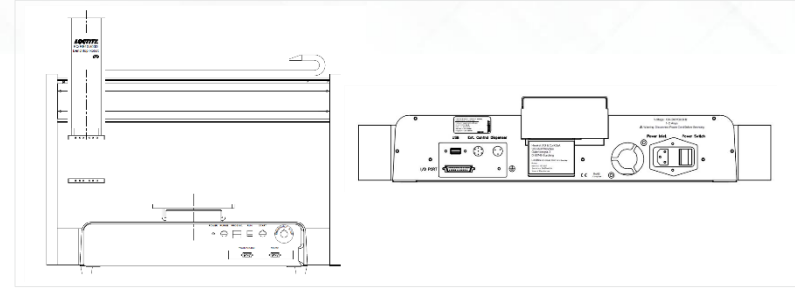
The LOCTITE RB40 500 D-Series Dispensing Robot has a 500 x 500 x 100 mm range of operation (X,Y,Z) and has features and accessories that are custom tailored for adhesive dispensing processes. Dispensing Equipment, programming accessories, dispensing equipment, integration cables and mounting hardware 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.

## Product Features

- 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**

### LOCTITE Benchtop Robots Accessories



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





# LOCTITE EQ RB10 Rotary Dispense Table

## Operation

The LOCTITE RB10 Rotary Dispense System is a fully integrated system used for dispensing adhesives onto parts in a circular or arc pattern. It will control a syringe system, cartridge, or dispense valve without requiring a separate valve controller. Internally synchronized operation of an advancing slide, turntable, and dispense timer makes for easy and repetitive placement of the adhesive. The set-up is simple, using only preset distance and rotation speed adjustment. No complex programming required!

Dispensing Equipment and [mounting hardware](#) are sold separately.

## Product Features

- Integrated Solution – plug and play with LOCTITE valves, reservoirs, and Syringe Systems
- Digital Control of rotation, dispense start, dispense stop and delays
- Adjustable height, position, angle of dispense, and advance slide speed
- Reservoir low-level interface with cycle interruption and display message
- Part position sensing allows orientation of adhesive bead start and end
- Threaded and non threaded mounting holes for fixtures
- Operator lockout for supervisory control of settings
- Dispense valve and syringe mounting hardware available



Technical Data	
<b>Dimensions</b>	305mm (W) x 475 mm (D) x 635 mm (H)
<b>Weight</b>	8.4 kg
<b>Power</b>	Supply: 110 – 230 V / 50 – 60 Hz; Internal 24 VDC
<b>Air In</b>	Clean dry air not to exceed 8.5 bar and filtered with a maximum of 50 micron
<b>Maximum Part Weight</b>	2.7 kg
<b>Rotation Speed</b>	5 – 55 RPM
<b>Items supplied</b>	Rotary Dispense System, Foot Switch, Power Supply with cord, operating manual

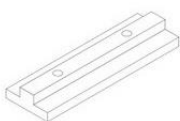
## LOCTITE Benchtop Robots Accessories



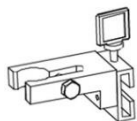
# EQ Benchtop Robot Accessories



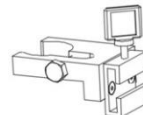
IDH 577151  
3 3/4" "C" Mounting Rail



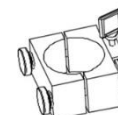
IDH 577150  
Dispense Valve Mounting Bracket  
(98009, 98013, 98138)



IDH 585942  
Dispense Valve Mounting Bracket  
(97113, 97114, 97121, 97611)



IDH 590762  
300 ml Cartridge Mounting  
Bracket Kit



IDH 569764  
Syringe Mounting Bracket (30/55ml)



IDH 1328355  
Syringe Holder (30/55ml)



IDH 1329222  
Interface Cable



IDH 591031  
Solenoid Valve Module



IDH 2182205  
I/O Junction Box



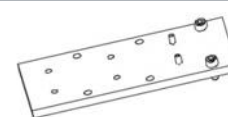
IDH 1569523  
Robot Needle Calibration Kit



IDH 2268727  
Teach Pendant RB40



IDH 591001  
Z Height Adjustment Plate



IDH 2148218  
ACCE D-Series Robot Software Kit



# LOCTITE 3¾" "C" Mounting Rail



## Description

The "C" Mounting Rail is designed for attaching mounting bracket to [RB40 Bench Top Robot](#) or [RB10 Rotary Dispensing Table](#). The "C" rail on the mounting bracket kit allows for more than one bracket to be attached on a rail, however, the 3 ¾" (9,5mm) long rail is typically used with one bracket. The mounting bracket must be purchased separately.

Mounting Brackets compatible with "C" Mounting Rail:

- [LOCTITE 98326 Dispense Valve Mounting Bracket](#)
- [LOCTITE 98327 Dispense Valve Mounting Bracket](#)
- [LOCTITE 300ml Cartridge Mounting Bracket](#)
- [LOCTITE Syringe Mounting Bracket \(30/55ml\)](#)



### Technical Data

Weight	0,100 kg
Items supplied	1x LOCTITE 3¾" "C" Mounting Rail; 2x M5x12 socket head screws.

## LOCTITE Benchtop Robots Accessories



# LOCTITE 98326 Dispense Valve Mounting Bracket



## Description

The LOCTITE 98326 Dispense Valve Mounting Bracket is designed for holding dispense valves, such as [98009](#) and [98013](#) when using [RB40 Bench Top Robot](#) or [RB10 Rotary Dispensing Table](#). The "C" rail connection allows for more than one bracket to be used when using a [RB40 Bench Top Robot](#). This allows for multiple dispense points to increase throughput. A [mounting rail](#) must be purchased separately to mount the brackets on the [RB40 Bench Top Robot](#) or [RB10 Rotary Dispensing Table](#).

## Compatible Dispensing Valves

IDH 218280 98009	IDH 318654 98013	IDH 1147046 97138
		



Technical Data	
Weight	0,120 kg
Items supplied	1x LOCTITE 98326 Dispense Valve Mounting Bracket

## LOCTITE Benchtop Robots Accessories



# LOCTITE 98327 Dispense Valve Mounting Bracket



## Description

The LOCTITE Syringe Mounting Bracket is designed for holding dispense valves, such as [97113](#), [97114](#), [97621](#) and [97611](#), when using [RB40 Bench Top Robot](#) or [RB10 Rotary Dispensing Table](#). The "C" rail connection allows for more than one bracket to be used when using a [RB40 Bench Top Robot](#). This allows for multiple dispense points to increase throughput. A [mounting rail](#) must be purchased separately to mount the brackets on the [RB40 Bench Top Robot](#) or [RB10 Rotary Dispensing Table](#).

## Compatible Dispensing Valves

IDH 88644/88645  
97113/97114



IDH 1741601  
97621



IDH 1196160  
97611



Technical Data	
Weight	0,150 kg
Items supplied	1x LOCTITE 98327 Dispense Valve Mounting Bracket

## LOCTITE Benchtop Robots Accessories



# LOCTITE 300ml Cartridge Mounting Bracket



## Description

The LOCTITE 300ml Cartridge Mounting Bracket is designed for holding one 300 cartridge when using [RB40 Bench Top Robot](#). A [mounting rail](#) must be purchased separately to mount the brackets on the [RB40 Bench Top Robot](#).



Technical Data	
Weight	0,500 kg
Items supplied	1x LOCTITE 300ml Cartridge Mounting Bracket

## LOCTITE Benchtop Robots Accessories



# LOCTITE Syringe Mounting Bracket (30/55ml)



## Description

The LOCTITE Syringe Mounting Bracket is designed for holding one 30 ml or 55 ml syringe when using [RB40 Bench Top Robot](#) or [RB10 Rotary Dispensing Table](#). The "C" rail connection allows for more than one bracket to be used when using a [RB40 Bench Top Robot](#). This allows for multiple dispense points to increase throughput. A [mounting rail](#) must be purchased separately to mount the brackets on the [RB40 Bench Top Robot](#) or [RB10 Rotary Dispensing Table](#).



Technical Data	
Weight	0,200 kg
Items supplied	1x LOCTITE Syringe Mounting Bracket (30/55ml)

## LOCTITE Benchtop Robots Accessories





# LOCTITE Syringe Holder (30/55ml)



## Description

The LOCTITE Syringe Holder (30/55ml) is designed for holding one 30 ml or 55 ml syringe when using [RB40 Bench Top Robot](#).



### LOCTITE Benchtop Robots Accessories



#### Technical Data

<b>Weight</b>	0,200 kg
<b>Items supplied</b>	1x LOCTITE Syringe Holder (30/55ml); 2x M4 screws

# LOCTITE Interface Cable



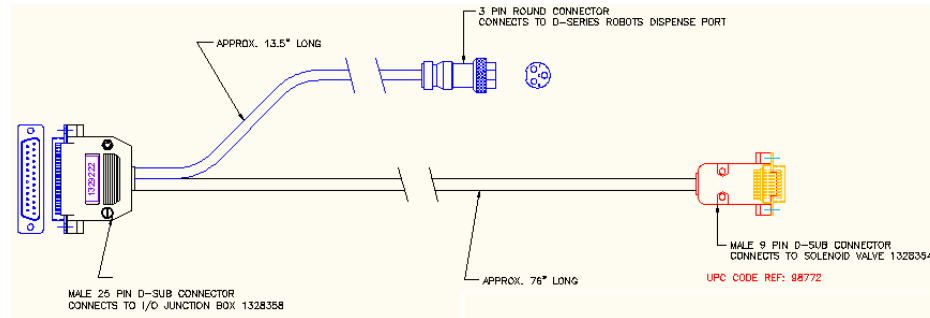
## Description

The LOCTITE Interface Cable is designed for the line of [RB40 Bench Top Robots](#).

Consists of:

- 25-pin male "D shell" electrical connector that connects into rear of Robot.
- 3-pin female round connector that connects into Robot.
- 9-pin male "D shell" electrical connector that connects into Dispensing unit or Solenoid Valve Module.

Allows for On / Off and other functions. This cable allows for Robot to be connected to [Solenoid Valve Module](#) or [RC40 Integrated System](#). When connected to [RC40 Integrated System](#), it allows [RB40 Bench Top Robot](#) access other output functions from [RC40 Integrated System](#) such as low-level signal.



### Technical Data

Weight	0,500 kg
Items supplied	1x LOCTITE Interface Cable

### LOCTITE Benchtop Robots Accessories



# LOCTITE Solenoid Valve Module

## Description

The LOCTITE Solenoid Valve Module is designed to allow the [RB40 Bench Top Robot](#) to control [pneumatically operated dispense valves](#), by converting the 24VDC output from the [RB40 Bench Top Robot](#) into a pneumatic signal. Since the robot controls the valve timing, there is no need for a LOCTITE dispense controller.

To assemble a simple pressure-time system (using bottles of 500g, 250ml and 1 liter), combine a [RB40 Bench Top Robot](#), LOCTITE Solenoid Valve Module and [LOCTITE Interface Cable](#) with a [pneumatically operated dispense valve](#) and [RC30 Manual Reservoir](#). Choose a proper [mounting bracket](#) to attach the dispense valve onto [RB40 Bench Top Robot](#).



Technical Data	
Weight	0,450 kg
Items supplied	1x LOCTITE Solenoid Valve Module (2 meters long cable)

### LOCTITE Benchtop Robots Accessories



# LOCTITE I/O Junction Box

## Description

The LOCTITE I/O Junction Box provides isolated input and output connections between 24 VDC [RB40 Bench Top Robots](#) and external devices such as solenoids and sensors.

### Note:

The LOCTITE I/O Junction Box is **only** compatible with the 24 VDC [RB40 Bench Top Robots](#).



Technical Data	
Weight	1,500 kg
Items supplied	1x LOCTITE I/O Junction Box; 1x D-Sub 25 pin cable – male to female; 1x D-Sub 9 pin cable – male to female.

## LOCTITE Benchtop Robots Accessories

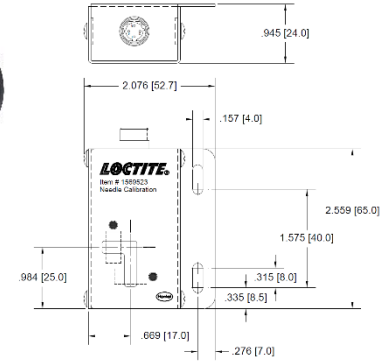


# LOCTITE Robot Needle Calibration



## Description

The LOCTITE Robot Needle Calibration is designed to allow the user to quickly calibrate needle tip location after change over. The LOCTITE Robot Needle Calibration is designed to work with 24 Volts [RB40 Bench Top Robots](#) which are equipped software version H1.30 or higher.



Technical Data	
Weight	1,500 kg
Items supplied	1x LOCTITE Robot Needle Calibration; 1x Connector Cable (1,5 meter long).

### LOCTITE Benchtop Robots Accessories



# LOCTITE RB40 Teach Pendant

## Description

The LOCTITE RB40 Teach Pendant is a handheld device for simple and easy programming of RB40 Bench Top Robots.



Technical Data	
Items supplied	1x LOCTITE RB40 Teach Pendant

### LOCTITE Benchtop Robots Accessories



# LOCTITE Z Height Adjustment Plate



## Description

The LOCTITE Z-Height Adjustment Plate allows for up to 127 mm (5") of rough adjustment of the location of the mounting rail above or below the mounting hole on the robot.



Technical Data	
Weight	0,500 kg
Items supplied	1x LOCTITE Z Height Adjustment Plate; 2x M5x12 socket head cap screws

## LOCTITE Benchtop Robots Accessories



# LOCTITE D-Series Robot Software



## Description

The D-Series Robot Software is designed for [RB40 Bench Top Robots](#). It provides a method that an operator can control and programming [RB40 Bench Top Robots](#) on a PC. It also allows you convert a DXF file to a dispensing path and run in the robot.

### Technical Data

#### Items supplied

1x Software Installation File (provided on CD); 1x RS232 Cable; 1x USB Stick.

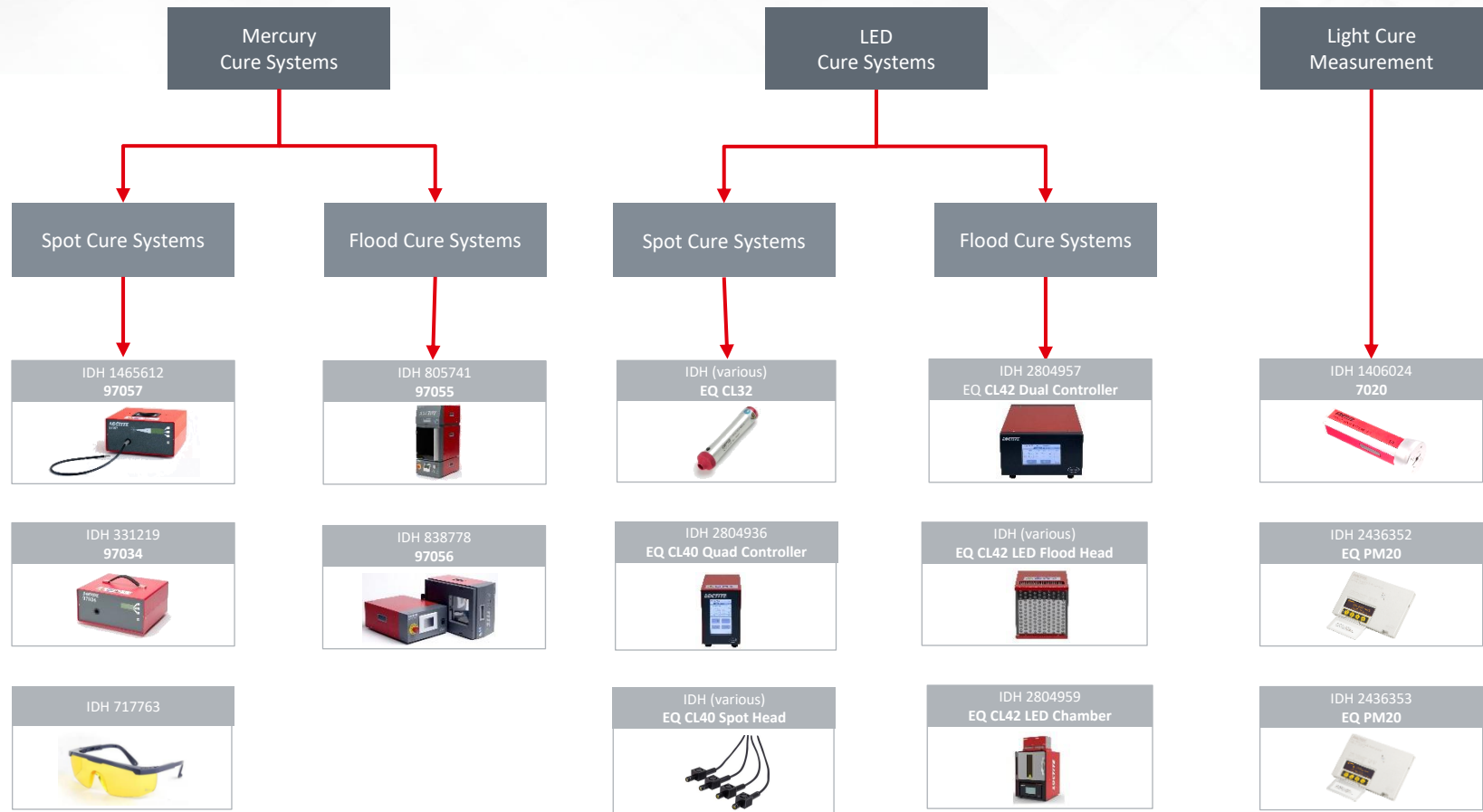
### LOCTITE Benchtop Robots Accessories







# Light Cure Equipment



# 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.

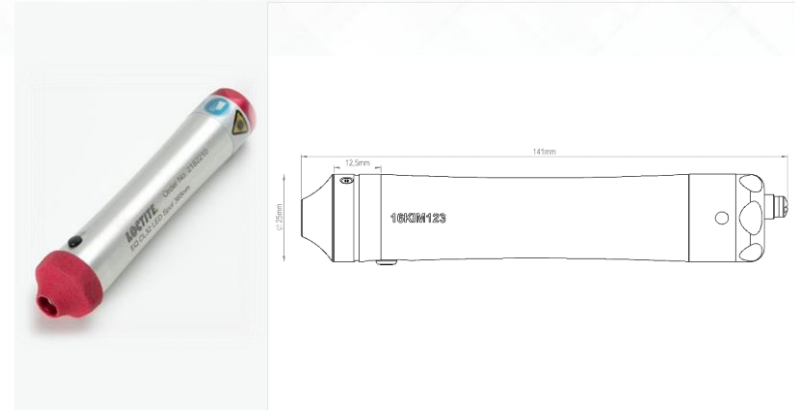
## Operation

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.

## Product Features

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	
	CL32 LED Spot 365nm	CL32 LED Spot 405nm
IDH	2182210	2182207
Wavelength Output	365nm	405nm
Output	Min 2.6 W/cm <sup>2</sup> at 10 mm distance	Min. 3.0 W / cm <sup>2</sup> at 10 mm distance
Irradiation Area	5 mm (rounded square shaped)	5 mm (rounded square shaped)
Homogeneity of Irradiation Area	± 50% within specified field	± 50% within specified field
LED Lifetime	6000 h @ 80 % emission	6000 h @ 80 % emission
Items supplied	1x EQ CL32 LED Spot (365nm or 405nm), 1x AC adaptor/Charger USB, 1x USB-A to mini-USB cable (1,8m longer), 1x Tip Guard rubber, 1x Operating Manual.	

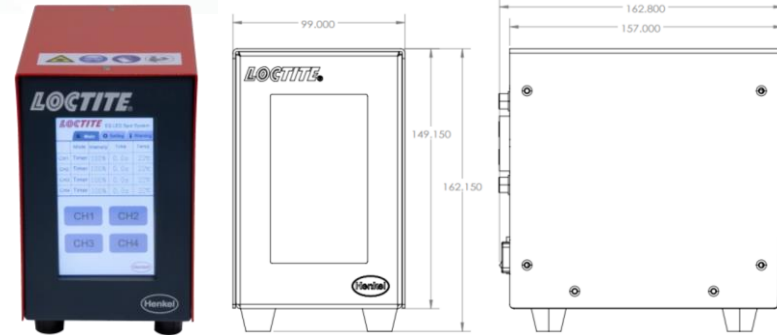
# LOCTITE EQ CL40 LED Quad Controller

## Application Field

The LOCTITE EQ CL40 Quad LED Controller is design to control up to four [LED CL40 Spot Heads](#) (sold separately) forming a complete curing system. The system is suitable for manual workstations as well as integration into automated production lines. The EQ CL40 Quad LED Controller can be operated in a continuous light output mode or up to a 7-step, programmed output mode where the light output intensity and time can be programmed for each separate LED head. The cycle can be initiated with the start/stop button on the front panel; a footswitch (included); or via a PLC connection with an external start signal. This LED light source causes no thermal damage or harmful effects to objects being illuminated. Its low power consumption makes it an energy-saving and environmentally friendly light source. No light guides or lamp replacements are required.

## Product Features

- Instant on-off capabilities; no warm-up time required as compared to mercury-arc lamp UV Wand systems
- Can operate up to four (4) LED CL40 Spot Heads
- Each LED CL40 Spot Head can be programmed independently to have a 7-step setting for UV intensity and exposure time
- Provides five programming modes (constant intensity; pulsed; step; optical; manual)
- Each channel is adjustable and can be controlled separately
- Temperature feedback to eliminate LED heads overheating



Technical Data	
Weight	2 kg
Dimensions (L x H x W)	99 x 162 x 126 mm
Operating voltage	24 VDC (60 W Adapter)
Power consumption	< 35 Watts
Items supplied	1x CL40 LED Quad Spot Controller; 1x Universal Power Adapter; 1x Foot Switch; 1x Sub-D9 adapter (already installed); 1x Operating Manual.

### Start Signal options



### IDH (various) EQ CL40 Spot Head



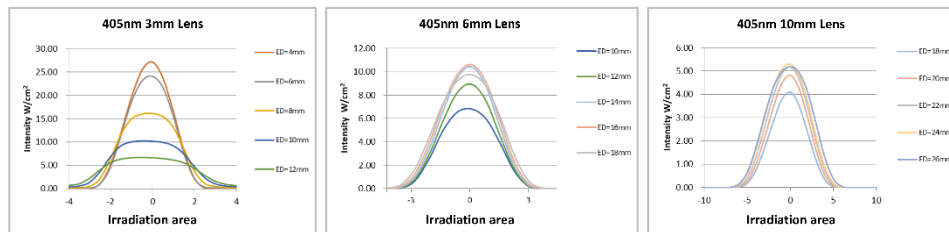
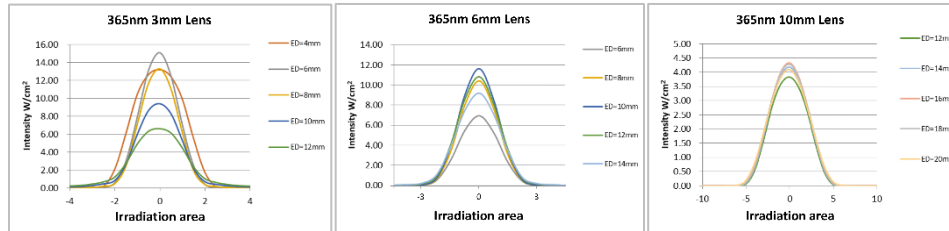
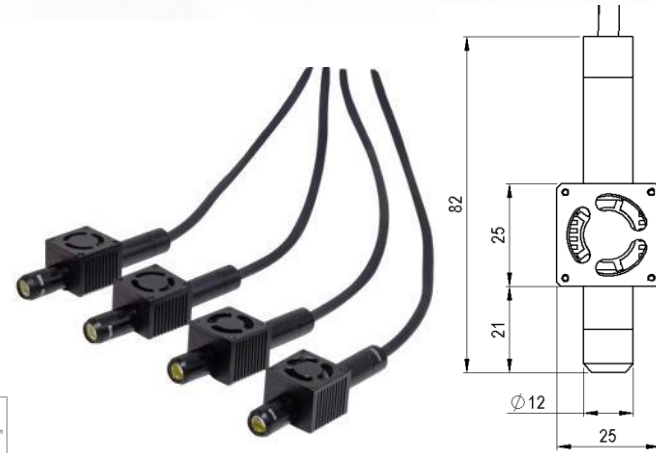
# LOCTITE EQ CL40 LED Spot Head

## Application Field

The LOCTITE LED CL40 Spot Heads is design to be used with [LOCTITE EQ CL40 Quad LED Controller](#) (sold separately) forming a complete curing system. The system is suitable for manual workstations as well as integration into automated production lines.

## Product Features

- High intensity output
- Highly focused wavelengths
- 3 different lenses available. 3mm, 6mm and 10mm (6mm is supplied as standard)



Technical Data		
Weight	~0,12 Kg	
IDH	CL40 LED Spot Head 365nm	CL40 LED Spot Head 405nm
Wavelength Output	2804938	2804937
Intensity	365nm	405nm
Items supplied	Up to 15 W/cm <sup>2</sup> (3mm lens)    Up to 27 W/cm <sup>2</sup> (3mm lens)	
	1x EQ CL40 LED Spot Head (365nm or 405nm) with 6mm lens	



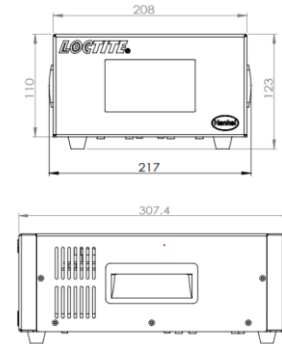
# LOCTITE EQ CL42 LED Dual Controller

## Application Field

The LOCTITE EQ CL42 Dual LED Controller is a UV-LED flood light source that emits UV light at 365 or 405 nm. The Dual Controller includes a footswitch and AC power cord. The required LED head is purchased separately. This system is suitable for manual workstations as well as integration into automated production lines. The EQ CL42 Dual LED Controller can be operated in a continuous light output mode or up to a 7-step, programmed output mode where the light output intensity and time can be programmed for each separate LED head. The cycle can be initiated with the start/stop button on the front panel; a footswitch (included); or via a PLC connection with an external start signal. This LED light source causes no thermal damage or harmful effects to objects being illuminated. Its low power consumption makes it an energy saving and environmentally friendly light source. No light guides or lamp replacements are required.

## Product Features

- Capacity for up to two UV LED heads
- Intensity adjustment for each channel
- Works with Loctite EQ CL42 LED Flood heads
- Touch screen HMI
- 3 running modes: Timer, Level and Advance
- Environmentally friendly
- Touch screen operation panel, easy to use
- Friendly user interface
- Increased productivity, maintenance free
- Lower cost of ownership
- Less energy required, lower operating cost
- Easy integration



Technical Data	
Weight	~6,0 kg
Dimensions (L x H x W)	218 x 123 x 307 mm
Operating voltage	110~240 VAC 50/60Hz
Items supplied	1x CL42 LED Dual Controller; 1x Power Cable; 1x Foot switch; 1x Operating Manual



# LOCTITE EQ CL42 LED Flood Head



## Application Field

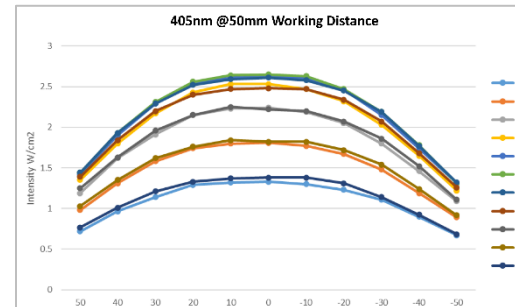
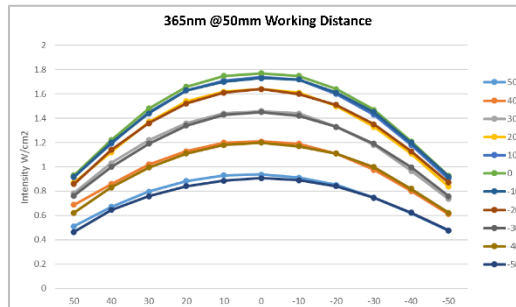
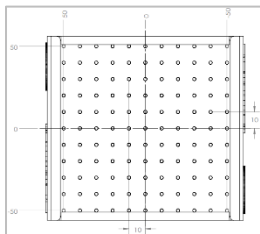
The EQ CL42 LED Flood System is a high intensity flood system specially designed for curing LOCTITE UV and Visible Light Cure adhesives. The modular configuration consists of an LED head with connection cable and controller (ordered separately). The system is offered in either 365 or 405 nm wavelengths. Each EQ CL42 head is equipped with 120 high power LED's and integrated reflectors, providing uniform curing across a wide area (100 mm x 100 mm or 4 inches by 4 inches). The expected lifetime of the LED's is more than 20000 hours under normal operating conditions. The system is compatible with manual workstation as well as automated production lines. It can be operated via a footswitch or a PLC and run in either timer or continuous mode.



## Product Features

- High UV intensity – Up to 2.5 W/cm<sup>2</sup>
- LED heads stackable in two directions
- Expected LED life over 20,000 hours (30% intensity decay) with proper handling
- 100% duty cycle
- Instant on/off, no heat up or cool down necessary
- Optimal curing distance: 50 mm
- Compact system with integrated air cooling
- Requires LED Flood Controller, sold separately
- Temperature monitor of LEDs

Technical Data		
Weight	~2,0 kg	
Dimensions (L x H x W)	120 x 120 x 123	
Noise level	< 70 dBA (Distance 1 m)	
	CL42 LED Flood Head 365nm	CL42 LED Flood Head 405nm
IDH	2804955	2804956
Wavelength output	365nm	405nm
Intensity	1,7 W/cm <sup>2</sup> @50mm Working Distance	2,6 W/cm <sup>2</sup> @50mm Working Distance
Items Supplied	1x Loctite CL42 LED Flood Head (365nm or 405nm); 1x Cable Sub-D 25pin M-F.	

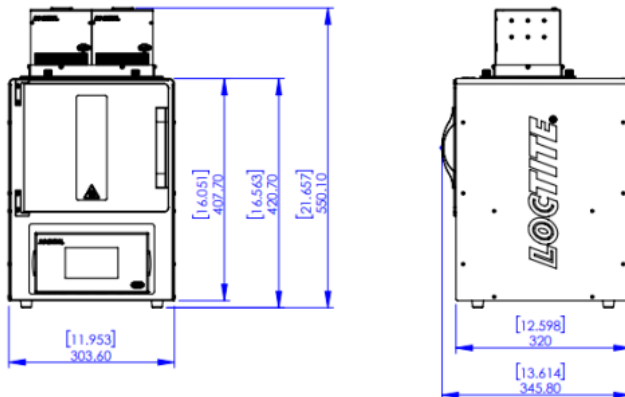


# LOCTITE LED Flood Chamber

## Application Field

The LED Flood Chamber has been designed especially for the use with the LOCTITE EQ CL42 LED Flood systems. It consists out of a chamber with adapter for one or two LED heads, work piece holder, door safety system, ESD safe door with window and a controller connection. The Flood systems are to be started from the controller as usual. The chamber system is meant for the use at manual working places. The inside of the chamber is made of polished stainless steel to make the stray light useable.

The LED Flood system (365 or 405 nm) must be chosen fitting to the filter attributes of the substrates to bond and the spectral sensitivity of the adhesive. The LED Flood system (CL42 Dual Controller and CL42 Flood Head) has to be ordered separately.



Technical Data	
Weight	3.5 kg
Dimensions (L x H x W)	303 x 420 x 345 mm
Internal voltage	24 VDC
Workpiece dimensions	240 x 190 x 210 mm
Items supplied	1x LED Flood Chamber; 1x Cable Sub-D 15pin M-F; 1x 1 Head Holder Plate; 1x 2 Head Holder Plate; 1x Tray; 1x Operating Manual.





# 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 $\phi$ 5 x 1500mm	97323	376720	UVA lamp module for 97058	97317	951638	UVC $\phi$ 5 x 1000mm	97326	329278
UVA $\phi$ 8 x 1500mm	97324	298849	UVA lamp module for 97057	97317	951638	UVC $\phi$ 8 x 1000mm	97327	376721
UVA 2 x $\phi$ 3 x 1500mm	97318	951637	UVC lamp module for 97034	97322	354963	UVC 2 x $\phi$ 3 x 1000mm	97328	352194
UVA Light Guide Intensity Meter	7020	1406024						



# 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 $\phi$ 5 x 1500mm	97323	376720	UVA lamp module for 97058	97317	951638	UVC $\phi$ 5 x 1000mm	97326	329278
UVA $\phi$ 8 x 1500mm	97324	298849	UVA lamp module for 97057	97317	951638	UVC $\phi$ 8 x 1000mm	97327	376721
UVA 2 x $\phi$ 3 x 1500mm	97318	951637	UVC lamp module for 97034	97322	354963	UVC 2 x $\phi$ 3 x 1000mm	97328	352194
UVA Light Guide Intensity Meter	7020	1406024						

# LOCTITE 97055 UVALOC 1000 Chamber Version

## Application Field

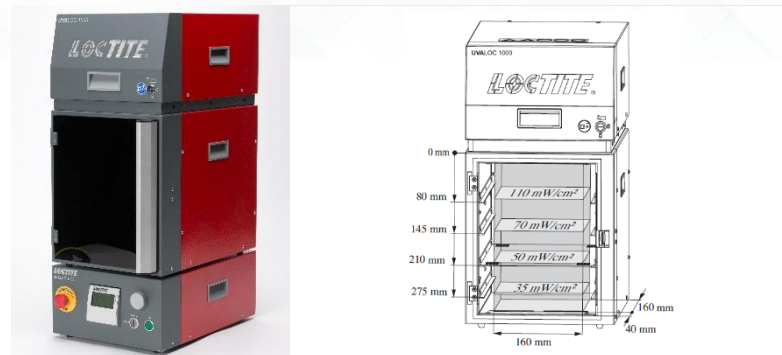
The UVALOC 1000 is a 1000 W lamp system designed exclusively for curing LOCTITE UV adhesives or coatings.

## Operation

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

# LOCTITE 97056 UVALOC 1000 Tunnel Version

## Application Field

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

## Operation

The UVALOC 1000 is suitable for the UVA, UVC and visible light curing of Loctite UV products. The 97056 tunnel version is designed for integration into automatic and or semi automatic production lines. The lamp's emission spectrum and radiant power capacity have been designed specifically to meet the requirements of UV-curable Loctite adhesives. At the programmable controller the bulb hours, the unit hours and the UV intensity can be supervised. The UVALOC 1000 is equipped with a cooling system, a pneumatic shutter system and an emergency stop button. The tunnel version 97056 is equipped with a PLC connection at the controller, an UV sensor and a parabolic reflector in the lamp housing.

The tunnel version 97056 is equipped with a PLC connection at the controller, an UV sensor and a parabolic reflector in the lamp housing.

## 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
- High process safety due to the integrated UV monitoring system



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

# LOCTITE 7020 UVA Spot Radiometer

## Application Field

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

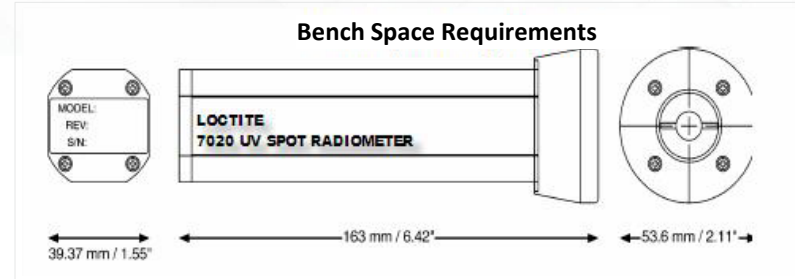
## Operation

The LOCTITE 7020 UVA 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.

Calibration required 12 months after first use (then annually)

## 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 <sup>2</sup>
Items supplied	7020 UVA 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.

Calibration required 12 months after first use (then annually)

## 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 <sup>2</sup>
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.

Calibration required 12 months after first use (then annually)

## 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 <sup>2</sup>
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 UV & Visible Safety Glasses

## Application Field

The LOCTITE Safety Glasses for UV and Visible Light, is a polycarbonate, yellow-tinted lens designed to absorb specific wavelengths of radiant energy into the lens to protect the user from harmful ultraviolet and visible light energy. While the primary need for eye protection is often impact hazards, many work applications also include radiation hazards including ultraviolet, infrared, and visible light glare. The Safety Glasses for UV and Visible light fully comply with CE certification standards.

## Product Features

- Absorbs >99.9% of potentially harmful UVA and UVB radiation.
- Provides protection by completely absorbing visible light up to 440nm
- The user's contrast is improved, and the eye finds it easier to see detail.
- The orange lens color filters out Visible light in the violet and blue areas of the spectrum.

## Technical Data

- Color: Yellow
- UV Absorption: > 99.9%
- Meets EN 166-3 (included EN 172) specifications
- Lens material: polycarbonate



Sample No.		Ultraviolet spectral range			Visible spectral range	Enhanced infrared absorption	Assessment
		Spectral transmittance		Mean value of spectral transmittance	Luminous transmittance	Maximum value of Solar infrared transmittance	
		280nm to 315nm	315nm to 350nm	315nm to 380nm	380nm to 780nm	780nm to 2000nm	
1	Left	0.06%	0.03%	0.00%	86.76%	/	Pass
	Right	0.08%	0.06%	0.02%	86.71%	/	Pass
2	Left	0.07%	0.05%	0.00%	86.67%	/	Pass
	Right	0.06%	0.06%	0.02%	86.46%	/	Pass
3	Left	0.07%	0.06%	0.00%	86.55%	/	Pass
	Right	0.05%	0.06%	0.00%	86.95%	/	Pass

# 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





# Air Filter Systems



IDH 494964  
LOCTITE 97612  
Air Filter Trolley



IDH 527595  
LOCTITE 97603  
Air Filter System LAS 250



# 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 clean 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 <sup>3</sup> /h
Constant Air Flow	80 m <sup>3</sup> /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
Suction hood transparent	8955065	1034999			

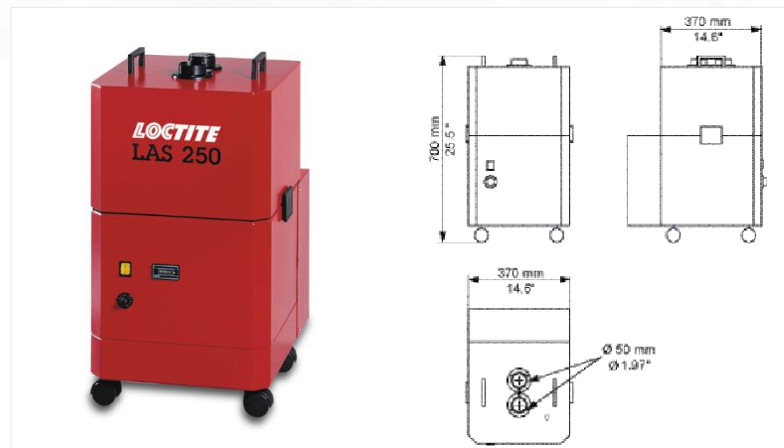
# LOCTITE 97603 Air Filter System LAS 250

## 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 actuated 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 m <sup>3</sup> /h		
Constant Air Flow	250m <sup>3</sup> /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 LAS 250 97603 New	97968	267469
Suction hood transparent	89955065	1034999			

# LOCTITE Special Equipment

You did not find a solution for your need? No problem, Equipment Application Engineering Team (Level 3) can help you out. Please, contact your Local Equipment Specialist (Level 2) and Equipment BDM, they are going to guide you thru to the process.

## What is a Special Equipment?

Special Equipment is a customize solution for our customers when Standard Equipment cannot fulfil all Application's requirements.

Below some typical examples:







- Dispensing system (Pressure-Time or Volumetric) for products being download from Pails.
- Safety Enclosures for Loctite Benchtop Robots.
- Standard Equipment Customization.
- Items without an IDH.



Note: images merely illustrative

















# Dispense Needles and Tips

Illustration / Example	Item No.	Order No.	Pack Size	Colour	Gauge	Inner $\phi$ , mm
<b>Flexible Dispensing Tips: Dispensing Needle, Polypropylene (PPF), Helical Thread</b>						
	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
<b>Tapered Dispensing Tips: Dispensing Needle, Polyethylene – Conical (PPC), Luer-Lock</b>						
	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
<b>High Precision Dispensing Tips: Dispensing Needle, Stainless Steel Standard (SSS), Luer-Lock</b>						
	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
<b>Additional Dispensing Tips</b>						
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		
	97248	218275	50 pcs	Luer-Lock® tip caps		










# Static Mixers

Illustration	Cartridge Type	Elements	Waste Volume (ml)	Order No.	Pack Size	Description
	A	17	0,35	1334299	100 pcs	Static Mix Nozzle MAH 03-17-S
	A	24	1,9	1487440	10 pcs	Static mixer for epoxy and PU in 50 ml, SQ 5.3-24
	A	24	1,9	2900614	12 pcs	Static mixer for epoxy and PU in 50 ml, SQ 24
	B	20	3,8	1034575	10 pcs	Static mixer MBX 6.5-20-S 10:1 for LOCTITE AA 3038
	B	16	0,27	1453183	10 pcs	Static mixer for LOCTITE 3090 and LOCTITE 4070, MLX 2.5-16-5
	B	16	0,6	1826921	10 pcs	Static mixer 1:1 / 2:1 in 50 ml, MBH 3.2-16 S
	B	24	2,6	1573153	10 pcs	Static mixer 1:1 / 2:1 in 50 ml, MBQ 5.0-24 L
	C	24	6,2	1487439	10 pcs	Static mixer for epoxy in 200 / 400 ml, SQ 7.5-24
	C	18	6,4	1104046	10 pcs	Static mixer 4:1 / 10:1 for 400 / 490 ml MCX 08-18
	C	24	8,5	720174	10 pcs	Static mixer 1:1 / 2:1 in 200 / 400 ml, MC 8-24
	C	18	21	367545	10 pcs	Static mixer 1:1 for MS polymers in 410 ml, MC 13-18
	C	24	9,3	1104047	10 pcs	Static mixer 4:1 / 10:1 in 400 / 490 ml, MCX 08-24
	F	24	8,7	2447734	10 pcs	Spray mix nozzle for LOCTITE PC 7255 MFQ-08-24C-13
	F	24	5,4	1573135	10 pcs	Static mixer 1:1 / 2:1 in 400 ml, MFH 6.0-24 T













# Syringe Consumables and Supplies

Illustration	Item No.	Order No.	Pack Size	Description
	97207	88656	40 pcs	10 ml clear syringe barrel kit
	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
	97248	218275	50 pcs	Luer-Lock® tip caps



# Feed Line and Fittings

Feed Line			
Illustration	Order No.	Description	Where used
	142646	PTFE Lined Tube 1/4" O.D. (10 meters)	Various
	142645	PTFE Lined Tube 3/8" O.D. (10 meters)	Various
	1087219	Tubing PTFE clear O.D. 1,6 mm (20 meters)	PU20 Digital Peristaltic Dispenser
	1109147	Tubing PTFE black O.D. 1,6mm (20 meters)	PU20 Digital Peristaltic Dispenser
	1001830	Tubing PTFE clear O.D. 2,0mm (20 meters)	PU20 Digital Peristaltic Dispenser
	1109318	Tubing PTFE black O.D. 2,0mm (20 meters)	PU20 Digital Peristaltic Dispenser
	1109317	Tubing PTFE clear O.D. 2,5mm (20 meters)	PU20 Digital Peristaltic Dispenser
	1070736	Tubing PTFE black O.D. 2,5mm (20 meters)	PU20 Digital Peristaltic Dispenser
	1019162	Tubing PTFE clear O.D. 3,2mm (20 meters)	PU20 Digital Peristaltic Dispenser
	1070735	Tubing PTFE black O.D. 3,2mm (20 meters)	PU20 Digital Peristaltic Dispenser

Fittings			
Illustration	Order No.	Description	Where used
	360636	TANK FITTING 1/4 NPTx1/4 TUBE (1 pc)	Reservoirs and Integrated Systems
	360633	TANK FITTING 1/4 NPT x 3/8 TUBE (1 pc)	Reservoirs and Integrated Systems
	88672	Luer-Lock® adapter kit: 20 Luer-Locks® and 2 adapters	Dispense Valves
	479882	ELBOW FITTING, 1/4 Tube X 1/8M NPT (10 pc)	Dispense Valves
	360634	Fitting 1/8M NPT x 1/4 Tube (1 pc)	97113 Dispense Valve
	360636	Fitting 1/8M NPT x 3/8 Tube (1 pc)	97114 Dispense Valve
	1990861	C Type Cartridge Adapter (1 pc) (Tube fittings must be purchased sparely)	MM30 Cartridge Pusher
	529510	Spring Guard Tube 1/4" (1 pc)	Reservoirs and Integrated Systems



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