

Hand-operated dispense valves

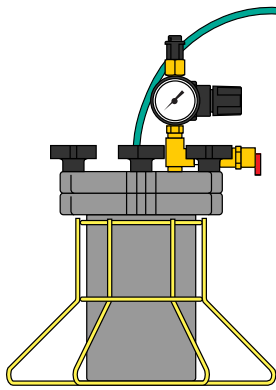


Lightweight, reliable EFD hand-lever valves solve many difficult assembly fluid applications, where controlled beads of cyanoacrylates, anaerobics, adhesives, grease, MEK, paint-based inks, solder masks and glues are applied.

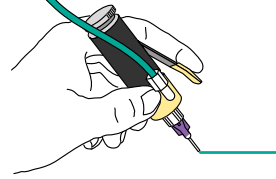
With proper fluid reservoir pressure and the appropriate dispense tip, you get exact flow control – good enough “to sign your name with it” as reported by customers.

Users also report more accurate application with less rework and decreased fluid use up to 50%.





You can do much more
with this hand-lever valve,



than you can with these



Set the fluid reservoir pressure at the exact flow you need. Then position the dispense valve and get precise beads ... exact, neat, fast and without mess, waste or rework. EFD reliable dispense hand-lever valves take the fuss out of assembly fluid dispensing.

Hand-Lever Dispense Valves

| Key | |
|-----|--------------|
| ● | Recommended |
| ▲ | Satisfactory |
| ■ | Do not use |

| | 752V-HL | 740V-HL | 725-HL |
|----------------------|---------|---------|--------|
| Anaerobics | ● | ■ | ■ |
| Copper brazing paste | ■ | ■ | ● |
| Cyanoacrylates | ● | ■ | ■ |
| White glue | ■ | ● | ● |
| Grease | ■ | ● | ● |
| Oils | ● | ● | ● |
| Paste flux | ■ | ● | ● |
| Solvents | ● | ● | ■ |
| Vinyl adhesive | ■ | ● | ● |

Limitations

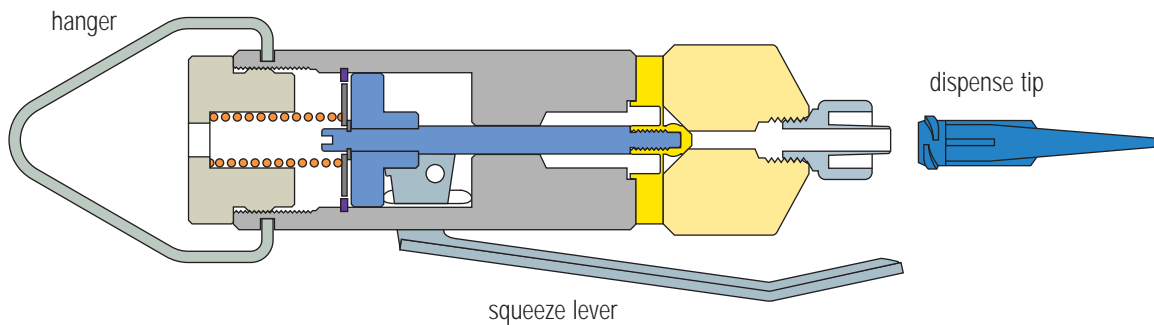
- 1 Fluid must be able to flow to the hand valve at 80 psi or below.
- 2 The fluid tube length, from the pressure reservoir to the hand valve, should not exceed 5 ft. unless the fluid is very low viscosity.
- 3 We recommend fluid containers, or disposable liners, be used in the reservoirs.
- 4 The 725-HL is designed for higher flow rates, as compared to the 740V-HL.

To ensure the best setup for the specific fluid you are applying,
contact EFD for dispense hand valve, tubing and reservoir recommendations.



752V-HL

Get millions of operations without sticking or repairs. The flexible diaphragm ensures trouble-free, precise operation. Use for cyanoacrylate deposits or for any low viscosity fluid.



Shown actual size
 Weight: 109.4 grams (3.86 oz).
 Wetted Materials:
 polypropylene
 UHMW polyethylene

Note: The fluid input fitting is located 90° from the squeeze lever.

Operation

Squeezing the lever causes the diaphragm to open 6 mm (0.024") allowing pressurized fluid to flow out the dispense needle. Releasing the lever provides instant, drip-free cutoff of liquid flow.

Applications

The 752V-HL is the best choice to apply beads of cyanoacrylate for gasket and grommet bonding. Also use for MEK bonding of plastic items and applying anaerobic to various automotive parts.

Recommendations

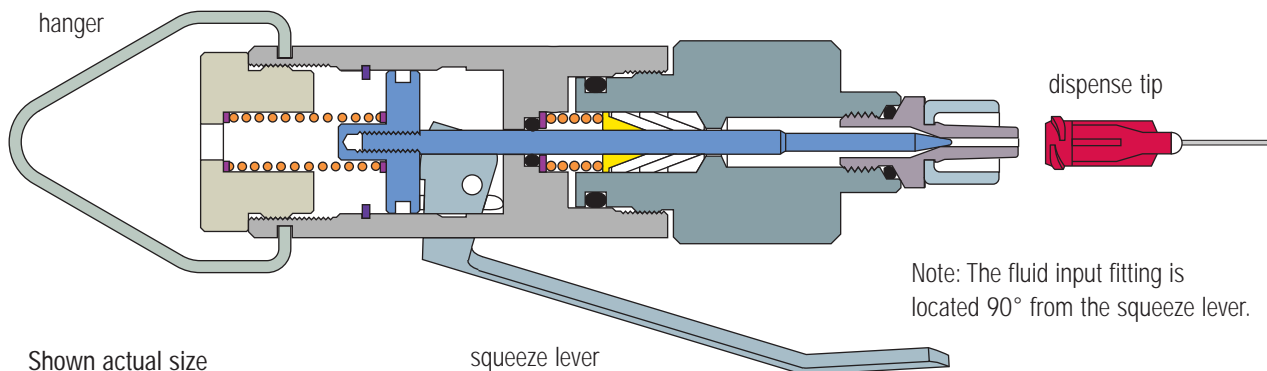
For cyanoacrylates, use the #2000756 filter regulator which incorporates a coalescing filter to trap any airborne moisture.

Order tanks and dispense tips separately. See pages 6-7.
 For fluid compatibility, see page 2.



740V-HL

Incorporating precision needle control and zero fluid dead volume, the 740V-HL is designed for millions of trouble-free operations. Use for precise beads and dots of low to medium viscosity nonreactive fluids.



Shown actual size

Weight: 130.8 grams (4.61 oz).

Wetted Materials:

hard-coated aluminum

Teflon®

stainless steel

Operation

Squeezing the lever causes the sealing needle to retract, allowing the pressurized fluid to flow out the dispense tip. Releasing the lever causes immediate no-drip cutoff of fluid flow.

Applications

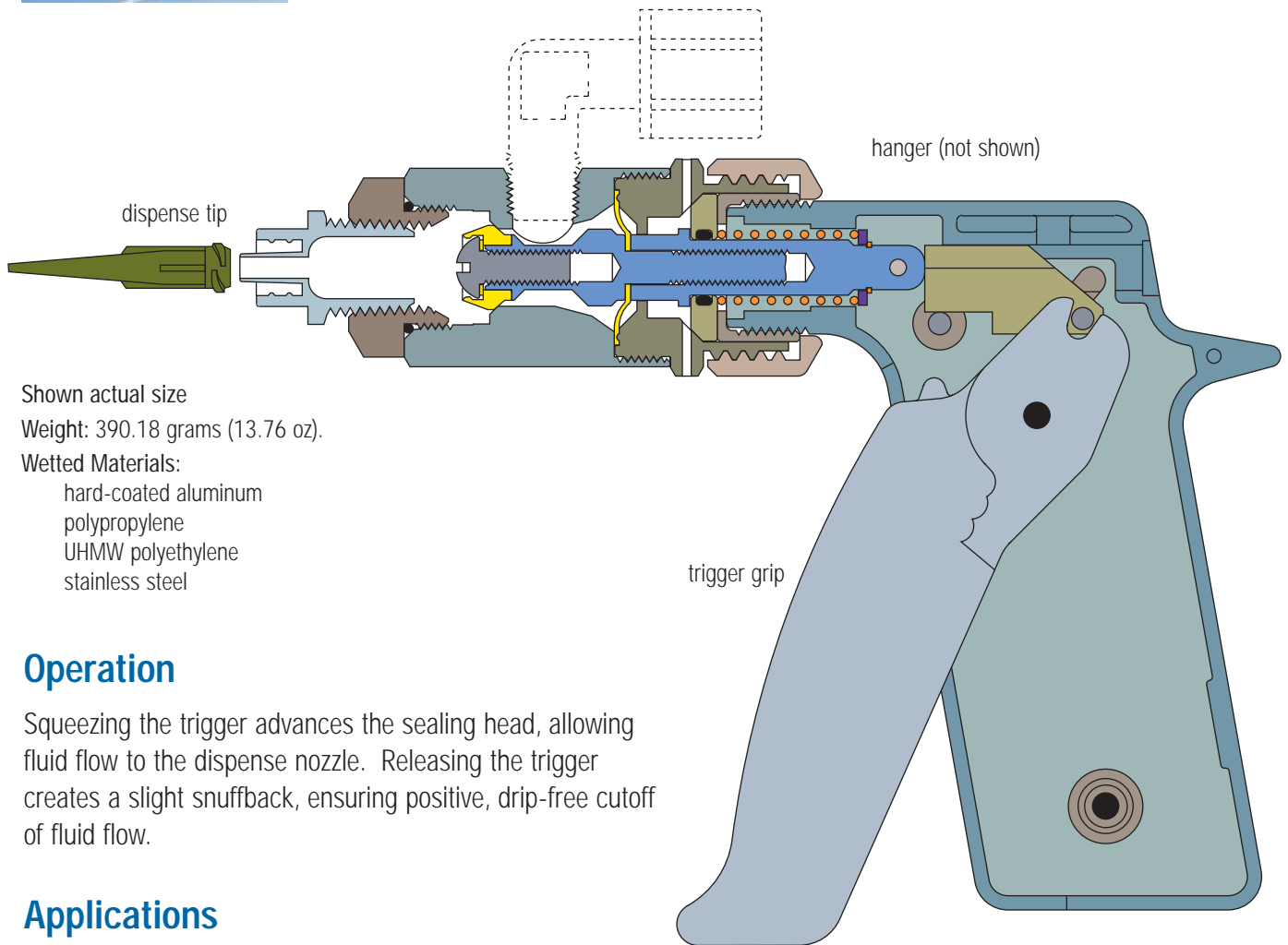
Use the 740V-HL to apply solder masks, liquid flux, ink-based paints for marking and decoration, and all types of honey-like and white glues.

Order tanks and dispense tips separately. See pages 6-7.
For fluid compatibility, see page 2.



725-HL

Designed for heavy duty operation, the 725-HL provides relatively high flow application of medium to high viscosity nonreactive fluids without fuss, maintenance or downtime. Accepts dispense tips, and larger metal and plastic nozzles.



Shown actual size

Weight: 390.18 grams (13.76 oz).

Wetted Materials:

- hard-coated aluminum
- polypropylene
- UHMW polyethylene
- stainless steel

Operation

Squeezing the trigger advances the sealing head, allowing fluid flow to the dispense nozzle. Releasing the trigger creates a slight snuffback, ensuring positive, drip-free cutoff of fluid flow.

Applications

Apply pourable silicones for gasketing, copper brazing paste, all types of organic glues and adhesives, solder masks and gel-like flowable fluids.

Order tanks, dispense tips or nozzles separately. See pages 6-7.
For fluid compatibility, see page 2.



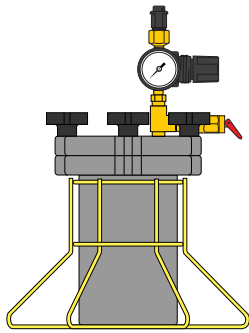
The System

Once the hand-lever valve is specified (based on fluid type), the pressure reservoir must be selected. Primary selection criteria is the volume of fluid required and whether the fluid is supplied in 1 pound or 1 liter bottles.

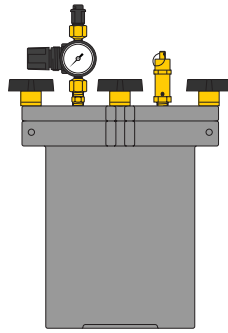
The air regulator is chosen based on fluid viscosity. Watery fluids are best pressurized with the 0–15 psi (0–1.03 bar), while thicker fluids require the 0–100 psi (0–7 bar) regulator. Since pressure reservoirs are charged by plant air, it is recommended that the five-micron filter regulator be used to filter any contaminant. For cyanoacrylates, the #2000F756 should be used to capture any air moisture.

Tank reservoirs

Each tank is shipped complete with constant bleed precision air regulator and gauge, air hose, liner and fluid feed tubing.

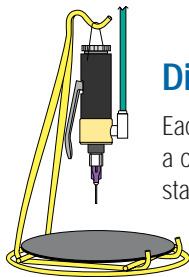


Model 615DTH:
1.0 liter tank



Model 626DTH:
5.0 liter tank

| | #615DTH | #626DTH |
|----------------------------|--------------------|---------------------|
| Tank body | cast aluminum | cast aluminum |
| Inside diameter | 9.7 cm (3.82 in.) | 17.5 cm (6.81 in.) |
| Inside depth | 17.4 cm (6.87 in.) | 24.7 cm (9.75 in.) |
| Replaceable liner | polyethylene | polyethylene |
| Liner capacity | 0.95 liter | 3.8 liters |
| Overall width | 17.3 cm (6.81 in.) | 23.8 cm (11.14 in.) |
| Overall height | 35.6 (14.01 in.) | 41.3 cm (15.98 in.) |
| Regulator & gauge | 100 psi (7 bar) | 100 psi (7 bar) |
| Maximum operating pressure | 100 psi (7 bar) | 100 psi (7 bar) |
| Bottle size accepted | 500 gm (1 pound) | 1 liter |
| | #615DTL | #626DTL |
| Regulator & gauge | 15 psi (1 bar) | 15 psi (1 bar) |

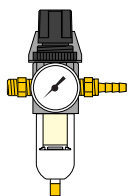


Dispense valve stand

Each dispense hand valve incorporates a convenient hanger for storing on the stand when not in use. #61522

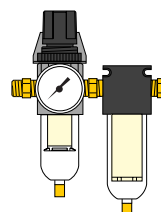
Tubing

- #2025PE Standard tubing used for most fluids. 10 ft. included in 615DT and 626DT tanks. Compatible with cyanoacrylates. Clear PE tubing 1/8" ID x 1/4" OD.
- #2029 Use for high solvent-based adhesives or to increase flow rate of high viscosity fluids. Order separately. Clear Teflon® FEP 3/16" ID x 1/4" OD.
- #2316PE 10 ft. included in 626DT tanks. Clear PE tubing 1/4" ID x 3/8" OD.



Five micron filter regulator

Special filter regulator provides proper air filtering for all dispense valves and prevents contamination of fluids. Provides air pressure control at the workstation. Order if you do not have dry, clean, filtered factory air. #2000F755



Five micron filter regulator with coalescing filter

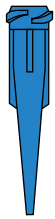
Special filter regulator removes liquid aerosols from air supply for cyanoacrylate applications.

2000F756



Dispense tips and nozzles

To get the best deposit control, select the most appropriate outlet tip. Each dispense hand valve includes a selection of tips. A wide variety of sizes, types and materials is available to meet all application requirements.

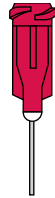


SmoothFlow™ tapered tips

Unique tips provide smooth flow of all fluid types. Molded flash-free polyethylene with UV-light block additive and SafetyLok™ hub design.

(50) tips per box

| gauge | order # | color | gauge | order # | color |
|-------|----------|-------|-------|----------|-------|
| 14 | 5114TT-B | OLIVE | 20 | 5120TT-B | PINK |
| 16 | 5116TT-B | GREY | 22 | 5122TT-B | BLUE |
| 18 | 5118TT-B | GREEN | 25 | 5125TT-B | RED |

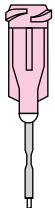


Precision stainless steel tips

Burr-free, polished and passivated stainless steel tips with polypropylene SafetyLok hubs.

(50) tips per box

| gauge | order # | color | gauge | order # | color |
|-------|---------|--------|-------|---------|----------|
| 14 | 5114-B | OLIVE | 22 | 5122-B | BLUE |
| 15 | 5115-B | AMBER | 23 | 5123-B | ORANGE |
| 18 | 5118-B | GREEN | 25 | 5125-B | RED |
| 20 | 5120-B | PINK | 27 | 5127-B | CLEAR |
| 21 | 5121-B | PURPLE | 30 | 5130-B | LAVENDER |

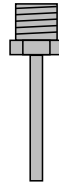


PTFE-lined tips

12.7 mm (0.5") long PTFE-lined crimped tips for cyanoacrylate adhesives.

(50) tips per box

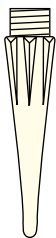
| ID | order # | color |
|------------------|------------|-------|
| 0.13 mm (0.020") | 5121TLCS-B | PINK |
| 0.50 mm (0.006") | 5125TLCS-B | GREY |



Metal nozzles

38.1 mm (1.5") long metal nozzles with 1/4" NPT. Use only with the 725-HL dispense valve. Sold individually.

| gauge | ID | order # |
|-------|-----------------|-------------|
| 8 | 3.4 mm (0.135") | 5008-1/4NPT |
| 10 | 2.7 mm (0.106") | 5010-1/4NPT |
| 12 | 2.2 mm (0.085") | 5012-1/4NPT |



Plastic nozzles

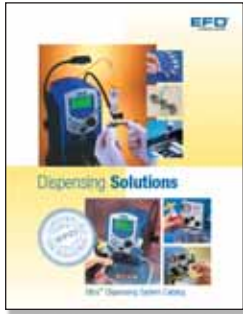
Polypropylene nozzles with 1/4" NPT. Use only with the 725-HL dispense valve. Nozzles may be cut as required.

(10) nozzles per package

| order # | description |
|---------|---|
| 5180-B | 64 mm long x 3.2 mm opening (2 1/2" long x 1/8" opening) |
| 5181-B | 64 mm long x 1.6 mm opening (2 1/2" long x 1/8" opening) |

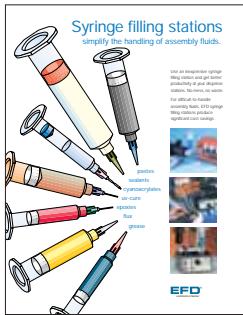
Dispense tip dimensions are for reference. See EFD sales drawing for exact specifications.

More products



Ultra® Dispensing Systems catalog

Manual applicators and air-powered dispensers. Improves throughput and process control. Ultra catalog provides complete data on various automatic dispensers, dispensing components and customer quotes.



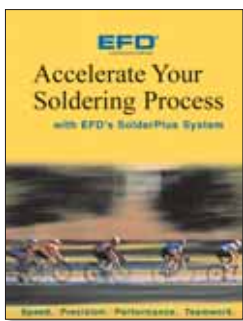
Barrel Filling catalog

It's easy to fill barrels with pourable fluids; harder with sealants, pastes, grease. Catalog describes several devices to easily transfer thick fluids from cartridges, or high volume barrel filling from ratio pumps. Includes special device to fill small reservoirs from large containers of cyanoacrylates.



SMART™ dispensers catalog

For manually controlled fluid application and portability, specify the easy-to-use DispensGun™ and Hand Plunger. Compatible with complete Ultra dispensing component line.



SolderPlus® catalog

Switching from flux-cored wire to SolderPlus provides better quality solder joints, faster and easier – with reduced costs.



For EFD sales and service in over 30 countries, contact EFD or go to www.efd-inc.com/contact

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