

Hand-Operated Dispense Valves

Ideal for assembly fluid application solutions



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%.

Features and Benefits

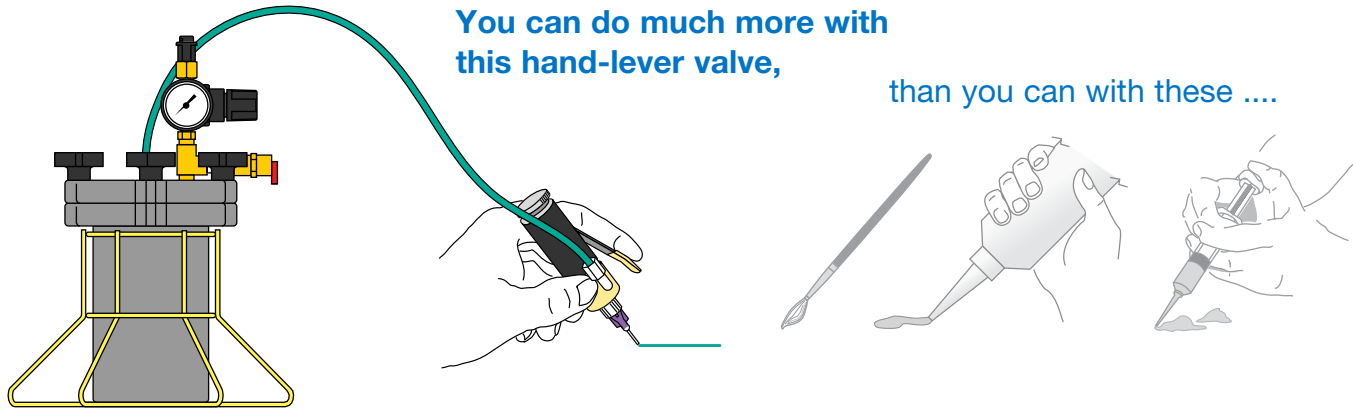
- Ergonomic design
- Positive shutoff, no dripping
- Easy to use
- Simplified maintenance



more info



Hand-Lever Dispense Valves



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.

Fluid Compatibility Chart

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

Key
 ● Recommended
 X Do not use

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 Nordson EFD for dispense hand valve, tubing and reservoir recommendations.

752V-HL Hand-Lever Diaphragm Valve

For cyanoacrylates and other reactive fluids



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.

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.

For fluid compatibility, see page 2.

Accessories

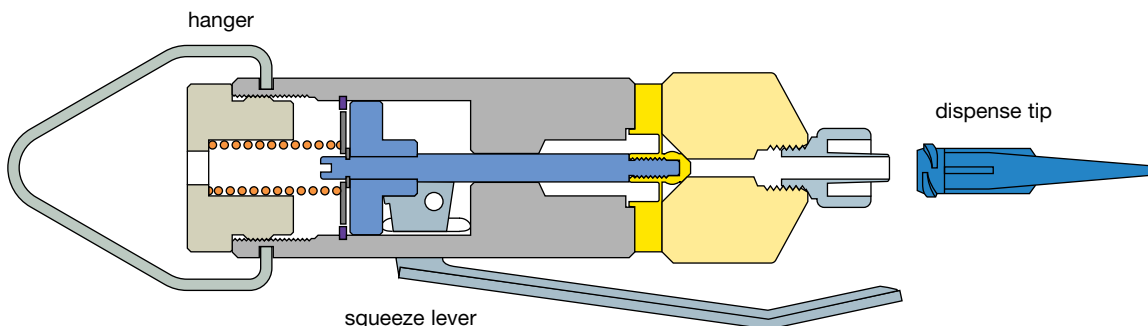
For cyanoacrylates, use the #7016548 filter regulator which incorporates a coalescing filter to trap any airborne moisture.

Order replacement dispense tips. See page 7.

752V-HL Specifications

Item	Product
Weight	109.4 grams (3.86 oz)
Wetted Materials	polypropylene UHMW polyethylene

P/N	Description
7021415	752V-HL diaphragm valve with hand lever
7021408	752-HL system with 1.0 liter tank*
7021409	752-HL system with 5.0 liter tank*



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

*Systems include a lever-actuated dispense valve, 1.0 liter or 5.0 liter tank reservoir with pressure regulator (1 to 60 psi), all fittings, 10-ft fluid feed tube, disposable plastic tank liner, valve stand and (30) different dispensing tips. See page 7.

740V-HL Hand-Lever Needle Valve

For precise beads and dots



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.

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.

For fluid compatibility, see page 2.

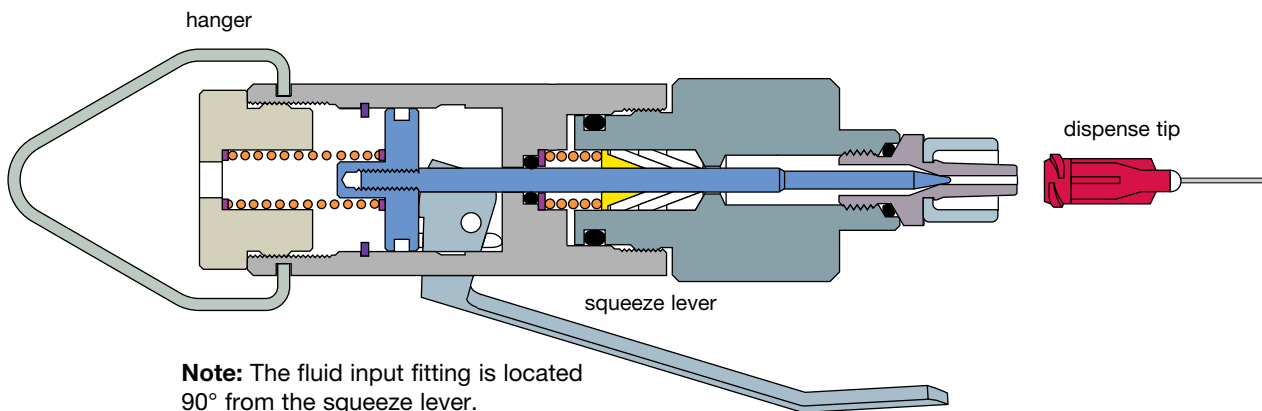
Accessories

Order replacement dispense tips. See page 7.

740V-HL Specifications

Item	Product
Weight	130.8 grams (4.61 oz)
Wetted Materials	hard-coated aluminum PTFE stainless steel

P/N	Description
7021209	740V-HL needle valve with hand lever
7021205	740-HL system with 1.0 liter tank*
7021206	740-HL system with 5.0 liter tank*



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

*Systems include a lever-actuated dispense valve, 1.0 liter or 5.0 liter tank reservoir with pressure regulator (1 to 60 psi), all fittings, 10-ft fluid feed tube, disposable plastic tank liner, valve stand and (30) different dispensing tips. See page 7.

725-HL Hand-Lever Piston Valve

For medium- to high- viscosity fluids



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.

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.

For fluid compatibility, see page 2.

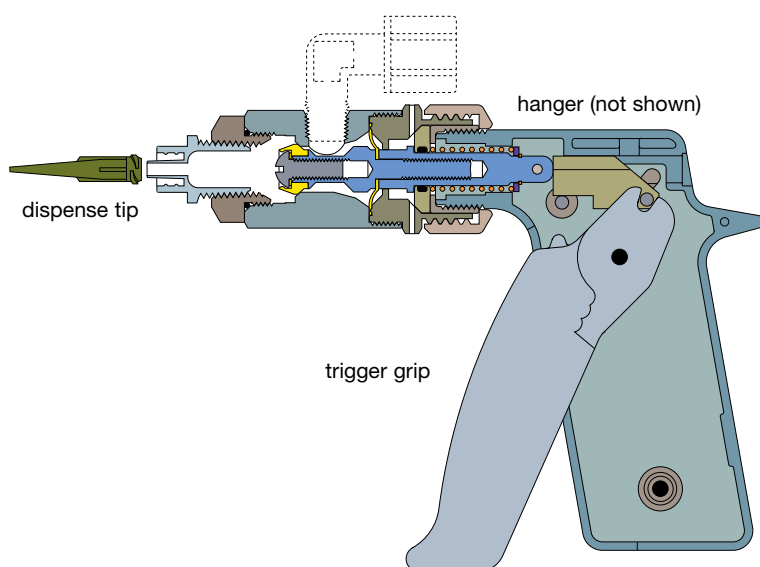
Accessories

Order tanks or nozzles separately. See pages 6-7.

725-HL Specifications

Item	Product
Weight	390.18 grams (13.76 oz)
Wetted Materials	hard-coated aluminum polypropylene UHMW polyethylene stainless steel
P/N	Description
7020888	725-HL high flow piston valve with hand lever

Dispensing Components		
Disposable polyethylene nozzles with 1/4 NPT to fit 725-HL valves. May be cut as required. (10) per package.		
Part #	Description	
7018555	63.5 mm x 3.1 mm opening (2 1/2" long x 1/8")	
7018557	63.5 mm x 1.6 mm opening (2 1/2" long x 1/16")	
Metal nozzles 38 mm (1 1/2") long with 1/4 NPT to fit 725-HL valves		
Part #	Gauge	ID
7014850	7	3.8 mm (.150")
7014851	8	3.4 mm (.135")
7014848	10	2.7 mm (.106")
7014842	12	2.2 mm (.085")
7014844	14	1.6 mm (.063")
7014846	16	1.2 mm (.047")



Hand-Lever Valve System

Option for tanks, tubing, and more



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.

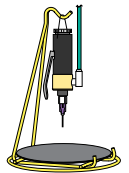
The air regulator is chosen based on fluid viscosity. Watery fluids are best pressurized with the 0–15 psi (0–1.03 bar), while thicker fluids require the 0–100 psi (0–7 bar) regulator. Since pressure reservoirs are charged by plant air, it is recommended that the five-micron filter regulator be used to filter any contaminant. For cyanoacrylates, the #7016548 filter regulator 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.

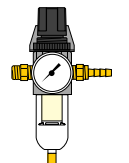
Dispense valve stand

Each dispense hand valve incorporates a convenient hanger for storing on the stand when not in use. #7020105



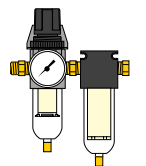
Five micron filter regulator

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. #7002002



Five micron filter regulator with coalescing filter

Special filter regulator removes liquid aerosols from air supply for cyanoacrylate applications. # 7016548



Product	#7010004	#7020186
Tank body	cast aluminum	cast aluminum
Inside diameter	9.7 cm (3.82")	17.5 cm (6.81")
Inside depth	17.4 cm (6.87")	24.7 cm (9.75")
Replaceable liner	polyethylene	polyethylene
Liner capacity	0.95 liter	3.8 liters
Overall width	17.3 cm (6.81")	23.8 cm (11.14")
Overall height	35.6 (14.01")	41.3 cm (15.98")
Regulator & gauge	100 psi (7 bar)	100 psi (7 bar)
Maximum operating pressure	100 psi (7 bar)	100 psi (7 bar)

Tubing

P/N	Description
7016772	Standard tubing used for most fluids. 10 ft. included in 1.0 liter tanks. compatible with cyanoacrylates. Clear PE tubing 1/8" ID x 1/4" OD
7016779	Use for high solvent based adhesives or to increase flow rate of high viscosity fluids. Order separately. Clear PTFE FEP 3/16" ID x 1/4" OD
7016772	10 ft. included in 5.0 liter tanks. Clear PE tubing 1/4" ID x 3/8" OD

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.

Precision Stainless Steel Tips			
Gauge	Color		Straight
			12.7 mm (0.50")
14		Olive	7018043
15		Amber	7018068
18		Green	7018122
20		Pink	7018178
21		Purple	7018233
22		Blue	7018272
23		Orange	7018314
25		Red	7018345
27		Clear	7005008
30		Lavender	7018433
32		Yellow	n/a

Burr-free, polished and passivated stainless steel tips with polypropylene SafetyLok™ hubs. (50 tips per box)



PTFE-Lined Tips			
Color		12.7 mm (0.50")	25.4 mm (1.0")
	Grey	7018256	7005003
	Pink	7018388	7005004

12.7 mm (0.5") long PTFE-lined crimped tips for cyanoacrylate adhesives. (50 tips per box)



SmoothFlow™ Tapered Tips			
Gauge	Color		Standard
14		Olive	7018052
16		Grey	7018100
18		Green	7018158
20		Pink	7005009
22		Blue	7018298
25		Red	7018391
27		Clear	7018417

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)



Dispense Tip Recommendations

Applications	DISPENSING TIPS			
	Tapered	Stainless Steel	PTFE-Lined	Flexible
Very Low Viscosity Fluids	X	●	●	●
Particle-Filled Pastes	●	●	▲	X
Microdot Deposits	X	●	▲	●
Fluid is Reactive to Metal	●	X	●	●
Depositing in Recesses	▲	●	●	▲
Spreading/Smearing	●	▲	●	▲
Fast-Curing Glues	●	▲	●	●
Beading, Striping	●	●	●	▲
Easily Scratched Substrates	●	▲	●	●
Fluids				
Adhesives	●	●	●	●
Anaerobics	●	▲	●	▲
Conformal Coatings	●	▲	▲	X
Cyanoacrylates	●	▲	●	●
Gel Cyanoacrylates	●	▲	●	▲
Epoxies	●	●	●	X
Greases	●	●	●	X
Light-Cure Adhesives	●	▲*	▲*	X
Oils	●	●	●	▲
Paints	●	●	●	X
Sealants	●	▲	▲	X
Silver Epoxy	X	▲+	X	X
Solder Paste/Braze Pastes	●	●	▲	X
Solder Masks	●	●	▲	X
Solvents	X	●	●	●
UV-Cure Adhesives	●**	▲*	▲*	▲

Key

- Recommended
- ▲ Satisfactory
- X Do not use

*OK if used with tip shield, part #7017715 or 7017717.

**Standard tapered tips are recommended for best results.

+Chamfered tips are recommended for best results



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Free Process Evaluation

Contact Nordson EFD to configure a dispensing system that meets your specific needs, with:

- A complimentary process evaluation by experienced fluid dispensing experts
- Samples processed for customer evaluation and approval prior to purchase