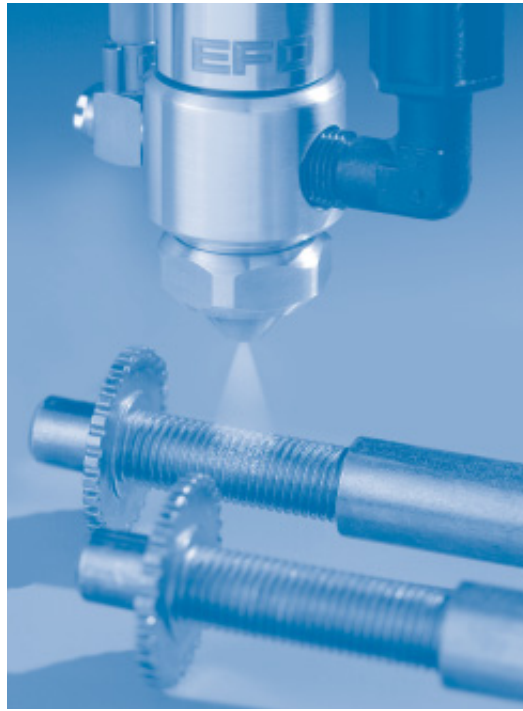


Dispense valve system selection guide.



This guide will help you easily select the best EFD® dispense valve system for your specific fluid and application.

Page two cross-references the fluid with the fluid application requirements to identify the recommended valve.

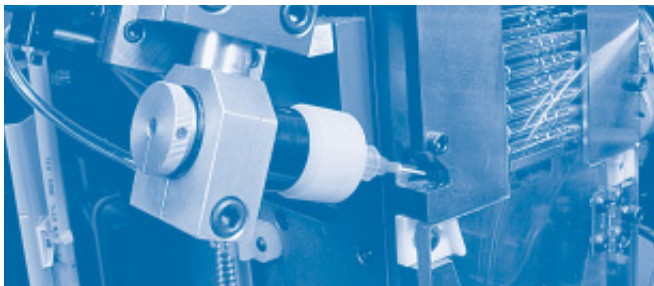
Page three cross-references the fluid and valve type with the recommended reservoir.

Features of valves and controllers are highlighted on page four.

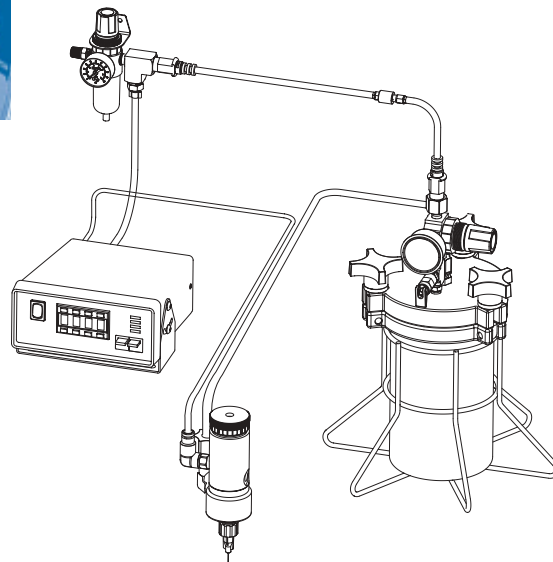
A discussion with one of our Fluid Application Specialists is recommended to ensure all the proper accessories are included, as well as the most applicable dispense tips for your application.

Benefits

- Proven designs
- Long life with minimal maintenance
- Unconditional performance guarantee
- Worldwide technical support



tech@efd-inc.com



Fluids	Applications							
	Microdots*	Dots	Potting	Encapsulating	Lines/ Stripes	Filling/ Packaging	Spray	Internal Spray
Accelerators	740V-SS	752V-UHSS	—	—	740V-SS	752V-UHSS	780S-SS	782RA
Activators	740V-SS	752V-UHSS	—	—	740V-SS	752V-UHSS	780S-SS	782RA
Alcohol	740V-SS	752V-UHSS	—	—	740V-SS	752V-UHSS	780S-SS	782RA
Anaerobics	752V-UHSS	752V-UHSS	—	—	752V-UHSS	725HF-A	—	—
Conformal Coatings	740V-SS	752V-UHSS	—	752V-UHSS	752V-UHSS	725HF-SS	780S-SS	—
Copper Braze Paste	—	725DA-SS	—	—	725DA-SS	725HF-SS	—	—
Cyanoacrylates	752V-UHSS	752V-UHSS	—	—	752V-UHSS	725HF-SS	—	—
Electrolytes	740V-SS	752V-UHSS	—	—	—	752V-UHSS	780S-SS	—
Epoxies	740V-SS	752V-UHSS	725DA-SS	725DA-SS	725DA-SS	725HF-SS	—	—
Fluxes, liquid	740V-SS	752V-UHSS	—	—	752V-UHSS	725HF-SS	780S-SS	—
Fluxes, paste	740V-SS	725DA-SS	—	—	725DA-SS	725HF-SS	—	—
Greases								
low pressure (to 100 psi)	740V-SS	725DA-SS	—	—	725DA-SS	725HF-SS	780S-SS	—
medium pressure (to 300 psi)	740V-SS	736HPA	—	—	736HPA	736HPA	780S-SS	—
high pressure (to 2500 psi)	—	736HPA	—	—	736HPA	736HPA	—	—
Inks	740V-SS	752V-UHSS	—	—	740V-SS	725HF-SS	780S-SS	782RA
Oils	740V-SS	752V-UHSS	—	—	740V-SS	725HF-SS	780S-SS	782RA
Paints	740V-SS	752V-UHSS	—	—	740V-SS	725HF-SS	780S-SS	782RA
Reagents	740V-SS	752V-UHSS	—	—	740V-SS	752V-UHSS	780S-SS	—
RTV/sealants								
low pressure (to 100 psi)	740V-SS	725DA-SS	725DA-SS	725DA-SS	725DA-SS	725HF-SS	—	—
medium pressure (to 300 psi)	740V-SS	736HPA	736HPA	736HPA	736HPA	736HPA	—	—
high pressure (to 2500 psi)	—	736HPA	736HPA	736HPA	736HPA	736HPA	—	—
Solder Resists	—	725DA-SS	—	—	725DA-SS	725HF-SS	—	—
Solvents	740V-SS	752V-UHSS	—	—	740V-SS	752V-UHSS	780S-SS	782RA
Solder Pastes	790	790	—	—	790	—	—	—
UV-cure & light-cure	740V-SS	752V-SS	752V-SS	752V-SS	752V-SS	725HF-A	—	—
UV-cure with anaerobics	752V-SS	752V-SS	752V-SS	752V-SS	752V-SS	725HF-A	—	—
Water	740V-SS	752V-UHSS	—	—	740V-SS	752V-UHSS	780S-SS	782RA
White Glue	—	725DA-SS	—	—	725DA-SS	725HF-SS	—	—

*Note: For microdot applications requiring general purpose tip sizes between 27 and 33 gage, specify valve model 741MD-SS in place of 740V-SS.

APPLICATION DEFINITIONS

Microdots: Any deposit having a volume less than 5 ul (5 ul = 5 microliters = 5/1000 cc).

Dots: Any deposit having a volume larger than 5 ul.

Potting: Filling a cavity usually containing an electronic device, electronic circuit or wires.

Encapsulating: Applying a coating to an electronic component for protection from mechanical or environmental damage.

Lines: A line, bead or stripe of material.

Filling/Packaging: Filling containers such as small bottles, cartridges and tubes.

Spray: Applying fluids using low pressure air to break the fluid into fine droplets for coating or marking.

Internal Spray: Spraying the inside diameter of holes and cylinders.

reservoir selector

Fluids	Valves									
	725DA-SS	725HF-SS	725HF-A	736HPA	740V-SS	752V-SS	752V-UHSS	780S-SS	782RA	790
Accelerators	—	—	—	—	615DTL	—	615DTL	615DTL	615DTL	—
Activators	—	—	—	—	615DTL	—	615DTL	615DTL	615DTL	—
Alcohol	—	—	—	—	615DTL	—	615DTL	615DTL	615DTL	—
Anaerobics	—	—	626DTH	—	—	—	615DTH	—	—	—
Conformal Coatings	—	626DTH	—	—	615DTH	—	615DTH	626DTH	—	—
Copper Braze Paste	626DTH	626DTH	—	—	—	—	—	—	—	—
Cyanoacrylates	—	626DTH	—	—	—	—	615DTL	—	—	—
Electrolytes	—	—	—	—	615DTL	—	615DTL	615DTL	—	—
Epoxies	626DTH	626DTH	—	—	615DTH	—	615DTH	—	—	—
Fluxes, liquid	—	626DTL	—	—	615DTL	—	615DTL	615DTL	—	—
Fluxes, paste	5194-12H	5194-12H	—	—	5192-6H	—	—	—	—	—
Greases										
low pressure (to 100 psi)	5194-12H	5194-12H	—	—	5192-6H	—	—	5192-6H	—	—
medium pressure (to 300 psi)	—	—	—	Ratio Pump	Ratio Pump	—	—	Ratio Pump	—	—
high pressure (to 2500 psi)	—	—	—	Ratio Pump	—	—	—	—	—	—
Inks	—	626DTL	—	—	615DTL	—	615DTL	615DTL	615DTL	—
Oils	—	626DTH	—	—	615DTH	—	615DTH	615DTH	615DTH	—
Paints	—	626DTH	—	—	615DTH	—	615DTH	615DTH	615DTH	—
Reagents	—	—	—	—	615DTL	—	615DTL	615DTL	—	—
RTV/sealants										
low pressure (to 100 psi)	5201-SYS-H	—	—	—	5201-SYS-H	—	—	—	—	—
medium pressure (to 300 psi)	—	—	—	Ratio Pump	Ratio Pump	—	—	—	—	—
high pressure (to 2500 psi)	—	—	—	Ratio Pump	—	—	—	—	—	—
Solder Resists	626DTH	626DTH	—	—	—	—	—	—	—	—
Solvents	—	—	—	—	615DTL	—	615DTL	615DTL	615DTL	—
Solder Pastes	—	—	—	—	—	—	—	—	—	Barrel
UV-cure & light-cure	—	—	626DTH-B	—	626DTH-B	626DTH-B	—	—	—	—
UV-cure with anaerobics	—	—	626DTH-B	—	—	626DTH-B	—	—	—	—
Water	—	—	—	—	615DTL	—	615DTL	615DTL	615DTL	—
White Glue	626DTH	626DTH	—	—	—	—	—	—	—	—

NOTES

The 741MD-SS is supplied with a luer lock input fitting for barrel reservoir use.

The 615 and 626 series tanks are top ported and can accept shipping containers that fit the internal dimensions of the tanks.

	model 615	model 626
Inside diameter	3.82" (9.7 cm)	6.81" (17.3 cm)
Inside depth	6.87" (17.4 cm)	9.75" (24.8 cm)
Liner volume	0.95 liter	3.8 liters

The 615 and 626 series tanks can be supplied with a stainless steel float switch (add -FS after tank part #). Tanks with a float switch are not recommended for use with adhesives or fluids that may restrict float travel.

For low viscosity fluids, specify the 0-15 psi reservoir.

For medium viscosity fluids, specify the 0-100 psi reservoirs.

The 615DTL (15 psi) and 615DTH (100 psi) are supplied with 10 feet of 1/4" flexible polyethylene feed tubing.

The 626DTL (15 psi) and 626DTH (100 psi) are supplied with 10 feet of both the 1/4" and 3/8" tubing.

The 626DTH-B reservoir is supplied with both 1/4" and 3/8" black tubing.

The 0-100 psi cartridge reservoirs have 5 feet of 3/8" flexible polyethylene tubing.

The 5201-SYS-H has 5 feet of 3/8" flexible polyethylene tubing.

Valve features	Valves									
	725DA-SS	725HF-SS	725HF-A	736HPA	740V-SS 741MD-SS	752V-SS	752V-UHSS	780S-SS	782RA	790
Adjustable fluid flow	✓	—	—	—	✓	✓	✓	✓	✓	✓
Snuff-back cutoff	✓	—	—	✓	—	—	—	—	—	—
Air cutoff	—	—	—	—	—	—	—	✓	✓	—
Valve chamber										
Acetal	—	—	✓	—	—	✓	—	—	—	○
303 stainless steel	✓	✓	—	✓	✓	○	○	✓	—	✓
UHMW* polymer	—	—	—	—	—	—	✓	—	—	—
Fail-safe normally closed	✓	✓	✓	✓	✓	✓	✓	✓	✓	—
FDA-compliant wetted parts	✓	✓	✓	—	✓	✓	✓	✓	—	✓
Stroke control reference knob	—	—	—	—	✓	✓	✓	✓	✓	—
Tamper-resistant stroke control	—	—	—	—	○	○	○	○	○	—
UHMW* polymer diaphragm	✓	✓	✓	—	—	✓	✓	—	—	—
303 stainless steel air cylinder	—	—	—	✓	—	✓	✓	✓	—	—

* Ultra High Molecular Weight polyethylene

✓ Applicable ○ Optional — Not applicable

Controller features	ValveMate™ controllers			
	7000	7040	7060R24	7090
Application	General Purpose Valve Control	Spray Valve Control	Radial Spray Valve Control	Auger Valve Control
Use with Valve Series	725, 736, 740, 752	780S	782RA	790
Digital time set and display	✓	✓	✓	✓
Nonvolatile memory	✓	✓	✓	✓
I/O interface circuitry	✓	✓	✓	✓
Purge control	✓	✓	✓	✓
Panel mount/Panel cutout size	5.63 x 2.58" (14.3 x 6.6 cm)	7.35 x 2.58" (18.7 x 6.6 cm)	7.35 x 2.58" (18.7 x 6.6 cm)	7.35 x 2.58" (18.7 x 6.6 cm)
Programmable	✓	✓	✓	✓
Test cycle verification	✓	✓	✓	✓
Air pressure display	Digital	Analog	Digital	Digital
Nozzle air shutoff delay	n/a	Adjustable, 0 to 2.5 seconds	Adjustable, 0 to 2.5 seconds	n/a
Low air pressure sensing	<60 psi (4.13 bar)	n/a	n/a	n/a
Cycle rate	>600/minute	>600/minute	>600/minute	>400/minute
On-the-fly adjustability	✓	✓	✓	✓
5-micron filter/regulator	Included	Included	Included	Included

For application assistance or a no-charge evaluation system in the USA, call 800-556-3484.

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



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