

Model 475 Dispensing Systems

User Guide



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Safety

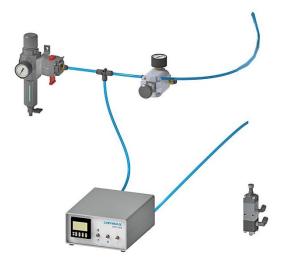
Using Safe Operating Pressures

Pressurizing the components in the dispensing system beyond the maximum recommended pressure can result in the rupturing of components and serious personal injury. To minimize the risk of rupturing components and injury, do not exceed the maximum operating pressure of the components in your fluid dispensing system.

Operating Specifications

- Recommended compressed air supply pressure to air filter/regulator = 60-80 psi (4.14 – 5.51 bar)
- Recommended pressure setting at air filter/regulator = 75 psi (5.2 bar)
- Maximum pressure setting at air filter/regulator =
 100 psi (6.9 bar)
- Power required = 110V power receptacle (customer supplied)

Configuration Overview





1

Controls

Dymax valves and digital controller provide precise and consistent actuation.

- Pneumatic function
- Footswitch, manual, or PLC controlled
- Easy to operate
- Manual or timed dispense mode

2

Dispensing Valve & Accessories

Dymax dispensing valves for handheld and bench-top applications deliver precision solutions for low-to high- viscosity materials. Various style tips and accessories are also available.

3

Reservoirs

Dymax carries a variety of material reservoirs to accommodate most dispensing applications.

- Range of volumes from 6-oz. cartridges to 10-gallon pressure tanks
- Easy change-over and control

Key System Connections

NOTE: Figures 1-4 apply to all systems.

Figure 1.
Valve Air & Material Connections

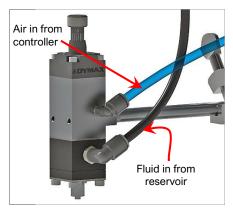


Figure 2.Controller Connections, Rear Panel

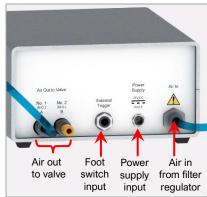


Figure 3. High-Precision Regulator Connections

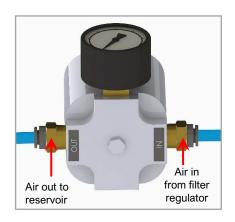
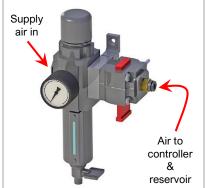


Figure 4. Filter Regulator



Dispensing Tips

Dymax provides a variety of both needle and taper dispense tips in various lengths, gauges, and shapes. Tip selection is critical when precision is required. The length, shape, and size of the tip will define the shape of the fluid deposit and the performance of your dispense system.

The following tips are included with this system and are recommended for use with the Model 475 dispensing valve.

P3424 Dispensing Tip Kit for Low-Viscosity Materials (<500 cP)

| Part # | Color | Description | |
|--------|--------|-------------------|--|
| P3171 | Purple | 21 GA Needle Tip | |
| P3172 | Orange | 23 GA Needle Tip | |
| P3233 | Pink | 20 GA Tapered Tip | |
| P3247 | Red | 25 GA Tapered Tip | |

Additional kits are available (sold separately) for a range of applications using lower viscosity materials.







For assistance in optimal tip selection, contact Dymax Application Engineering. Visit www.dymax.com to view our line of Dymax dispensing tips.

System Configurations



Systems Using a Cartridge Retainer (p. 8-9)



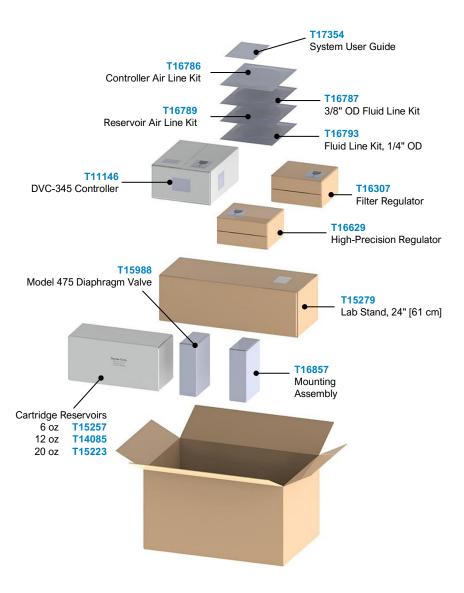
Systems Using a Bottle Drop-In Tank (p. 10-12)



Systems Using a 10-Gallon Pressure Tank (p. 13-15)

A - Systems Using a Cartridge Retainer

Packaged Components

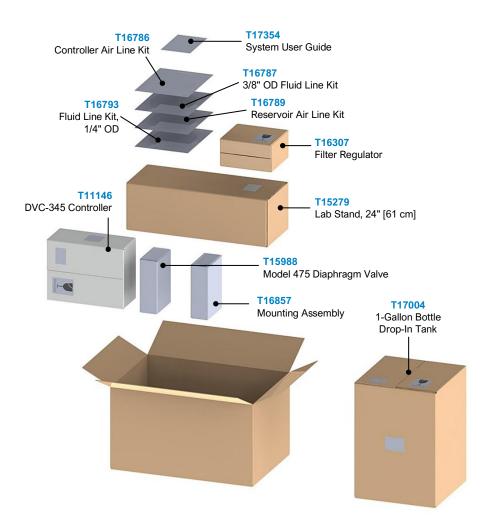


Assembled System Cartridge Reservoir 6 oz T15257 12 oz T14085 20 oz T15223 T16629 T16307 High-Precision Filter Regulator Regulator T16789 Reservoir Air Line Kit T16787 Fluid Line Kit, T16786 Controller 3/8" OD Air Line Kit T16857 Mounting Assembly T16793 Fluid Line Kit, 1/4" OD T15988 Model 475 Diaphragm Valve T11146 DVC-345 T15279 Controller Lab Stand, 24" [61 cm]

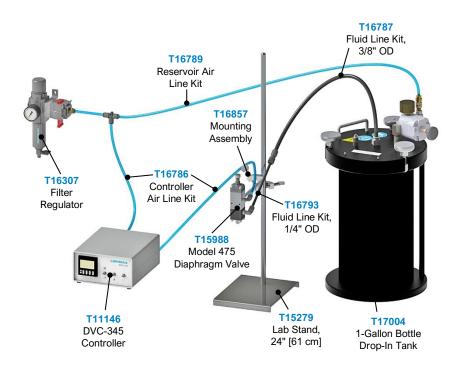
| User Supplied Items | Spare Parts |
|--|--|
| 60-80 psi air supply, 1/4 NPT male fitting | Dispense tips |
| 110V power receptacle | 1/4" male to 1/4" quick disconnect fitting |

B - Systems Using a Bottle Drop-In Tank

Packaged Components

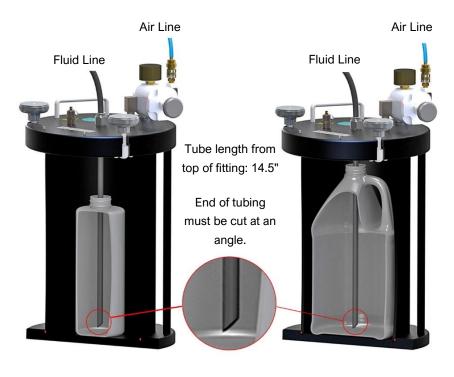


Assembled System



| User Supplied Items | Spare Parts |
|--|--|
| 60-80 psi air supply, 1/4 NPT male fitting | Dispense tips |
| 110V power receptacle | 1/4" male to 1/4" quick disconnect fitting |

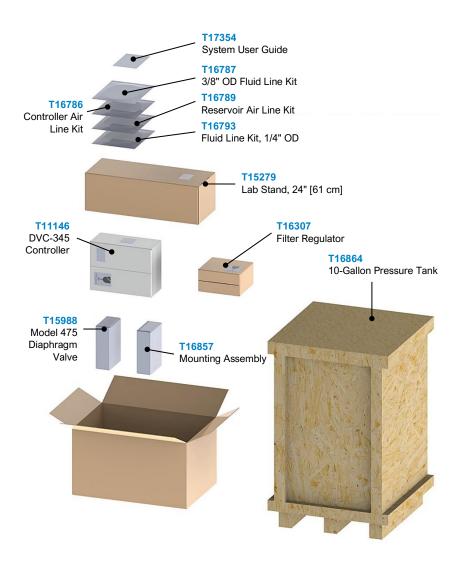
Installing the Fluid Line to the Reservoir



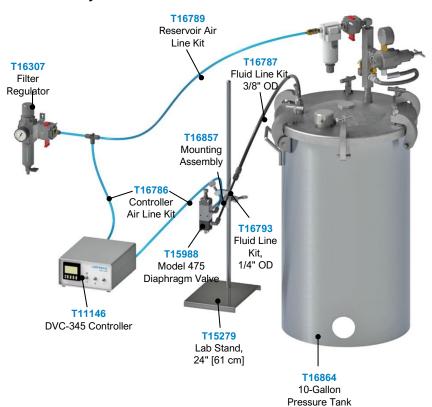
1-Liter Bottle 1-Gallon

C - Systems Using a 10-Gallon Pressure Tank

Packaged Components

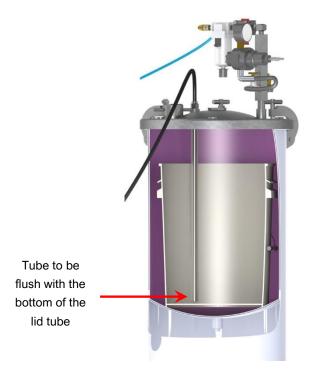


Assembled System



| User Supplied Items | Spare Parts |
|--|--|
| 60-80 psi air supply, 1/4 NPT male fitting | Dispense tips |
| 110V power receptacle | 1/4" male to 1/4" quick disconnect fitting |

Installing the Fluid Line to the Reservoir



15-Liter Pail



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