

Model 475 Dispensing Systems

User Guide



Contents

Safety Using Safe Operating Pressures	
Configuration Overview	4
Key System Connections	5
Dispensing Tips	6
System Configurations	7
A - Systems Using a Cartridge Retainer	8
B - Systems Using a Bottle Drop-In Tank	10
C - Systems Using a 10-Gallon Pressure Tank	13

Safety

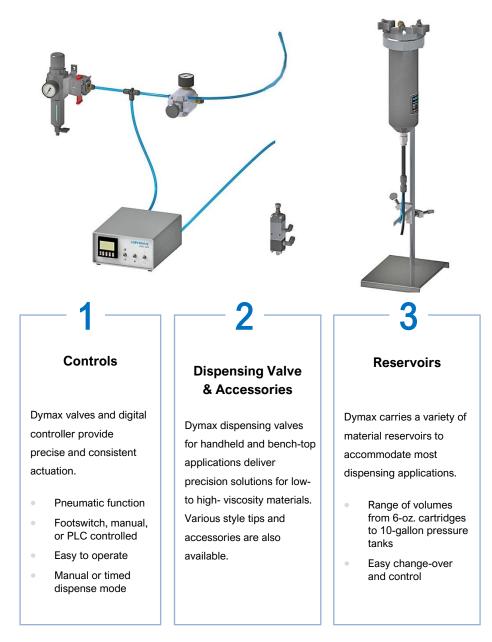
Using Safe Operating Pressures

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



Key System Connections

NOTE: Figures 1-4 apply to all systems.

Figure 1.

Valve Air & Material Connections

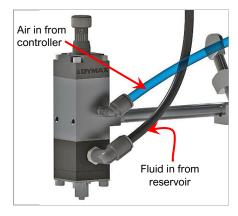


Figure 2.

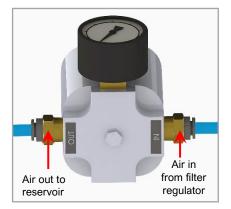
Controller Connections, Rear Panel

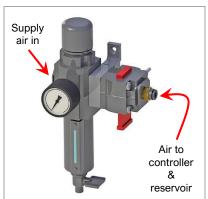


Figure 3.

High-Precision Regulator Connections







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.

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	

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

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 <u>www.dymax.com</u> to view our line of Dymax dispensing tips.

System Configurations



A

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





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

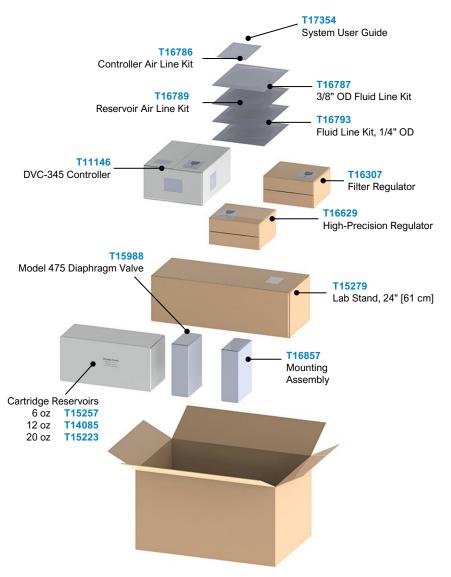


С

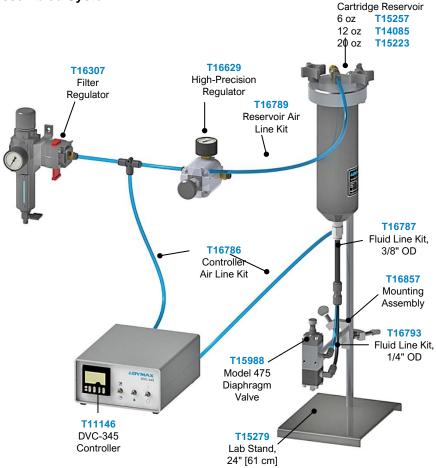
Systems Using a 10-Gallon Pressure Tank (p. 13-15)

A - Systems Using a Cartridge Retainer

Packaged Components



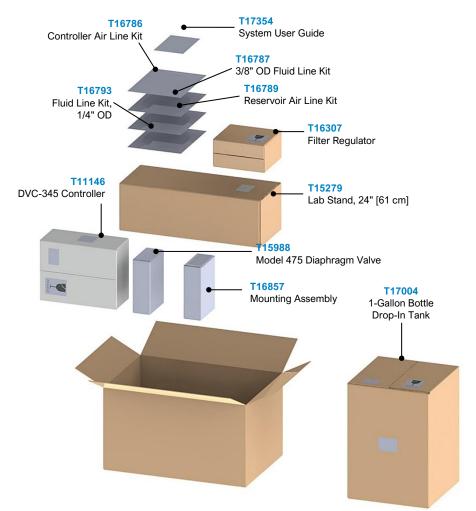
Assembled System



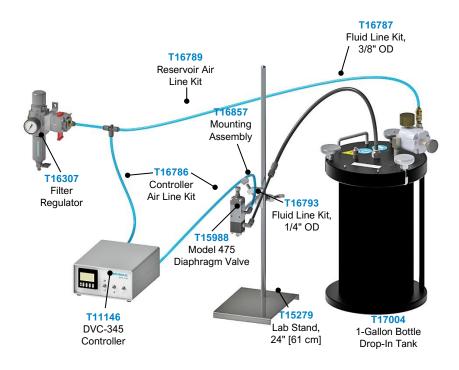
User Supplied Items	Spare Parts
60-80 psi air supply, ¼ NPT male fitting	Dispense tips
110V power receptacle	1/4" male to 1/4" quick disconnect fitting

B - Systems Using a Bottle Drop-In Tank

Packaged Components

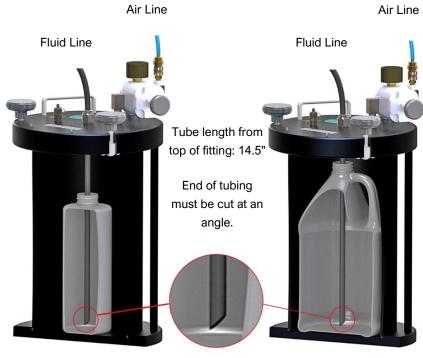


Assembled System



User Supplied Items	Spare Parts
60-80 psi air supply, ¼ NPT male fitting	Dispense tips
110V power receptacle	1/4" male to 1/4" quick disconnect fitting

Installing the Fluid Line to the Reservoir

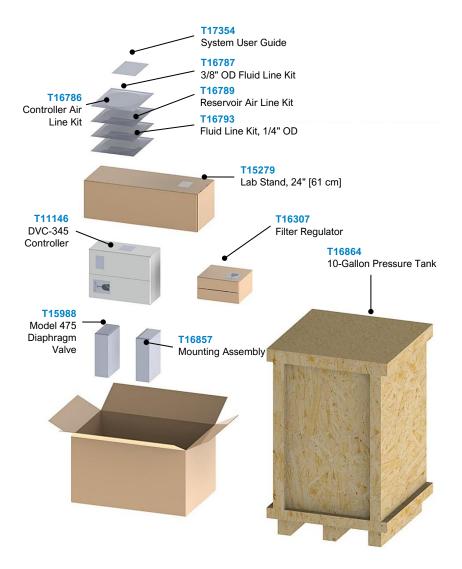


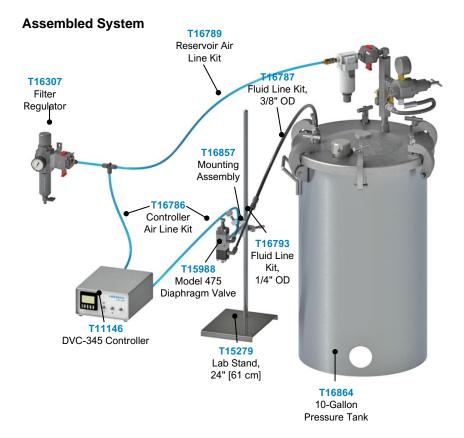
1-Liter Bottle

1-Gallon

C - Systems Using a 10-Gallon Pressure Tank

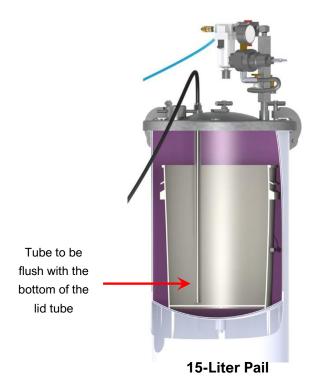
Packaged Components





User Supplied Items	Spare Parts
60-80 psi air supply, ¼ NPT male fitting	Dispense tips
110V power receptacle	1/4" male to 1/4" quick disconnect fitting

Installing the Fluid Line to the Reservoir





Americas

USA | +1.860.482.1010 | info@dymax.com

Europe

Germany | +49 611.962.7900 | info_de@dymax.com Ireland | +353 21.237.3016 | info_ie@dymax.com

Asia

Singapore | +65.67522887 | info_ap@dymax.com Shanghai | +66.21.37265759 | dymaxasia@dymax.com Shenzhen | +86.755.83485759 | dymaxasia@dymax.com Hong Kong | +852.2460.7038 | dymaxasia@dymax.com Korea | +82.31.608.3434 | info_kr@dymax.com

© 2013-2020 Dymax Corporation. All rights reserved. All trademarks in this guide, except where noted, are the property of, or used under license by Dymax Corporation, U.S.A. Delrin and Teflon are registered trademarks of DuPont.

The data contained in this bulletin is of a general nature and is based on laboratory test conditions. Dymax Europe GmbH does not warrant the data contained in this bulletin. Any warranty applicable to products, its application and use is strictly limited to that contained in Dymax Europe GmbH does not awarrant the data contained in guidents. Any warranty applicable to products, its application and use is strictly limited to that contained in Dymax Europe GmbH does not awarrant the data contained in guides and use is strictly limited to that contained in Dymax Europe GmbH does not awarrant the data contained in State published on our website. Dymax Europe GmbH does not assume any responsibility for test or performance results obtained by users. It is the user's responsibility to test and purposes and the suitability for use in the user's intended manufacturing apparatus and methods. The user should adopt such precautions and use guidelines as may be reasonably advisable or necessary for the protection of property and persons. Nothing in this bulletin shall ext as a representation that the product use or application will not infringe a patent owned by someone other than Dymax Corporation or act as a grant of license under any Dymax Corporation Patent. Dymax Europe GmbH recommends that each user adequately test its proposed use and application of the products before actual repetitive use, using the data contained in this bullet in shall ext. MANATEU T17354 10/8/2013