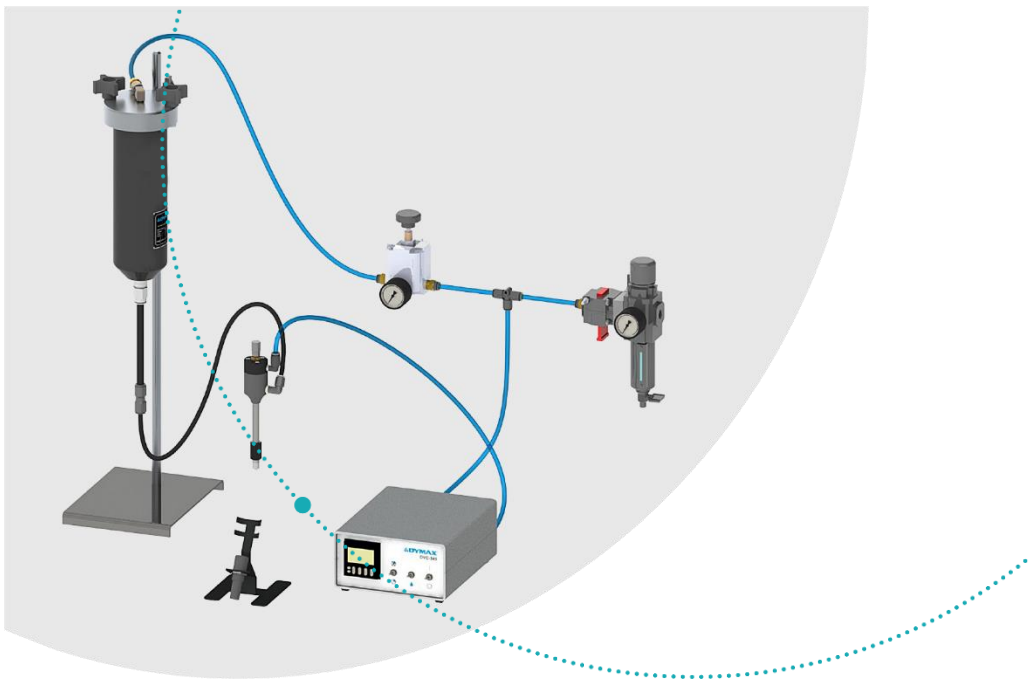




Model 400 Dispensing Systems

User Guide

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Safety

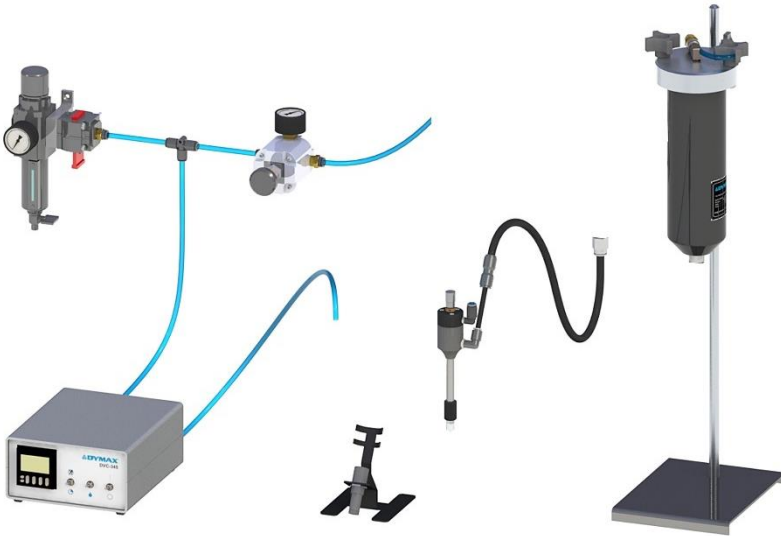
Using Safe Operating Pressures

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 = 80 to 100 psi (5.5 to 6.9 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 provides 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

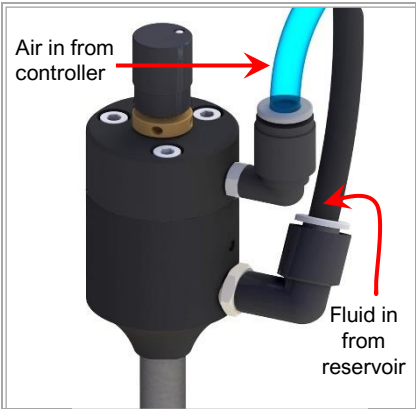


Figure 2.
Controller Connections, Rear Panel

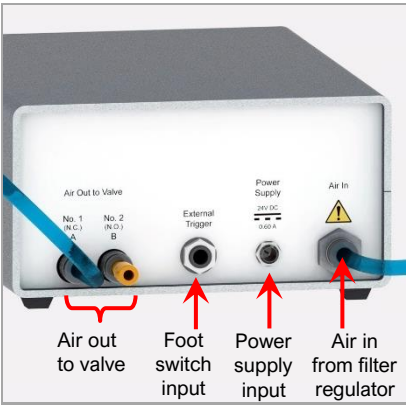


Figure 3.
High-Precision Regulator Connections

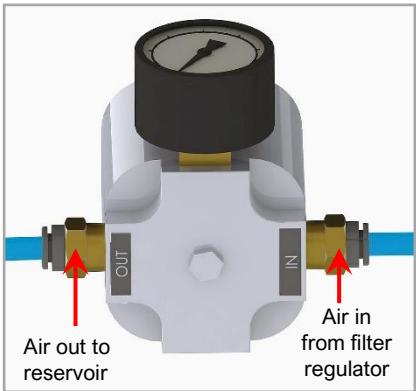
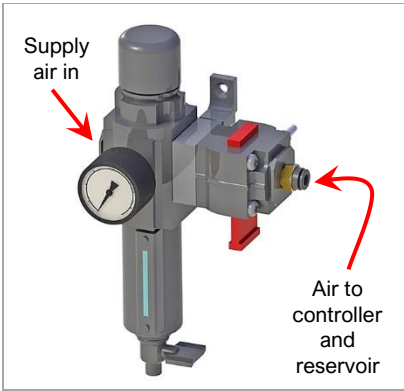


Figure 4.
Filter Regulator

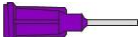


Dispensing Tips

A variety of both needle and taper dispense tips in various lengths, gauges, and shapes are available from Dymax. Tip selection is critical when precision is required and the length, shape, and size of the tip used 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 400 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.



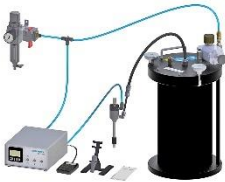
For assistance in optimal tip selection, contact Dymax Application Engineering. Visit [dymax.com](https://www.dymax.com) to see Dymax’s dispensing tip selection.

System Configurations



A

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



B

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

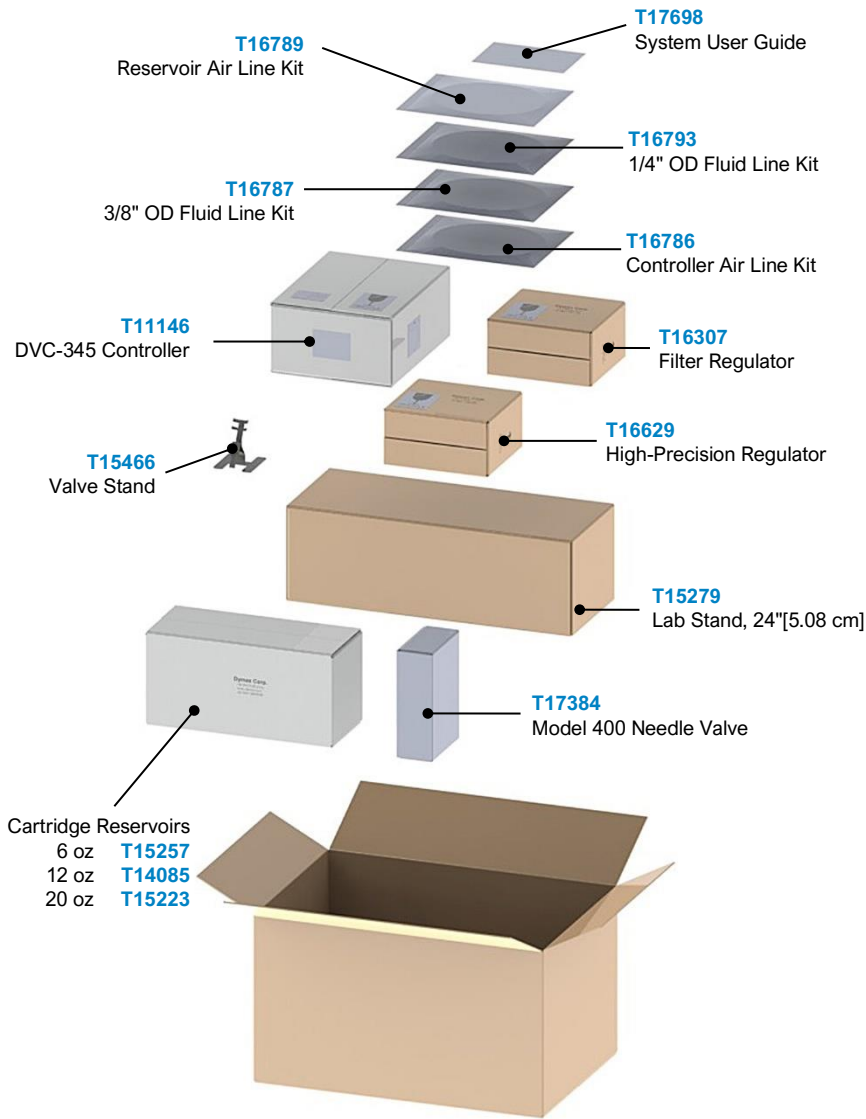


C

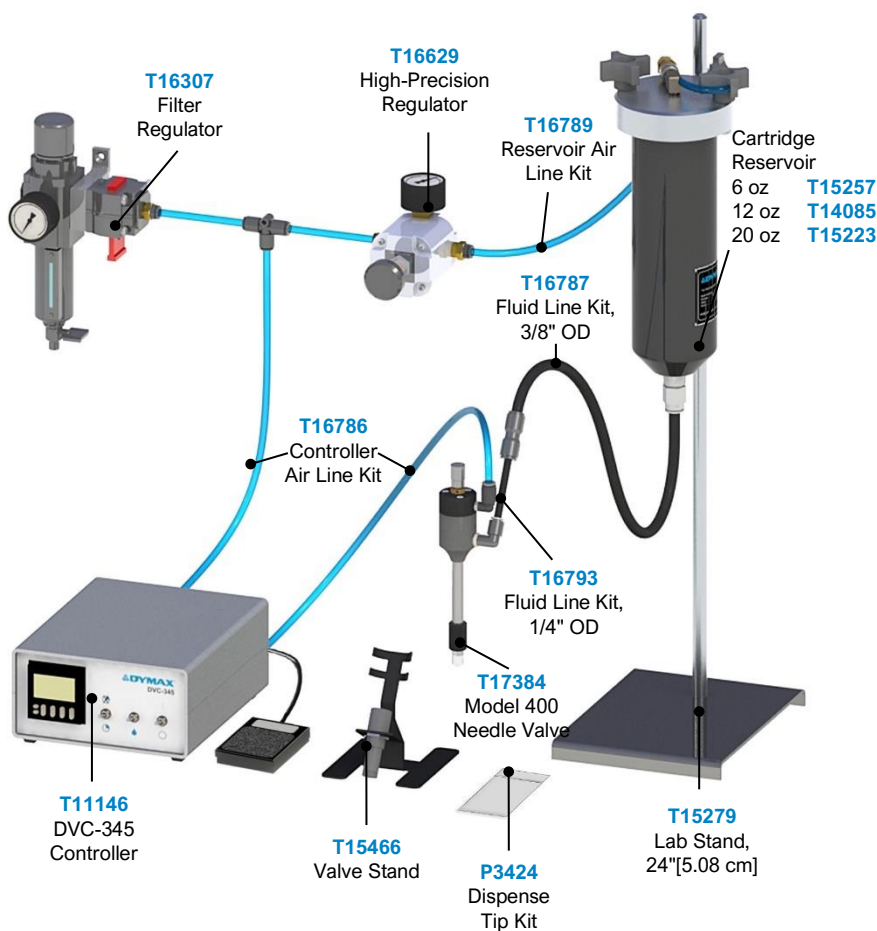
Systems Using a 10-Gallon Pressure Tank (p. 13-15)

A - Systems Using a Cartridge Retainer

Packaged Components



Assembled System



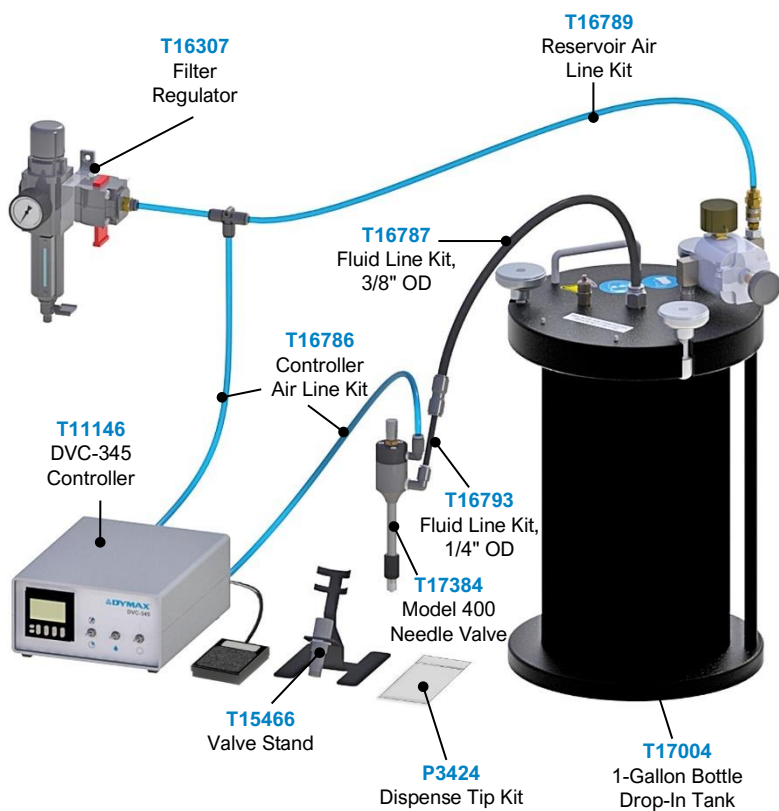
User Supplied Items	Spare Parts
80-100 psi air supply, 1/4 NPT male fitting 110V power receptacle	1/4" male to 1/4" quick disconnect fitting

B- Systems Using a Bottle Drop-In Tank

Packaged Components

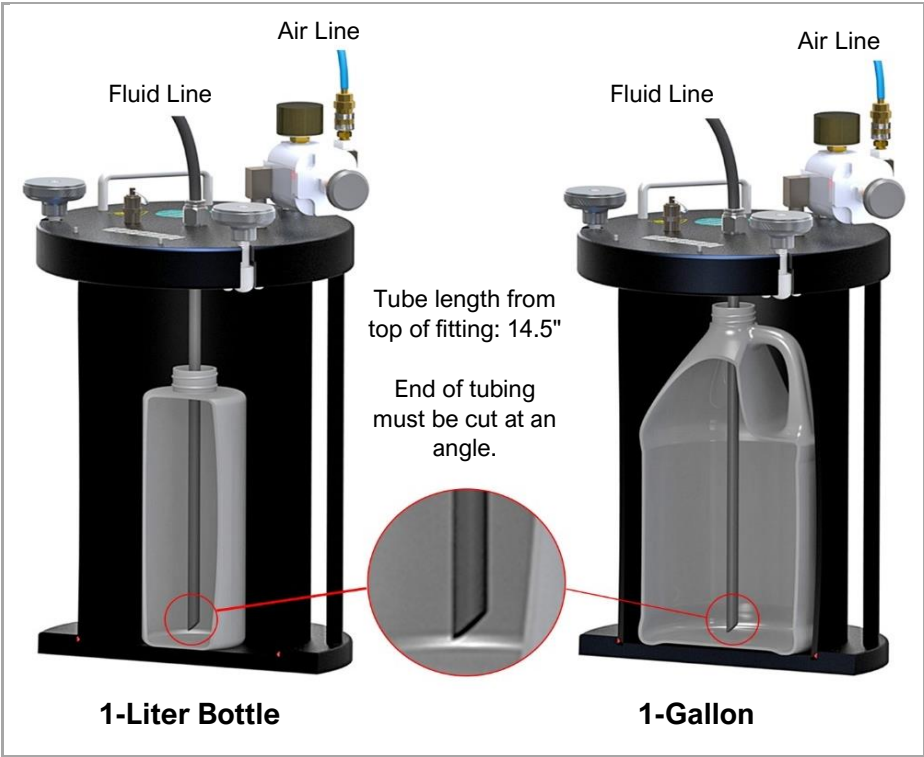


Assembled System



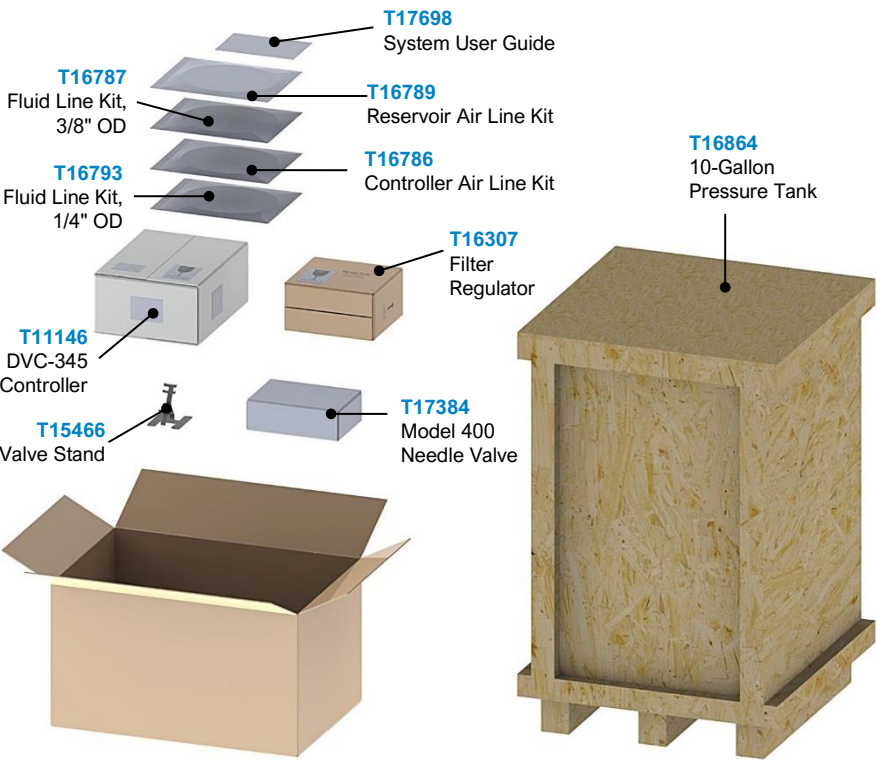
User Supplied Items	Spare Parts
80-100 psi air supply, 1/4 NPT male fitting 110V power receptacle	1/4" male to 1/4" quick disconnect fitting

Installing the Fluid Line to the Reservoir

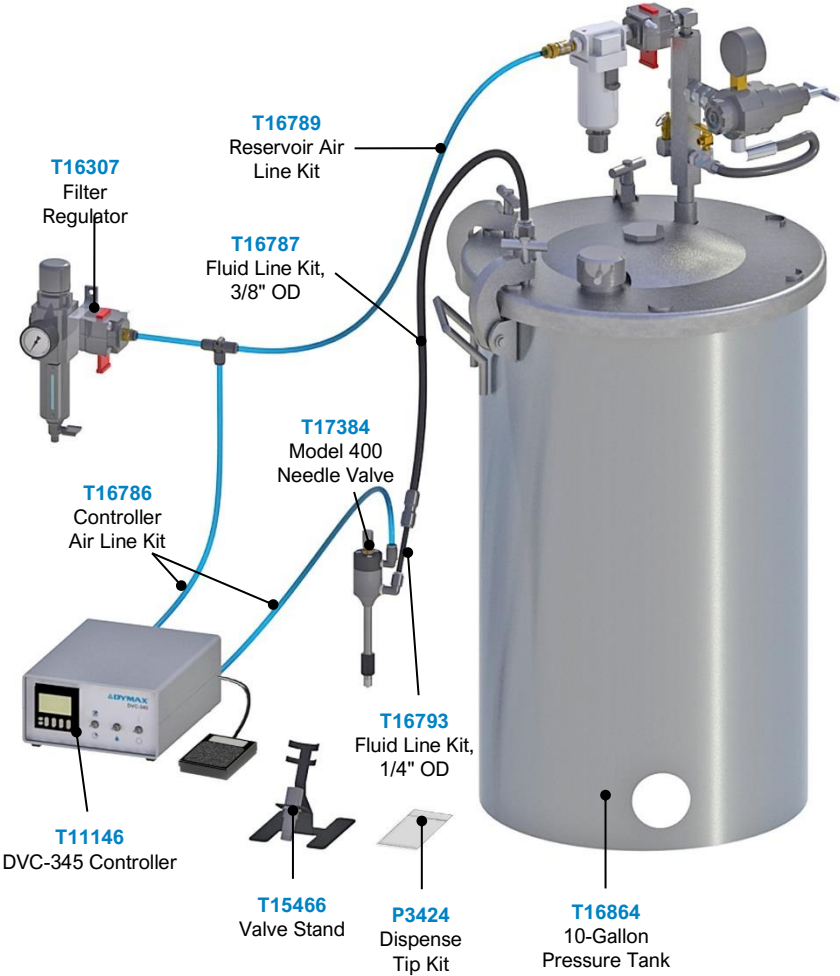


C - Systems Using a 10-Gallon Pressure Tank

Packaged Components

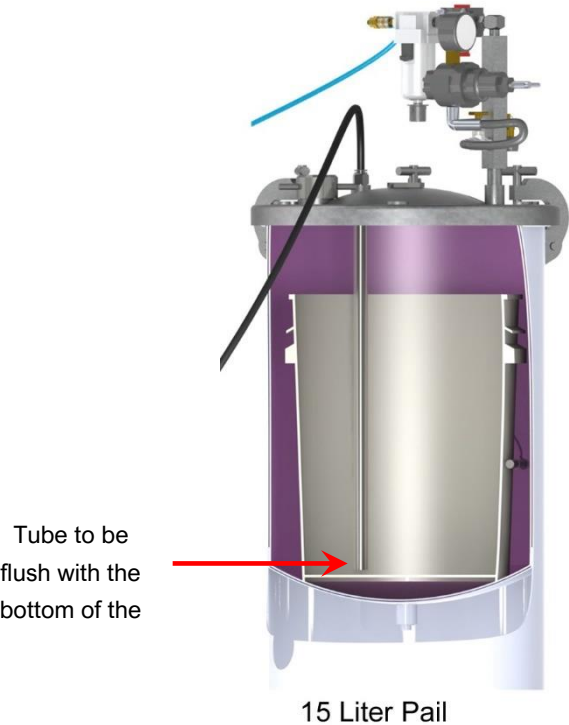


Assembled System



User Supplied Items	Spare Parts
80-100 psi air supply, 1/4 NPT male fitting 110V power receptacle	1/4" male to 1/4" quick disconnect fitting

Installing the Fluid Line to the Reservoir





www.dymax.com

North America: +1 860.482.1010 | Europe: +49 611.962.7900 | Asia: +65.67522887

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