

Dispensing Pressure Vessels
ASME-UM Code-Complying

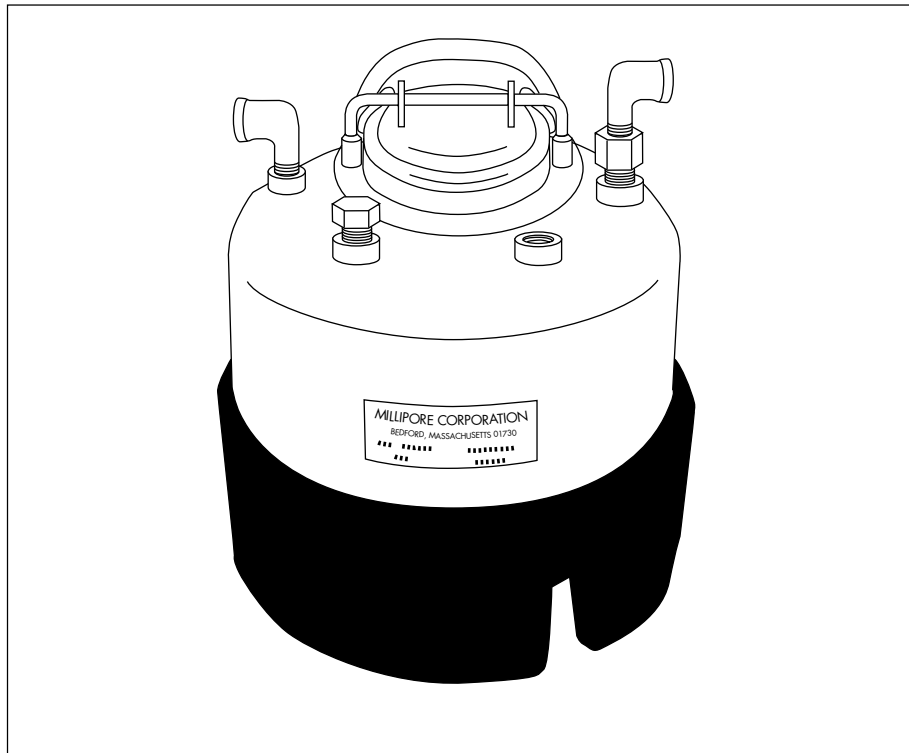
Catalogue Numbers

5 liter XX67 00P 05

10 liter XX67 00P 10

20 liter XX67 00P 20

1 gallon XX67 00P 01





Notice

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P30133, Rev. E, 01/07



CE mark applies to XX67 00P 10 and XX67 00P 20 only



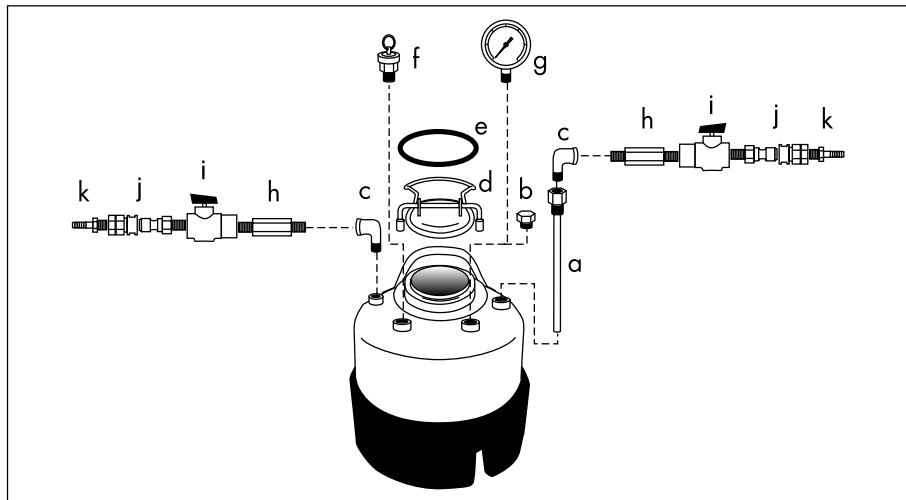
Introduction

Millipore dispensing pressure vessels are designed for dispensing fluids under pressure for filtration through any pressure-type filter holder. The portable vessels are available in 5-, 10- and 20-liter, and in 1-gallon capacities. These ASME-UM code-complying vessels are compatible with ASME code-complying vent/relief valves.

NOTE: Millipore recommends installing the vent/relief valve accessory (item f below, Millipore cat. no. XX67 00L 24) prior to use in order to comply with Pressure Directive safety requirements.

- All wetted surfaces are made of Type 316L stainless steel for maximum corrosion resistance.
- Inside and outside surfaces are electropolished for ease of cleaning.
- The vessels can withstand positive pressure up to 7 kg/cm² (100 psig).
- The safety cover assembly is secured by a cam-lock handle.
- A neoprene rubber cushion provides a skid-free and soft-sounding base.
- An optional vacuum lid is available (Millipore cat. no. P34188) for vacuum use.

Dispensing Pressure Vessel Components



Items a–e are supplied with the vessel.

- a outlet dip tube
- b pipe plug
- c elbow
- d vessel cover
- e O-ring

Items f–k are available as accessories.

- f vent/relief valve
- g pressure gauge
- h hex nipple
- i ball valve
- j quick-disconnect nipple
- k hose connector

Cleaning

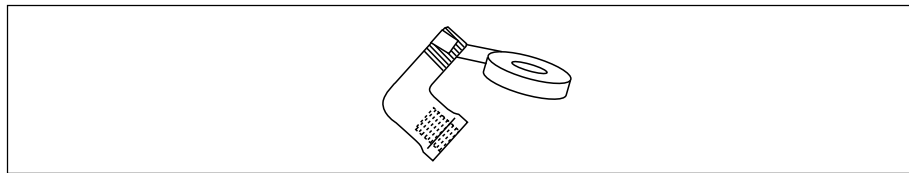
1. Before initial use and after each use, disassemble all threaded fittings and rinse the vessel and fittings with laboratory-grade water. For a more thorough cleansing, wash the vessel with a mild, nonabrasive detergent and a soft brush or sponge before rinsing.
2. Air dry all parts before reassembly.

CAUTION: If salt solutions were used in the vessel, rinse thoroughly to prevent corrosion of the vessel and fittings.

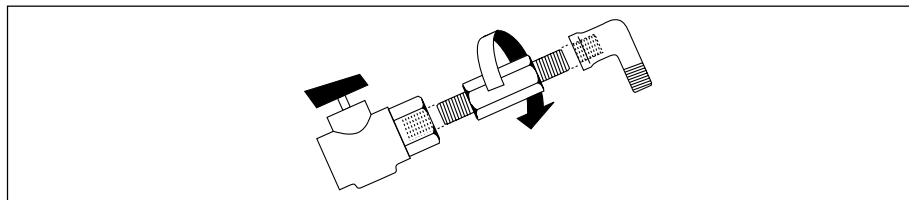
Using the Dispensing Pressure Vessel

The vent/relief valve (f) and the pressure gauge (g) must be used when operating the dispensing pressure vessel. They are included in Millipore's Pressure Vessel Fitting Kit, catalogue number XX67 000 PK, which also includes optional hex nipples, vent/relief valves, ball valves, quick-disconnect nipples and couplings and hose connectors (items h through k in the "Dispensing Pressure Vessel Components" diagram).

1. Assemble the dispensing pressure vessel as show in the "Dispensing Pressure Vessel Components" diagram, using PTFE tape on all threaded male fittings.



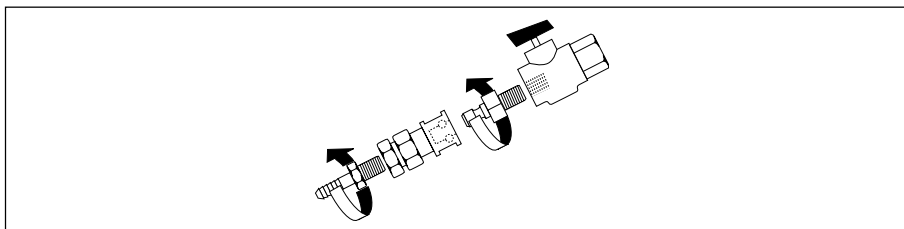
2. Attach one end of a hex nipple to a ball valve and the other end to the outlet elbow fitting of the vessel.



NOTE: Millipore recommends using ball valves on both outlet and inlet sides. A ball valve on the outlet side controls fluid delivery to the filter holder. A ball valve on the inlet side regulates the supply of gas from the pressure source.

Using the Dispensing Pressure Vessel, continued

3. Attach a barbed hose connector to each ball valve.



NOTE: Millipore recommends using quick-disconnect fittings between the ball valve and the hose connectors to facilitate attachment to and detachment from the vessel.

4. Connect the appropriately sized tubing to each hose connector and secure with hose clamps.
5. Fill the vessel with the liquid to be filtered.
6. Position the O-ring on the lip of the top side of the vessel cover. Insert the cover into the vessel and rotate the cover to align it with the vessel opening.
7. Pull up on the handle to seat the O-ring. Lock the cover in place by forcing the handle down.

WARNING: When using the pressure vessel with a flammable solvent such as isopropyl alcohol, the following safety precautions must be taken:

- The pressure vessel must be properly grounded and all grounding connections must be secured before and at all times while dispensing. Proper grounding must be confirmed by verifying electrical continuity between the vessel, dispensing container and the ground.
- The vessel must be pressurized with an inert gas such as nitrogen.

Chemical Compatibility

The wetted surfaces of the vessel and its supplied components are constructed of Type 316 L stainless steel. The cover O-ring supplied with the vessel is constructed of Viton®-A elastomer. The recommended vent/relief valve has a Viton-A seal. You can use fluids compatible with these materials in the vessel.

O-Ring Compatibility Guide

	Viton-A		Viton-A
acetone	N	kerosene	R
benzene	R	mineral spirits	R
carbon tetrachloride	R	petroleum ether	R
chloroform	R	petroleum base oils	R
Freon® TF or PCA solvent	R	silicone oils	R
gasoline	R	trichloroethane	R
hexane	R	trichloroethylene	R
isopropyl alcohol	R	xylene	R

R: recommended, N: not recommended

Specifications

Materials

Type 316L stainless steel with stainless fittings; Viton gaskets and O-rings; EPDM base

Pressure

7 barg (100 psig) maximum; not recommended for use under vacuum without accessory closure

Depyrogenation

If depyrogenation is required, wash the vessel thoroughly with a bactericide and rinse well with sterile, pyrogen-free water.

CAUTION: Subjecting the vessel to the normal depyrogenation procedure at 250 °C (482 °F) for 4 to 5 hours will damage the base of the vessel.

Temperature

121 °C (250 °F) maximum

Connections

1/4" NPTF

Dimensions

Pressure Vessel Unit

5-liter	229 mm dia. × 241 mm (9 in. × 9.5 in.)
10-liter	229 mm dia. × 352 mm (9 in. × 13.88 in.)
20-liter	229 mm dia. × 595 mm (9 in. × 23.44 in.)
1-gallon	229 mm dia. × 213 mm (9 in. × 8.44 in.)

Cover Opening

83 mm × 99 mm (3.25 in. × 3.88 in.)

Shipping Weight

5-liter	4.6 kg (10.5 lb)
10-liter	6.2 kg (13.75 lb)
20-liter	9.3 kg (20.5 lb)
1-gallon	4.2 kg (9.15 lb)

Product Ordering Information

This section lists the catalogue numbers for the Dispensing pressure vessels. See the Technical Assistance section for information about contacting Millipore. You can also buy Millipore products on-line at www.millipore.com/purecommerce.

Description Number	Component Diagram Key	Catalogue
Dispensing pressure vessels		
5-liter		XX67 00P 05
10-liter		XX67 00P 10
20-liter		XX67 00P 20
1-gallon		XX67 00P 01
Replacement Parts		
Outlet dip-tube	a	
5-liter		6977
10-liter		6978
20-liter		6979
1-gallon		P35554
Pipe plug, 1/4" NPT, 316 ss, 2/pk	b	YY13 010 09
Elbow, 1/4" NPTM/female	c	XX67 001 04
Vessel cover, cam-lock	d	6976
O-ring, Viton-A elastomer, S-381	e	XX67 000 59
Accessories		
Pressure Vessel Fitting Kit (includes items f through k on diagram)		XX67 000 PK
Vent/relief valve, 7 barg (100 psig) ASME	f	XX67 00L 24
Pressure gauge, 0–11 barg (0–160 psig) ASME, 316 ss	g	XX67 00L 15
Hex nipple, 1/4" NPTM, 51 mm (2 in.) length	h	XX67 001 25
Ball valve, 1/4" NPTF	i	YY20 293 48
Quick-disconnect nipple and coupling, 1/4" NPT	j	XX67 000 30
Hose connector, 1/4" NPTM, 316 ss, 2/pk	k	XX67 00L 11

Product Ordering Information, continued

Description	Catalogue Number
Filterjet™ Solvent Dispenser	XX67 025 00
Zero Head Space Extractor	YT30 090 HW
Pressure Vessel Accessories Kit (use with the Zero Head Space Extractor; includes one of each of the following):	XX67 00P 00
Adapter, 1/8" NPTF to male luer fitting	XX30 025 67
Adapter, 1/4" NPTM to 1/4" tube	XX67 025 07
Ball valve, 1/4" NPTF	YY20 293 48
Hex nipple, 1/4" NPTM, 51 mm (2 in. length)	XX67 001 25
Pressure gauge, 0–7 barg (0–100 psig)	YY13 010 15
Quick disconnect female Swagelok® 1/4" NPT	YT30 090 13
Quick disconnect nipple and coupling 1/4" NPT	
Tubing, polypropylene 6 mm (1/4 in.) O.D., 3 m (10 ft)XX67 025 08	
Vent relief valve, 1/4" NPT, 9 barg (125 psig)	XX67 000 24
Closure for vacuum use	SD1B 174 V3
PVC tubing, 9.5 mm (3/8 in.) I.D., 3 m (10 ft), with 2 ss clamps	XX67 000 34
PVC tubing, 12.5 mm (1/2 in.) I.D., 3 m (10 ft), with 2 ss clamps	XX67 000 35
PTFE tape, 12.5 mm (1/2 in.) × 6.6 m (260 in.)	TP00 013 26

Technical Assistance

For more information, contact the Millipore office nearest you. In the U.S., call **1-800-MILLIPORE** (1-800-645-5476). Outside the U.S., see your Millipore catalogue for the phone number of the office nearest you or go to our web site at www.millipore.com/offices for up-to-date worldwide contact information. You can also visit the tech service page on our web site at www.millipore.com/techservice.

CE Compliance

For XX67 00P 01 and XX67 00P 05 the following applies:

Millipore Corporation certifies that this product complies with the European Union Pressure Equipment Directive, 97/23/EC of 29 May 1997. This product is classified under Article 3 § 3 of the Pressure Equipment Directive. In compliance with Article 3 § 3 of the Pressure Equipment Directive, this product does not bear the CE Mark.

For XX6700P10 and XX6700P20 the following applies:

This product, fully configured with all accessories, meets the requirements of the European Union Pressure Equipment Directive (PED) 97/23/EC and bears the CE Mark. A Declaration of Conformity stating compliance to the PED Directive and signed by a duly authorized representative of the manufacturer is included with each product.

Standard Warranty

Millipore Corporation ("Millipore") warrants its products will meet their applicable published specifications when used in accordance with their applicable instructions for a period of one year from shipment of the products. **MILLIPORE MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED. THERE IS NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** The warranty provided herein and the data, specifications and descriptions of Millipore products appearing in Millipore's published catalogues and product literature may not be altered except by express written agreement signed by an officer of Millipore. Representations, oral or written, which are inconsistent with this warranty or such publications are not authorized and if given, should not be relied upon.

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