

# 3M™ PPS™

Series 2.0 Type H/O Pressure Cup

Instruction Manual

**SAFETY INFORMATION**

Please read, understand, and follow all safety information contained in these instructions prior to using the 3M™ PPS™ Series 2.0 Type H/O Pressure Cup.

The 3M™ PPS™ Series 2.0 Type H/O Pressure Cup is intended for use by professional painters that have been trained in the safe operation and proper use of pressurized spray equipment. The 3M™ PPS™ Series 2.0 Type H/O Pressure Cup is designed for use in place of standard metal or non-disposable plastic pressurized cups on industrial spray guns.

The 3M™ PPS™ Series 2.0 Type H/O Pressure Cup is intended to work with liquid coating materials that are normally applied with air pressurized spray equipment. The 3M™ PPS™ Series 2.0 Type H/O Pressure Cup requires the use of 3M™ PPS™ Series 2.0 Lids and Liners which serve as a clean container and disposable barrier between the material to be sprayed and the 3M™ PPS™ Series 2.0 Type H/O Pressure Cup and the Retaining Collar Shroud Assembly. It is expected that all users be fully trained in the safe operation of the 3M™ PPS™ Series 2.0 Type H/O Pressure Cup and that they use all of the necessary personal protective equipment for the work being done. Use in any other application has not been evaluated by 3M and may lead to an unsafe condition.

**NOT Intended For:**

The 3M™ PPS™ Series 2.0 Type H/O Pressure Cup is **NOT INTENDED FOR** or designed to be used as a long-term storage container. User is responsible for determining the maximum amount of time the liquid coating materials being used can be left in the 3M™ PPS™ Series 2.0 Lids and Liners and the 3M™ PPS™ Series 2.0 Type H/O Pressure Cup. 3M recommends that liquid coating materials be removed and cleaned immediately after each spraying operation.

**Explanation of Signal Word Consequences**



**WARNING:** Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.



**CAUTION:** Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury and/or property damage.



Read and understand enclosed manual prior to using this product.

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**Contained in this Kit:**

- One 3M™ PPS™ Series 2.0 Type H/O Pressure Cup
- One Retaining Collar Shroud Assembly
- One 24" length of hose
- This instruction manual

**⚠ WARNING**

**To avoid risk associated with or exposure to hazardous liquids, which if not avoided, could result in death or serious injury:**

- Read, understand, and follow all safety information contained in these instructions prior to using the 3M™ PPS™ Series 2.0 Type H/O Pressure Cup. Failure to follow all instructions could result in personal injury or product damage. Retain these instructions for future reference.
- Always refer to the safe use recommendations from the spray gun manufacturer, the Safety Data Sheet and the label of the material being sprayed.
- Always wear appropriate Personal Protective Equipment including eye, respiratory, and skin protection.

**⚠ CAUTION**

**To avoid the risk associated with hazardous pressure, which if not avoided, could result in minor or moderate injury and/or property damage:**

- Before each use, inspect the pressure regulator, 3M™ PPS™ Series 2.0 Type H/O Pressure Cup, Retaining Collar Shroud assembly and other pressure components for damage and ensure proper function according to manufacturer's instructions.
- Be sure the supply pressure to the cup is controlled equal to or less than ( $\leq$ ) a maximum operating pressure of 10 psi (69 kPa, 0.69 Bar).
- Do not allow paints, coatings or materials to dry or build up in the bottom of the cup. Hardened materials may damage the built in pressure relief valve and/or result in loss of safety function.
- Never attempt to repair or block the built-in pressure relief valve at the base of the 3M™ PPS™ Series 2.0 Type H/O Pressure Cup; any such tampering of the cup may result in loss of safety function and will void all warranties.
- Never attempt to block flow of air at the air cap of the spray gun while the unit is pressurized.
- Be sure to maintain spray gun equipment according to the manufacturer's instructions.
- Never allow the air cap to become obstructed with dried materials; periodically while spraying inspect the spray gun air cap for buildup particularly when using highly viscous materials.
- Always follow the pressure relief / material bleed-back procedure for the pressure cup described in steps 11 and 12 of the Directions For Use section of this manual.
- Always wear appropriate Personal Protective Equipment including eye, hearing and skin protection.
- Always refer to recommendations from the spray gun manufacturer and the Safety Data Sheet of the material being sprayed.
- Always ensure the Shroud is engaged in the Retaining Collar prior to use.
- Always ensure that the Retaining Collar is properly seated and tightened prior to use.
- Always use 3M™ PPS™ Series 2.0 Lids and Liners for proper operation. Substitute products may cause unexpected failure.

### Directions for Use:

- Requires the use of a 3M™ PPS™ Series 2.0 spray gun adapter (sold separately) to attach the 3M™ PPS™ Series 2.0 Type H/O Pressure Cup to the spray gun. Reference Figure 1.
- Optional use of 3M™ PPS™ Mix Ratio Film Insert PN 16091 (Large), PN 16155 (Midi), sold separately.
- Requires the use of 3M™ PPS™ Series 2.0 H/O Lids (PN 26150 - Large/Standard; PN 26151 Midi/Mini) and Series 2.0 Liners (PN 16351 - Large; PN 16350 - Standard; PN 16349 - Midi; PN 26348 - Mini), sold separately, to contain the material to be sprayed.
- Requires an operating pressure of  $\leq 10$  psi (69 kPa, 0.69 Bar) to the 3M™ PPS™ Series 2.0 Type H/O Pressure Cup. The 3M™ PPS™ Series 2.0 Type H/O Pressure Cup contains a built in “pressure relief valve” located in the base of the cup to avoid over pressurizing. If the pressure relief valve is damaged, the 3M™ PPS™ Series 2.0 Type H/O Pressure Cup must be replaced.
- Use Only Genuine 3M Parts and Accessories. Reference Figure 2 Component Listing.

### Setup Sequence:

1. Insert optional 3M™ PPS™ Mix Ratio Film Insert (3) into the 3M™ PPS™ Series 2.0 Type H/O Pressure Cup (1) if desired. Otherwise, insert a 3M™ PPS™ Liner (4) into the 3M™ PPS™ Series 2.0 Type H/O Pressure Cup (1) and add the desired amount of material to be sprayed.
2. Insert a 3M™ PPS™ Series 2.0 H/O Lid (5) onto the 3M™ PPS™ Liner (4) and press down until secured.
3. Align the opening on the Retaining Collar Shroud Assembly (6) with the 3M™ PPS™ Series 2.0 H/O Lid and screw the Retaining Collar clockwise onto the 3M™ PPS™ Series 2.0 Type H/O Pressure Cup (1) and hand-tighten.
4. If the material will not be sprayed immediately, a 3M™ PPS™ Series 2.0 Plug (7) can be inserted into the lid spout to seal contents.
5. When ready to spray the contents, remove 3M™ PPS™ Series 2.0 Plug (7) if used, and connect the spray gun with the previously installed 3M™ PPS™ Series 2.0 Adapter to the 3M™ PPS™ Series 2.0 Type H/O Pressure Cup. Reference Figure 1.
- a. While aligning the 3M™ PPS™ Series 2.0 Adapter with the 3M™ PPS™ Series 2.0 H/O Lid and the 3M™ PPS™ Series 2.0 Retaining Collar Shroud Assembly, press down to fully seat and then turn gun 1/4 turn clockwise, ensuring all 4 connection points engage.
6. Attach the cup pressure hose (2) from the spray gun to the pressure port (1b) on the 3M™ PPS™ Series 2.0 Type H/O Pressure Cup. The hose clip on the cup (1a) may be used to hold the hose securely in place while spraying, hose clip included in 3M™ PPS™ Series 2.0 Type H/O Pressure Cup (Large) only.
7. Connect the spray gun to the air supply.
8. With the spray gun and the 3M™ PPS™ Series 2.0 Type H/O Pressure Cup held perpendicular to the ground, pull the trigger and adjust to the desired cup pressure, not to exceed a maximum operating pressure of 10 psi (69 kPa, 0.69 Bar). **Caution: Pressure relief valve (1c) at the base of the cup will open at 30 psi (207 kPa, 2.07 Bar) and relieve excess pressure. The relief valve will close and reset when the cup pressure is reduced.** Keep trigger pulled until air from inside the 3M™ PPS™ Lid and Liner has been totally evacuated and a steady spray of material is coming from the spray-head of the gun. This will allow the gun to be held and sprayed upside down without fluid interruption.
9. Spray materials normally, periodically check the pressure to the cup to ensure pressure does not exceed maximum operating pressure.
10. When done spraying, disconnect the input air supply from the spray gun.
11. **Attention: Before disassembling the gun from the cup, the pressure must be relieved by disconnecting the cup pressure hose at the base of the cup (1b).**
12. While holding the spray gun upright for a bottom fed spray gun or turning the spray gun over for a gravity fed spray gun. Pull the trigger to allow any remaining material to drain out of the fluid passage in the spray gun and 3M™ PPS™ Series 2.0 Adapter back into the 3M™ PPS™ Liner:  
**Attention: Failure to do so will result in a material spill on the 3M™ PPS™ Series 2.0 Retaining Collar Shroud Assembly.**
13. Disconnect the 3M™ PPS™ Series 2.0 Type H/O Pressure Cup from the spray gun at the 3M™ PPS™ Series 2.0 Adapter by turning the gun counter-clockwise slightly to disengage locking tabs and pull gun upwards to separate from the cup assembly.

14. Clean the gun and adapter with appropriate materials and store appropriately.
15. Unscrew the 3M™ PPS™ Series 2.0 Retaining Collar Shroud Assembly (6) by turning the ring counter-clockwise and remove it from the 3M™ PPS™ Series 2.0 Type H/O Pressure Cup (1).
16. Remove the 3M™ PPS™ Series 2.0 H/O Lid (5) and Liner (4) and dispose of properly referring to the material SDS and consulting local regulations.
17. Clean the 3M™ PPS™ Series 2.0 Type H/O Pressure Cup (1) and 3M™ PPS™ Series 2.0 Retaining Collar Shroud Assembly (6) by wiping with solvent and a lint free towel. Store in a clean, dry area.

**Caution: Do not soak in solvent.**

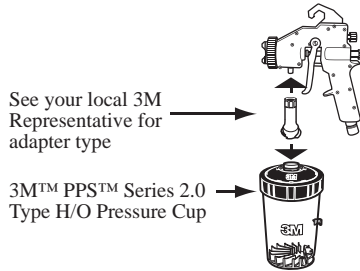


Figure 1

**Component Listing**

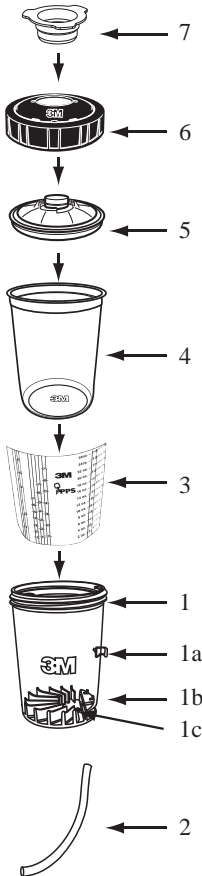


Figure 2

Item #	Description	3M Part Number
1	3M™ PPS™ Series 2.0 Type H/O Pressure Cup (Large)	PN 26124 - Large
	3M™ PPS™ Series 2.0 Type H/O Pressure Cup (Midi)	PN 26121 - Midi
1a	Pressure Hose Clip	
1b	Pressure Hose Port	
1c	Pressure Relief Valve	
2	Pressure Hose	PN 16123
3	3M™ PPS™ Mix Ratio Film Insert (Optional)	PN 16091 - Large
		PN 16155 (Midi)
4	3M™ PPS™ 2.0 Liner	(100 Liners) - Large (PN16351)
		(100 Liners) - Standard (PN16350)
		(100 Liners) - Midi (PN 16349)
		(100 Liners) - Mini (PN 26348)
5	3M™ PPS™ 2.0 Lid	(50 Lids/Box) - Large/Standard (PN26150)
		(50 Lids/Box) - Midi/Mini (26151)
6	3M™ PPS™ 2.0 Retaining Collar Shroud Assembly	Included with PN 26124
		Included with PN 26121
7	3M™ PPS™ Series 2.0 Plug	Included with PN 26432

**Typical Installations**

Example 1:

Spray Guns designed to supply and control cup pressure from a pressure regulator mounted at the base of spray gun handle. This example uses an air compressor as supply source.

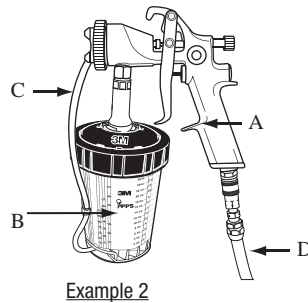
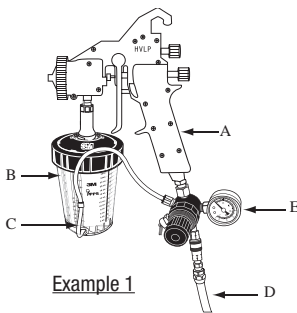
Air Pressure to Spray Gun (A) is regulated and supplied to the spray gun through air Supply hose (D).

Air pressure to the 3M™ PPS™ Series 2.0 Type H/O Pressure Cup (B) is regulated by the Cup Pressure Regulator (E) and supplied to the 3M™ PPS™ Series 2.0 Type H/O Pressure Cup through Cup Pressure hose (C).

Example 2:

Spray Guns designed to supply and control cup pressure from a pressure port on the body of spray gun. This example uses an air compressor as supply source.

Air pressure to Spray Gun (A) is regulated and supplied to spray gun through Air Supply Hose (D). Air pressure to the 3M™ PPS™ Series 2.0 Type H/O Pressure Cup (B) is regulated by spray gun design and supplied through pressure port on body of spray gun to Cup Pressure hose (C).



Key to examples:

- A. Spray Gun
- B. 3M™ PPS™ Series 2.0 Type H/O Pressure Cup
- C. Cup Pressure Hose
- D. Air Supply Hose
- E. Cup Pressure Regulator

The hose clip on the cup (1a) may be used to hold the hose securely in place while spraying, hose clip included in 3M™ PPS™ Series 2.0 Type H/O Pressure Cup (Large) only.

**TROUBLE SHOOTING**

<b>Symptom</b>	<b>Action</b>
Liner does not collapse or collapses slowly	Check air inlet connection and pressure to gun/cup. Check that air supply port on gun to cup is not plugged. Check that air supply port at base of cup is not plugged. Check cup air supply hose connection from gun to cup. Check that retaining collar shroud assembly is tight. Check that safety relief valve at base is in place.
Air leaking at retaining collar shroud assembly	Check that retaining collar shroud assembly is tight. Verify or adjust cup pressure not to exceed a maximum operating pressure of 10 psi (69 kPa 0.69 Bar).
Fluid dripping from PPS™ cup	Check that retaining collar shroud assembly is tight Check that 3M™ PPS™ Series 2.0 gun adapter is fully engaged with lid spout. Verify or adjust cup pressure not to exceed a maximum operating pressure of 10 psi (69 kPa 0.69 Bar).
Air leaking at base of cup	Check that safety relief valve at base is in place Verify or adjust cup pressure not to exceed a maximum operating pressure of 10 psi (69 kPa 0.69 Bar).
Cup air supply hose slips off air supply port at base of cup or gun regulator	Trim off ends or replace air supply hose PN 16123.

## **3M™ PPS™ Series 2.0 Type H/O Pressure Cup Technical Information:**

The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

### **Product Selection and Use:**

Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

### **Warranty, Limited Remedy, and Disclaimer:**

Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

### **Limitation of Liability:**

Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability