



Technical Data Sheet

Effective: 01/09/2025 Supersedes: 01/09/2022

Automotive Aftermarket Division

3M™ Performance Spray Gun 3M™ Performance Spray Gun 2

1) Part Numbers

3M Part Numbers	3M Part Description
Gun Kits	
26852	3M™ Performance Spray Gun 2
26778	3M™ Performance HVLP Spray Gun System Gravity with PPS™ 2.0
26978	3M™ Performance Fine Finish Spray Gun System Gravity with PPS™ 2.0
26832	3M™ Performance Spray Gun
26878	3M™ Performance Industrial Spray Gun System
Replacement Parts	
26833	Pressure Whip
26839	Ball Valve
26840	Rebuild Kit
26834	Whip Pin
26841	O-Ring Kit
26842	Poppet Valve
26850	Refresh Kit
Atomising Head Refill Kits – HVLP Pressure	
26809	Atomising Head Pressure White 0.9
26811	Atomising Head Pressure Yellow 1.1
26814	Atomising Head Pressure Orange 1.4
26818	Atomising Head Pressure Clear 1.8
26820	Atomising Head Pressure Red 2.0
Atomising Head Refill Kits – HVLP Gravity	
26709	Atomising Head Gravity HVLP White 0.9
26712	Atomising Head Gravity HVLP Blue 1.2
26713	Atomising Head Gravity HVLP Green 1.3
26714	Atomising Head Gravity HVLP Orange 1.4
26716	Atomising Head Gravity HVLP Purple 1.6
26718	Atomising Head Gravity HVLP Clear 1.8
26720	Atomising Head Gravity HVLP Red 2.0
Atomising Head Refill Kits – Gravity Fine Finish	
26909	Atomising Head Gravity Fine Finish White 0.9
26911	Atomising Head Gravity Fine Finish Yellow 1.1
26912	Atomising Head Gravity Fine Finish Blue 1.2
26913	Atomising Head Gravity Fine Finish Green 1.3
26914	Atomising Head Gravity Fine Finish Orange 1.4
26916	Atomising Head Gravity Fine Finish Purple 1.6
26918	Atomising Head Gravity Fine Finish Clear 1.8
26920	Atomising Head Gravity Fine Finish Red 2.0



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2) Description and end uses

Lightweight and easy to use, the 3M™ Performance Spray Gun was built for the modern painter. Capable of spraying a wide range of coatings from either a pressure-fed source or attached gravity cup, its impact-resistant composite body makes it one of the lightest spray guns available, yet it is durable enough for demanding industrial and automotive conditions. With its versatile design, technicians can spray from either a pressure or gravity sources. The pressure-fed hose and nozzles allow for continuous bulk spraying for larger jobs. Or for spot repairs and small areas, convert the spray gun to use the 3M™ PPS™ Series 2.0 Spray Cup System –so you use just the right amount of coating to match the size and finish of the job. Simple, innovative design means fewer parts to maintain. With quick-change replaceable nozzles, paint never passes through the body of the spray gun. Clean up can be as simple as wiping the tip of the needle and replacing the head – which means no more disassembling or soaking in solvent. It's like getting a brand-new spray gun every time you put on a fresh nozzle. At sizes from 0.9 to 2.0, 3M™ Performance Atomising Heads allow you to easily spray a wide range of coatings –from stains and primers to topcoats and even adhesives. The spray gun's intuitive design means it's ready to help technicians spray right out of the box –whether you're a seasoned pro or if it's your first day on the job.

3) Physical Properties

Element	Material of construction
Body	Performance Spray Gun 2 Polyphenylene Sulfide (PPS) Performance Spray Gun Glass Filled Nylon 66 (PA66)
Trigger	Base: 304 Stainless Steel, Coating: TiC
Fluid Needle	17-4 SS
Control Knobs	Base: 6061 Aluminium, Coating: Type III Black Annodized
Air Inlet	Base: 361L Stainless Steel, Coating: TiC
Air Flow Control Valve	Body: Aluminium Other: Varies
Nozzle	Air Cap, Body, Face: PP, Barrel Seal: Nylon 66 (PA66)
Whip Hose	Multilayer
Ball Valve	Body: Aluminium with black annodized coating, Handle: Brass
Locking Collar	Delrin (POM)

Performance Properties

Performance Spray Gun with Gravity Nozzles	
Air Consumption HVLP	370 SLPM [13 SCFM]
Air Consumption Fine Finish	370 SLPM [13 SCFM]
Max HVLP Operating Air Pressure	1.38 Bar [20 psi]
Fine Finish Optimised Air Pressure	2.0 Bar [29psi]
Operating Pressure Range	0.5 – 2.6 Bar [7-37psi]
Maximum Operating Temperature	50 °C [122 °F]
Maximum Operating Overpressure	10 Bar [145 psi]
Weight	238 g [8.4 oz] +/- 5%
Air Inlet	1/4 BSP/NPS
Nozzle Sizes Gravity Fine Finish	0.9, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0
Nozzle Sizes Gravity HVLP	0.9,1.2, 1.3, 1.4, 1.6, 1.8, 2.0



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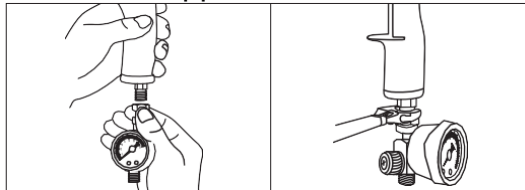
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Performance Spray Gun with Pressure Nozzles	
Air Consumption	370 SLPM [13 SCFM]
Max HVLP Operating Air Pressure	1.24 Bar [18 psi]
Operating Pressure Range	0.5 – 2.6 Bar [7-37psi]
Maximum Operating Temperature	50 °C [122 °F]
Maximum Operating Overpressure	10 Bar [145 psi]
Maximum Fluid Pressure	3.4 Bar [50 psi]
Weight	378 g [13.3 oz] +/- 5%
Air Inlet	1/4 BSP/NPS
Liquid Inlet	3/8 BSP/NPS
Nozzle Sizes	0.9, 1.1, 1.4, 1.8, 2.0

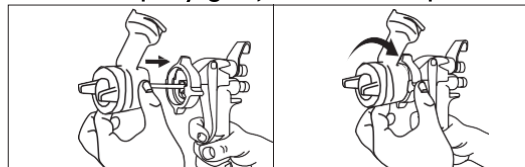
4) Directions for Use

Gravity Assembly

1. Attach the supplied air flow valve to the bottom of the gun.



2. Attach the nozzle to the spray gun with the locking collar fully connected. **Note:** It is easier to install the nozzle while pulling the trigger backward toward the spray gun handle. To remove the nozzle from the spray gun, reverse the process.



3. Attach 3M™ PPS™ Series 2.0 spray cup to nozzle.



4. Once the spray gun is properly assembled you may attach the air line.



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Nozzle Recommendation - Gravity

* starting points only, refer to Paint Manufacturer for recommendation on fluid tip size.

● = HVLP

Δ = Fine Finish

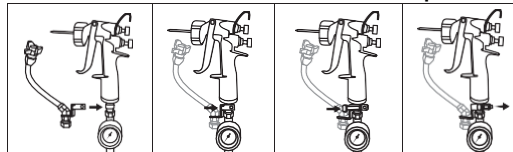
	2.0	1.8	1.6	1.4	1.3	1.2	1.1	0.9
High Viscosity Coatings	●Δ	●Δ						
Sprayable Fillers	●Δ	●Δ						
High Build Primer		●Δ	●Δ	●Δ				
Primer Surfacer		●Δ	●Δ	●Δ				
Wet on Wet Primer				●Δ	●Δ			
Primer Sealer				●Δ	●Δ			
Direct Gloss				●Δ				
Single Stage Top Coat				●Δ				
Solvent Base Coat				●Δ	●Δ			
Clearcoat				●Δ	●Δ	●Δ		
Waterborne Base Coat					●Δ	●Δ	Δ	
UV Primers					●Δ	●Δ	Δ	●Δ
Midcoat / Effect Coats					●Δ	●Δ	Δ	●Δ
Smart / Spot Repair							Δ	●Δ

Pressure Assembly

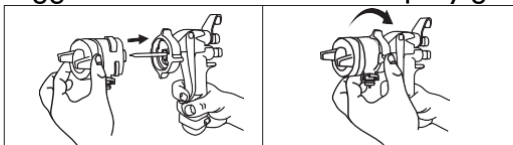
1. Attach the supplied air flow valve to the bottom of the gun.



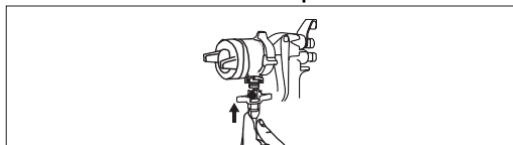
2. Attach Fluid Hose Pressure Whip to base of spray gun.



3. Attach the nozzle to the spray gun with the locking collar fully connected. Note: It is easier to install the nozzle while pulling the trigger backward toward the spray gun handle.



4. Connect Pressure Whip to nozzle.



5. Attach fluid and pressure lines from bulk feed system (or pressure pot). **Note:** Utilise the optional manual fluid shut-off valve, if desired, between hose whip and fluid supply.



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Nozzle Recommendation – Pressure

* starting points only, refer to Paint Manufacturer for recommendation on fluid tip size.

● = HVLP

	2.0	1.8	1.4	1.1	0.9
High Viscosity Coatings	●	●			
Textured Coatings	●	●			
Epoxy / Urethane Primers		●	●	●	
1K Top Coats			●	●	
2K Top Coats			●	●	●
Clearcoat				●	●
Base Coat / Single Stage Coatings			●		
Adhesives		●	●	●	●
Release Agents				●	●
Stains / Lacquers				●	●

Cleaning

Pressure

1. Once the system is adequately flushed (pot, lines), depressurize the system (or close the optional fluid valve).
2. After pressure is relieved, remove the hose whip from the nozzle.
3. Remove nozzle from spray gun to clean residue from the nozzle. Rinse out and flush cleaning solvent through the nozzle with fluid tip pointed straight down into receptacle to collect waste solvent.
4. Wipe needle tip. Store spray gun with a nozzle attached to protect the needle.

Gravity

1. Once coating application is complete, disconnect the air hose from the gun.
2. To drain back paint into cup – invert cup, pull trigger, and tap the PPS™ cup on the table 3 times.
3. Rinse out nozzle spout and flush cleaning solvent through the nozzle by pulling the trigger with fluid tip pointed straight down into receptacle to collect waste solvent.
4. Store spray gun with a nozzle attached to protect the needle.

WARNING! Do not immerse spray gun or nozzles in cleaning solvents or gun washers. The operating pressure range of this spray gun is listed on the face of each replacement atomising head. For pressure nozzles, **DO NOT EXCEED 3.4 BAR [50 PSI] FLUID PRESSURE.**

5) Storage

Ensure equipment is cleaned prior to storage.

Store spray gun with a nozzle attached to protect the needle.



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6) Safety

Before using the product, reference and understand the Product Label and Product Manual for Health and Safety Information. Consult all Safety Data Sheets for chemical material used with this product. Follow all local regulations for use and disposal of all items/products associated with the use of this product.

3M™ Performance Spray Gun is designed FOR PROFESSIONAL INDUSTRIAL USE ONLY.

7) Disclaimer

All statements, technical information and recommendations are based on tests we believe to be reliable as at the date of hereof, but the accuracy or completeness thereof is not guaranteed. Please ensure before using the product that it is suitable for your intended use. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, other than for fraudulent misrepresentation, 3M expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

For Additional Health and Safety Information

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