



# Ultra-Lite™ In-Line Flow Guns

- **Lowest trigger force and weight in its class**
- **Precise control of low viscosity sealant and adhesive materials**
- **Accepts flanged or threaded tips for a variety of dispensing needs**
- **Selectable trigger lock and hanger slot for the operator**



Ultra-Lite In-Line Flow Gun  
(nozzle not included)

**Easy to use  
manual flow  
gun for precise  
dispensing and  
long life**

Graco's Ultra-Lite in-line manual flow gun has the lowest trigger force of any flow gun in its class. Low trigger force reduces the physical effort needed to perform repetitive applications. Graco achieves this with a unique cantilever trigger design. Two models are available. For low fluid surge and precise control of fluid flow, use the tapered needle model (240-200). For fast fluid flow, a tungsten carbide ball seat model (240-199) is available.

Lightweight and durable, both Ultra-Lite in-line flow guns use solid tungsten carbide needles and seats to provide longer operating life compared to other sealant and adhesive flow guns. Needle and seat erosion due to abrasive materials is greatly reduced, extending time between repairs and downtime. The Ultra-Lite uses a high-strength forged aluminum fluid section that makes this gun the lightest in its class.

This premium flow gun is designed for use with most sealants and adhesives, including PVC sealer, waterborne, silicone and solventborne materials. The Ultra-Lite can be adapted to provide a bead pattern unique to your application, through a wide variety of nozzles, extensions and flow brushes.

### **Typical Fluids Handled**

- PVC sealers with glass or plastic filler
- Low to high abrasive fluids
- Waterborne and solventborne materials
- Most fluids up to 150,000 cps

### **Typical Applications**

- Automotive interior/exterior seam sealing
- Automotive after-hem seam sealing
- Industrial sealant and adhesive bonding

## Technical Specifications

|  |  |
|--|--|
| <b>Maximum working pressure</b>                      | ... 3400 psi (23.4 MPa, 234 bar)                 |
| <b>Needle seat types</b>                             | ... Carbide ball or 7.5° tapered carbide         |
| <b>Fluid flow at 2000 psi (13.8 MPa, 138 bar)*</b>   |  |
| <b>Ball seat model</b>                               | ... 158 oz./min. (4.5 kg/min)                    |
| <b>Tapered needle model</b>                          | ... 154 oz./min. (4.4 kg/min)                    |
| <b>Valve seat diameter</b>                           |  |
| <b>Ball seat model</b>                               | ... 0.125 in (3.2 mm)                            |
| <b>Tapered needle model</b>                          | ... 0.203 in (5.1 mm)                            |
| <b>Trigger force at 2000 psi (13.8 MPa, 138 bar)</b> |  |
| <b>Breakaway</b>                                     | ... 2.2 lb (1.0 kg)                              |
| <b>Sustaining</b>                                    | ... 3.2 lb (1.45 kg)                             |
| <b>Outlet size</b>                                   | ... flange and 1/4 npt(f)                        |
| <b>Inlet size</b>                                    | ... 1/4 npt(f)                                   |
| <b>Dry weight</b>                                    | ... 11.6 oz (328 gm)                             |
| <b>Length</b>  | ... 5.9 in (15 cm)                               |
| <b>Width</b>   | ... 2.6 in (6.6 cm)                              |
| <b>Thickness</b>                                     | ... 0.85 in (2.16 cm)                            |
| <b>Wetted parts</b>                                  | ... carbide, aluminum, SST, polyethylene, Viton® |
| <b>Instruction manual</b>                            | ... 308-807                                      |

## Ordering Information

- 240-199 Ultra-Lite In-Line Flow Gun (series 647H) with Ball End Needle**
- 240-206 Ultra-Lite Repair Kit (for ball end gun)**  
For use with Ultra-Lite In-Line Flow Gun with ball end needle (240-199). Includes carbide seat, ball needle, o-ring, seal.
- 240-200 Ultra-Lite In-Line Flow Gun (series 647H) with Tapered Needle**
- 240-207 Ultra-Lite Repair Kit (for tapered needle gun)**  
For use with Ultra-Lite In-Line Flow Gun with tapered needle (240-200). Includes carbide seat, tapered needle, o-ring, seal. *Note: Repair kits may be used to convert in-line flow guns from one needle style to another.*

### In-Line Flow Gun Packages

All packages include a 3/4 npt(f) ball valve, air operated mastic regulator, 3/8 in. x 25 ft. (9.5 mm x 7.6 m) hose, 1/4 in. x 6 ft. (6.3 mm x 1.8 m) hose, Z-swivel, and either a ball needle or tapered needle gun with 1/8 npt(f) nozzle adapter.

- 969-201 Ball Needle Gun Package**  
For sealer decks. Includes manual ball needle in-line gun (240-199).
- 969-202 Tapered Needle Gun Package**  
Includes manual tapered needle in-line gun (240-200).

## Accessories

Listed below is a sample of nozzles and adapters. See form number 305-567 for additional nozzles, brushes, adapters and extensions.

### Flanged Metal Nozzles, Wide Shank

Length: 2 in. (50.8 mm)

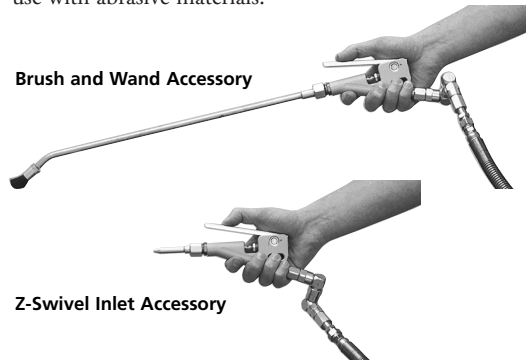
| Part No.       | Diameter            |
|----------------|---------------------|
| <b>C00-014</b> | 0.031 in. (0.79 mm) |
| <b>C00-010</b> | 0.062 in. (1.57 mm) |
| <b>C00-007</b> | 0.093 in. (2.36 mm) |
| <b>C00-006</b> | 0.125 in. (3.17 mm) |
| <b>C00-005</b> | 0.187 in. (4.75 mm) |
| <b>C00-008</b> | 0.250 in. (6.35 mm) |
| <b>C00-011</b> | 0.375 in. (9.52 mm) |

### Flanged Metal Nozzles, Narrow Shank

Length: 2.5 in. (63.5 mm)

| Part No.       | Diameter            |
|----------------|---------------------|
| <b>C00-047</b> | 0.062 in. (1.57 mm) |
| <b>C00-046</b> | 0.093 in. (2.36 mm) |
| <b>C00-044</b> | 0.125 in. (3.17 mm) |

- 168-683 Nozzle Bushing**  
To adapt 1/8 npt(m) nozzles. Zinc-plated carbon steel.
- 223-341 Straight Swivel**  
Maximum working pressure: 3600 psi (24.5 MPa, 245 bar). Inlet: 1/4 npt(f), outlet: 1/4 npt(m). Zinc-plated steel, Teflon® packings.
- 223-340 Z-Swivel**  
Maximum working pressure 8000 psi (56 MPa, 560 bar). Inlet: 1/4 npt(f), outlet: 1/4 npt(m). Zinc-plated steel, Teflon® packings. Z-swivels are not intended for use with abrasive materials.



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\*Fluid flow rate using PVC sealer dispensed through a 1/8 in. (3.17 mm) diameter orifice nozzle. Actual flow rates will vary depending on material type, fluid pressure and inlet/outlet accessories.