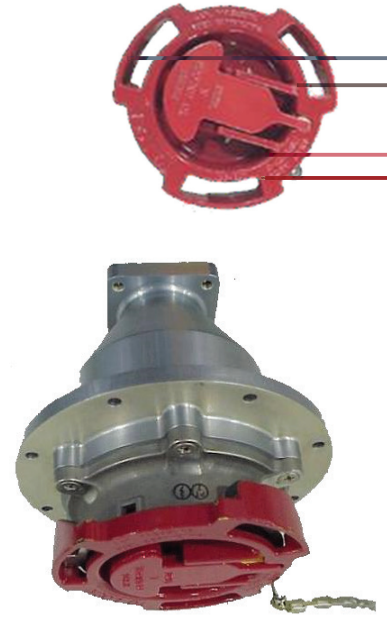


# Pressure Refuel Cap

Parker Aerospace pressure refuel caps are used to lock, seal, and vent the pressure refuel port for an aircraft fuel tank. Pressure refueling allows for single point refueling on larger aircraft. Parker's pressure refuel cap is designed in accordance with military specification MIL-C-8605B (for technical requirements) and MS29526-2 (for envelope requirements). The cap can be used with all aircraft fuels, and also features an aluminum base and handle, a fluorosilicone O-ring seal, and anti-sparking brass chain lanyard (per industry standard RR-C-271) with a plastic tubing cover and corrosion resistant steel hooks. Lanyards can also be fabricated with corrosion-resistant steel or flexible plastic and fuel resistant tubing.

Parker Aerospace pressure refuel caps are 4.5 inches diameter, with an indexing feature. They fit into a 2.5-inch pressure refuel adapter per military specification MS24484. To fuel the aircraft, the caps are manually actuated by pressing down on the handle, which will vent and unlock the cap for removal by twisting. The cap remains attached to the aircraft by a lanyard. Once refueling is complete, the cap is inserted back onto the adapter and twisted until locked into place, which effectively reseals the pressure refuel port.



## Product Features

Parker Aerospace gravity filler caps, both indexing and non-indexing, are three inches in diameter. To fuel the aircraft, the caps are manually actuated by lifting and turning the handle, which will vent the fuel tank. The cap is then removed from its mating adapter, at which time the aircraft can be refueled. The cap remains attached to the aircraft by a lanyard. Once refueling is complete, the cap is inserted back into the adapter and handle is actuated back to closed position, which effectively reseals the gravity fill refuel port.

- Lightweight aluminum base and handle
- Fluorosilicone o-ring seal
- Polyurethane lanyard
- Available as Lightning Safe® application
  - Lightning protection, ignition prevention, and pump and vent protection

## Specifications

Designed in accordance with MIL-C-38373B and MS29526-2.

|   |                                  |
|---|----------------------------------|
| Cap diameter  | 4.5"                             |
| Mates with adapter  | Per MS27379                      |
| Pressure  |                                  |
| - Operating   | 60 psig                          |
| - Proof   | 120 psig                         |
| - Burst   | 180 psig                         |
| Installation torque on handle                                     | 50 in-lbs or less                |
| O-ring seal conforms  | Per MS33666                      |
| Attachment for lightning safe caps (polyurethane lanyard)         | Will withstand a 40-lb pull test |
| Non-lightning-safe caps have lanyards of varied material and type |                                  |
| For use with all aircraft fuels and temp ranges                   | -67°F to 135°F and 158°F ambient |

## Applications

- For use with all aircraft fuels
- Ignition prevention to prevent explosions
- Meets or exceeds military specifications: MIL-C-8605B (technical requirements), MS29526-2 (envelope requirements), RR-C-271 (anti-sparking lanyard), and MS24484 (pressure refuel adapter)

## Optional Features

- Key lock
- Vented
- Hinged
- Visual fluid level indicator
- Dust cover
- Easy-lift handle
- Contoured adapter

## Contact Information

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# Fuel: Gravity Adapters

| Part Number | Flange Diameter | Bolt Holes                       | Style              | Options  | Envelope |
|-------------|-----------------|----------------------------------|--------------------|--|----------|
| 457-1644    | 7.00"           | 12 x .192 diameter on 5.50" B.C. | Cylindrical radius | 10-32 UNJF-3B self-locking floating nut plates                             |          |
| 457-2029    | 5.50"           | 12 x .247 diameter on 4.75" B.C. | Radiused           | Anti-siphon on adapter with 10-32 UNJF-3B self locking floating nut plates |          |
| 416-3B1     | 4.45"           | 12 x .280 diameter on 4.75" B.C. | Flat               | Counter-sunk holes, high-polish, screen, full level indicator              |          |