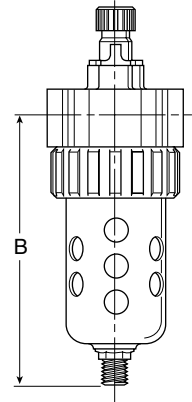


Remote Auto-Fill Device



Features

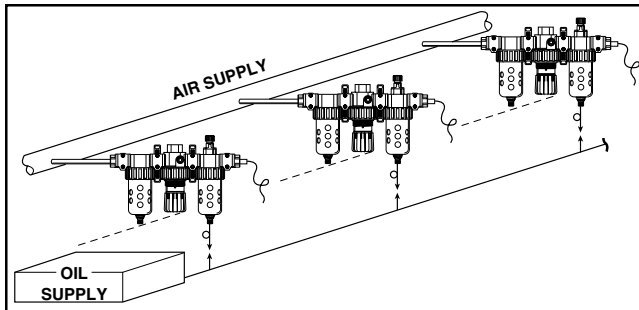
- Wide operating range (oil supply to inlet may be 30 to 270 psig; air operating pressure depends on bowl used).
- Rugged polyurethane float design.
- Complete field conversion kit.
- Adaptable on polycarbonate and metal bowls already in service.
- Oil supply strainer standard.
- Fits 06L / 16L and 07L / 17L Series.



Dimensions

Model	Kit Number	B
06L-16L	PS505CP	5.36 (136)
07L-17L	PS505CP	6.71 (170)

Inches (mm)

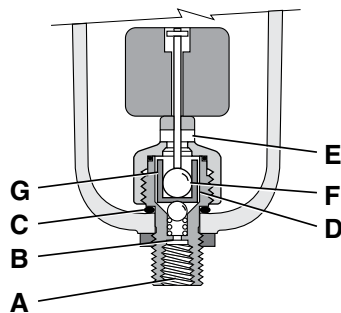


Operation

Oil enters the unit at the pipe thread fitting **(A)** with a supply pressure that is a minimum of 20 psig above the lubricator air pressure. With the float lowered, oil flows through metering orifice **(B)** and lifts the check ball **(C)**. Oil continues to flow past the shuttle chamber annulus **(D)** and out the cross drilled hole **(E)**. As the oil level rises, it cause the float to rise to its maximum level in the bowl. During this period the shut-off ball **(F)** remains in chamber **(G)**, out of the flow stream. Near the end of the filling period, shut-off ball **(F)** will enter the flow stream and snap shut against the seat in chamber **(G)**.

The stem assembly will thus block any additional oil passage as long as the oil supply pressure is maintained at **(A)**. When the supply pressure at **(A)** is released, ball **(C)** is held up against the shuttle **(D)** by a spring causing a slight delay in reverse flow shut-off. This permits the higher still present supply pressure in chamber **(G)** to dissipate and bowl pressure to take over. The shuttle then moves down forcing ball **(C)** to close orifice **(B)**. The orifice will remain closed as long as there is air pressure in the bowl.

This delay of reverse flow in chamber **(G)** is necessary to allow shut-off ball **(F)** to fall when the oil level decreases and permit oil to enter the bowl for the next refill. Thus, for the unit to operate properly, it is necessary that the oil supply pressure go to zero after each fill.



Specifications

Bowl Capacity 4.9 Ounces
Minimum Flow for Lubrication 1 SCFM At 100 psig
Port Threads 3/8, 1/2, 3/4 Inch
Pressure & Temperature Rating –

Polycarbonate Bowl – 0 to 150 psig (0 to 10.3 bar)
 32°F to 125°F (0°C to 52°C)
 Metal Bowl / Sight Gauge – 0 to 250 psig (0 to 17.2 bar)
 32°F to 175°F (0°C to 80°C)

Oil inlet pressure must be at least 20 psig above system air pressure and may be up to 300 psig.

Suggested Lubricant F442 Oil
 Petroleum based oil of 100 to 200 SSU viscosity at 100°F (38°C) and an aniline point greater than 200°F (93°C).
 (DO NOT USE OILS WITH ADDITIVES, COMPOUNDED OILS CONTAINING SOLVENTS, GRAPHITE, DETERGENTS, OR SYNTHETIC OILS.)

Flexible tubing is recommended for oil supply line connection to remote fill inlet. Rigid piping should be avoided to prevent possible damage due to stresses on the lubricator bowl assembly. Oil supply line should be pressurized for 2 to 15 minutes one or more times per day. Pressurization frequently should be based on maintaining oil in lubricator at its highest level.

Weight 1.9 lb. (0.9 kg)

Materials of Construction

Body, Cap & Stem Aluminum
Float Polyurethane
Mounting Nut Delrin
Seals Nitrile
Spring Stainless