PL10 Lubricators – Standard

- Stainless steel construction handles most corrosive environments
- 1/8" female threaded drain
- Fillable under pressure
- Meets NACE specifications MR-01-75/ISO 15156
- 1/2" port (NPT, BSPP)

Port Size	Description	Part Number
1/2"	Twist Drain, with Sight Gauge, NPT	**PL10-04WSS**
1/2"	Twist Drain, without Sight Gauge, NPT	**PL10-04DSS**

Operating information

Operating pressure:	
Metal bowl, no sight gauge	0 to 300 psig (0 to 20.7 bar)
Metal bowl, sight gauge	0 to 250 psig (0 to 17.2 bar)
Operating temperature:	
Metal bowl, no sight gauge	0°F to 150°F (-18°C to 66°C)
Metal bowl, sight gauge	0°F to 150°F (-18°C to 66°C)
Flow capacity†:	100 scfm (47.2 dm^3/s, ANR)
Bowl capacity:	4.0 oz.
Weight:	1.9 lb (0.85 kg)

Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (0°C)

† scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

Ordering Information:

PL10 – 04 W SS

Port Type	
NPT	–
BSPP	G

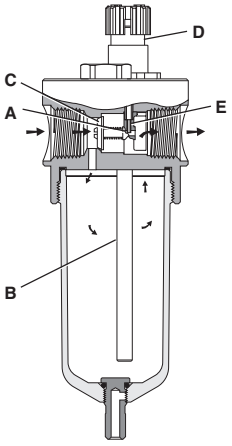
Port Size	
1/2 inch	04

Bowl Type	
D	Metal Bowl without Sight Gauge
W	Metal Bowl with Sight Gauge

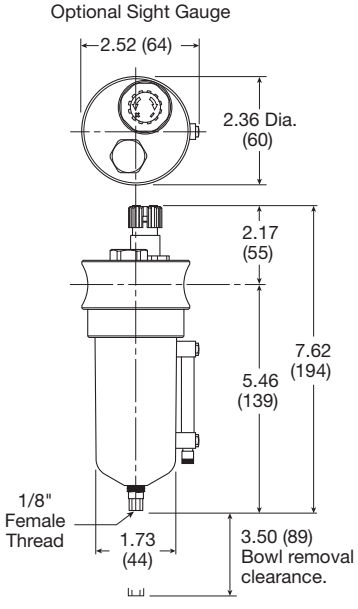
Material	
SS	Stainless Steel

☐ Most popular.

Operation



Air flowing through the unit goes through two paths. At low flow rates the majority of the air flows through the Venturi section **(A)**. The rest of the air opens the check valve **(C)**. The velocity of the air flowing through the Venturi section **(A)** creates a pressure drop. This lower pressure allows the oil to be forced from the reservoir through the pickup tube **(B)** and travels up to the metering screw **(D)**. The rate of oil delivery is then controlled by adjusting the metering screw **(D)**. Oil flows past the metering screw **(D)** and forms a drop in the nozzle tube **(E)**. As the oil drops through the dome **(F)** and back into the Venturi section **(A)**, it is broken up into fine particles. It is then mixed with the air flowing past the check valve **(C)** and is carried downstream. As the air flow increases the check valve **(C)** will open more fully. This additional flow will assure that the oil delivery rate will increase linearly with the increase of air flow.



Inches (mm)

Material Specifications

Body	316 stainless steel
Bowl	316 stainless steel
Dip tube	316 stainless steel
Drain	316 stainless steel
Fill plug	316 stainless steel
Seals	Fluorocarbon
Sight dome	Nylon
Sight gauge	Isoplast

Repair and Service Kits

Manual twist drain (small, old)	**SA600Y7-1SS**
Manual twist drain (large, new)	**SAP05481**
Pipe nipple, 1/2" 316 stainless steel	**616A28-SS**
Sight dome kit, (old)	**RKL10SS**
Sight dome kit, (new)	**PS740N**

Flow Charts

PL10 1/2" Lubricator