

OPERATION

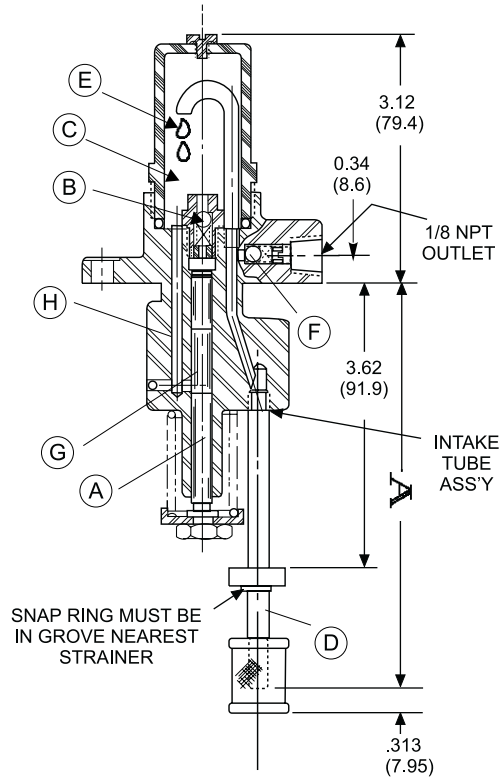
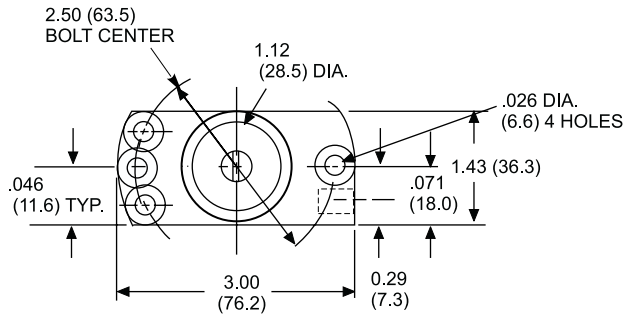
Primestroke (See Figure A)

On the down stroke of the piston (A), a partial vacuum is formed causing the inlet check valve (B) to open, thus allowing oil to flow around the inlet check valve ball and enter into the cylinder forward of the piston. The lowering of the oil level in the sight feed chamber (C) also creates a partial vacuum. This induces the oil to flow from the main reservoir, up the suction tube (D) and to drip (E) out into the sight feed chamber until the pressure is stabilized once again. During this action the outlet check valve (F) remains tightly sealed due to the differential pressure.

Delivery Stroke (See Figure A)

On the upward stroke of the piston the inlet check valve (B) closes and seals off the inlet. As the piston rises, the pressure increases, the outlet check valve (F) opens and discharges the volume of oil drawn into the cylinder on the down stroke. During the upward movement of the piston, any oil seepage between the cylinder and piston is trapped in a relief section of the piston (G) and directed up into the sight feed chamber through (H); as a result of this feature no piston seepage is directed back to the main reservoir. In this manner, the sight glass oil level is also regulated by any piston leakage (due to piston wear) and the amount of oil level drop in turn regulates the number of drops falling from the drip tube. Therefore the amount of drops displaced through the drip tube is the amount of oil being discharged.

OUTLINE AND MOUNTING DIMENSIONS



ORDERING INFORMATION

Assembly No.	Dimension "A"	Metric Dimension	Plunger Size	Remarks
382-220-016	5.094	129.39	3/16 Dia.	Std. for 6" Reservoir
382-220-017	7.031	178.59	3/16 dIA.	Std. for 8: Reservoir
382-320-026	5.094	129.39	1/4 Dia.	Std. for 6" Reservoir
382-320-027	7.031	178.59	1/4 Dia.	Std. for 8" Reservoir
382-320-030	4.625	117.47	1/4 Dia.	Short tube for warning
382-320-031	4.094	103.99	1/4 Dia.	Short tube for shutdown