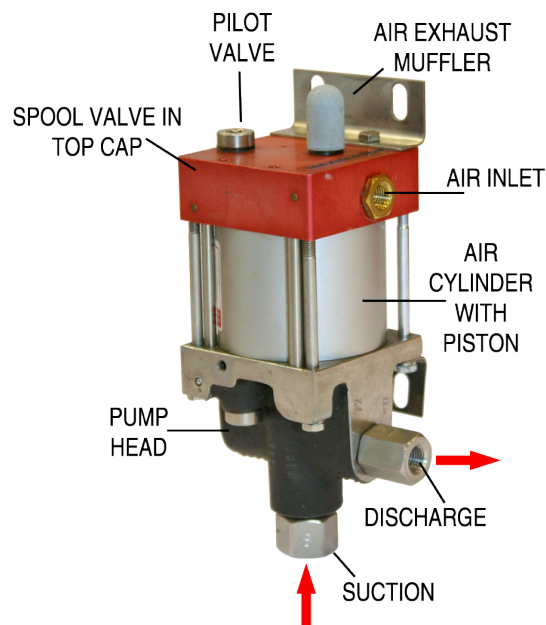


PPO pumps are lightweight and rugged making them ideal for portable power packs and are available in eight pressure ratios as listed below. PPO pumps are single acting, single air drive head.

- Anodized aluminum pump heads on the PPO4-PPO12, cast iron pump heads on the PPO22-PPO189. Tool steel plungers and polyurethane seals on all.
- All PPO series pumps are standard with bottom inlet. For a side inlet, add -S to the catalog number. (PPO22 and above only.)
- Maximum air drive pressure is 145 psi. PPO pumps require less drive pressure because the pump is driven in both directions with no spring under the piston.
- This design reduces noise and provides less chance of cavitation.
- Minimum air drive pressure 15 psi.
- For air control option, add -ACM to the catalog number.
- Double acting are available as a special order.

# PPO

**SERIES**
**PRESSURES FROM  
60 TO 14,500 PSI**


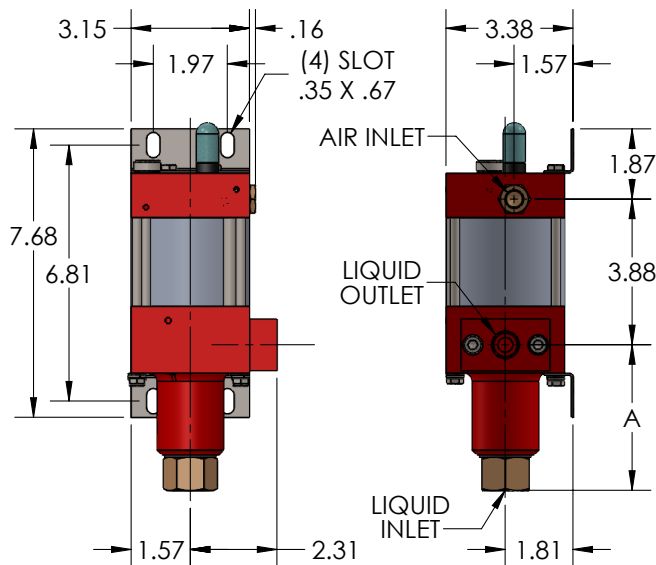
## TECHNICAL DATA

CATALOG NUMBER	PRESSURE RATIO	MAXIMUM OUTLET PRESSURE (PSI)	DISPL. PER CYCLE (IN. <sup>3</sup> )	CONNECTIONS (FNPT - IN.)		WEIGHT (LBS.)
				INLET	OUTLET	
PPO4	1:4	580	1.86	1	1/2	6
PPO8	1:9	1,305	0.90	3/4	1/2	
PPO12	1:14	2,030	0.57	3/4	1/4	
PPO22	1:29	4,205	0.28	3/8	1/4	7
PPO37	1:47	6,815	0.17	3/8	1/4	
PPO72	1:88	12,760	0.09	3/8	1/4	
PPO111	1:133	14,500	0.06	3/8	1/4	
PPO189	1:225	14,500	0.04	3/8	1/4	

**NOTE:** Air drive inlet connection on all PPO pumps is 1/4" FNPT.  
Maximum allowable oil temperature is 140°F.  
Air section temperature rating: 0°F to 140°F.

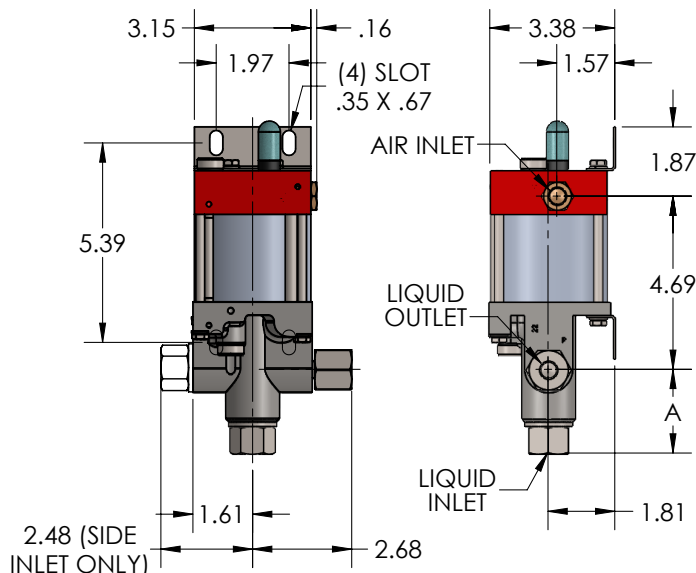
See page 7 PP Pump Flow Page for PPO Flow Chart

## DIMENSIONS (inches) - PPO4 - PPO12



CATALOG NUMBER	A
PPO4	4.44
PPO8, PPO12	3.88

## DIMENSIONS (inches) - PPO22 - PPO189



CATALOG NUMBER	A	
	BOTTOM INLET	SIDE INLET
PP22-PP189	2.26	.66