

DESCRIPTION

AP-0 is an all aluminum construction, high pressure Mini Hydraulic Gear Pump. The standard mounting flange is as detailed on the installation drawing and porting is any combination of rear, front or side as defined in the ordering example.



Side Inlet & Outlet



Inlet On Endcover
Outlet On Front Cover

AP-0 TECHNICAL DATA

- Pump inlet pressure (absolute) 12 to 32 psi
- Operating Viscosity Range: 20 - 65 mm²/s (cSt) – Recommended
- Minimum operating viscosity 12 mm²/s (cSt)
- Maximum operating viscosity 100 mm²/s (cSt)
- Max level of contamination:
Recommended for operating pressure:
 - < 2000 psi (140 bar) 21/19/16 ISO 4406 / class 10 NAS 1638
 - 2000 to 2900 psi (140-200 bar) 20/18/15 ISO 4406 / class 9 NAS 1638
- Operating temperature:
 - Oil: -20 to 80°C / -4 to 176°F
 - Ambient: -22 to 55°C / -8 to 130°F
- Hydraulic fluid: Mineral-based hydraulic oil
- Seals: Buna NBR (standard) / Viton FKM (optional)
- Caution: Not to be used with Water Glycol.
- Max. permissible operating pressure dependent on viscosity.

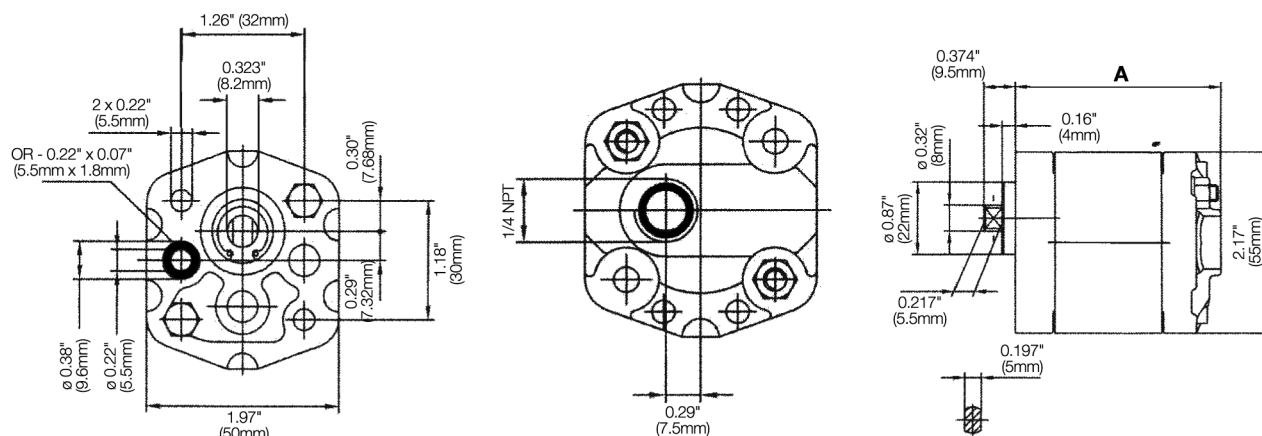
Model	Displacement		GPM @ 1800 rpm	Rated Pressure		Speed RPM		Weight	
	cm ³ /rev	cu.in/rev		psi	bar	Min.	Max.	lbs.	kg
AP-0-0.16	0.16	0.010	0.08	2900	200	800	6000	0.82	0.37
AP-0-0.25	0.25	0.015	0.12	2900	200	800	6000	0.84	0.38
AP-0-0.50	0.50	0.030	0.23	2900	200	800	6000	0.87	0.39
AP-0-0.75	0.75	0.045	0.35	2900	200	800	6000	0.91	0.41
AP-0-1.00	1.00	0.060	0.47	2900	200	800	6000	0.92	0.42
AP-0-1.25	1.25	0.076	0.59	2900	200	800	5000	1.00	0.45
AP-0-1.50	1.50	0.092	0.72	2900	200	800	5000	1.04	0.47
AP-0-1.75	1.75	0.107	0.83	2320	160	800	4500	1.08	0.49
AP-0-2.00	2.00	0.122	0.95	2320	160	800	4500	1.13	0.51

Notes:

Flow rate in gpm - Displacement (cu.in/rev) X speed (rpm)/231

Volumetric efficiency up to 98%, mechanical efficiency up to 88%

AP-0 DIMENSIONS



Model	A	
	mm	inch
AP-0-0.16	60	2.36
AP-0-0.25	61	2.40
AP-0-0.50	63	2.48
AP-0-0.75	65	2.55
AP-0-1.00	68	2.68

Model	A	
	mm	inch
AP-0-1.25	70	2.75
AP-0-1.50	72	2.83
AP-0-1.75	75	2.95
AP-0-2.00	77	3.03

AP-0 ORDERING INFORMATION

AP-0	1.00	T	R	-	-
Model Series	Displacement	Drive Shaft	Rotation Direction	Port Options	Special Options
AP-0	cm ³ /r	Ø8 mm Shaft with 5 mm Wide Tang	R Clockwise L Counter Clockwise viewed from drive shaft end	Omit Standard (See drawing) 1 1/4" NPT Side Ports 2 Special (Specify)	FR Free Running
Ø22 mm	0.16				
2 Bolt Through	0.25				
Body-Shaped Flange	0.50				
	0.75				
	1.00				
	1.25				
	1.50				
	1.75				
	2.00				