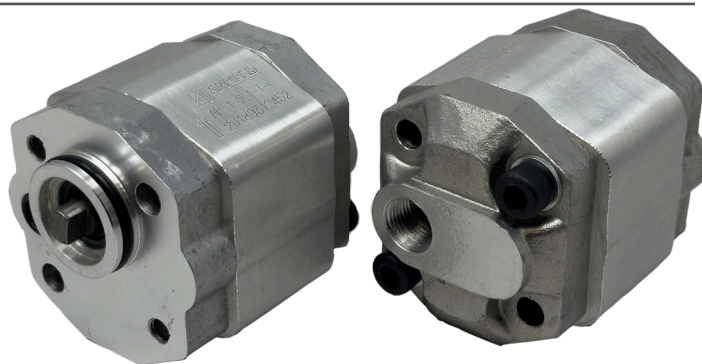


DESCRIPTION

AP-1 is an all aluminum construction, high pressure 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.

The drive shaft options include flat tang or tapered keyed.



AP-1 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.

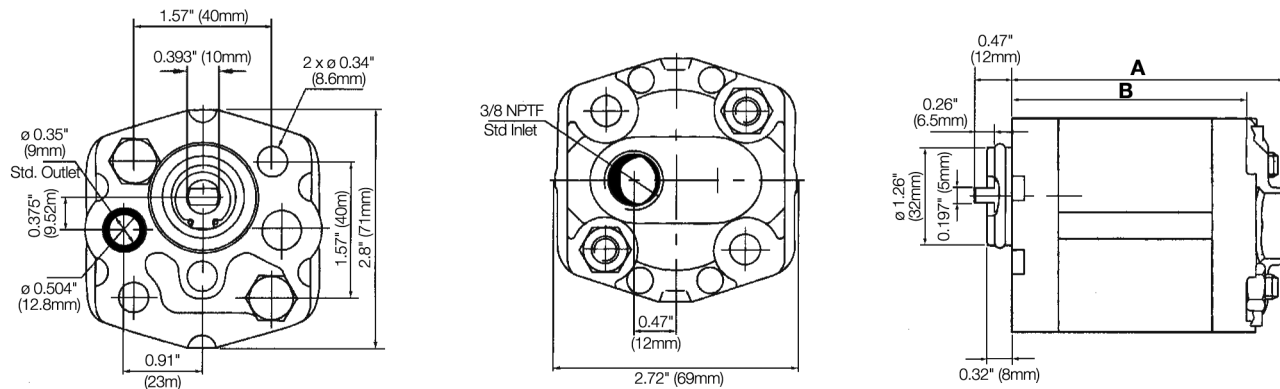
Model	Displacement		GPM @ 1800 rpm	Rated Pressure		Speed RPM		Weight	
	cm ³ /rev	cu.in/rev		psi	bar	Min.	Max.	lbs.	kg
AP-1-1.1	1.1	0.067	0.52	2900	200	600	6000	1.69	0.77
AP-1-1.3	1.3	0.079	0.62	2900	200	600	6000	1.73	0.79
AP-1-1.6	1.6	0.092	0.72	2900	200	600	6000	1.76	0.80
AP-1-1.8	1.8	0.110	0.86	2900	200	600	6000	1.78	0.81
AP-1-2.1	2.1	0.128	1.00	2900	200	600	6000	1.80	0.82
AP-1-2.7	2.7	0.165	1.29	2900	200	600	6000	1.87	0.85
AP-1-3.2	3.2	0.195	1.52	2900	200	600	5000	1.91	0.87
AP-1-3.7	3.7	0.226	1.76	2900	200	600	4500	1.98	0.90
AP-1-4.2	4.2	0.256	1.99	2900	200	600	4000	2.02	0.92
AP-1-4.8	4.8	0.293	2.28	2320	160	600	3500	2.09	0.95
AP-1-5.8	5.8	0.354	2.76	2320	160	600	2900	2.20	1.00
AP-1-8.0	8.0	0.488	3.80	2320	160	600	2100	2.42	1.10

Notes:

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

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

AP-1 DIMENSIONS



Model	A		B		Model	A		B	
	mm	inch	mm	inch		mm	inch	mm	inch
AP-1-1.1	74	2.91	62	2.44	AP-1-3.2	82	3.23	70	2.76
AP-1-1.3	75	2.95	63	2.48	AP-1-3.7	84	3.31	72	2.83
AP-1-1.6	76	2.99	64	2.52	AP-1-4.2	86	3.39	74	2.91
AP-1-1.8	77	3.03	65	2.56	AP-1-4.8	88	3.46	76	2.99
AP-1-2.1	78	3.07	66	2.60	AP-1-5.8	92	3.62	80	3.15
AP-1-2.7	80	3.15	68	2.68	AP-1-8.0	100	3.94	88	3.46

AP-1 ORDERING INFORMATION

AP-1	2.7	T	R	-	-
Model Series	Displacement	Drive Shaft	Rotation Direction	Port Options	Special Options
AP-1	cm ³ /r	Ø10 mm Shaft w/ 5 mm Wide Tang	R Clockwise	Blank Side (Standard)	FR Free Running
Ø32 mm	1.1 0.067		L Counter Clockwise	1 3/8" NPT Side Ports	
2 Bolt Through	1.3 0.079	Z Ø10 mm Tapered Shaft (1:5) 2x7 mm Woodruff Key	viewed from drive shaft end	2 Special (Specify)	
Body-Shaped Flange	1.6 0.098				
	1.8 0.110				
	2.1 0.128				
	2.7 0.165				
	3.2 0.195				
	3.7 0.226				
	4.2 0.256				
	4.8 0.293				
	5.8 0.354				
	8.0 0.488				