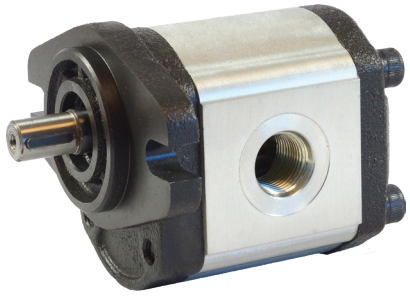
DESCRIPTION

- AP-10 is a high pressure gear pump with cast iron end caps and an aluminum housing.
- Standard mounting flange is SAE AA-2 bolt.
- Standard ports are SAE-8 inlet and SAE-6 outlet.
- Choice of standard 1/2" straight keyed shaft or 1/2" 9 tooth splined shaft.
- All aluminum construction is available (factory order).



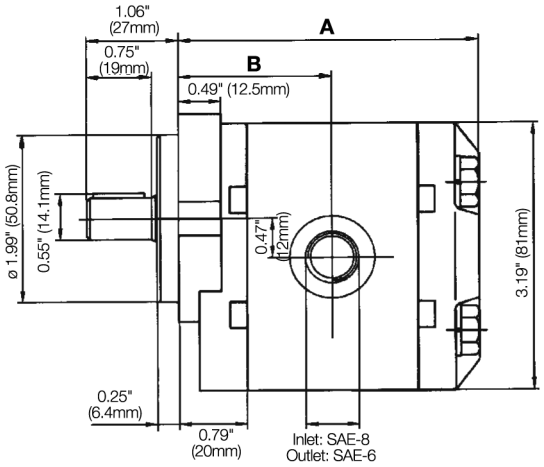
AP-10 TECHNICAL DATA

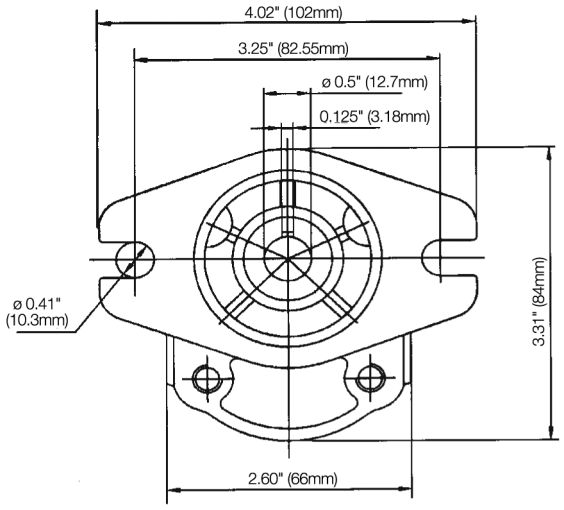
- Pump inlet pressure (absolute) — 12 to 32 psi
- Operating Viscosity Range: — 20 - 65 mm^2/s (cSt) – Recommended
- Minimum operating viscosity — 12 mm^2/s (cSt)
- Maximum operating viscosity — 100 mm^2/s (cSt)
- Max level of contamination:
  Recommended for operating pressure:
  < 2000 psi (140 bar) — 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 80ºC / -4 to 176ºF
  Ambient: -22 to 55ºC / -8 to 130ºF
- 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	
	cm3/rev	cu.in/rev		psi	bar	Min.	Max.	lbs.	kg
AP-10-1.3	1.3	0.079	0.55	2900	200	500	4500	4.0	1.81
AP-10-1.7	1.7	0.104	0.76	2900	200	500	4500	4.3	1.95
AP-10-2.0	2.0	0.122	0.94	2900	200	500	4500	4.2	1.90
AP-10-2.7	2.7	0.165	1.25	2900	200	500	4500	4.5	2.04
AP-10-3.4	3.4	0.207	1.56	2900	200	500	4500	4.5	2.04
AP-10-4.1	4.1	0.250	1.95	2900	200	500	4500	4.8	2.17
AP-10-5.1	5.1	0.311	2.73	2900	200	500	4500	5.0	2.27
AP-10-6.1	6.1	0.372	2.88	2900	200	500	4500	5.0	2.27
AP-10-8.0	8.0	0.488	3.82	2900	200	500	4500	5.2	2.36

Notes:
Flow rate in gpm - Displacement (cu.in/rev) X speed (rpm)/231
Volumetric efficiency up to 98%, mechanical efficiency up to 88%

AP-10 DIMENSIONS





Model	A		B	
	mm	inch	mm	inch
AP-10-1.3	85.1	3.35	42.05	1.66
AP-10-1.7	86.1	3.39	42.55	1.68
AP-10-2.0	87.1	3.43	43.05	1.69
AP-10-2.7	89.1	3.51	44.05	1.73
AP-10-3.4	91.1	3.59	45.05	1.77

Model	A		B	
	mm	inch	mm	inch
AP-10-4.1	93.1	3.67	46.05	1.81
AP-10-5.1	96.1	3.78	47.55	1.87
AP-10-6.1	99.1	3.90	49.05	1.93
AP-10-8.0	105.1	4.14	52.05	2.05

AP-10 ORDERING INFORMATION

AP-10 — **4.1** — **P2** — **R** — ____

Model Series

AP-10
SAE AA-2 bolt

Displacement

cm³/r	CIR
1.3	0.079
1.7	0.104
2.0	0.122
2.7	0.165
3.4	0.207
4.1	0.250
5.1	0.311
6.1	0.372
8.0	0.488

Drive Shaft

P2 1/2” Straight Keyed (SAE AA) 1/8” Key

S9 1/2” 9T 20/40 DP Splined (SAE AA)

Rotation Direction

R Clockwise
L Counter Clockwise
viewed from drive shaft end

Special Options

Consult Anfield