

GEAR PUMPS

Product Range

Gear pump range includes single pumps of groups AP100 and AP212. Displacements range from 0.073 in³/rev to 1.599 in³/rev.

Recommended Fluids/Allowed Temperatures

Mineral oil based hydraulic fluids that comply with ISO/DIN standards is recommended.

Suction

The absolute suction pressure must be 11 PSI. It is also advisable to choose a filter of suitable size to minimize any pressure drop and to take measures to prevent gradual clogging over time.

Viscosity Range	
Recommended	Permitted
100 to 500 SUS	up to 3000 SUS

Operating Temperature	
Seal Type	Temperature
Buna N	5° to 176° F -15° to 80° C

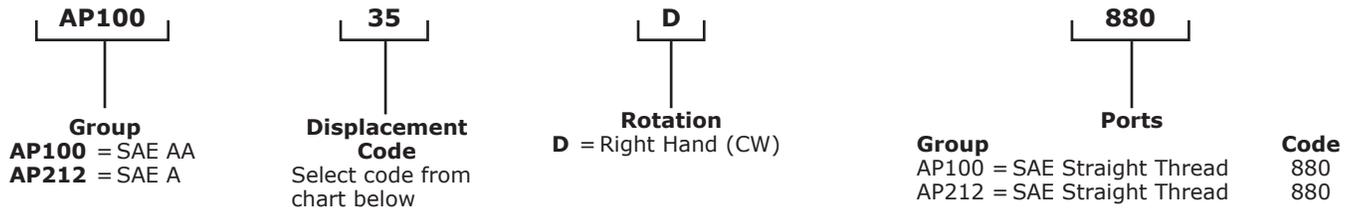


AP100



AP212

How to Order



Gear Pumps					
Group	Code	Displacement in ³ /rev	Group	Code	Displacement in ³ /rev
AP100	12	.073	AP212	45	.269
	17	.103		65	.391
	25	.152		85	.513
	35	.213		11	.677
	43	.262		15	.921
	65	.396		19	1.172
8	.476	22	1.355		

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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 Fx : 920-684-7210



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GEAR PUMPS

AP100 SERIES

AP100 Gear pumps are widely used in modern hydraulic systems due to their high performance, long service life and low purchase and maintenance costs. The essential components of the AP100 series external gear pumps are an aluminum alloy body and two gearwheels, supported by plain bearings.

Standard Features:

- High overall efficiency thanks to optimized hydraulic compensation
- Design and materials that guarantee excellent technical specifications and long life service
- Recommend using only mineral oil-based hydraulic fluids that comply with the ISO/DIN standards
- Buna N Seal

Suction:

- Absolute suction pressure must be 11 PSI
- It is also advisable to choose a filter of a suitable size to minimize any pressure drop and to take measures to prevent gradual clogging over time

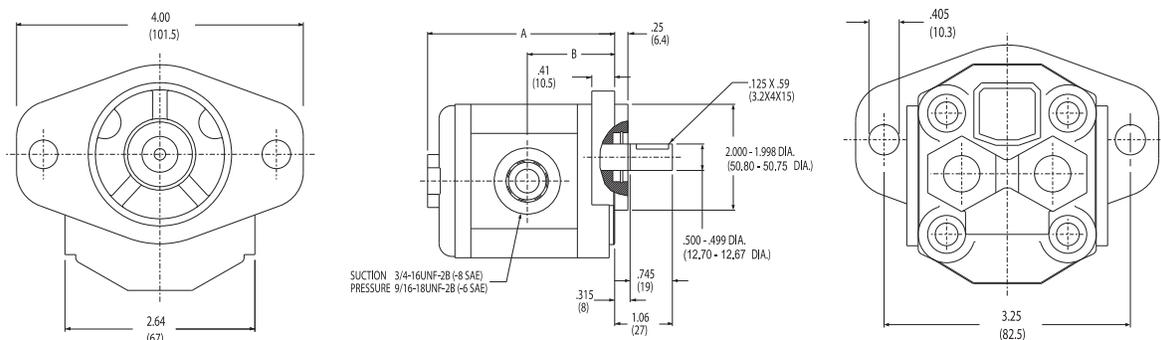
Viscosity Range:

- Recommended 20 + 120 mm²/s (cSt)
- Permitted up to 700 mm²/s (cSt)

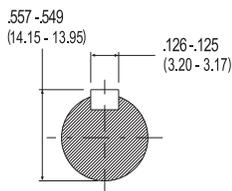
Operating Temperature:

- 5° to 176°F (-15 to 80°C)

CAUTION: - Not to be used with Water Glycol



NOTE: All dimensions are inches (mm)



AP100 Series

Part No.	Displacement in ³ /rev	Flow		Max Pressure			Max Speed RPM	Dimensions			
		@1725 RPM GPM	@3450 RPM GPM	Continuous PSI	Intermittent PSI	Peak PSI		A		B	
								in	mm	in	mm
AP10012D880	.073	.546	1.091	3000	3600	4000	5000	3.29	83.50	1.56	39.50
AP10017D880	.103	.770	1.540	3000	3600	4000	5000	3.37	85.50	1.60	40.50
AP10025D880	.152	1.136	2.272	3000	3600	4000	5000	3.50	89.00	1.65	42.00
AP10035D880	.213	1.592	3.184	3000	3300	3600	4000	3.66	93.00	1.75	44.50
AP10043D880	.262	1.958	3.917	3000	3300	3600	4000	3.82	97.00	1.81	46.00
AP10065D880	.396	2.957	5.914	2700	3150	3400	3000	4.11	104.50	1.97	50.00
AP1008D880	.476	3.554	7.109	2600	3000	3300	3000	4.33	110.00	2.09	53.00

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GEAR PUMPS

AP212 SERIES

AP212 gear pumps are widely used in modern hydraulic systems due to their high performance, long service life and low purchase and maintenance costs. The AP212 series is able to achieve high operating pressures, excellent volumetric and mechanical efficiency.

Standard Features:

- New generation optimized and standardized balancing blocks
- New gears profile (12 teeth) with increased transmissible torque
- Design and materials that guarantee excellent technical specifications and long life service
- Recommend using only mineral oil-based hydraulic fluids that comply with the ISO/DIN standards
- Buna N Seals

Suction:

- Absolute suction pressure must be 11 PSI
- It is also advisable to choose a filter of a suitable size to minimize any pressure drop and to take measures to prevent gradual clogging over time

Viscosity Range:

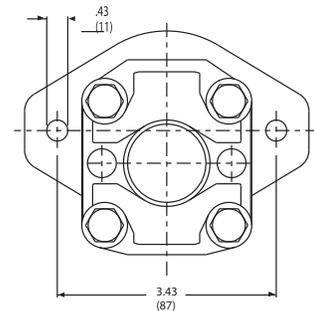
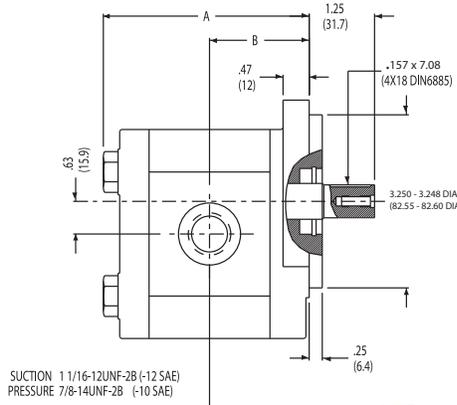
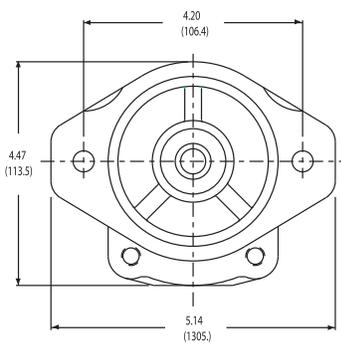
- Recommended 20 + 120 mm²/s (cSt)
- Permitted up to 700 mm²/s (cSt)

Operating Temperature:

- 5° to 176°F (-15 to 80°C)

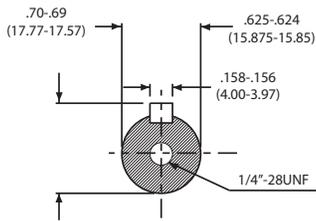
CAUTION: • Not to be used with Water Glycol

- **The coupling joint must be able to absorb any discrepancies in the coaxial alignment of the motor-pump shafts without placing any load on the pump shaft**
- **Absolutely no radial or axial forces should be transmitted to the drive shaft in the motor-pump coupling**
- **Such forces cause rapid and irregular wear on the balancing surface of the bushings and gear support, with a consequent worsening in pump performance**



NOTE: All dimensions are inches (mm)

SUCTION 1 1/16-12UNF-2B (-12 SAE)
PRESSURE 7/8-14UNF-2B (-10 SAE)



AP212 Series

Part No.	Displacement in ³ /rev	Flow		Max Pressure			Max Speed rpm	Dimensions			
		@1725 RPM GPM	@3450 RPM GPM	Continuous PSI	Intermittent PSI	Peak PSI		A		B	
								in	mm	in	mm
AP21245D880	.269	1.888	3.776	3600	4000	4300	4000	3.48	88.5	1.67	42.5
AP21265D880	.391	2.745	5.489	3600	4000	4300	4000	3.60	91.5	1.73	44.0
AP21285D880	.513	3.601	7.202	3600	4000	4300	4000	3.72	94.5	1.79	45.5
AP21211D880	.677	4.752	9.504	3600	4000	4300	4000	3.88	98.5	1.87	47.5
AP21215D880	.921	6.465	12.930	3600	4000	4300	3500	4.11	104.5	1.99	50.5
AP21219D880	1.172	8.227	16.454	3000	3500	3700	3500	4.35	110.5	2.11	53.5
AP21222D880	1.355	9.511	19.023	2600	3000	3300	3000	4.52	115	2.18	55.5

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