



GEAR PUMPS



Product Range

Marzocchi gear pumps are available in three different groups (1A, 2A, 3A). Different pump displacements within each group, ranging between 0.083 cu. in./rev and 3.170 cu. in./rev, can be obtained by changing the thickness of the gear tooth band.

Within the same group, different flanges, shafts, inlet and pressure ports are available.

The following items are also available (consult factory).

- pumps with integrated maximum pressure valve
- hi-pressure pumps
- bi-rotational pumps
- hydraulic motors (both uni-directional and bi-directional)
- modular multiple pumps.

Gear pumps, especially Marzocchi gear pumps, are very versatile thanks to the wide range of available operating speeds. Maximum values are indicated

in product tables and vary according to the different models, whereas minimum values are divided by groups and are shown in Table A.

Special Version

The following special-use models are available (consult factory).

V– hi-temperature or special fluid

TR– inlet port backpressure up to max. 90 psi absolute

W– low lubricating fluids (groups 1, 2 and 3 only)

VW– low lubricating fluids working at high temperatures or special fluids

Refer to Table B to aid in selecting the pump best suited to your needs.

Please call our Sales Department for your application requirements and any special use not included in this catalog. Marzocchi's twenty years of experience

TABLE A

Group	Minimum Rotation Speed (rpm)
1A - 2A	500
3A	400

TABLE B

For values under the aforementioned ones, uniformity of the gear pumps' performance (i.e. - hydro-mechanical and volumetric efficiency) cannot be ensured.

Type	Fluid Composition	Max Pressure (PSI)	Max Speed (RPM)	Temperature (°F)
Standard	mineral oil based hydraulic fluid to ISO-DIN	see product tables	see product tables	5-176
V	mineral oil based hydraulic fluid to ISO-DIN	see product tables	see product tables	14-230
W	water glycol and water emulsion in oil max 50% of water	1500	1000	max 140
VW	glycol water, phosphoric	1500	1000	14-230

How to Order

1A		D		4		AC		Port Type		RO	
Frame Size		Rotation				Shaft Types				Options	
1A=SAE AA 2A=SAE A 3A=SAE B		D=Right hand S=Left hand				AC=Straight keyed 1A=1/2" dia. 2A=5/8" dia. 3A=7/8" dia.		AS= Splined 1A=9 tooth 2A=9 tooth 3A=13 tooth		1A-2A Omit=SAE Straight Thread 3A Omit=SAE Flange Port 3A STP=SAE Straight Thread RO= High Pressure (Standard)	
Frame	Code	Pump Rev's	Motor	Frame	Code	Pump Rev's	Motor	Frame	Code	Pump Rev's	Motor
1A	2	1.3cc (0.083cu.in)	-	2A	9	6.3cc (0.389cu.in)	-	3A	33	22.5cc (1.321cu.in)	-
	3	2.0cc (0.125cu.in)	-		10	7.0cc (0.428cu.in)	Yes		40	26.4cc (1.585cu.in)	-
	4	2.7cc (0.167cu.in)	Yes		13	9.5cc (0.584cu.in)	Yes		50	33.7cc (2.025cu.in)	Yes
	5	3.4cc (0.209cu.in)	Yes		16	11.3cc (0.701cu.in)	Yes		60	39.4cc (2.378cu.in)	-
	6	4.1cc (0.250cu.in)	Yes		20	14.0cc (0.857cu.in)	Yes		66	42.7cc (2.642cu.in)	Yes
	7	5.1cc (0.313cu.in)	-		25	17.8cc (0.973cu.in)	Yes		80	51.4cc (3.170cu.in)	Yes
	9	6.1cc (0.376cu.in)	-		30	20.8cc (1.285cu.in)	Yes				

NOTE: WITH VESCORS' POLICY OF CONSTANTLY IMPROVING ITS PRODUCTS, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.



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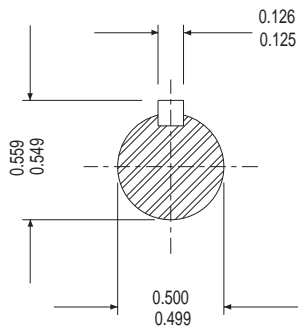
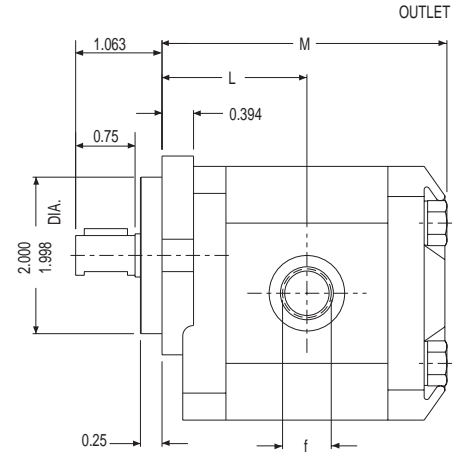
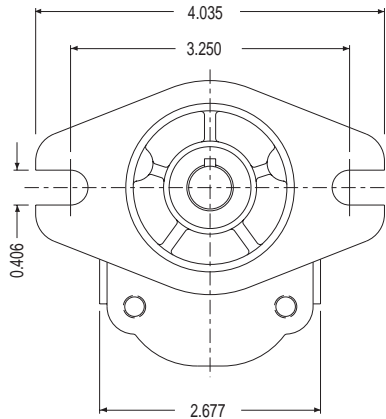
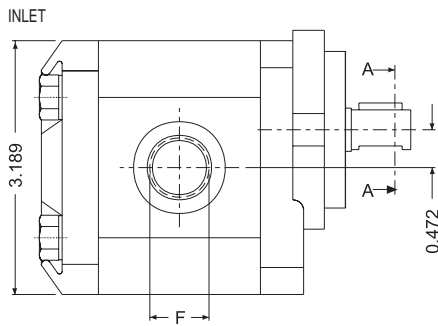
Series 1A R0



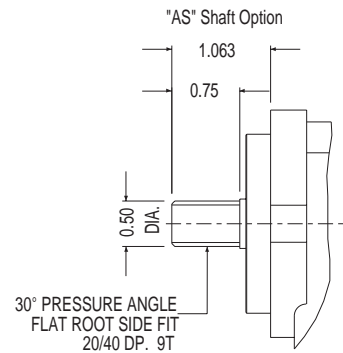
Features

1. Mounting flange 50-2 (SAE AA) in compliance with (SAE J744c)
2. "F" and "f" ports are machined in compliance with threaded port with o-ring seal in truncated housing SAE J1926/1 (ISO 11926-1)

Options: • "AS": splined shaft machined in compliance with ANSI B92.1a.



Section A-A



Vescor Part No.	Displacement in ³ /rev	Flow		Max Pressure			Max Speed rpm	Dimensions			
		@1725 rpm GPM	@ 3450 rpm GPM	P ₁ PSI	P ₂ PSI	P ₃ PSI		M IN	L IN	F UNF-2B	f UNF-2B
1AD2ACRO	0.083	0.623	1.247	3600	4000	4200	6000	3.228	1.654	3/4-16	9/16-18
1AD3ACRO	0.125	0.935	1.870	3600	4000	4200	6000	3.307	1.693	3/4-16	9/16-18
1AD4ACRO	0.167	1.247	2.494	3600	4000	4200	5000	3.386	1.732	3/4-16	9/16-18
1AD5ACRO	0.209	1.558	3.117	3400	3800	4000	5000	3.465	1.772	3/4-16	9/16-18
1AD6ACRO	0.250	1.870	3.740	3400	3800	4000	4000	3.543	1.811	3/4-16	9/16-18
1AD7ACRO	0.313	2.338	4.675	3200	3600	3800	3500	3.661	1.870	3/4-16	9/16-18
1AD8ACRO	0.376	2.805	5.611	3200	3600	3800	3000	3.780	1.983	3/4-16	9/16-18

P1=max. continuous pressure P2- max. intermittent pressure P3=max. peak pressure