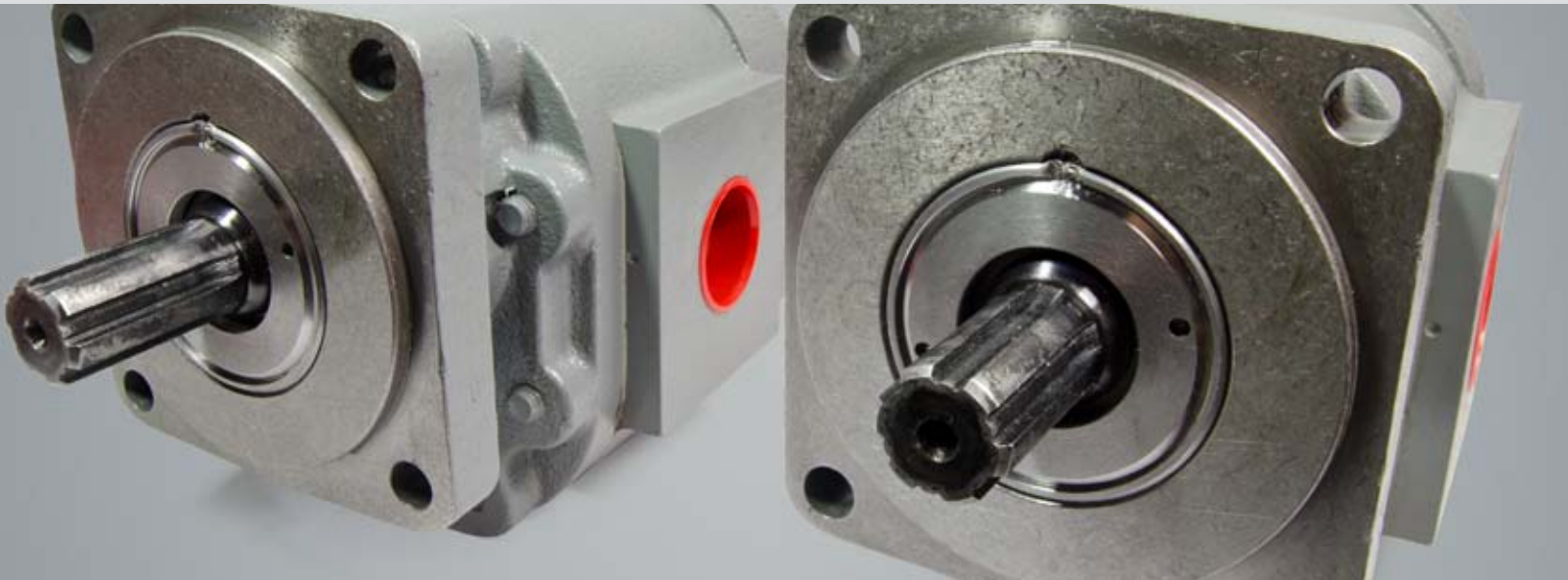


Genuine Metaris MH37 Series Gear Pumps

Bearing Style Gear Pumps & Motors



Performance When You Need it Most

Genuine Metaris MH37 series bearing pumps & motors are available in 9 different gear sizes with a variety of mounting flanges, shaft configurations and porting options. Multi-section units, piggyback designs, dowelled assemblies & flow dividers are all also available. With ductile iron housings, these pumps offer pressure ratings as high as 2500 psi for the most demanding of applications. The MH series are perfect alternatives to other gear pump products from Commercial®/Parker® and Muncie®.

- Suitable for a variety of applications
- Multiple displacements and options available
- Heavy Duty Roller Bearing Design
- Dowelled and Rugged Cast Iron Construction
- Pressure Balanced Wear Plates
- Pressures up to 2500 psi
- Multiple Bearing Carrier Options
- Variety of Mounting Flange and Shaft Options
- Speeds up to 2400 rpm
- Multiple Porting Options
- High Strength Steel Gear & Shaft Sets
- Alternatives for Commercial®/Parker® and Muncie® gear products



MH37 Series Gear Pump & Motor

MODEL CODE BREAKDOWN

Repeat for Tandem Units

1
2
3
4
5
6
7
8
9
6
7
10
MHP - 37 - X - 1 - 78 - MA - AB - 10 - 10 - FP - * - * - *

Type ¹

MHP = Pump
MHM = Motor

Unit ²

X = Single or Tandem Unit w/ a Continental Shaft

Shaft End Cover ³

- 1 = Pump w/o Shaft Bearing (Clockwise Rotation)
- 2 = Pump w/o Shaft Bearing (Counter-clockwise Rotation)
- 3 = Pump w/o Shaft Bearing (Double Rotation)
- 7 = Motor w/ Shaft Bearing & 1/4" Drain Port
- 8 = Motor w/ Double Shaft Bearing & 1/4" Drain Port
- 9 = Motor w/ Shaft Bearing & No Drain Port

Shaft End Cover ⁴

- 11 = Pad Mount
- 42 = SAE 4-Bolt "B" Mount (Drain Location @ 1 o'clock position)
- 45 = SAE 4-Bolt "B" Mount (Drain Location @ 12 o'clock position)
- 78 = SAE 4-Bolt "C" Mount
- 81 = Round Flange 6-Bolt 3.99 Pilot
- 98 = SAE 2-Bolt "C" Mount

Port End Cover ⁵

NPT Codes

Single Units	Tandem Units	Port Size		A	B
		Left	Right		
BA BI	BY BU	None	None	n/a	n/a
CA CI	CY CU	None	3/4"	1.43	n/a
FA FI	FY FU	3/4"	None	n/a	1.43
GA GI	GY GU	3/4"	3/4"	1.43	1.43
DA DI	DY DU	None	1"	1.43	n/a
JA JI	JY JU	1"	None	n/a	1.43
KA KI	KY KU	1"	3/4"	1.43	1.43
HA HI	HY HU	3/4"	1"	1.43	1.43
LA LI	LY LU	1"	1"	1.43	1.43

↑ ↑ ↑ ↑
With Support Studs
Without Support Studs

Orientation is viewed from the shaft end

O-ring Ports Codes

Single Units	Tandem Units	Port Size		A	B
		Left	Right		
MA MI	MY MU	3/4"	3/4"	1.43	1.43
NA NI	NY NU	None	3/4"	1.43	n/a
PA PI	PY PU	3/4"	None	n/a	1.43

↑ ↑ ↑ ↑
With Support Studs
Without Support Studs

Orientation is viewed from the shaft end

Connecting Shaft ¹⁰

For connecting tandem units
1 = Connecting Shaft - Multiple Units

Bearing Carriers ⁹

See technical catalog for options

Shaft Type ⁸

- 02 = 1.1247 Dia. Keyed Shaft
- 03 = 6 Tooth Spline 1.1096 Dia. x 2-1/8" Ext.
- 06 = .966 Dia. 6 Tooth Spline
- 07 = SAE "C" 14 Tooth Spline 1.25 Dia.
- 08 = 1.250 Dia. Keyed Shaft
- 10 = 1.1235 Dia. 6 Tooth Spline Shaft
- 11 = SAE "C" Keyed 1.249 Dia.
- 25 = SAE "B" 13 Tooth Spline .875" Dia.
- 30 = SAE "B" Keyed .88" Dia. 1/4" x 3/8" x 1" Key
- 38 = .8745 Dia. Keyed 1-7/16" Ext. x 1-1/4" Key
- 73 = 1.249 Dia. Keyed, Drilled & Tapped x 1-1/2"

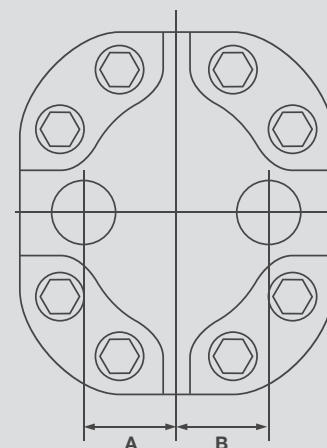
Gear Size ⁷

Code / Displacement (in³/r)

07	10	12	15	17	20	22	25	30
(2.25)	(3.00)	(3.75)	(4.50)	(5.25)	(6.00)	(6.75)	(7.50)	(9.00)

Gear Housing ⁶

See technical catalog for options



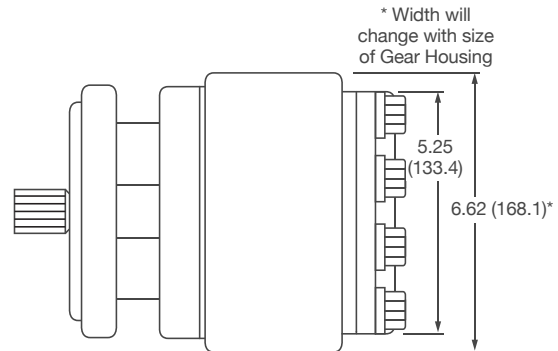
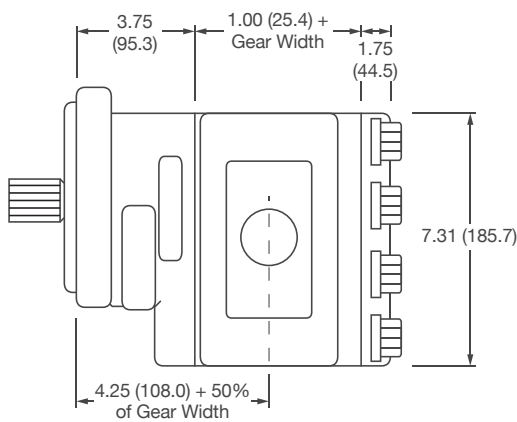
SPECIFICATIONS

GEAR WIDTH		DISPLACEMENT		MAX PRESSURE		MAX PRESSURE (DOWELLED)		WEIGHT
		IN ³ /REV	(CM ³ /REV)	PSI	BAR	PSI	BAR	LBS (KGS)
.07	3/4"	2.25	(36.9)	2000	(138)	2500	(172)	54 (24)
1.00	1"	3.00	(49.2)	2000	(138)	2500	(172)	56 (25)
1.25	1-1/4"	3.75	(61.5)	2000	(138)	2500	(172)	58 (26)
1.50	1-1/2"	4.50	(73.7)	2000	(138)	2500	(172)	60 (27)
1.75	1-3/4"	5.25	(86.0)	2000	(138)	2500	(172)	62 (28)
2.00	2"	6.00	(98.3)	2000	(138)	2500	(172)	65 (29)
2.25	2-1/4"	6.75	(110.6)	2000	(138)	2500	(172)	68 (31)
2.50	2-1/2"	7.50	(122.9)	2000	(138)	2500	(172)	71 (32)
3.00	3"	9.00	(147.5)	2000	(138)	2500	(172)	78 (35)

DIMENSIONS

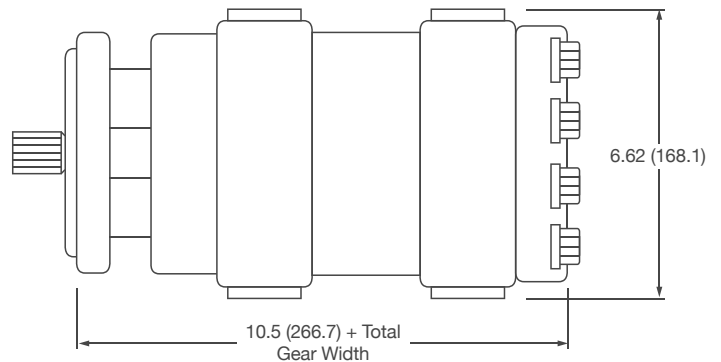
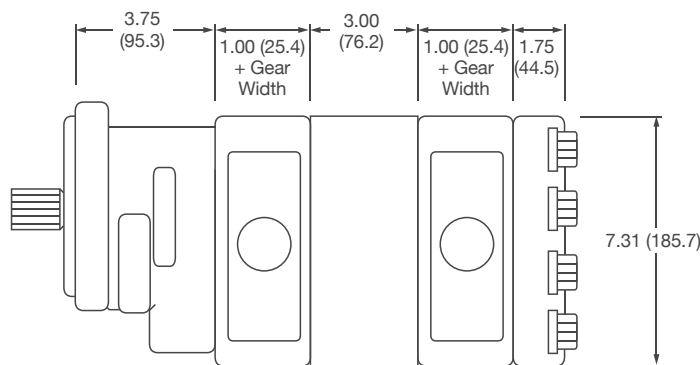
Single Unit

* Shaft dimension will change with the type of shaft used.



Multiple Unit

* Shaft dimension will change with the type of shaft used.

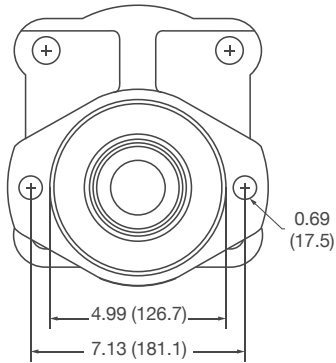


Dimensions are in inches (millimeters).

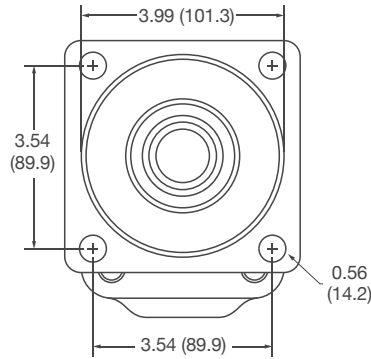
MH37 Series Gear Pump & Motor

SHAFT COVER DIMENSIONS

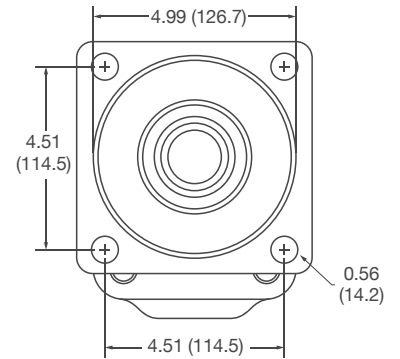
2-Bolt "C" Mount



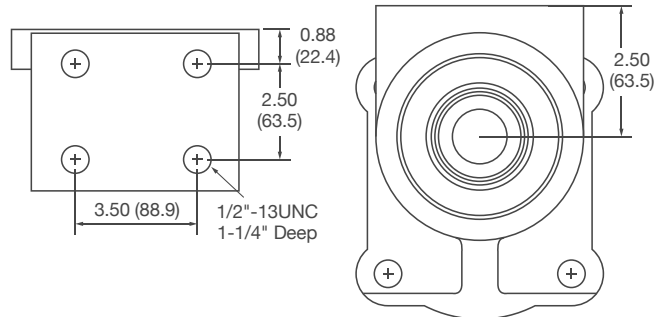
4-Bolt "B" Mount



4-Bolt "C" Mount



Pad Mount



Dimensions are in inches (millimeters).



Hydralex Global Corporate
48175 Gratiot Ave
Chesterfield, MI 48051
Toll Free: 800.422.4279
Tel: 586.949.4240
www.hydralex.com

Hydralex Global - Michigan	Tel: 586.949.4240
Hydralex Global - Mississippi	Tel: 601.469.1987
Hydralex Global - ON, Canada	Tel: 416.638.6000
Hydralex Global - Washington	Tel: 253.604.0400
Hydralex Global - Tennessee	Tel: 901.794.2462

sales@ahx1.com
sales@metarisusa.com
sales@metaris.com
sales@h-r-d.com
sales@flinthydrostatics.com



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