

Genuine Metaris MH315 Series Gear Pumps

Bushing Style Gear Pumps & Motors



Performance When You Need it Most

Genuine Metaris MH315 series bushing pumps & motors are available in 7 different gear sizes with a variety of mounting flanges, shaft configurations and porting options. Multi-section units, piggyback designs & dowelled assemblies are all also available. With ductile iron housings, these pumps offer pressure ratings as high as 3500 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 Sleeve Bushing Design
- Dowelled and Rugged Cast Iron Construction
- Pressure Balanced Wear Plates
- Pressures up to 3500 psi
- Multiple Bearing Carrier Options
- Variety of Mounting Flange and Shaft Options
- Speeds up to 3000 rpm
- Multiple Porting Options
- High Strength Steel Gear & Shaft Sets
- Alternatives for Commercial®/Parker® and Muncie® gear products



MH315 Series Gear Pump & Motor

MODEL CODE BREAKDOWN

Repeat for Tandem Units

1 2 3 4 5 6 7 8 9 6 7 10
MHP - 315 - A - 1 - 93 - AL - AB - 10 - 65 - CJ - * - * - *

Type ¹

MHP = Pump
 MHM = Motor

Unit ²

A = Single Unit
 B = Tandem Unit
 L = Unit w/ Extended Studs

Shaft End Cover ³

1 = Pump w/o Shaft Bearing (Clockwise Rotation)
 2 = Pump w/o Shaft Bearing (Counter-clockwise Rotation)
 4 = Pump w/ Shaft Bearing (Clockwise Rotation) (Code 490 Only)
 5 = Pump w/ Shaft Bearing (Counter-clockwise Rotation) (Code 590 Only)
 9 = Motor w/o Shaft Bearing (Bi-Rotational)

Shaft End Cover ⁴

93 = SAE 2-Bolt "A" Mount
 96 = SAE 2-Bolt "B" Mount

Port End Cover ⁵

Unported

		Port Size	
		In	Out
BI		None	None

Side Ported - NPT Codes

CW	CCW	Port Size	
		In	Out
AJ	JA	1-1/4"	1"
AK	KA	1-1/4"	3/4"
AL	LA	1"	1"
AM	MA	1"	3/4"
AR	RA	3/4"	3/4"

Orientation is viewed from the shaft end

Motor - Side Ported - NPT

		Port Size	
		In	Out
DN		3/4"	3/4"
DM		1"	1"
DQ		1/2"	1/2"

Side Ported - SAE O-ring

CW	CCW	Port Size	
		In	Out
FB	BF	1-1/4"	1"
FC	CF	1-1/4"	7/8"
FG	GF	1-1/4"	3/4"
FJ	JF	1-1/4"	5/8"
FL	LF	1"	1"
FV	VF	1"	7/8"
FW	WF	1"	3/4"
FX	XF	1"	5/8"
FY	YF	7/8"	7/8"
FZ	ZF	7/8"	3/4"
BC	CB	7/8"	5/8"
BG	GB	7/8"	1/2"
BJ	JB	3/4"	3/4"
BL	LB	3/4"	5/8"
BN	NB	3/4"	1/2"
BV	VB	1-1/4"	None
BW	WB	1"	None
BX	XB	7/8"	None
BY	YB	3/4"	None
BZ	ZB	None	1"
PD	DP	None	7/8"
PE	EP	None	3/4"
PM	MP	None	5/8"
PN	NP	None	1/2"

Orientation is viewed from the shaft end

Motor - Side Ported - SAE O-ring

		Port Size	
		In	Out
VN		1"	1"
VR		3/4"	3/4"
VQ		1/2"	1/2"

Rear Ported - SAE O-ring

CW	CCW	Port Size	
		In	Out
UC	CU	1-1/4"	1"
UF	FU	1-1/4"	7/8"
UN	NU	1-1/4"	3/4"
UD	DU	1"	1"
UP	PU	1"	7/8"
UQ	QU	1"	3/4"
UR	RU	1"	5/8"
LN	NL	7/8"	7/8"
LP	PL	7/8"	3/4"
LQ	QL	7/8"	5/8"
LR	RL	3/4"	3/4"
LS	SL	3/4"	5/8"
LT	TL	3/4"	1/2"

Orientation is viewed from the shaft end

Motor - Rear Ported - SAE O-ring

		Port Size	
		In	Out
RN		1"	1"
RQ		3/4"	3/4"
RS		1/2"	1/2"

Motor - Rear Ported - NPT

		Port Size	
		In	Out
RX		1"	1"
RY		3/4"	3/4"
RZ		1/2"	1/2"

Connecting Shaft ¹⁰

For connecting tandem units
 1 = Connecting Shaft - Multiple Units

Bearing Carriers ⁹

See technical catalog for options

Shaft Type ⁸

65 = SAE "B" 13 Tooth Spline .875" Dia. Type 2
 66 = SAE "B" Keyed .88" Dia. 1/4" x 3/8" x 1" Key Type 2
 96 = SAE "A" 9 Tooth Splined .625 Dia.
 97 = SAE "A" Keyed

Gear Size ⁷

Code / Displacement (in³/r)

03 (.47)	05 (.62)	06 (.78)	07 (.93)	08 (1.09)	10 (1.24)	11 (1.40)
12 (1.55)	13 (1.71)	15 (1.86)	16 (2.02)	17 (2.17)	18 (2.33)	20 (2.48)

Gear Housing ⁶

Code	Port Size		
	In	Out	
AB	None	None	Pump
EB	None	None	Motor

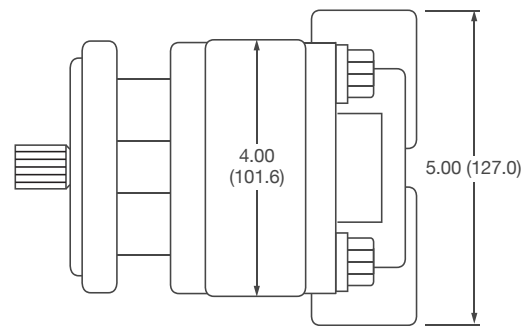
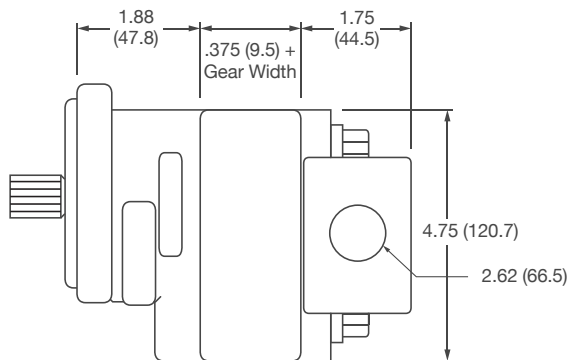
SPECIFICATIONS

GEAR WIDTH		DISPLACEMENT		MAX PRESSURE		WEIGHT
		IN ³ /REV	(CM ³ /REV)	PSI	BAR	LBS (KGS)
.05	1/2"	.62	(10.2)	3500	(241)	16 (7)
.07	3/4"	.93	(15.2)	3500	(241)	17 (8)
1.00	1"	1.24	(20.3)	3500	(241)	18 (8)
1.25	1-1/4"	1.55	(25.4)	3500	(241)	19 (7)
1.50	1-1/2"	1.86	(30.5)	3300	(228)	20 (9)
1.75	1-3/4"	2.17	(35.6)	2900	(200)	21 (10)
2.00	2"	2.48	(40.6)	2500	(172)	22 (10)

DIMENSIONS

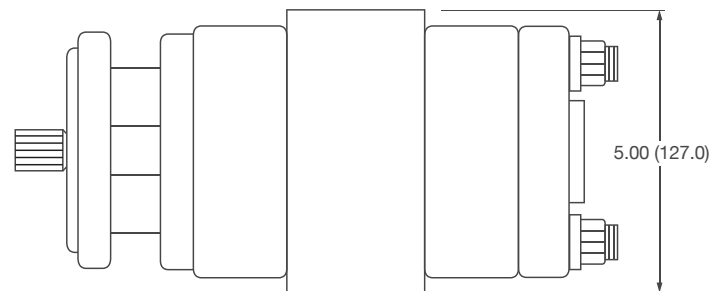
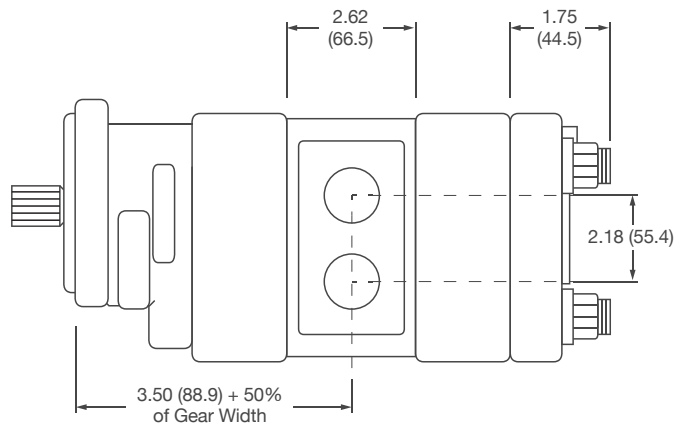
Single Unit

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



Multiple Unit

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

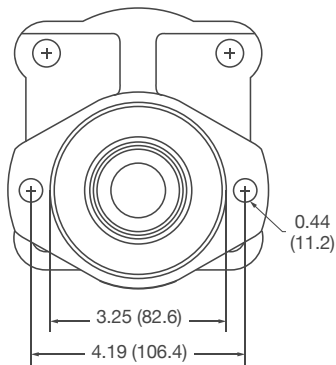


Dimensions are in inches (millimeters).

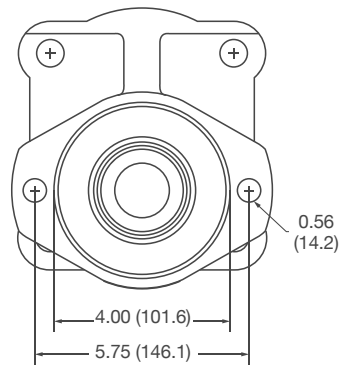
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SHAFT COVER DIMENSIONS

2-Bolt "A" Mount



2-Bolt "B" Mount



Dimensions are in inches (millimeters).



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