

# Genuine Metaris MH30/31 Series Gear Pumps

Bearing Style Gear Pumps & Motors



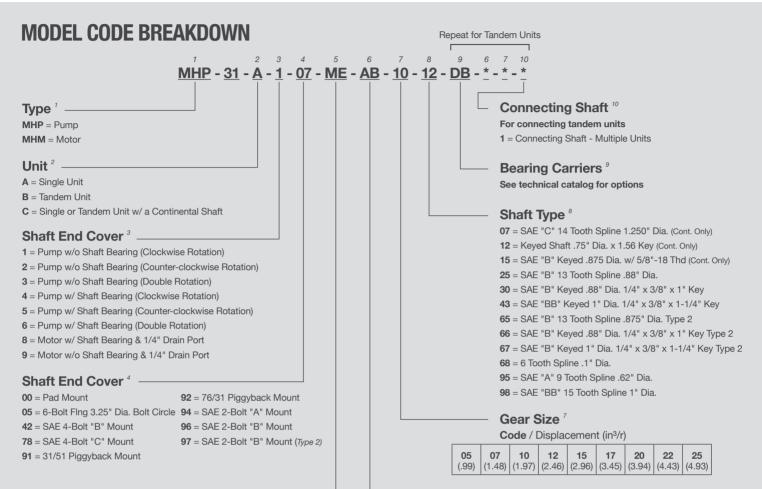
## Performance When You Need it Most

Genuine Metaris MH30/31 series bearing 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 & flow dividers are all also available. With ductile iron housings, these pumps offer pressure ratings as high as 3000 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 3000 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



## MH30/31 Series Gear Pump & Motor



#### Port End Cover <sup>5</sup>

NPT Codes	PT Codes					
Single	Tandem	Port	Size	Δ	в	
Units	Units	Left	Right	A	D	
BE   BY	BI   BY	None	None	n/a	n/a	
KE   KY	KI   KY	3/4"	None	n/a	1.25	
LE   LY	LI   LY	None	3/4"	1.25	n/a	
ME   MY	MI   MY	3/4"	3/4"	1.25	1.25	

With Support Studs
Without Support Studs

Orientation is viewed from the shaft end

#### **O-ring Codes**

Single	Tandem	Port Size		Α	в
Units	Units	Left	Right	A	В
GU	GU	1-1/4"	1"	1.38	1.38
HU	HU	1"	1-1/4"	1.38	1.38
TU	TU	1-1/4"	1"	1.38	1.38
XU	XU	1"	1-1/4"	1.38	1.38

Orientation is viewed from the shaft end

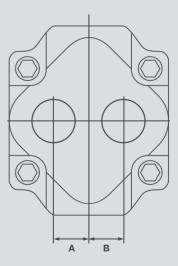
#### ORB Codes

Single	Tandem	Port	Size	Α	в
Units	Units	Left	Right	A	В
CE CY	CI   CY	3/4"	None	n/a	1.25
CA CO	CU CO	3/4"	None	n/a	1.38
DE   DY	DI   DY	None	3/4"	1.25	n/a
DA   DO	DU   DO	None	3/4"	1.25	n/a
FE   FY	FI   FY	3/4"	3/4"	1.25	1.25
JA   BO	JU   BO	3/4"	3/4"	1.38	1.38
GE   GY	GI   GY	1"	3/4"	1.25	1.38
KA	KU	1"	3/4"	1.38	1.38
HE   HY	HI   HY	3/4"	1"	1.38	1.25
LA	LU	3/4"	1"	1.38	1.38
MA YO	MU   YO	1"	None	n/a	1.38
RA   RO	SU   RO	None	1"	1.38	n/a
JE   JY	JI   JY	1"	1"	1.38	1.38
ZA   ZO	ZU   ZO	1"	1"	1.38	1.38
	<b>▲ ▲</b>		:h Suppo :hout Sup		

Orientation is viewed from the shaft end

#### Gear Housing <sup>6</sup>

See technical catalog for options

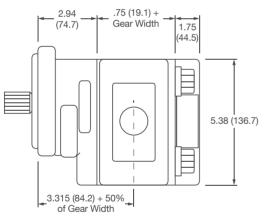


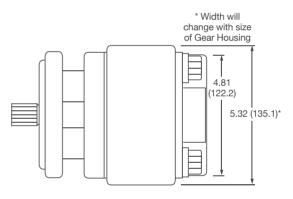
### **SPECIFICATIONS**

GEAR WIDTH		DISPLACEMENT		MAX PR	MAX PRESSURE		MAX PRESSURE (DOWELLED)	
		IN <sup>3</sup> /REV	(CM <sup>3</sup> /REV)	PSI	BAR	PSI	BAR	LBS (KGS)
.05	1/2"	.99	(16.1)	2500	(172)	3000	(207)	30 (14)
.07	3/4"	1.48	(24.2)	2500	(172)	3000	(207)	31 (14)
1.00	1"	1.97	(32.3)	2500	(172)	3000	(207)	32 (15)
1.25	1-1/4"	2.46	(40.4)	2500	(172)	3000	(207)	33 (15)
1.50	1-1/2"	2.96	(48.4)	2500	(172)	3000	(207)	34 (15)
1.75	1-3/4"	3.45	(56.5)	2250	(145)	2500	(172)	35 (16)
2.00	2"	3.94	(64.6)	2250	(145)	2500	(172)	36 (16)

### **DIMENSIONS**

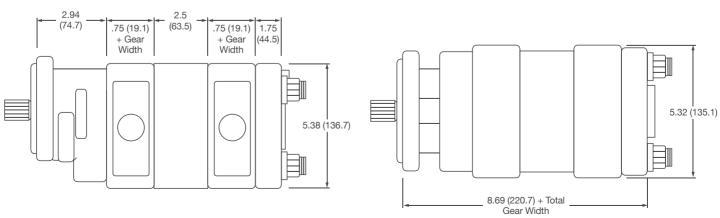
Single Unit \* Shaft dimension will change with the type of shaft used.





### **Multiple Unit**

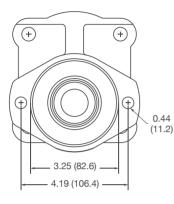
\* Shaft dimension will change with the type of shaft used.

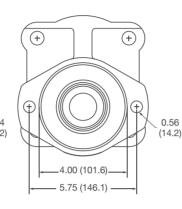


## MH30/31 Series Gear Pump & Motor

### SHAFT COVER DIMENSIONS

2-Bolt "A" Mount





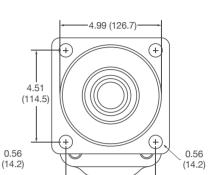
2-Bolt "B" Mount

3.54 (89.9)

3.54 (89.9)

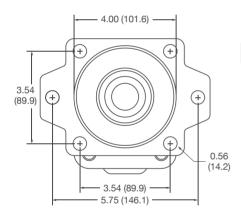
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4-Bolt "B" Mount

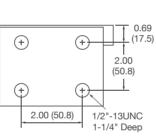


4-Bolt "C" Mount

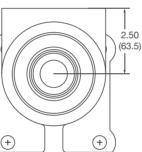
2/4-Bolt "B" Mount



Dimensions are in inches (millimeters).

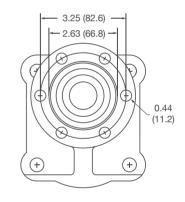


Pad Mount



6-Bolt Round Mount

-4.51 (114.5)-





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