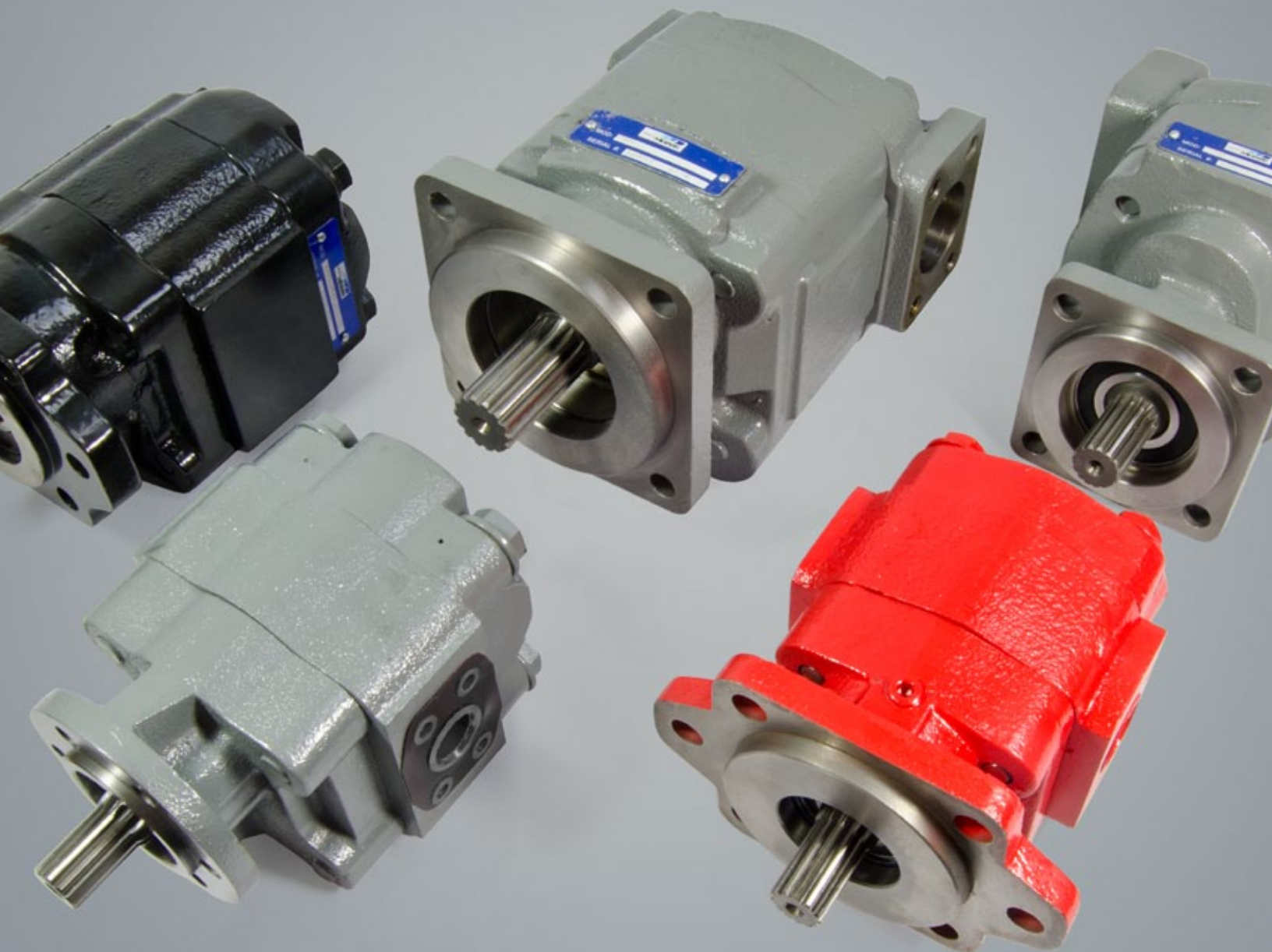


# Genuine Metaris Gear Product Technical Catalog

Pumps & Components - MH Series Bearing & Bushing Style

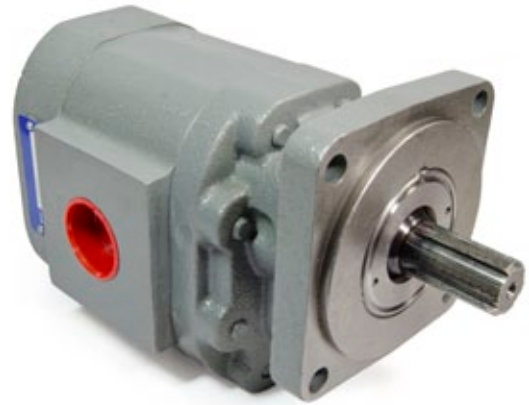


# MH37 Series Bearing Pump

## Features

Metaris Bearing Pumps & Motors are available in 9 models 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.

- Heavy Duty Roller Bearing Design
- Dowelled and Rugged Cast Iron Construction
- Pressure Balanced Wear Plates
- Working Pressure up to 2500 psi
- Multiple Bearing Carrier Options
- Multiple Porting Options
- High Strength Steel Gear & Shaft Sets



## Specifications

MH37		DISPLACEMENT		MAX PRESSURE		MAX PRESSURE (DOWELLED)	
GEAR WIDTH		IN <sup>3</sup> /REV	(CM <sup>3</sup> /REV)	PSI	BAR	PSI	BAR
.07	3/4"	2.25	(36.9)	2000	(138)	2500	(172)
1.00	1"	3.00	(49.2)	2000	(138)	2500	(172)
1.25	1-1/4"	3.75	(61.5)	2000	(138)	2500	(172)
1.50	1-1/2"	4.50	(73.7)	2000	(138)	2500	(172)
1.75	1-3/4"	5.25	(86.0)	2000	(138)	2500	(172)
2.00	2"	6.00	(98.3)	2000	(138)	2500	(172)
2.25	2-1/4"	6.75	(110.6)	2000	(138)	2500	(172)
2.50	2-1/2"	7.50	(122.9)	2000	(138)	2500	(172)
3.00	3"	9.00	(147.5)	2000	(138)	2500	(172)

# MH37 Series Bearing Pump

## Pump Performance Data

SPEED RPM	GEAR WIDTH (GPM/LPM)							
	1"	1-1/4"	1-1/2"	1-3/4"	2"	2-1/4"	2-1/2"	3"
600	4.5 / 17	6.5 / 25	8.5 / 32	10.5 / 40	12.5 / 47	14 / 53	16.5 / 62	20 / 76
1200	12.5 / 47	16.5 / 62	20 / 76	24 / 91	28 / 106	31.5 / 119	35.5 / 134	43 / 163
1800	20 / 76	26 / 98	31.5 / 119	37.5 / 142	43.5 / 165	49.5 / 187	55 / 208	66.5 / 252
2100	24 / 91	31 / 117	37.5 / 142	44.5 / 168	51 / 193	58 / 219	64.5 / 244	78 / 295
2400	28 / 106	36 / 136	43.5 / 165	51 / 193	59 / 223	67 / 254	74.5 / 282	90 / 341

## Motor Performance Data

SPEED RPM	GEAR WIDTH									
	1"		1-1/2"		2"		2-1/2"		3"	
	INPUT FLOW (GPM/LPM)	OUTPUT TORQUE (IN/LBS / NM)	INPUT FLOW (GPM/LPM)	OUTPUT TORQUE (IN/LBS / NM)	INPUT FLOW (GPM/LPM)	OUTPUT TORQUE (IN/LBS / NM)	INPUT FLOW (GPM/LPM)	OUTPUT TORQUE (IN/LBS / NM)	INPUT FLOW (GPM/LPM)	OUTPUT TORQUE (IN/LBS / NM)
900	10.5 / 40	750 / 8.5	15 / 57	1200 / 13.5	20 / 76	1650 / 19	24.5 / 93	2125 / 24.5	28 / 106	2670 / 30.5
1000	16 / 61	745 / 8.5	23 / 87	1180 / 13.5	31 / 117	1630 / 18.5	38 / 144	2115 / 24	44 / 167	2635 / 30
1400	21 / 79	730 / 8.5	31 / 117	1165 / 13.5	41 / 155	1610 / 18.5	51 / 193	2100 / 24	60 / 227	2595 / 30
1800	26.5 / 100	700 / 8	39 / 147	1140 / 13	52 / 197	1590 / 18	64 / 242	2075 / 24	76 / 288	2560 / 29.5

**Note:** Input Flow @ 2000psi | Output Torque @ 140 bar

## MH37 PL Chart

SHAFT STYLE	TWO PIECE
SAE "BB" Spline	7,750
SAE "BB" Keyed	5,550
SAE "B" Spline	5,050
SAE "B" Keyed	3,700
SAE "C" Spline	11,950
SAE "C" Keyed	11,950
Connecting Shaft	11,950

Values based on using anti-wear type petroleum oil 150 SUS at 100° F (ISO rating of 32 cSt at 38° C) and 0 psi inlet pressure.

# MH37 Series Bearing Pump

## 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 <sup>1</sup>

MHP = Pump  
MHM = Motor

### Unit <sup>2</sup>

X = Single or Tandem Unit w/ a Continental Shaft

### Shaft End Cover <sup>3</sup>

- 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

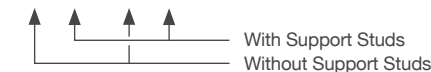
### Shaft End Cover <sup>4</sup>

- 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 <sup>5</sup>

#### NPT Codes

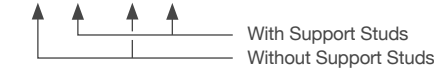
Single Units	Tandem Units	Port Size		A	B
		Left	Right		
BA   BI	BY   BU	None	None	n/a	n/a
CA   CI	CY   CU	None	3/4"	1.43	n/a
FA   FI	FY   FU	3/4"	None	n/a	1.43
GA   GI	GY   GU	3/4"	3/4"	1.43	1.43
DA   DI	DY   DU	None	1"	1.43	n/a
JA   JI	JY   JU	1"	None	n/a	1.43
KA   KI	KY   KU	1"	3/4"	1.43	1.43
HA  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



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



Orientation is viewed from the shaft end

### Connecting Shaft <sup>10</sup>

For connecting tandem units  
1 = Connecting Shaft - Multiple Units

### Bearing Carriers <sup>9</sup>

See page 73 for Bearing Carrier options

### Shaft Type <sup>8</sup>

- 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"

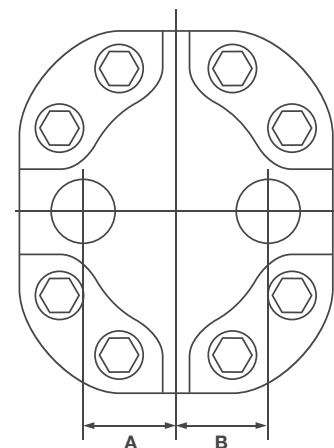
### Gear Size <sup>7</sup>

Code / Displacement (in<sup>3</sup>/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 <sup>6</sup>

See following pages for Gear Housing options



# MH37 Series Bearing Pump

## Model Code Breakdown Cont.

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

- Orientation is viewed from the shaft end
- NPT Porting is NOT RECOMMENDED for pressures above 1500 psi
- Ports marked with an 'x' are recommended porting - for all other porting please consult the factory
- Shaded Cells are good for Motor units

#### NPT Codes

Code	Port Size		5	7	10	12	15	17	20	22	25	30
	Left	Right										
AB	None	None	x	x	x	x	x	x	x	x	x	
EC	1/2"	1/2"		x	x	x						
AR	3/4"	None		x	x	x	x	x				
AF	None	3/4"		x	x	x	x	x				
ER	3/4"	3/4"		x	x	x	x	x	x	x	x	x
ET	3/4"	1"			x	x	x	x	x	x	x	x
EU	3/4"	1-1/4"					x	x	x	x	x	x
IJ	1"	3/4"			x	x	x	x	x	x	x	x
IQ	1-1/4"	3/4"					x	x	x	x	x	x
AT	1"	None			x	x	x	x	x	x	x	x
AH	None	1"			x	x	x	x	x	x	x	x
IL	1"	1"			x	x	x	x	x	x	x	x
IM	1"	1-1/4" *					x	x	x	x	x	x
IN	1"	1-1/2"							x	x	x	x
IS	1-1/4" *	1"					x	x	x	x	x	x
IY	1-1/2"	1"							x	x	x	x
AV	1-1/4" *	None					x	x	x	x	x	x
AJ	None	1-1/4" *					x	x	x	x	x	x
IT	1-1/4"	1-1/4"					x	x	x	x	x	x
IU	1-1/4"	1-1/2" *							x	x	x	x
IZ	1-1/2"	1-1/4"							x	x	x	x
JC	1-1/2"	1-1/2"							x	x	x	x
AW	1-1/2" *	None								x	x	x
AK	None	1-1/2" *								x	x	x

\* Low Pressure Inlet Porting

#### BSPP Codes

Code	Port Size		5	7	10	12	15	17	20	22	25	30
	Left	Right										
AB	None	None	x	x	x	x	x	x	x	x	x	
EM	None	3/4"			x	x	x					
EA	3/4"	None			x	x	x					
EJ	3/4"	3/4"			x	x	x	x				
EK	3/4"	1"			x	x						
YU	3/4"	1-1/4"			x	x	x	x				
EN	1"	3/4"			x	x						
YW	1-1/4"	3/4"			x	x	x	x				
EP	1"	None					x	x	x			
IH	None	1"					x	x	x			
EQ	1"	1"					x	x	x			
ES	1"	1-1/4" *					x					
IR	1-1/4" *	1"					x	x	x			
ID	1-1/2"	1"									x	
NJ	1-1/4" *	None					x	x	x			
JB	None	1-1/4" *									x	
IE	1-1/4"	1-1/4"									x	
IQ	1-1/4"	1-1/2" *										x
IS	1-1/2"	1-1/4"										x
JV	1-1/2"	1-1/2"										x

\* Low Pressure Inlet Porting

# MH37 Series Bearing Pump

## Model Code Breakdown Cont.

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

- Orientation is viewed from the shaft end
- NPT Porting is NOT RECOMMENDED for pressures above 1500 psi
- Ports marked with an 'x' are recommended porting - for all other porting please consult the factory
- Shaded Cells are good for Motor units

#### ORB Codes

Code	Port Size		5	7	10	12	15	17	20	22	25	30
	Left	Right										
AB	None	None	x	x	x	x	x	x	x	x	x	
UC	None	1/2"		x	x	x	x					
UP	1/2"	None		x	x	x	x					
YC	1/2"	1/2"		x	x	x	x					
UD	None	5/8"		x	x	x	x					
UQ	5/8"	None		x	x	x	x					
YK	5/8"	5/8"		x	x	x	x					
YD	1/2"	5/8"		x	x	x	x					
YJ	5/8"	1/2"		x	x	x	x					
YL	5/8"	3/4"			x	x	x	x				
YQ	3/4"	5/8"			x	x	x	x	x			
YS	3/4"	7/8"				x	x	x				
UF	None	3/4"			x	x	x	x				
UR	3/4"	None			x	x	x	x	x			
YR	3/4"	3/4"			x	x	x	x	x			
UG	None	7/8"				x	x	x	x			
US	7/8"	None				x	x	x	x			
YZ	7/8"	7/8"				x	x	x	x			
YT	3/4"	1"			x	x	x	x	x			
VJ	1"	3/4"			x	x	x	x	x			
YX	7/8"	3/4"				x	x	x	x			
VC	7/8"	1"					x	x	x			
VK	1"	7/8"					x	x	x	x	x	
UH	None	1"					x	x	x	x	x	
UT	1"	None					x	x	x	x	x	
VL	1"	1"					x	x	x	x	x	
UJ	None	1-1/4"						x	x	x	x	
UV	1-1/4"	None						x	x	x	x	
VT	1-1/4"	1-1/4"						x	x	x	x	x
VM	1"	1-1/4"							x	x	x	x
VS	1-1/4"	1"							x	x	x	x
VU	1-1/4"	1-1/2"							x	x	x	x
VZ	1-1/2"	1-1/4"							x	x	x	x
UK	None	1-1/2"									x	x
UW	1-1/2"	None									x	x
WC	1-1/2"	1-1/2"									x	x

\* Low Pressure Inlet Porting

#### Split Flange Codes

Code	Port Size		5	7	10	12	15	17	20	22	25	30
	Left	Right										
AB	None	None	x	x	x	x	x	x	x	x	x	
OC	None	1/2"		x	x	x	x					
OP	1/2"	None		x	x	x	x					
ZC	1/2"	1/2"			x	x	x					
OF	None	3/4"			x	x	x	x	x	x	x	x
OR	3/4"	None			x	x	x	x	x	x	x	x
ZR	3/4"	3/4"			x	x	x	x	x	x	x	x
OH	None	1"			x	x	x	x	x	x	x	x
OT	1"	None				x	x	x	x	x	x	x
RL	1"	1"					x	x	x	x	x	x
OJ	None	1-1/4"					x	x	x	x	x	x
OV	1-1/4"	None					x	x	x	x	x	x
RT	1-1/4"	1-1/4"						x	x	x	x	x
OK	None	1-1/2"						x	x	x	x	x
OW	1-1/2"	None						x	x	x	x	x
SC	1-1/2"	1-1/2"						x	x	x	x	x
OL	None	2"									x	x
OX	2"	None									x	x
SK	2"	2"									x	x
OM	None	2-1/2"										x
OY	2-1/2"	None										x
SQ	2-1/2"	2-1/2"										x
ZF	1/2"	3/4"			x	x	x	x				
ZP	3/4"	1/2"			x	x	x	x				
ZT	3/4"	1"				x	x	x	x	x	x	x
RJ	1"	3/4"				x	x	x	x	x	x	x
RM	1"	1-1/4"					x	x	x	x	x	x
RS	1-1/4"	1"					x	x	x	x	x	x
RQ	1-1/4"	3/4"					x	x	x	x	x	x
ZU	3/4"	1-1/4"					x	x	x	x	x	x
RU	1-1/4"	1-1/2"						x	x	x	x	x
RZ	1-1/2"	1-1/4"						x	x	x	x	x
SD	1-1/2"	2"								x	x	x
SH	2"	1-1/2"								x	x	x
RX	1-1/4"	2"									x	x
SG	2"	1-1/4"									x	x
SF	1-1/2"	2-1/2"										x
SN	2-1/2"	1-1/2"										x
RN	1"	1-1/2"						x	x	x	x	x
RY	1-1/2"	1"						x	x	x	x	x











\* Low Pressure Inlet Porting

# MH37 Series Bearing Pump









## Model Code Breakdown Cont.

### Bearing Carriers <sup>9</sup>









*NPT Codes*

In	Out	CW (Left)	CCW (Right)
None	None	 B	 B
1-1/2"	None	 TL	 TJ
1-1/2"	1"	 XS	 XT
1"	1"	 DH	 HD
1-1/4"	1-1/4"	 BF	 FB











*SAE Split Flange Codes*

In	Out	CW (Left)	CCW (Right)
1-1/2"	None	 FP	 FT
1-1/2"	1"	 XV	 XW
1"	1"	 LP	 PL
1-1/4"	1-1/4"	 GL	 LG

*SAE Split Flange Codes*

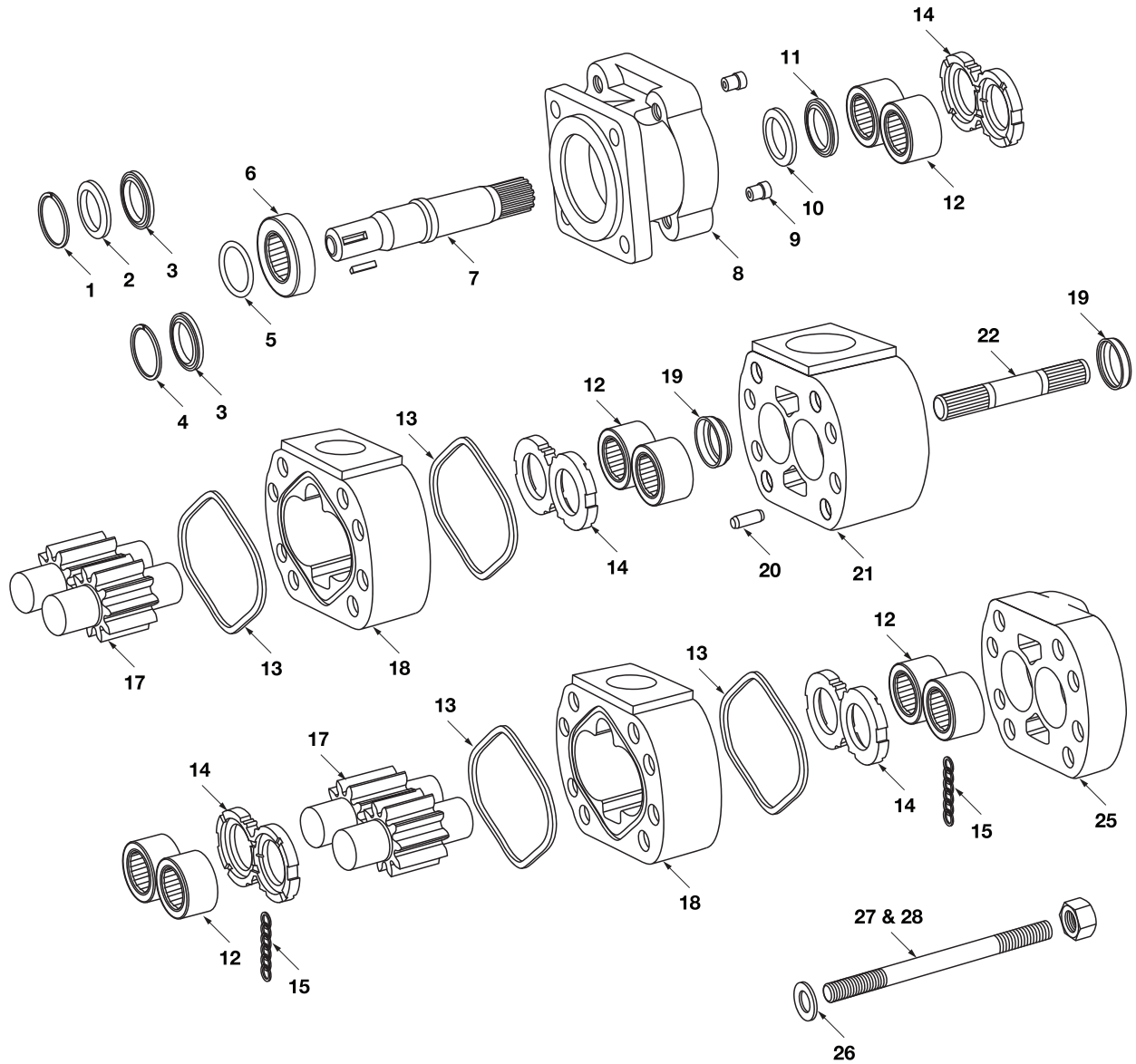
In	Out	CW (Left)	CCW (Right)
1-1/2"	None	 NG	 NK
1-1/2"	1"	 XX	 XZ
1"	1"	 QD	 DQ
1-1/4"	1-1/4"	 NV	 VN

*Motors Only Codes*

In	Out	Dual	
None	None	 B	
1"	1"	 TT	NPT
1-1/4"	1-1/4"	 VV	NPT
1-1/2"	1-1/2"	 WW	NPT
1"	1"	 CC	SAE O-Ring
1-1/4"	1-1/4"	 BB	SAE O-Ring
1-1/2"	1-1/2"	 FF	SAE O-Ring
1"	1"	 LL	SAE Split Flange
1-1/4"	1-1/4"	 MM	SAE Split Flange
1-1/2"	1-1/2"	 NN	SAE Split Flange

# MH37 Series

## Parts Breakdown





# MH37 Series

## Parts Breakdown

DRAWING NO.	DESCRIPTION	METARIS #	ALTERNATE #
1	RETAINER RING	A37-60-50000	391-2581-008
2a	SHAFT SEAL RETAINER	A37-60-10000	391-2584-015
2b	SEAL RETAINER	A37-60-30002	391-2581-004
3a	DOUBLE LIP SEAL (PUMP)	X83-11-03508	391-2883-052
3b	MOTOR SHAFT SEAL	X84-36-03510	391-2883-094
4	SEAL AND BEARING RETAINER RING	A37-60-30001	391-2581-002
5a	SHAFT SEAL RETAINER O RING	X81-15-06904	391-2881-098
5b	SHAFT SEAL RETAINER O RING	X81-15-06904	391-2881-127
6	TAPERED ROLLER BEARING	X03-33-13576	391-0384-006
<b>Not Shown</b>	TAPERED BEARING SPACER	A37-92-59760	391-3381-008
7a	KEYED 1.1247" dia. (KEY SIZE 1/4 X 3/8 X 1 3/4) (TYPE 2) TYPE 1	A37-50-00151	305-1134-003
7b	6 Tooth Spline 1.109" dia. .275" tooth (TYPE 3) TYPE 1	A37-50-00791	305-1135-004
7c	KEYED .996" dia. (KEY SIZE 1/4" X 3/8" X 1 3/4") MALE THREAD (TYPE 4) TYPE 1	Special Order	305-1134-026
7d	6 Tooth Spline 1.120" dia. .275" tooth (TYPE 6) TYPE 1	Special Order	305-1134-005
7e	14-Tooth Spline 1.228" dia. 12/24 pitch -SAE C Spline (TYPE 7) TYPE 1	A37-50-00241	305-1134-001
7f	KEYED 1.125" dia. (KEY SIZE 1/4" X 3/8" X 1 3/4") (TYPE 8) TYPE1	A37-50-00144	305-1134-007
7g	KEYED 1.125" dia. (KEY SIZE 1/4" X 3/8" X 1 3/4") (TYPE 9) TYPE1	Special Order	305-1134-025
7h	6 Tooth Spline 1.1235" dia. .275" tooth GROOVED (TYPE 10) TYPE 1	Special Order	305-1134-022
7i	KEYED 1.249" dia. (KEY SIZE 5/16" X 15/32" X 1 1/2") (TYPE 11) TYPE 1	A37-50-00141	305-1134-008
7j	13 Tooth .858" dia. 16/32 pitch -SAE B Spline (TYPE 25) TYPE 1	Special Order	305-1134-010
7k	KEYED 1.250" dia. THREADED END (KEY SIZE 5/16" X 15/32" X 1 1/2") (TYPE 27) TYPE 1	A37-50-00147	305-1134-012
7l	SAE B KEYED 0.875" dia. (KEY SIZE 0.25" x 0.375" X 1" L) (TYPE 30) TYPE 1	Special Order	305-1134-013
7m	6 Tooth Spline 1.1248" dia. .309" tooth (TYPE 31) TYPE 1	Special Order	305-1134-021
7n	KEYED 1.249" dia. .250" hole (KEY 5/16" X 15/32" X 1 1/2") (TYPE 35) TYPE 1	A37-50-00149	305-1134-019
7o	12 Tooth Spline 1.0818" dia. (TYPE 36) TYPE 1	Special Order	305-1134-020
7p	8 Tooth Spline 1.641" dia. (TYPE 37) TYPE 2	Special Order	305-1134-024
7q	KEYED 1.25" dia. + Int. Thread 1/2" -13 Thd (double brg.) (TYPE 73) TYPE 2	A37-50-00142	305-1134-031
7r	1 1/4"-14 Tooth Spline -SAE C Spline (TYPE 75) TYPE 1	Special Order	305-1134-033
7s	Tang Drive 1.250" dia. (TYPE 78) TYPE 1	Special Order	305-1134-042
7t	KEYED 1.0937" dia. threaded (KEY SIZE 0.25"sq X 2"L) double brg. (TYPE 79) TYPE 2	Special Order	305-1134-037
7u	14 Tooth Spline 1.248" dia. 12/24 pitch (TYPE 85) TYPE 1	A37-50-00244	305-1134-039
7v	KEYED 1.125" dia. (KEY SIZE 1/4" X 1 3/4") (TYPE 86) TYPE 1	Special Order	305-1134-029
7w	KEYED 1.25" dia. + Int. Thread 1/2" -13 Thd (double brg.) (TYPE 87) TYPE 2	Special Order	305-1134-043
8a	37 S.E.C. PAD MOUNT PUMP TYPE 1 TYPE 111 / 211 / 311 / 911	A37-10-21100	305-5012-201
8b	37 S.E.C. 4 BOLT B MOUNT TYPE 1 TYPE 142 / 242 / 342 (4" or 101.6 mm pilot)	A37-10-21420	305-5031-204
8c	37 S.E.C. 4 BOLT SQUARE 3.999" PILOT TYPE 1 TYPE 177 / 277 / 377	Special Order	305-5031-206

# MH37 Series

## Parts Breakdown

DRAWING NO.	DESCRIPTION	METARIS #	ALTERNATE #
8d	37 S.E.C. 4 BOLT C MOUNT TYPE 1 TYPE 178 / 278 / 378 / 978 (5" or 127 mm pilot)	A37-10-21430	305-5031-201
8e	37 S.E.C. 6 BOLT ROUND 3.999" PILOT TYPE 1 TYPE 181 / 281 / 381 / 981	A37-10-21650	305-5041-201
8f	37 S.E.C. 2 BOLT C MOUNT TYPE 1 TYPE 198 / 298 / 398 / 998 (5" or 127 mm pilot)	A37-10-21230	305-5021-201
8g	37 S.E.C. PAD MOUNT WITH DRAIN @ 3 O'CLOCK TYPE 2 TYPE 411 / 511 / 611 / 811	A37-10-22100	305-5012-202
8h	37 S.E.C. 4 BOLT B 3.999" PILOT DRAIN @ 3 O'CLOCK TYPE 2 TYPE 442 / 542 / 642 / 842 (4" or 101.6 mm pilot)	A37-10-22420	305-5032-202
8i	37 S.E.C. 4 BOLT C PILOT WITH DRAIN @ 3 O'CLOCK TYPE 2 TYPE 478 / 578 / 678 / 878 (5" or 127 mm pilot)	A37-10-22430	305-5032-203
8j	37 S.E.C. 4 BOLT B PILOT DRAIN @ 2 O'CLOCK TYPE 1 TYPE 942 (4" or 101.6 mm pilot)	A37-10-21420	305-5031-204
8k	37 S.E.C. 4 BOLT B MOUNT DRAIN @ 12 O'CLOCK TYPE 1 TYPE 745 (4" or 101.6 mm pilot)	A37-10-41422	305-5032-413
8l	37 S.E.C. 4 BOLT C PILOT DRAIN @ 2 O'CLOCK TYPE 1 TYPE 778 (5" or 127 mm pilot)	A37-10-41430	305-5031-403
8m	37 S.E.C. 2 BOLT C PILOT DRAIN @ 2 O'CLOCK TYPE 1 TYPE 798 (5" or 127 mm pilot)	A37-10-41230	305-5021-401
8n	37 S.E.C. PAD MOUNT DRAIN @ 4 O'CLOCK TYPE 1 TYPE 711	A37-10-41100	305-5012-406
8o	37 S.E.C. 4 BOLT B MOUNT DRAIN @ 2 O'CLOCK TYPE 1 TYPE 742 (4" or 101.6 mm pilot)	A37-10-41421	305-5031-406
9a	CHECK VALVE	A00-75-11000	391-3681-001
9b	PRESSURE PLUG PUMP	X02-03-32110	391-2286-004
10	SHAFT BUSHING	X03-00-32835	391-0481-001
11	CONICAL SPRING	A37-95-00000	391-3581-172
<b>Not Shown</b>	CASE DRAIN PIPE PLUG	X02-03-22060	391-2282-056
12	ROLLER BEARING (Ø 2.322" O.D.)	X03-24-13859	391-0381-060
13	GEAR HOUSING GASKET	X85-11-12303	391-2884-023
14	BI-ROTATIONAL THRUST PLATE	A37-70-10000	391-2185-009
15	POCKET SEAL	X85-11-00002	391-2882-023
16	GEAR SPACER	n/a	391-3383-XXX
17	GEAR SET ONLY	A37-50-XX000	305-28XX-000
18	PUMP & MOTOR GEAR HOUSING	A37-32-XX000	305-80XX-100
19	BUSHING	X03-00-32836	391-0481-004
20	ROLL PIN	A00-94-30310	391-2084-020
21a	COMMON PASSAGE BEARING CARRIER	A37-40-20000	305-7000-100
21b	BLANK BEARING CARRIER	A37-40-00000	305-7300-100
22	CONNECT SHAFT	A37-50-00500	305-1133-001

**Note:** The **XX** shown in the part number is in place of the size - the true value must be placed into the part number when ordering parts.

For example: Gear set no. A37-50-XX000 changes to A37-50-15000 for 1.5" gear size  
Housing no. A37-32-XX000 changes to A37-32-15000 for a 1.5" housing size  
No porting sizes have been indicated all porting must be specified when ordering parts.

# MH37 Series

## Parts Breakdown

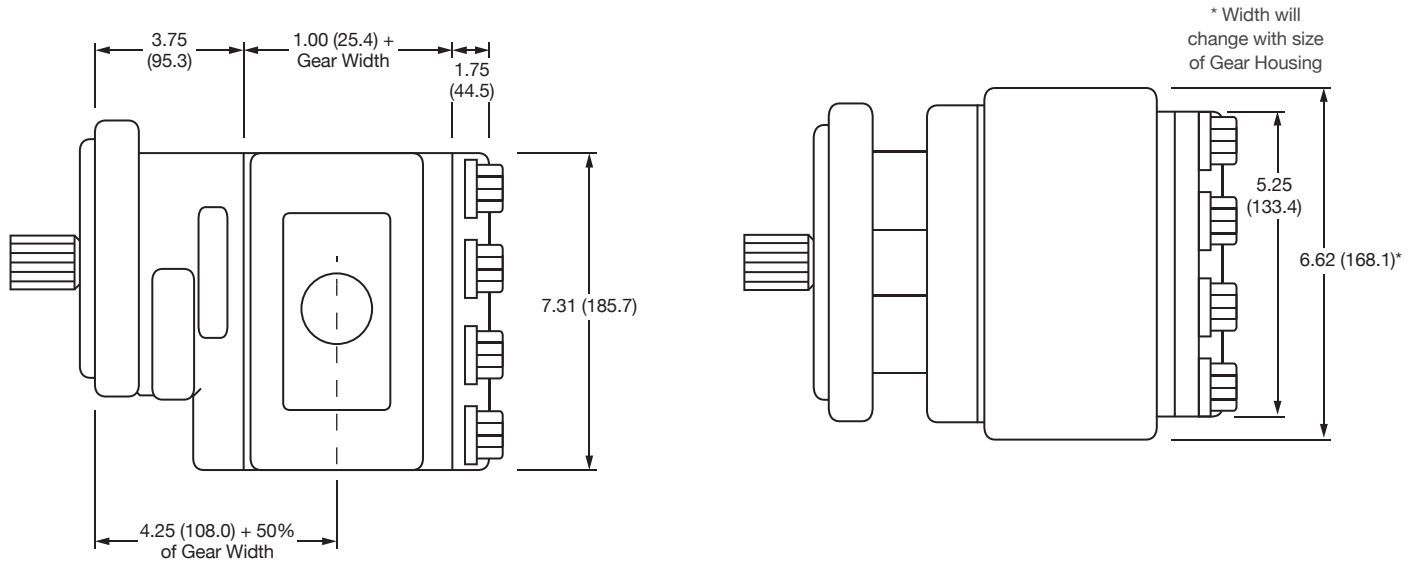
DRAWING NO.	DESCRIPTION	METARIS #	ALTERNATE #
23	TIE ROD	n/a	n/a
25	PORT END COVER	A37-22-00000	305-3000-100
26	FLAT WASHER (1/2")	X45-19-13005	391-3782-027
27	BOLTS / STUDS (1/2"-UNC)	See Fasteners Page	
28	HEX NUT (1/2"-UNC)	X42-11-13011	391-1451-051
Not Shown	SHAFT RET. SNAP RING	X05-02-31130	391-2685-012
Not Shown	.187" THICK SPACER FOR TYPE 2 SHAFTS	A37-92-28441	391-3383-012
Not Shown	.194" THICK SPACER FOR TYPE 2 SHAFTS	A37-92-28442	391-3383-013
Not Shown	DRIVE KEY TYPE 2 & 4 & 8 & 86 & 87 SHAFT	X01-01-61044	391-1781-020
Not Shown	DRIVE KEY TYPE 9 SHAFT	X01-01-61032	391-1781-021
Not Shown	DRIVE KEY TYPE 11 & 27 & 35 SHAFT	X01-01-81238	391-1781-045
Not Shown	DRIVE KEY TYPE 30 SHAFT	X01-01-61025	391-1781-025
Not Shown	DRIVE KEY TYPE 73 SHAFT	X01-01-81257	391-1781-008
Not Shown	DRIVE KEY TYPE 79 SHAFT	X01-02-60651	391-1781-037

# MH37 Series

## Dimensions

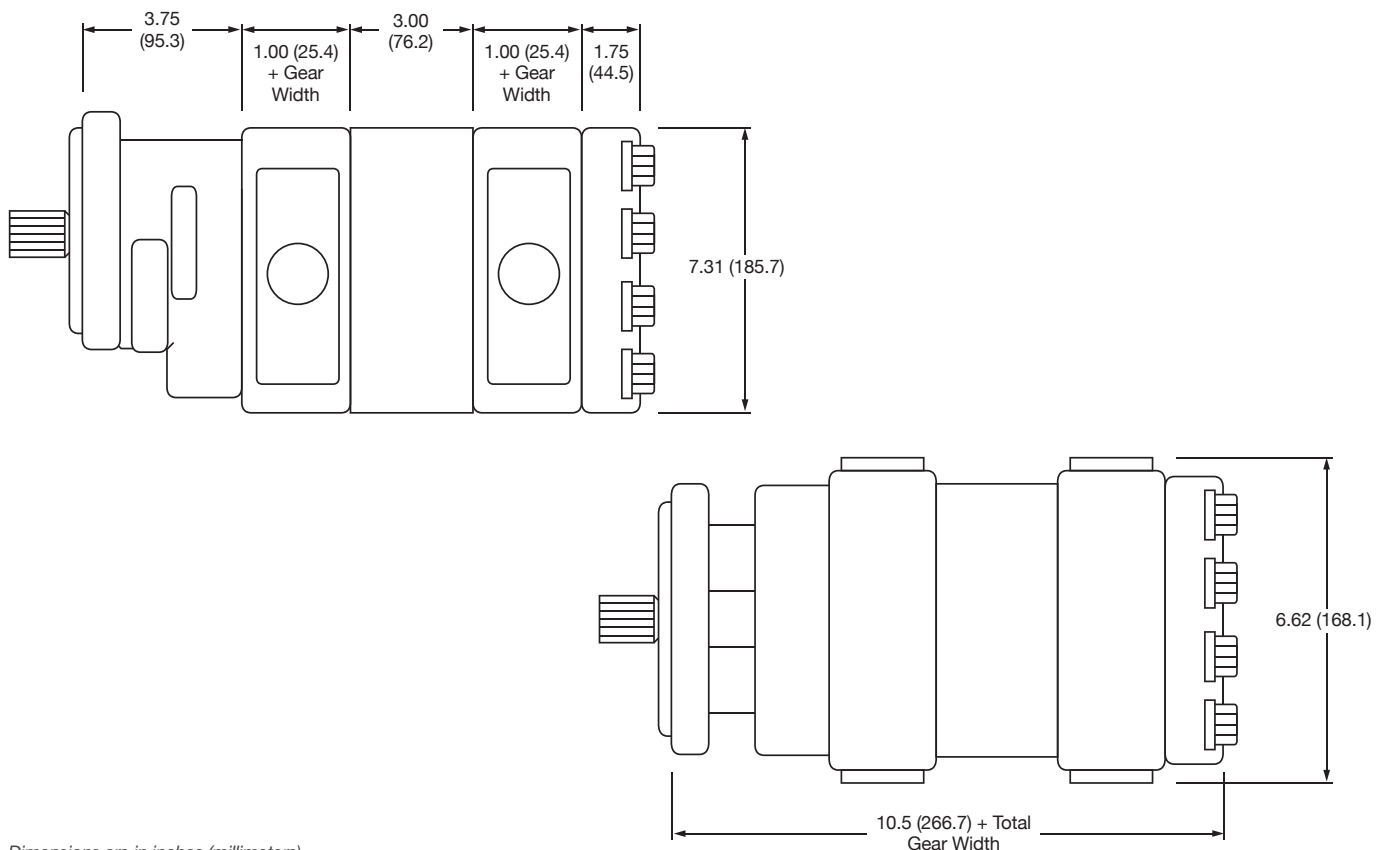
### Single Unit

\* 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).