

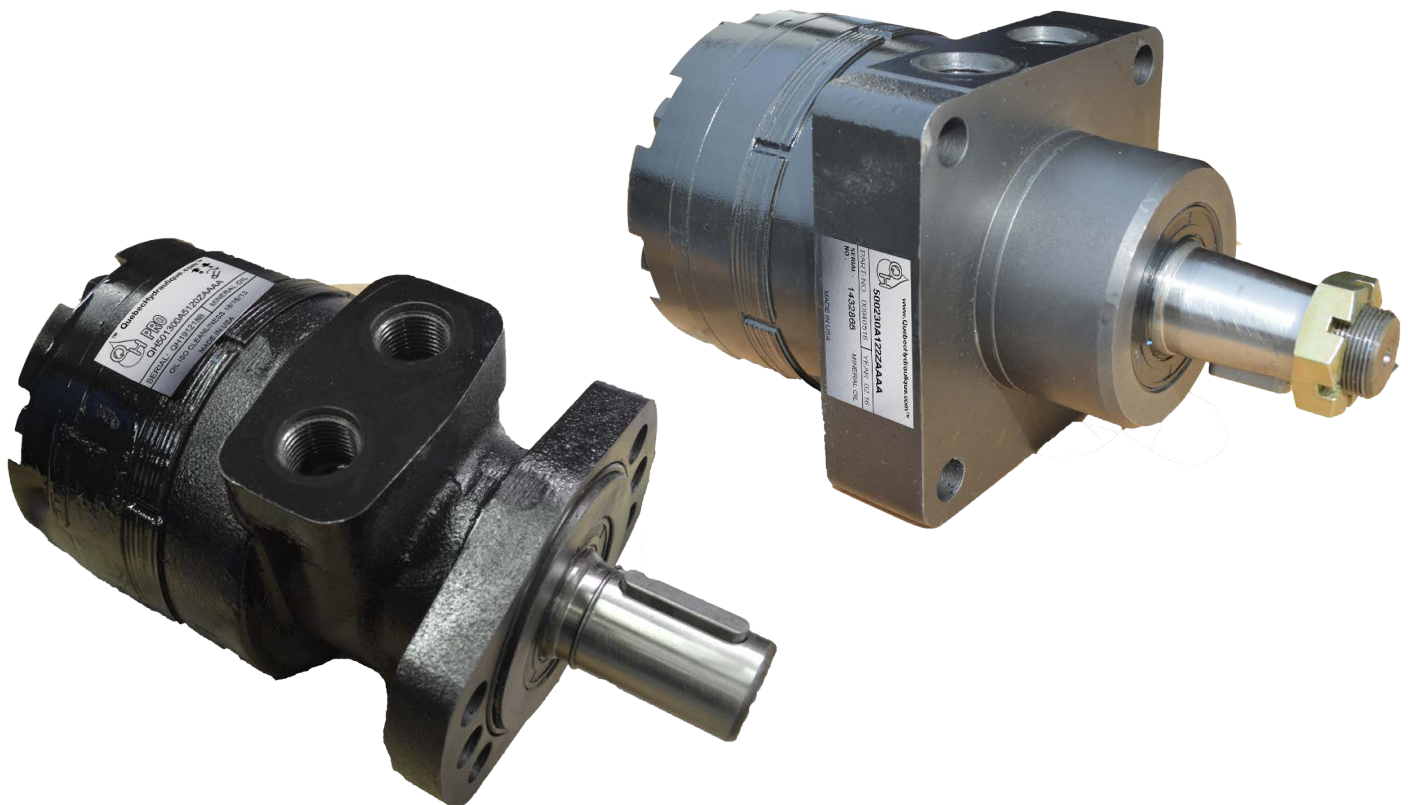


QHTM MOTEURS / MOTORS

ORBITAL GEROTOR GEROLOR

WHITE[®] STYLE

MOTEURS / MOTORS Low Speed, High Torque
QH500 Series





MOTEURS / MOTORS Low Speed, High Torque QH500 Series



MOTORS MOTEURS

QH500-SERIES

Benefits:

High Pressure Shaft Seal offers superior seal life and performance and eliminates need for case drain.

Heavy Duty Drive Link is very robust, receiving full flow lubrication during operation, providing long life.

Valve-In-Rotor Design provides cost effective, efficient distribution of oil and reduces overall motor length.

Pressure-Compensated Balance Plate improves the volumetric efficiency at low flows and high pressures.

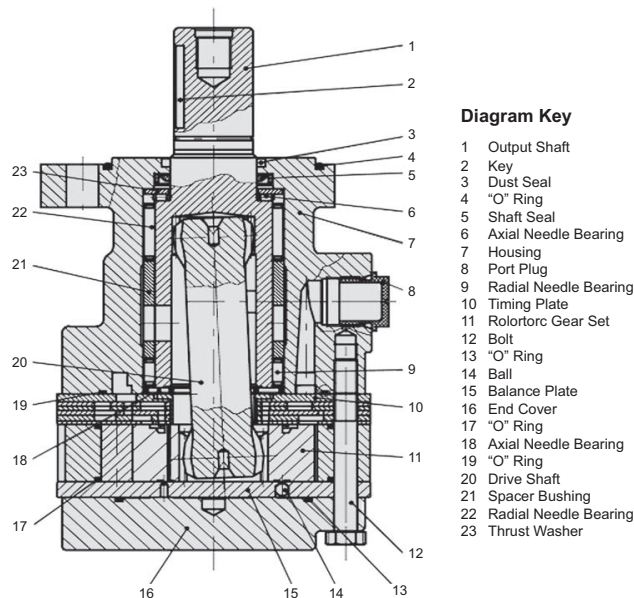


Diagram Key

- 1 Output Shaft
- 2 Key
- 3 Dust Seal
- 4 "O" Ring
- 5 Shaft Seal
- 6 Axial Needle Bearing
- 7 Housing
- 8 Port Plug
- 9 Radial Needle Bearing
- 10 Timing Plate
- 11 Rotor Gear Set
- 12 Bolt
- 13 "O" Ring
- 14 Ball
- 15 Balance Plate
- 16 End Cover
- 17 "O" Ring
- 18 Axial Needle Bearing
- 19 "O" Ring
- 20 Drive Shaft
- 21 Spacer Bushing
- 22 Radial Needle Bearing
- 23 Thrust Washer

Technical Specifications

Model		125	160	200	230	250	300	350	375	475	540	750
Displacement <i>in³/rev (cm³/rev)</i>		118 (7.20)	156 (9.52)	196 (11.96)	228 (13.91)	257 (15.68)	296 (18.08)	345 (21.05)	371 (22.63)	462 (28.18)	540 (32.94)	745 (45.45)
Max Speed <i>rpm</i>	Cont	360	375	330	290	290	250	220	200	160	140	100
	Int	490	470	425	365	350	315	270	240	195	170	120
Max Torque <i>in-lbf</i>	Cont	2876	3983	4691	5531	6195	7169	8009	8762	9602	8673	9293
	Int	3363	4646	5310	6284	6992	8231	9160	10089	10443	10974	10443
Max Differential <i>psi</i>	Cont	2973	2973	2973	2973	2973	2973	2973	2973	2538	2030	1523
	Int	3481	3481	3481	3481	481	3481	3481	3481	2756	2538	1740
Max Flow <i>gpm</i>	Cont	11.88	15.85	18.49	18.49	19.81	21.13	21.13	19.81	19.81	19.81	19.81
	Int	15.85	19.81	22.45	22.45	23.77	25.09	25.09	23.77	23.77	23.77	23.77
Weight		27.45	29	29.20	29.45	30.15	31	32	32.35	33.35	35.10	37.75

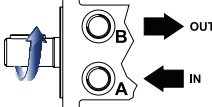
Continuous (Cont.) = maximum of continuous operation. Intermittent (Int.) = maximum operating range for 6 seconds per minute



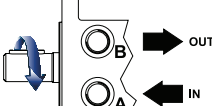
Model Code Breakdown

Series

QH500 - Standard Rotation, CCW (Viewed from shaft end)



QH501 - Rotation, CW (Viewed from shaft end)



The QH500/501 motors are bi-directional. For applications requiring the motor to rotate in only one direction, shaft seal life may be prolonged by pressurizing the A-Port.

Displacement

- 125 - 118 cm³/rev (7.2 in³/rev)
- 160 - 156 cm³/rev (9.5 in³/rev)
- 200 - 196 cm³/rev (11.9 in³/rev)
- 230 - 228 cm³/rev (13.9 in³/rev)
- 250 - 257 cm³/rev (15.7 in³/rev)
- 300 - 296 cm³/rev (18.1 in³/rev)
- 350 - 345 cm³/rev (21.1 in³/rev)
- 375 - 371 cm³/rev (22.6 in³/rev)
- 475 - 462 cm³/rev (28.2 in³/rev)
- 540 - 540 cm³/rev (32.9 in³/rev)
- 750 - 748 cm³/rev (45.6 in³/rev)

Miscellaneous Option

- AA - None
- AC - Featuring Rotor

Add-On Option

- A - Standard
- B - Lock Nut

Valve Cavity / Cartridge Option

- A - None

Paint

- A - Black
- B - Black, Unpainted Mounting Surface
- Z - No Paint

Shaft Options

- 02 - 1" 6B Spline
- 10 - 1" Straight
- 20 - 1-1/4" Straight
- 22 - 1-1/4" Tapered
- 23 - 14 Tooth Spline

Mount & Port Option

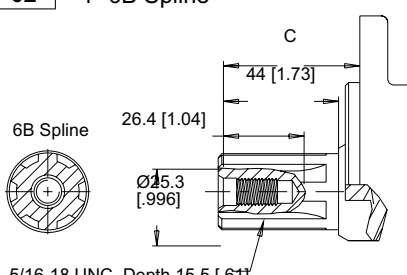
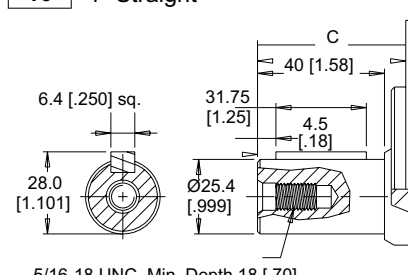
- A51 - 6-Hole, SAE -A/Magneto Mount, Aligned Ports, 7/8-14 UNF
- W31 - 4-Hole, Wheel Mount, Aligned Ports, 7/8-14 UNF

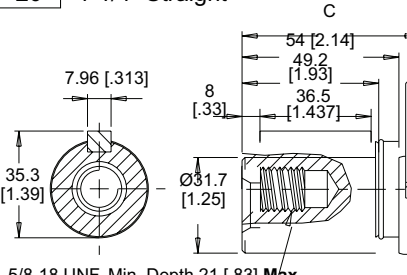
Use A51 for a replacement A31 4-bolt magneto mounting flange and for SAE-A 2 bolt mounts.

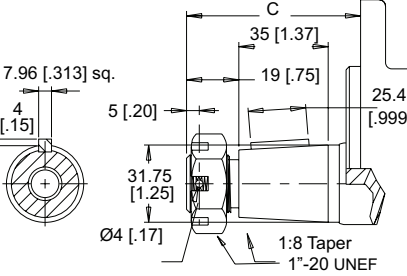
****Additional flange and drive shaft options are available! Contact our customer service team for more information.**

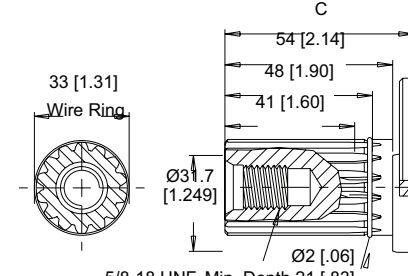
QH500/501 - 500 Series

Medium Duty Hydraulic Motor

02	1" 6B Spline
	
5/16-18 UNC, Depth 15.5 [.61]	5/16-18 UNC, Min. Depth 18 [.70]
Max. Torque: 678 Nm [6000 lb-in]	Max. Torque: 655 Nm [5800 lb-in]

20	1-1/4" Straight
	
5/8-18 UNF, Min. Depth 21 [.83] Max.	
Torque: 1200 Nm [10600 lb-in]	

22	1-1/4" Tapered
	
Slotted hex nut is standard on this shaft	
Max. Torque: 1200 Nm [10600 lb-in]	

23	14 Tooth Spline
	
5/8-18 UNF, Min. Depth 21 [.83]	
Max. Torque: 1200 Nm [10600 lb-in]	

From Mounting Flange to Shaft End		
Dimension C		
Shaft Code	Magneto Mount mm (in)	Wheel Mount mm (in)
02	50 (1.97)	91 (3.58)
10	50 (1.97)	91 (3.58)
20	61 (2.40)	103 (4.06)
22	65 (2.56)	107 (4.21)
23	61 (2.40)	103 (4.06)



MOTEURS / MOTORS Low Speed, High Torque QH500 Series

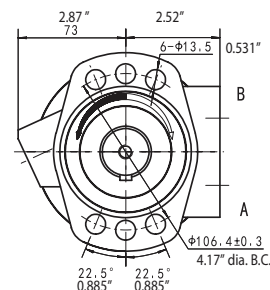
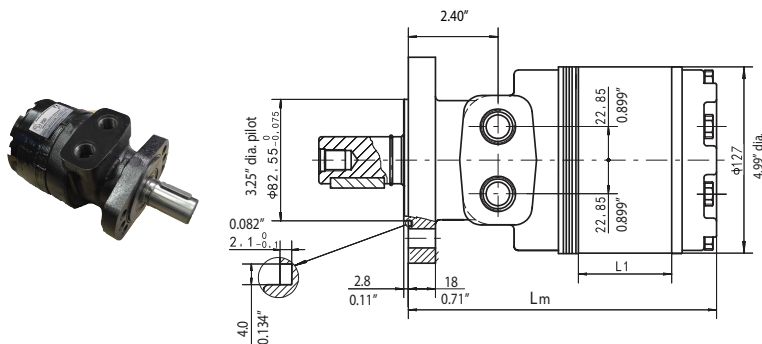


QH500/501 - 500 Series

Medium Duty Hydraulic Motor

A51 - Magneto Mount

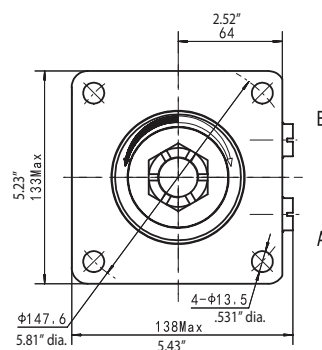
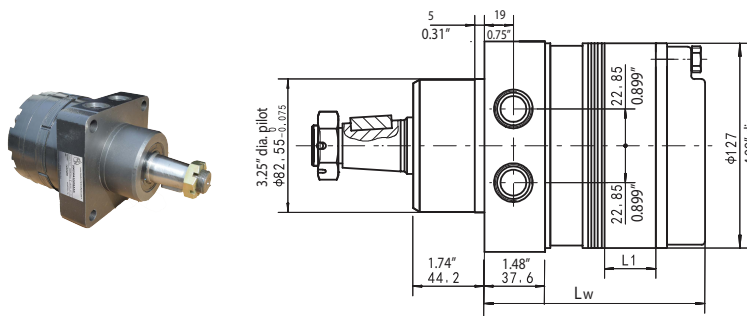
Port A, B Ports 7/8-14UNF



Model Size	125	160	200	230	250	300	350	375	475	540	750
Displacement cm ³ /rev (in ³ /rev)	118 (7.2)	156 (9.5)	196 (11.9)	228 (13.9)	257 (15.7)	296 (18.1)	345 (21.1)	371 (22.6)	462 (28.2)	540 (32.9)	745 (45.6)
L _m (mm), Magneto L _m (inches)	157 6.18"	160 6.30"	163.5 6.44"	166 6.54"	168.5 6.63"	172 6.77"	176 6.93"	178.5 7.03"	186 7.32"	194 7.64"	210 8.27"
L1 (mm) L1 (inches)	10.2 0.40"	13.5 0.53"	17 0.67"	19.5 0.77"	22 0.87"	25.4 1.00"	29.5 1.16"	31.8 1.25"	39.4 1.55"	47.3 1.86"	63.5 2.50"
Weight (lbs)	23.3	24.0	24.7	24.9	25.1	25.6	26.5	27.6	28.7	29.8	33

W31 - Wheel Mount

Port A, B Ports 7/8-14UNF



Model Size	125	160	200	230	250	300	350	375	475	540	750
Displacement cm ³ /rev (in ³ /rev)	118 (7.2)	156 (9.5)	196 (11.9)	228 (13.9)	257 (15.7)	296 (18.1)	345 (21.1)	371 (22.6)	462 (28.2)	540 (32.9)	745 (45.6)
L _w (mm), Wheel L _w (inches)	119 4.68"	122 4.80"	125.5 4.94"	128 5.04"	130.5 5.14"	134.5 5.30"	138 5.43"	140.5 5.53"	148 5.83"	156 6.14"	176 6.93"
L1 (mm) L1 (inches)	10.2 0.40"	13.5 0.53"	17 0.67"	19.5 0.77"	22 0.87"	25.4 1.00"	29.5 1.16"	31.8 1.25"	39.4 1.55"	47.3 1.86"	63.5 2.50"
Weight (lbs)	26.5	26.7	27.1	27.3	27.8	28.7	29.1	29.8	30.9	32.2	35.3