



whitedriveproducts



SERIES

125 -

126 -



LIGHT DUTY
Hydraulic Motor





OVERVIEW

The WM product line with spool valve design is an economical motor with enhanced rotor technology. Intended for light-duty applications, the WM series offers many advantages such as compact size, high speed, medium torque and extreme low weight. The WM series motors are used primarily in the mobile, industrial and agricultural markets.

FEATURES / BENEFITS

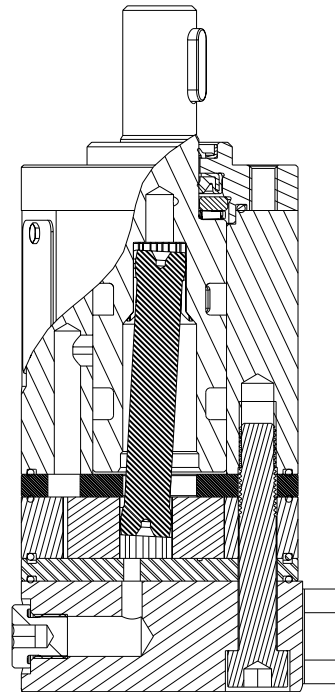
- Built-in check valves offer versatility and increased seal life.
- Bolt-on mounting flange relates to easy serviceability.
- Spool valve design gives superior performance and smooth operation over a wide speed and torque range.
- Enhanced rotor design provides smooth performance, compact volume and low weight.

TYPICAL APPLICATIONS

agriculture equipment, conveyors, carwashes, sweepers, food processing, grain augers, spreaders, feed rollers, augers, brush drives and more

SERIES DESCRIPTIONS

125/126 - Hydraulic Mini Motor
Standard



SPECIFICATIONS

CODE	Displacement cm ³ [in ³ /rev]	Max. Speed rpm		Max. Flow lpm [gpm]		Max. Torque Nm [lb-in]		Max. Pressure bar [psi]		
		cont.	inter.	cont.	inter.	cont.	inter.	cont.	inter.	peak
008	8.4 [0.5]	1864	2293	16 [4]	20 [5]	11 [97]	14 [124]	100 [1450]	140 [2030]	200 [2900]
012	13.1 [0.8]	1521	1871	20 [5]	25 [7]	17 [150]	22 [195]	100 [1450]	140 [2030]	200 [2900]
020	20.1 [1.2]	989	1229	20 [5]	25 [7]	26 [230]	34 [301]	100 [1450]	140 [2030]	200 [2900]
032	31.8 [1.9]	622	767	20 [5]	25 [7]	40 [354]	55 [487]	100 [1450]	140 [2030]	160 [2320]
040	40.2 [2.5]	495	620	20 [5]	25 [7]	49 [434]	64 [566]	100 [1450]	140 [2030]	160 [2320]

► Performance data is typical. Performance of production units varies slightly from one motor to another. Running at intermittent ratings should not exceed 10% of every minute of operation.



DISPLACEMENT PERFORMANCE

► Performance data is typical. Performance of production units varies slightly from one motor to another.

008		Pressure - bar [psi]			Max. Cont.		Max. Inter.		
		30 [435]	50 [725]	70 [1015]	100 [1450]	120 [1740]	140 [2030]		
8 cm ³ [0.5 in ³] / rev		Torque - Nm [lb-in], Speed rpm						Intermittent Ratings - 10% of Operation	
Max. Max. Inter. Cont.	Flow - lpm [gpm]	2 [0.5]	3 [25] 226	5 [44] 219	7 [62] 196	10 [89] 166	11 [97] 141	14 [124] 117	237
		4 [1]	3 [25] 476	5 [44] 455	8 [71] 435	10 [89] 402	12 [106] 384	12 [106] 351	474
		8 [2]		5 [44] 915	7 [62] 893	10 [89] 850	12 [106] 816	14 [124] 778	949
		12 [3]		5 [41] 1390	7 [62] 1366	11 [97] 1328	12 [106] 1292	14 [124] 1268	1423
		16 [4]		4 [35] 1864	7 [58] 1847	10 [89] 1815	12 [106] 1792	13 [115] 1771	1898
		20 [5]		4 [35] 2293	6 [53] 2277	9 [80] 2272	12 [106] 2245	12 [106] 2190	2372
Rotor Width		Overall Efficiency - 70 - 100% <input type="checkbox"/> 40 - 69% <input type="checkbox"/> 0 - 39% <input checked="" type="checkbox"/>							
3.3 [1.30] mm [in]		Theoretical Torque - Nm [lb-in]							
		4 [36] 7 [59] 9 [83] 13 [119] 17 [148] 19 [166]							
		Displacement tested at 45°C [113°F] with an oil viscosity of 46cSt [213 SUS]							

012		Pressure - bar [psi]			Max. Cont.		Max. Inter.		
		30 [435]	50 [725]	70 [1015]	100 [1450]	120 [1740]	140 [2030]		
13 cm ³ [0.8 in ³] / rev		Torque - Nm [lb-in], Speed rpm						Intermittent Ratings - 10% of Operation	
Max. Max. Inter. Cont.	Flow - lpm [gpm]	3 [0.8]	5 [44] 220	8 [71] 212	11 [97] 195	16 [142] 176			230
		5 [1.3]	6 [53] 367	9 [80] 362	12 [106] 351	17 [150] 320	19 [168] 304		383
		10 [2.6]	5 [44] 757	9 [80] 748	11 [97] 728	16 [142] 703	19 [168] 659	22 [195] 609	766
		15 [4.0]	4 [35] 1134	8 [71] 1124	11 [97] 1106	16 [142] 1072	18 [159] 1049	21 [186] 1026	1149
		20 [5.3]	3 [27] 1521	6 [53] 1511	10 [89] 1498	14 [124] 1480	17 [150] 1449	21 [186] 1413	1533
		25 [6.6]		5 [44] 1871	9 [80] 1858	13 [115] 1850	17 [150] 1840	19 [168] 1793	1916
Rotor Width		Overall Efficiency - 70 - 100% <input type="checkbox"/> 40 - 69% <input type="checkbox"/> 0 - 39% <input checked="" type="checkbox"/>							
5.2 [2.05] mm [in]		Theoretical Torque - Nm [lb-in]							
		6 [55] 10 [92] 15 [129] 21 [184] 25 [221] 29 [257]							
		Displacement tested at 45°C [113°F] with an oil viscosity of 46cSt [213 SUS]							

020		Pressure - bar [psi]			Max. Cont.		Max. Inter.		
		30 [435]	50 [725]	70 [1015]	100 [1450]	120 [1740]	140 [2030]		
20 cm ³ [1.2 in ³] / rev		Torque - Nm [lb-in], Speed rpm						Intermittent Ratings - 10% of Operation	
Max. Max. Inter. Cont.	Flow - lpm [gpm]	3 [0.8]	8 [12] 143	13 [115] 133	13 [115] 133				149
		5 [1.3]	8 [71] 241	13 [115] 233	18 [159] 223	25 [221] 204	31 [274] 185		248
		10 [2.6]	7 [62] 489	12 [106] 479	18 [159] 470	26 [230] 454	29 [257] 454	34 [301] 454	497
		15 [4.0]	6 [29] 731	12 [106] 714	18 [159] 692	25 [221] 670	29 [257] 648	34 [301] 613	745
		20 [5.3]	5 [44] 989	11 [97] 974	16 [142] 962	24 [212] 941	28 [248] 941	33 [292] 941	994
		25 [6.6]	4 [35] 1229	10 [89] 1216	14 [124] 1224	22 [195] 1182	26 [230] 1132	31 [274] 1104	1242
Rotor Width		Overall Efficiency - 70 - 100% <input type="checkbox"/> 40 - 69% <input type="checkbox"/> 0 - 39% <input checked="" type="checkbox"/>							
8.0 [3.16] mm [in]		Theoretical Torque - Nm [lb-in]							
		10 [85] 16 [142] 22 [199] 32 [284] 38 [336] 45 [397]							
		Displacement tested at 45°C [113°F] with an oil viscosity of 46cSt [213 SUS]							



PERFORMANCE

► Performance data is typical. Performance of production units varies slightly from one motor to another.

032		Pressure - bar [psi]			Max. Cont.		Max. Inter.	
		30 [435]	50 [725]	70 [1015]	100 [1450]	120 [1740]	140 [2030]	
32 cm ³ [1.9 in ³] / rev								
Max. Max. Inter. Cont.		Torque - Nm [lb-in], Speed rpm		Intermittent Ratings - 10% of Operation				
		3 [0.8]	12 [106] 84					
Flow - lpm [gpm]	5 [1.3]	12 [106] 148	21 [186] 139	28 [248] 113				157
	10 [2.6]	12 [106] 301	20 [177] 293	28 [248] 284	39 [345] 269	46 [407] 254	55 [487] 234	314
	15 [4.0]	11 [97] 456	19 [168] 448	28 [248] 437	40 [354] 423	44 [389] 412	52 [460] 396	472
	20 [5.3]	9 [80] 622	18 [159] 610	26 [230] 601	38 [336] 589	42 [372] 547	51 [451] 514	629
	25 [6.6]	7 [62] 767	16 [142] 754	24 [212] 741	35 [310] 718	42 [372] 679	48 [425] 633	786
Rotor Width		Overall Efficiency - 70 - 100% <input type="checkbox"/> 40 - 69% <input type="checkbox"/> 0 - 39% <input checked="" type="checkbox"/>						
Theoretical Torque - Nm [lb-in]		Theoretical rpm						
12.7 [501]		15 [134] 25 [224] 35 [314] 51 [448] 61 [538] 71 [627]						
mm [in]		Displacement tested at 45°C [113°F] with an oil viscosity of 46cSt [213 SUS]						

040		Pressure - bar [psi]			Max. Cont.		Max. Inter.	
		30 [435]	50 [725]	70 [1015]	100 [1450]	130 [1885]	140 [2030]	
40 cm ³ [2.5 in ³] / rev								
Max. Max. Inter. Cont.		Torque - Nm [lb-in], Speed rpm		Intermittent Ratings - 10% of Operation				
		3 [0.8]	15 [133] 71					
Flow - lpm [gpm]	5 [1.3]	16 [142] 116	25 [221] 110	33 [292] 102				124
	10 [2.6]	16 [142] 238	24 [212] 237	35 [310] 224	47 [416] 209	54 [478] 167	64 [566] 142	249
	15 [4.0]	14 [124] 367	24 [212] 359	34 [301] 354	49 [434] 345	53 [469] 300	62 [549] 277	373
	20 [5.3]	11 [97] 495	22 [195] 487	33 [292] 479	48 [425] 465	52 [460] 434	59 [522] 416	498
	25 [6.6]	9 [80] 620	18 [159] 609	29 [257] 602	44 [389] 576	50 [443] 558	58 [513] 528	622
Rotor Width		Overall Efficiency - 70 - 100% <input type="checkbox"/> 40 - 69% <input type="checkbox"/> 0 - 39% <input checked="" type="checkbox"/>						
Theoretical Torque - Nm [lb-in]		Theoretical rpm						
16.0 [631]		19 [170] 32 [283] 45 [397] 64 [567] 83 [736] 90 [793]						
mm [in]		Displacement tested at 45°C [113°F] with an oil viscosity of 46cSt [213 SUS]						

HOUSINGS

► Dimensions shown are without paint. Paint thickness can be up to 0.13 [.005].

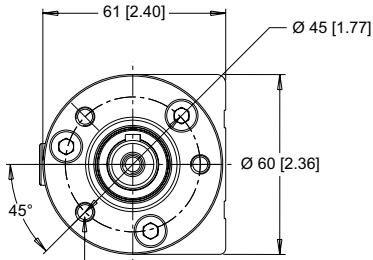
3-HOLE, ROUND MOUNT, ALIGNED SIDE PORTS

JKB G 3/8

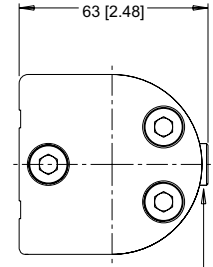
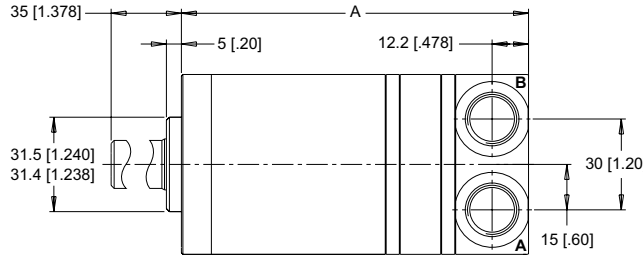
JK5 9/16-18 UNF

JLB G 3/8

JL5 9/16-18 UNF



JKB, JK5 - (3) M6 x 1, Min. Depth 10 [.394]
JLB, JL5 - (3) 1/4-28 UNF, Min. Depth 10 [.394]



Drain Port: JKB, JLB - G 1/8
JK5, JL5 - 3/8-24 UNF

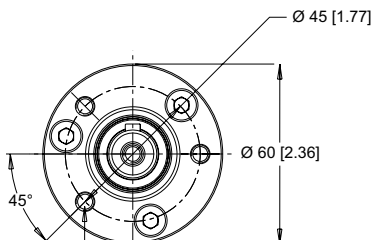
3-HOLE, ROUND MOUNT, ALIGNED END PORTS

JMB G 3/8

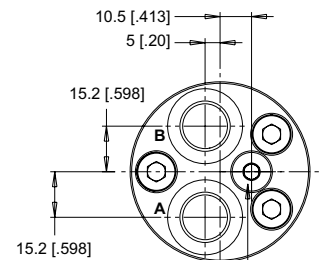
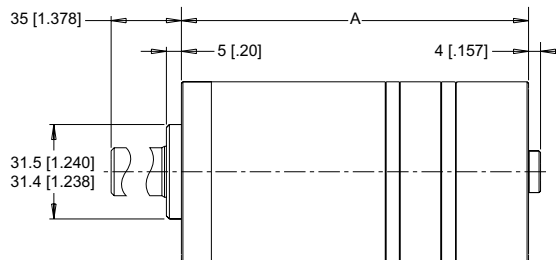
JM5 9/16-18 UNF

JNB G 3/8

JN5 9/16-18 UNF

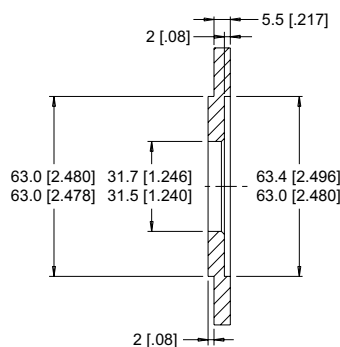
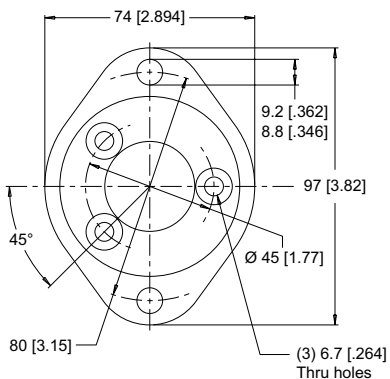


JKB, JK5 - (3) M6 x 1, Min. Depth 10 [.394]
JLB, JL5 - (3) 1/4-28 UNF, Min. Depth 10 [.394]



Drain Port: JKB, JLB - G 1/8
JK5, JL5 - 3/8-24 UNF

2-HOLE FLANGE MOUNTING KIT (OPTIONAL)



► Reference part number 125017004 when ordering the 2-Hole flange mounting kit.
The kit contains three M6 and three 1/4" bolts to accommodate either thread type.

LENGTH & WEIGHT CHART

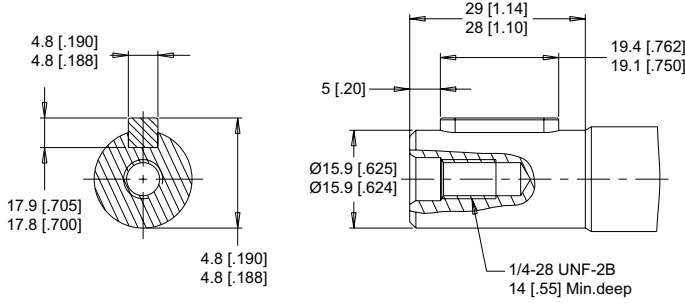
Dimension A is the overall motor length from the rear of the motor to the mounting flange surface and is referenced on detailed housing drawings above.

A	Length	Weight
#	mm [in]	kg [lb]
008	106 [4.16]	2.2 [4.8]
012	108 [4.23]	2.2 [4.9]
020	110 [4.34]	2.3 [5.0]
032	115 [4.53]	2.3 [5.1]
040	118 [4.66]	2.4 [5.2]

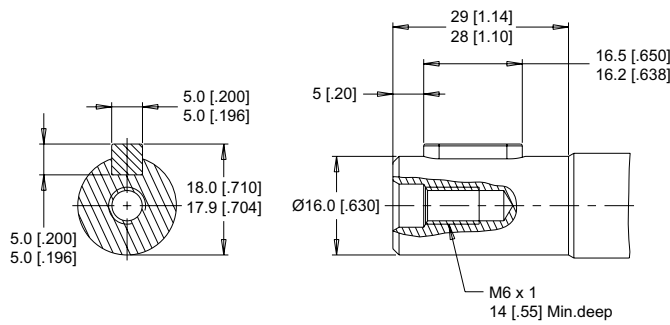


SHAFT & TECHNICAL INFORMATION

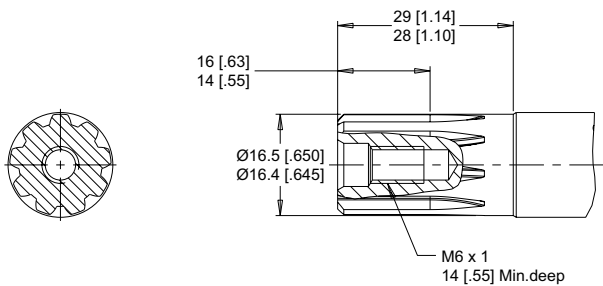
C3 5/8" Straight



C4 16mm Straight

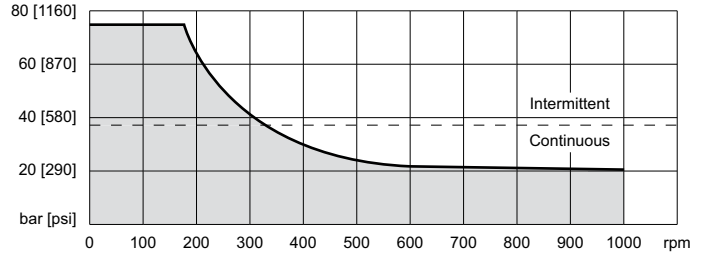


C5 16mm, 9 Tooth Spline



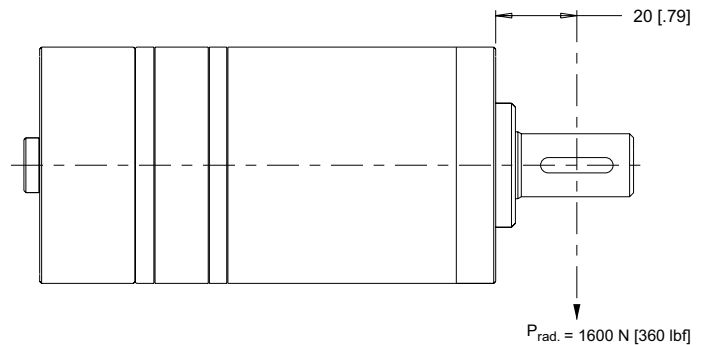
PERMISSIBLE SHAFT SEAL PRESSURE

The curve below represents allowable seal pressure at various speeds. Operation in the gray area results in maintaining the rated life of the shaft seal. Actual shaft seal pressure depends on motor configuration.

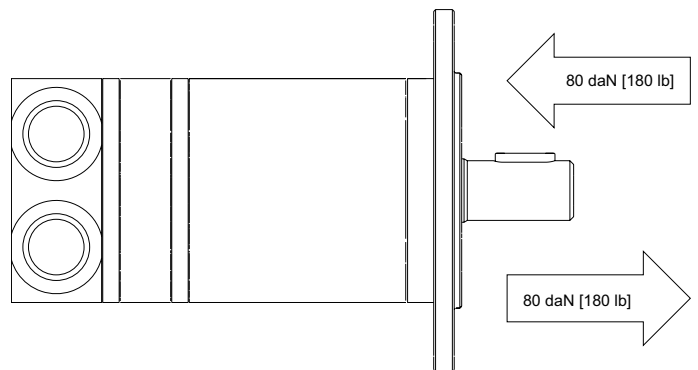


▶ With check valves and drain connection, the shaft seal pressure equals pressure in the drain line. With check valves and no drain connection, shaft seal pressure is identical to output pressure.

PERMISSIBLE SHAFT SIDE LOAD / AXIAL LOAD

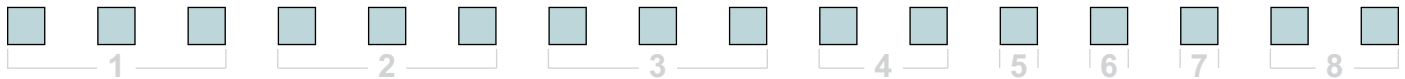


THRUST LOAD



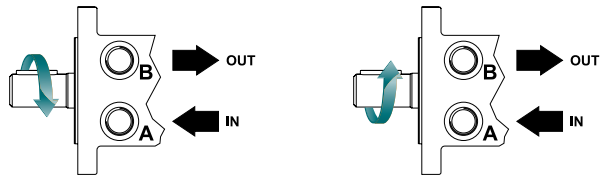


125 & 126 SERIES MODEL CODE BUILDER



1. CHOOSE SERIES DESIGNATION

- 125** Clockwise Rotation
- 126** Counterclockwise Rotation



► The 125 & 126 series are bi-directional. Reversing the inlet hose will reverse shaft rotation.

2. SELECT A DISPLACEMENT OPTION

- 008** 8 cm³/rev [0.5 in³/rev]
- 012** 13 cm³/rev [0.8 in³/rev]
- 020** 20 cm³/rev [1.2 in³/rev]
- 032** 32 cm³/rev [1.9 in³/rev]
- 040** 40 cm³/rev [2.5 in³/rev]

3. SELECT A MOUNT & PORT OPTION

- JKB** 3-Hole, M6 Round Mount, Side Ports, G 3/8
- JK5** 3-Hole, M6 Round Mount, Side Ports, 9/16-18 UNF
- JLB** 3-Hole, 1/4" Round Mount, Side Ports, G 3/8
- JL5** 3-Hole, 1/4" Round Mount, Side Ports, 9/16-18 UNF
- JMB** 3-Hole, M6 Round Mount, End Ports, G 3/8
- JM5** 3-Hole, M6 Round Mount, End Ports, 9/16-18 UNF
- JNB** 3-Hole, 1/4" Round Mount, End Ports, G 3/8
- JN5** 3-Hole, 1/4" Round Mount, End Ports, 9/16-18 UNF

4. SELECT A SHAFT OPTION

- C3** 5/8" Straight
- C4** 16mm Straight
- C5** 16mm, 9 Tooth Spline

5. SELECT A PAINT OPTION

- A** Black
- B** Black, Unpainted Mounting Surface

6. SELECT A VALVE CAVITY / CARTRIDGE OPTION

- A** None

7. SELECT AN ADD-ON OPTION

- A** Standard

8. SELECT A MISCELLANEOUS OPTION

- AA** None

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