

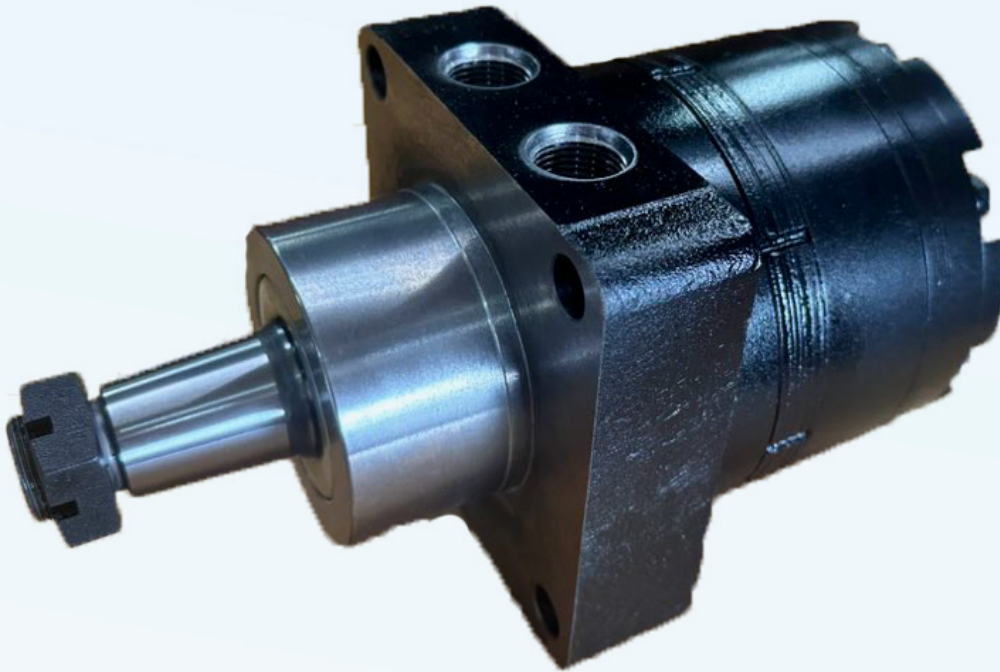


Fluidyne™

FLUID POWER

FM50/FM51 Hydraulic Motor

- Rolling Geroter Set
- Low Speed-High Torque
- Compact
- ISO 9001:2000
- 18 Month Warranty



www.FluidyneFP.com

The FM50/51 gerotor hydraulic motors are a compact, highly efficient, low speed high torque design which can be used in either parallel or series systems. The FM50/51 motors have rolling gerotor set and spool valve flow distribution. These low weight advanced construction design motors are manufactured in accordance with the requirements of the ISO 9001:2000 quality system.

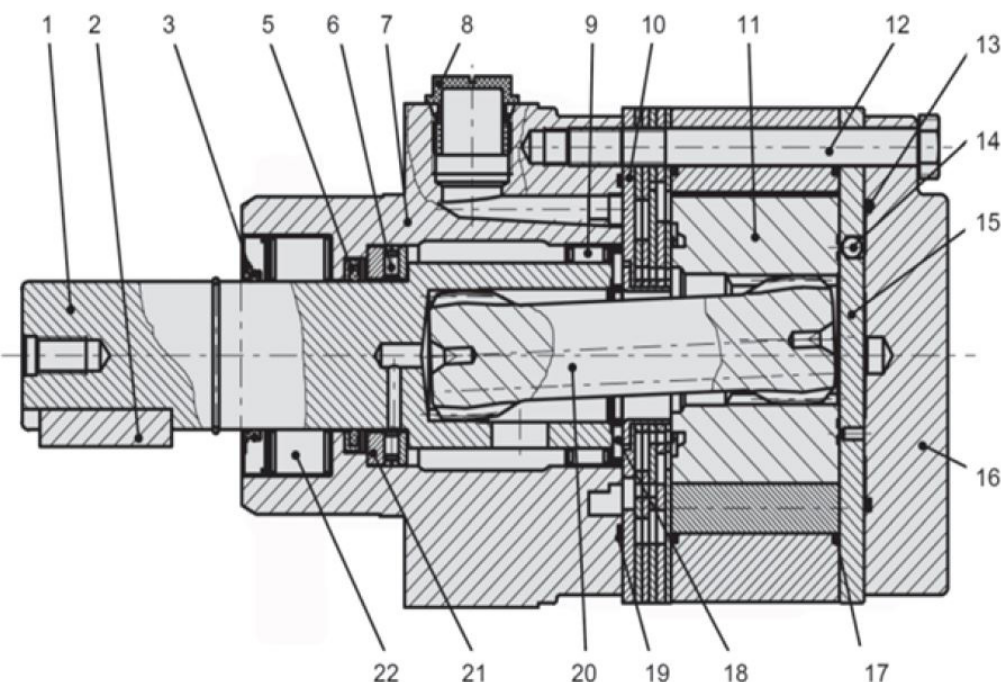


Diagram Key

1. Shaft
 2. Key
 3. Dust Seal*
 4. O-Ring*
 5. Shaft Seal*
 6. Bearing
 7. Housing
 8. Port
 9. Bearing
 10. Timing Plate
 11. Displacement Ring
 12. Bolt
 13. O-Ring*
 14. Check Valve
 15. Backing Plate
 16. Rear Cover
 17. O-Ring*
 18. Bearing
 19. O-Ring*
 20. Drive Shaft (Dog Bone)
 21. Spacer
 22. Shaft Bearing
- * Included in Seal Kit

Technical Specifications

Displacement		125	160	200	230	250	300	350	375	475	540	750
Max Speed RPM	Cont.	336	350	330	290	290	250	215	200	150	140	100
	Int.	450	440	425	365	350	315	265	240	180	170	120
Max Torque lbf-in	Cont.	3089	4160	4709	5532	6196	7169	8010	8762	9824	8674	9293
	Int.	3611	4850	5328	6284	6992	8231	9161	10090	10692	10975	10444
Max Pressure PSI	Cont.	2973	2973	2973	2973	2973	2973	2973	2973	2538	2030	1523
	Int.	3480	3480	3480	3480	3480	3480	3480	3480	2755	2537.5	1740

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

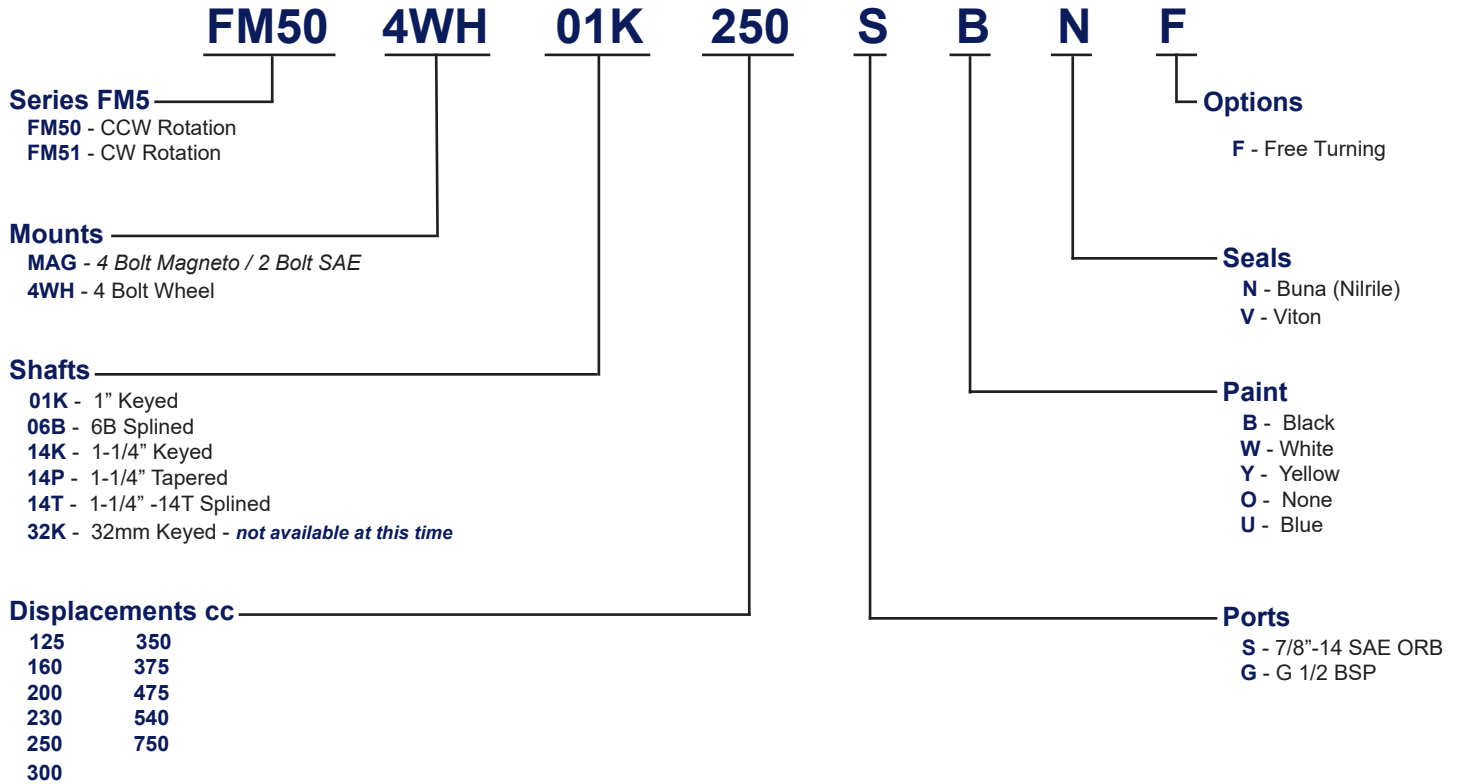
Model Crossover

Fluidyne	Eaton Charlynn	Danfoss	Ross TRW	White Cross	Bosch Rexroth	Parker	Young Powertech	Dynamic
FM50/51	Delta, 184	OMR, OMEW	MP, ME, MF, MJ	500	HW, MLHW	TJ, TF, TL, TG	YME2	BMER



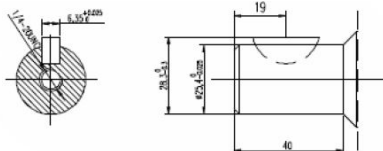
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Model Code Breakdown



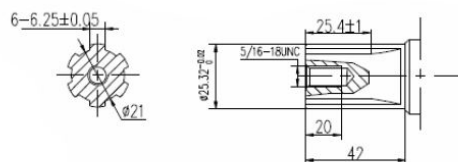
Shaft Options

01K



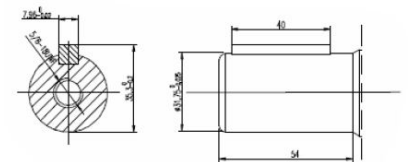
cylinder shaft: $\phi 25.4 \times 39$
 woodruff key: $\phi 25.4 \times 6.35$,
 link thread: 1/4-20UNC

06B



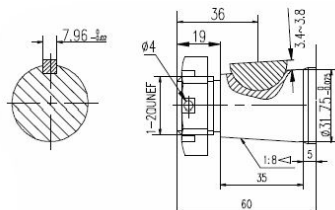
rectangle spline shaft:
 $\phi 25.3 \times 42$, 6-25.3X21X6.25
 link thread: 5/16-18UNC

14K



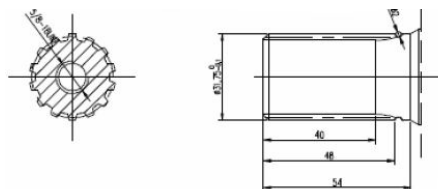
cylinder shaft: $\phi 31.75 \times 54$
 parallel key: 7.96X7.96X40
 link thread: 5/8-18UNF

14P



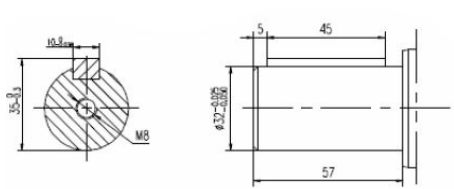
cone shaft: $\phi 31.75$,
 woodruff key: $\phi 25.4 \times 7.96$,
 link thread: 1-20UNEF,
 taper: 1:8

14T



involute spline shaft: $\phi 31.75 \times 54$,
 14 teeth, DP12/24,
 link thread: 5/8-18UNF

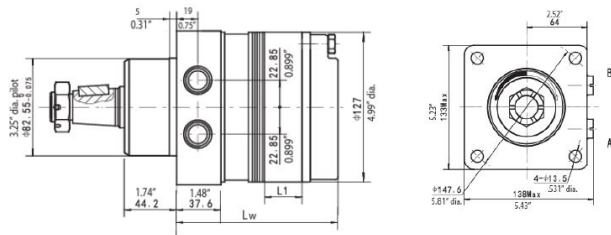
32K



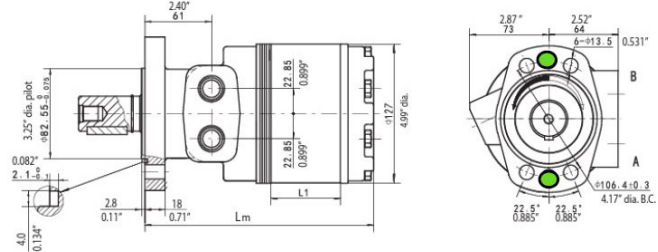
cylinder shaft: $\phi 32 \times 57$
 parallel key: 10X8X45
 link thread: M8

Mounting / Porting Options

4WH (4-Bolt Wheel)

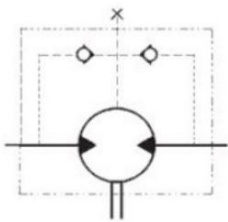


MAG (4-Bolt Magneto and 2-Bolt SAE)



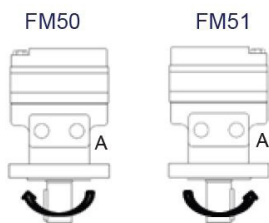
Displacement		125	160	200	230	250	300	350	375	475	540	750
Wheel Mount	L_w	97	101	104	106	109	112	117	119	128	134	152
	L_1	10	14	17	19	22	25	30	32	41	47	62
Magneto Mount	L_M	154	158	161	163	166	170	174	176	185	191	209
	L_1	10	14	17	19	22	25	30	32	41	47	62

Shaft Seal



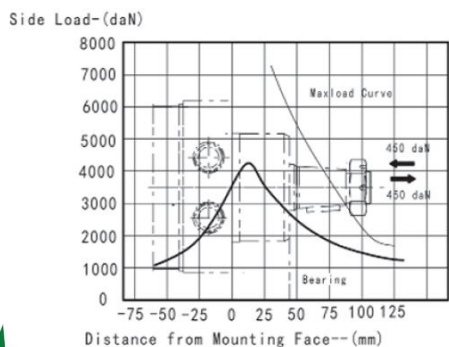
This motor is not equipped with a motor drain line, the pressure exerted on the shaft seal is marginally in excess of the return line pressure.

Shaft Rotation



Standard rotation is viewed from the shaft end.
FM50 Series Port A pressurized = CCW rotation
FM51 Series Port A pressurized = CW rotation

Radial Force



FluidDyne supports the distributors providing local knowledge and assistance to fluid power customers.

Our people provide extensive support:

- Engineering Expertise
- Decoding special part numbers
- Identification of parts within units
- Advice on component repair and assembly
- Component failure analysis
- 18 month warranty
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