

LM Oil Pumps



- Compact - pump mounted directly to motor
- Rotating swash plate design
- Pressures up to 690 bar
- Flows up to 17.68 l/m (4.67 USg/m)
- Improved valve design - ease of priming
- Horizontal or Vertical Mounting

Based on our proven SM pump design, the type LM hydraulic axial piston pump for hydraulic oil application has been specially designed for direct mounting to AC motors, avoiding the need for a bell housing and coupling. A shaft version compatible with a traditional bell housing and coupling is available.

The Type LM hydraulic axial piston pump is of a rotating swash plate design and can deliver pressures up to 690 bar.

To suit your fluid compatibility, environment, maintenance and value requirements, these pumps are available with all 316 stainless steel external components, all carbon steel or a combination of carbon steel with an aluminium case.

The LM pump is available with 3 or 6 pistons, providing flow rates up to 10.60 l/m (2.80 USg/m) as listed in the table below.

These pumps are designed to run on mineral oils with an operating viscosity between 15 and 100 cst. Consult the factory for viscosities outside this range. The ambient operating temperature range is -20°C to +60°C

Installation

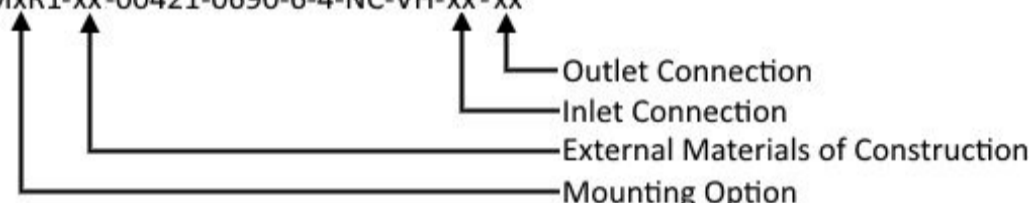
Rotation is bi-directional and the pump may be mounted horizontally or vertically.

A suction filter of 150 microns or better should be used. Finer filtration is desirable for the pump life, but is important that the inlet flowrate to the pump is not restricted and no more than -2 in.Hg is measured in the suction pipework under pumping conditions. Where possible a positive pressure should be maintained in the suction pipework under flowing conditions. When the pump is stationary the suction line should be kept under positive pressure to allow priming.

Part Number	Cylinders	Flow	Flow @ 1450 RPM		Flow @ 1750 RPM		Pressure bar
		cc/rev	l/m	Usg/m	l/m	Usg/m	
LMxR2-xx-00053-0690-3-4-NC-VH-xx-xx	3	0.53	0.76	0.201	0.92	0.243	690
LMxR2-xx-00076-0690-3-4-NC-VH-xx-xx	3	0.76	1.10	0.290	1.32	0.350	690
LMxR2-xx-00103-0690-3-4-NC-VH-xx-xx	3	1.03	1.49	0.394	1.80	0.476	690
LMxR2-xx-00135-0690-3-4-NC-VH-xx-xx	3	1.35	1.95	0.515	2.35	0.622	690
LMxR2-xx-00170-0690-3-4-NC-VH-xx-xx	3	1.70	2.47	0.652	2.98	0.787	690
LMxR2-xx-00210-0690-3-4-NC-VH-xx-xx	3	2.10	3.05	0.805	3.68	0.971	690
LMxR2-xx-00254-0690-3-4-NC-VH-xx-xx	3	2.54	3.69	0.974	4.45	1.175	690
LMxR2-xx-00303-0690-3-4-NC-VH-xx-xx	3	3.03	4.39	1.159	5.30	1.399	690
LMxR2-xx-00505-0610-3-4-NC-VH-xx-xx	3	5.05	7.32	1.934	8.84	2.334	610
LMxR2-xx-00105-0690-6-4-NC-VH-xx-xx	6	1.05	1.52	0.402	1.84	0.486	690
LMxR2-xx-00151-0690-6-4-NC-VH-xx-xx	6	1.51	2.20	0.580	2.65	0.699	690
LMxR2-xx-00206-0690-6-4-NC-VH-xx-xx	6	2.06	2.99	0.789	3.61	0.952	690
LMxR2-xx-00269-0690-6-4-NC-VH-xx-xx	6	2.69	3.90	1.030	4.71	1.243	690
LMxR2-xx-00341-0690-6-4-NC-VH-xx-xx	6	3.41	4.94	1.304	5.96	1.574	690
LMxR2-xx-00421-0690-6-4-NC-VH-xx-xx	6	4.21	6.10	1.610	7.36	1.943	690
LMxR2-xx-00509-0605-6-4-NC-VH-xx-xx	6	5.09	7.38	1.948	8.90	2.351	605
LMxR2-xx-00606-0510-6-4-NC-VH-xx-xx	6	6.06	8.78	2.318	10.60	2.798	510
LMxR2-xx-00711-0430-6-4-NC-VH-xx-xx	6	7.11	10.31	2.721	12.44	3.283	430
LMxR2-xx-00824-0370-6-4-NC-VH-xx-xx	6	8.24	11.95	3.155	14.42	3.808	370
LMxR2-xx-01010-0305-6-4-NC-VH-xx-xx	6	10.10	14.65	3.868	17.68	4.668	305

Additional Options

LMxR1-xx-00421-0690-6-4-NC-VH-xx-xx



Mounting Option

- LMR2 - Direct coupling to IEC 100/112 Frame B34 Face motors
- LM95R2 - Direct coupling to IEC 90 Frame B35 and V1 Flange motors
- LM105R2 - Direct coupling to IEC 100/112 Frame B35 and V1 Flange motors.
- LM134R2 - Direct coupling to IEC 132 Frame B34 Face motors.
- LM135R2 - Direct coupling to IEC 132 Frame B35 and V1 Face motors.
- LM164R2 - Direct coupling to IEC 160 Frame B34 Face motors.
- LM165R2 - Direct coupling to IEC 160 Frame B35 and V1 Face motors.
- LM144R2 - Direct coupling to NEMA 143T/145T Frame C face (B34) motors
- LM145R2 - Direct coupling to NEMA 143T/145T Frame D flange (B35 and V1) motors
- LM184R2 - Direct coupling to NEMA 182T/184T Frame C face (B34) motors
- LM185R2 - Direct coupling to NEMA 182T/184T Frame D flange (B35 and V1) motors
- LM214R2 - Direct coupling to NEMA 213T/215T Frame C face (B34) motors
- LM215R2 - Direct coupling to NEMA 215T/215T Frame D flange (B35 and V1) motors
- LMSR2 - Shaft driven pump for use with a Bellhousing and Coupling.

External Construction

- 00 - Stainless Steel Construction
- 01 - Carbon Steel Construction
- 02 - Aluminium Case and Carbon Steel pressure retaining components.

Inlet Connection Options

- 04 - 3/4" BSP Female Inlet
- 09 - 3/4" NPT Female Inlet

Outlet Connection Options

- 02 - 3/8" BSP Female Outlet
- 03 - 1/2" BSP Female Outlet
- 07 - 3/8" NPT Female Outlet
- 12 - 3/8" MP Female Outlet

Dimensions

