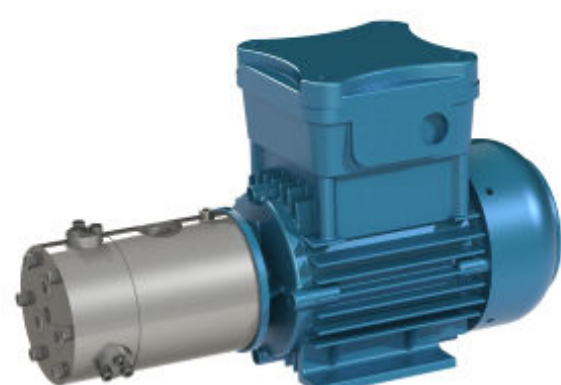


SM Oil Pumps



- Compact - pump mounted directly to motor
- Rotating swash plate design
- Pressures up to 690 bar
- Flows up to 2.53 l/m (0.668 USg/m)
- Horizontal or Vertical Mounting

The SM hydraulic axial piston pump for hydraulic oil application has been specially designed for direct mounting to DC or AC motors in the 71 to 90 frame range. The new compact design avoids the need for a bell housing and coupling unit with the pump mounted directly to the motor.

The Type SM 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 SM pump is available with 3, 4 or 6 pistons, providing flow rates up to 2.53 l/m (0.668 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 operating temperature range is -20°C to +60°C (Ambient)

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	
SMxR3-00016-0690-3-4-NC-VH-xx-xx	3	0.16	0.23	0.061	0.28	0.074	690
SMxR3-00026-0690-3-4-NC-VH-xx-xx	3	0.26	0.38	0.101	0.46	0.121	690
SMxR3-00033-0690-3-4-NC-VH-xx-xx	3	0.33	0.47	0.125	0.57	0.151	690
SMxR3-00035-0690-3-4-NC-VH-xx-xx	3	0.35	0.51	0.135	0.62	0.163	690
SMxR3-00039-0690-3-4-NC-VH-xx-xx	3	0.39	0.57	0.151	0.69	0.182	690
SMxR3-00046-0690-3-4-NC-VH-xx-xx	3	0.46	0.67	0.178	0.81	0.215	690
SMxR3-00052-0690-3-4-NC-VH-xx-xx	3	0.52	0.76	0.200	0.91	0.241	690
SMxR3-00063-0690-3-4-NC-VH-xx-xx	3	0.63	0.92	0.243	1.11	0.293	690
SMxR3-00066-0690-3-4-NC-VH-xx-xx	3	0.66	0.95	0.252	1.15	0.304	690
SMxR3-00072-0690-3-4-NC-VH-xx-xx	3	0.72	1.05	0.277	1.27	0.335	690
SMxR3-00080-0690-3-4-NC-VH-xx-xx	3	0.80	1.17	0.308	1.41	0.372	690
SMxR3-00021-0690-4-4-NC-VH-xx-xx	4	0.21	0.31	0.082	0.37	0.098	690
SMxR3-00035-0690-4-4-NC-VH-xx-xx	4	0.35	0.51	0.134	0.61	0.162	690
SMxR3-00044-0690-4-4-NC-VH-xx-xx	4	0.44	0.63	0.167	0.76	0.201	690
SMxR3-00047-0690-4-4-NC-VH-xx-xx	4	0.47	0.68	0.180	0.82	0.217	690
SMxR3-00053-0690-4-4-NC-VH-xx-xx	4	0.53	0.76	0.201	0.92	0.243	690
SMxR3-00062-0690-4-4-NC-VH-xx-xx	4	0.62	0.90	0.237	1.08	0.286	690
SMxR3-00070-0690-4-4-NC-VH-xx-xx	4	0.70	1.01	0.266	1.22	0.321	690
SMxR3-00085-0690-4-4-NC-VH-xx-xx	4	0.85	1.23	0.324	1.48	0.391	690
SMxR3-00088-0660-4-4-NC-VH-xx-xx	4	0.88	1.27	0.336	1.53	0.405	660
SMxR3-00097-0600-4-4-NC-VH-xx-xx	4	0.97	1.40	0.370	1.69	0.446	600
SMxR3-00107-0540-4-4-NC-VH-xx-xx	4	1.07	1.55	0.410	1.88	0.495	540
SMxR3-00032-0690-6-4-NC-VH-xx-xx	6	0.32	0.46	0.122	0.56	0.148	690
SMxR3-00053-0690-6-4-NC-VH-xx-xx	6	0.53	0.76	0.201	0.92	0.243	690
SMxR3-00065-0690-6-4-NC-VH-xx-xx	6	0.65	0.95	0.250	1.14	0.302	690
SMxR3-00070-0690-6-4-NC-VH-xx-xx	6	0.70	1.02	0.269	1.23	0.325	690
SMxR3-00079-0690-6-4-NC-VH-xx-xx	6	0.79	1.14	0.301	1.38	0.364	690
SMxR3-00093-0625-6-4-NC-VH-xx-xx	6	0.93	1.35	0.356	1.63	0.430	625
SMxR3-00104-0560-6-4-NC-VH-xx-xx	6	1.04	1.51	0.399	1.82	0.482	560
SMxR3-00127-0460-6-4-NC-VH-xx-xx	6	1.27	1.84	0.486	2.22	0.586	460
SMxR3-00131-0440-6-4-NC-VH-xx-xx	6	1.31	1.91	0.503	2.30	0.607	440
SMxR3-00145-0400-6-4-NC-VH-xx-xx	6	1.45	2.10	0.554	2.53	0.669	400
SMxR3-00161-0360-6-4-NC-VH-xx-xx	6	1.61	2.33	0.616	2.81	0.743	360

Additional Options

SMxR3-xx-00079-0690-6-4-NC-VH-xx-xx

- Outlet Connection
- Inlet Connection
- Case Material
- Mounting Option

Mounting Option

- SMR3 - Direct coupling to IEC 70 Frame B34 Face motors
- SM84R3 - Direct coupling to IEC 80 Frame B34 face motors
- SM85R3 - Direct coupling to IEC 80 Frame B35 and V1 flange motors
- SM94R3 - Direct coupling to IEC 90 Frame B34 face motors
- SM144R3 - Direct coupling to NEMA 143T/145T Frame C face (B34) motors
- SM145R3 - Direct coupling to NEMA 143T/145T Frame D flange (B35 and V1) motors

Case Material

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

Inlet Connection Options

- 03 - 1/2" BSP Female Inlet
- 04 - 3/4" BSP Female Inlet
- 08 - 1/2" NPT Female Inlet

Outlet Connection Options

- 01 - 1/4" BSP Female Connection
- 03 - 1/2" BSP Female Connection
- 06 - 1/4" NPT Female Connection

Dimensions

