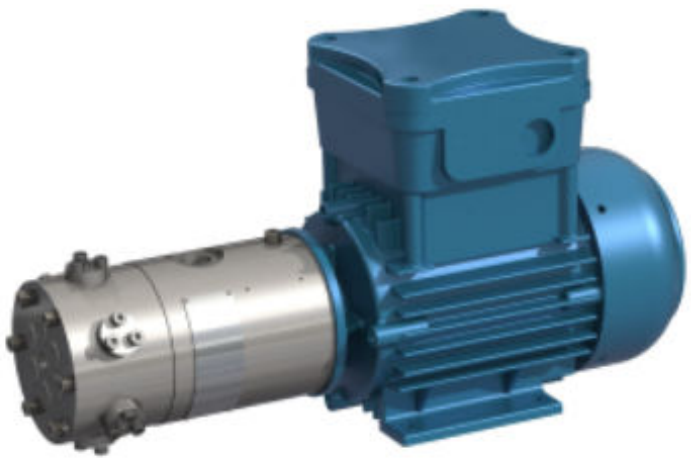
SMLP Oil Pumps



- **Compact - pump mounted directly to motor**
- **Rotating swash plate design**
- **Pressures up to 210 bar**
- **Flows up to 6.48 l/m (1.71 USg/m)**
- **Horizontal or Vertical Mounting**

The SMLP 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 SMLP hydraulic axial piston pump is of a rotating swash plate design and can deliver pressures up to 210 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 SMLP pump is available with 3 or 6 pistons, providing flow rates up to 6.48 l/m (1.711 USg/m) as listed in the table below.

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

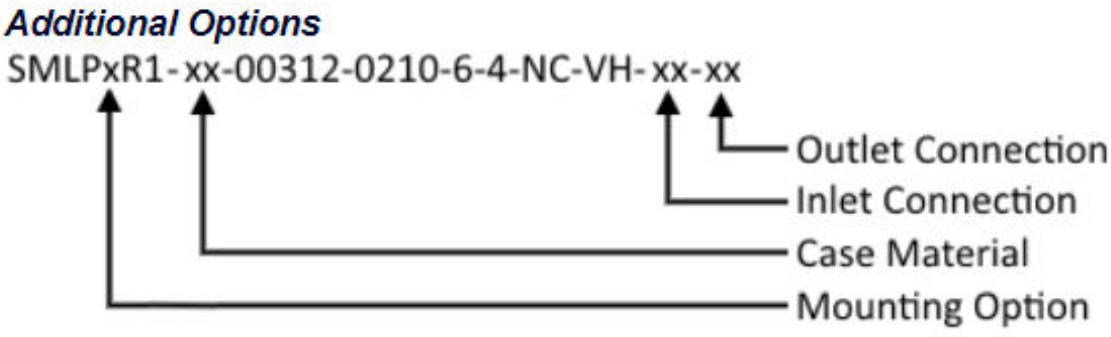
Installation

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
		cc/rev	l/m	Usg/m	l/m	Usg/m	bar
SMLPxR1-xx-00083-0210-3-4-NC-VH-xx-xx	3	0.83	1.20	0.371	1.45	0.382	210
SMLPxR1-xx-00105-0210-3-4-NC-VH-xx-xx	3	1.05	1.52	0.400	1.83	0.483	210
SMLPxR1-xx-00129-0210-3-4-NC-VH-xx-xx	3	1.29	1.87	0.493	2.26	0.595	210
SMLPxR1-xx-00156-0210-3-4-NC-VH-xx-xx	3	1.56	2.26	0.596	2.73	0.720	210
SMLPxR1-xx-00170-0210-3-4-NC-VH-xx-xx	3	1.70	2.46	0.649	2.97	0.783	210
SMLPxR1-xx-00185-0210-3-4-NC-VH-xx-xx	3	1.85	2.69	0.709	3.24	0.856	210
SMLPxR1-xx-00166-0210-6-4-NC-VH-xx-xx	6	1.66	2.40	0.634	2.90	0.765	210
SMLPxR1-xx-00209-0210-6-4-NC-VH-xx-xx	6	2.09	3.03	0.800	3.66	0.966	210
SMLPxR1-xx-00258-0210-6-4-NC-VH-xx-xx	6	2.58	3.74	0.987	4.51	1.191	210
SMLPxR1-xx-00312-0210-6-4-NC-VH-xx-xx	6	3.12	4.52	1.193	5.45	1.439	210
SMLPxR1-xx-00339-0190-6-4-NC-VH-xx-xx	6	3.39	4.92	1.298	5.94	1.567	210
SMLPxR1-xx-00370-0175-6-4-NC-VH-xx-xx	6	3.70	5.37	1.418	6.48	1.711	175

Additional Options



Mounting Option

SMLPR1 - Direct coupling to IEC 70 Frame B34 Face motors
SMLP84R1 - Direct coupling to IEC 80 Frame B34 face motors
SMLP85R1 - Direct coupling to IEC 80 Frame B35 and V1 flange motors
SMLP94R1 - Direct coupling to IEC 90 Frame B34 face motors
SMLP144R1 - Direct coupling to NEMA 143T/145T Frame C face (B34) motors
SMLP145R1 - 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