

Proven Performance and Reliability

Alfa Laval SCPP 1 Circumferential Piston Pump

Application

The SCPP range of positive displacement pumps has been designed for use in a wide range of applications within: Dairy, Food, Beverage, Pharma and Personal Care markets. The highly efficient design is particularly suited to applications that are low in viscosity with medium to high discharge pressures.

Standard Design

Pump Gearbox The SCPP pump with its circumferential piston pump design concept has a cast iron gearbox which provides maximum shaft rigidity. Gear box is powder-coated. Stainless steel gear box is optional on models 006, 015, 018, 030, 045, 060 & 130. One-piece 316L stainless steel shafts are standard on models 006, 015 & 018. High-strength 17-4 PH one-piece shafts are standard on models 030, 045, 060, 130, 220 & 320. Four-way mounting allows horizontal or vertical porting and provides mounting flexibility.

Pumphead Construction The SCPP in standard specification has pump casing in AISI 316 stainless steel with an internal surface finish of Ra 32/Ra 0.8 complying to 3A standards. Rotors are made of special non-galling alloy and are available as twin-wing form. Seal options include single O-ring seal, single mechanical seal, double O-ring seal with flush, or double mechanical seal with flush.



Pump Performance

SCPP 1 Model	Nominal Capacity		Displacement per Revolution		Maximum Pressure		Temperature Range		Standard Ports		Optional Ports		Maximum Speed (RPM)
	US		US		Bar	PSI	Deg. C	Deg. F	mm	in.	mm	in.	
	M ³ /hr	GPM	Litre	Gal.									
006	1.3	6.0	0.030	0.008	14	200	-40° to 150°	-40° to 300°	25	1.0	38.0	1.5	800
015	2.0	9.0	0.052	0.014	14	200	-40° to 150°	-40° to 300°	38	1.5	-	-	700
018	3.8	17.0	0.110	0.030	14	200	-40° to 150°	-40° to 300°	38	1.5	51.0	2.0	600
030	8.2	36.0	0.230	0.060	14	200	-40° to 150°	-40° to 300°	38	1.5	51.0	2.0	600
045	13.3	59.0	0.380	0.100	27	400	-40° to 150°	-40° to 300°	51	2.0	-	-	600
060	20.4	90.0	0.580	0.150	14	200	-40° to 150°	-40° to 300°	64	2.5	76.0	3.0	600
130	34.1	150.0	0.960	0.250	14	200	-40° to 150°	-40° to 300°	76	3.0	-	-	600
220	70.4	310.0	1.980	0.520	14	200	-40° to 150°	-40° to 300°	102	4.0	-	-	600
320	102.0	450.0	2.850	0.750	14	200	-40° to 150°	-40° to 300°	152	6.0	-	-	600

Hot clearances required for high temperature operation.