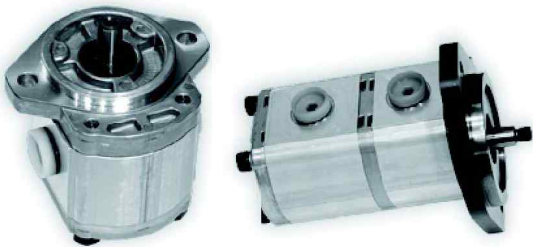
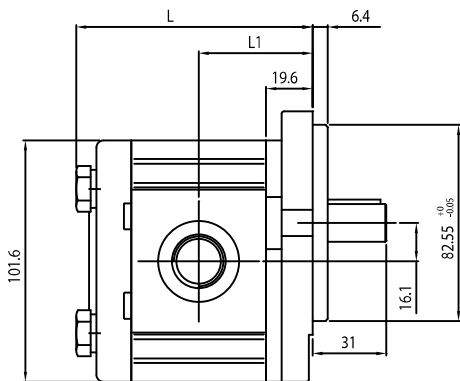


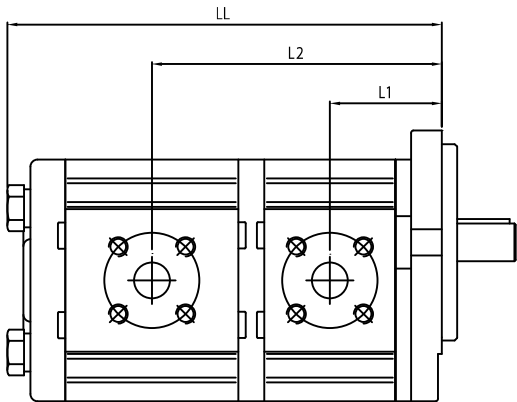
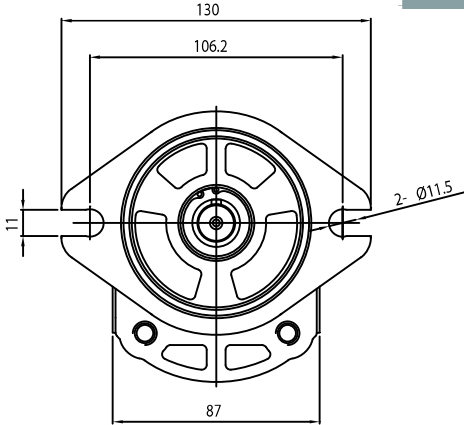
SMP20 Series



Dimensions



SINGLE PUMP



MULTIPLE PUMP

* DIMENSION EQUATION
 $L2=0.77(2D1+D2)+96.8$
 $LL=1.54(D1+D2)+142.6$

D1: 1ST PUMP DISPLACEMENT
D2: 2ND PUMP DISPLACEMENT

Specifications

MODEL	DISPLACEMENT (D)	MAX. CONTINUOUS PRESSURE(P)	Min. speed	Max. speed	L	L1	LL	L2
	cm³/rev	bar	rpm	rpm	mm	mm	mm	mm
SMP20-048	4.8	250	600	3000	94.6	32.4	SEE "DIMENSION EQUATION"	
SMP20-060	6	250	600	3000	96.5	33.3		
SMP20-083	8.3	250	600	3000	100	35.1		
SMP20-113	11.3	250	600	3000	104.6	37.4		
SMP20-140	14	250	500	3000	108.8	41		
SMP20-160	16	250	500	3000	111.9	41		
SMP20-180	18	200	500	3000	115	42.6		
SMP20-200	20	200	500	3000	118	44.1		
SMP20-215	21.5	200	500	3000	120.3	45.3		
SMP20-252	25.2	170	500	2500	126	48.1		
SMP20-302	30.2	130	500	2000	133.7	52		

Code and specification(Single pump)

SMP20	113	S	G4	G4	-	A3	P1	R	-	0
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Series
SMP Pump

Displacement	
CODE	cm ³ /rev
048	4.8
060	6
083	8.3
113	11.3
140	14
160	16
180	18
200	20
215	21.5
252	25.2
302	30.2

Port Position
S : Side Port

Inlet/Outlet Port
G3 : G3/8
G4 : G1/2
G5 : G3/4
U4 : 7/8-14UNF
U5 : 1-1/16-12UN
F1 : SAE Split Port 1/2
F2 : SAE Split Port 3/4
F3 : SAE Split Port 1
E1 : European 4 Bolt Flange
E2 : European 4 Bolt Flange
M1 : German 4 Bolt Flange
M2 : German 4 Bolt Flange
SP : Special Port

Mounting Flange
A3 : SAE "A" 2 bolt
B2 : SAE "B" 2 bolt

Drive Shaft
P1 : SAE "A" Spline(9T)
P2 : SAE Spline(10T)
P3 : SAE Spline(11T)
P5 : SAE "B" Spline(13T)
S1 : SAE "A" Straight(5/8" Dia)
S2 : SAE "B" Straight

Direction of Rotation
R : Clockwise
L : Counter Clockwise

Special Option
0 : None

Code and specification(Tandem pump)

SMP20	113	S	G4	G4	/	SMP20	113	S	G4	G4	-	A3	P1	R	-	0
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Series
SMP Pump

Displacement	
CODE	cm ³ /rev
048	4.8
060	6
083	8.3
113	11.3
140	14
160	16
180	18
200	20
215	21.5
252	25.2
302	30.2

Port Position
S : Side Port

Inlet/Outlet Port
00 : None
G3 : G3/8
G4 : G1/2
G5 : G3/4
U4 : 7/8-14UNF
U5 : 1-1/16-12UN
F1 : SAE Split Port 1/2
F2 : SAE Split Port 3/4
F3 : SAE Split Port 1
E1 : European 4 Bolt Flange
E2 : European 4 Bolt Flange
M1 : German 4 Bolt Flange
M2 : German 4 Bolt Flange
SP : Special Port

Mounting Flange
A3 : SAE "A" 2 bolt
B2 : SAE "B" 2 bolt

Drive Shaft
P1 : SAE "A" Spline(9T)
P2 : SAE Spline(10T)
P3 : SAE Spline(11T)
P5 : SAE "B" Spline(13T)
S1 : SAE "A" Straight(5/8" Dia)
S2 : SAE "B" Straight
T1 : EUROPEAN Tapered 1:8
T2 : GERMAN Tapered 1:5

Direction of Rotation
R : Clockwise
L : Counter Clockwise

Special Option
0 : None