

**Technical Features**

Variable displacement, axial piston pumps for open circuit hydraulic systems

Available as standard (P2) or supercharged (P3) version

Optimized for mobile applications:

- Dedicated envelope design and unique port layout
- High self-priming speed
- Standard integrated pre-compression volume
- Heavy duty approval (size 105 and 145) for increased power density

**Customer Benefits**

- Cost saving installation by direct PTO mount
- High productivity by maximized output flow
- High altitude operation capability
- Low noise level and reduced flow ripple

**P2 Series**



**P3 Series**

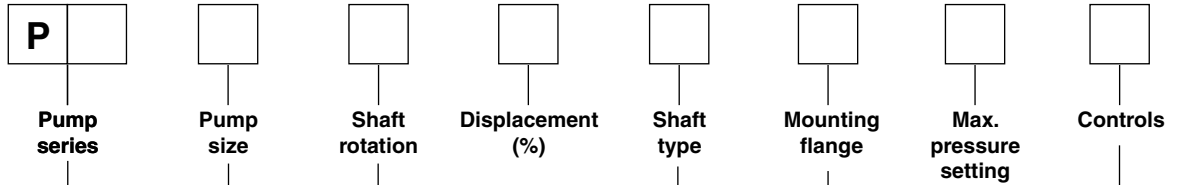


**Technical Data**

Frame size		P2 Series				P3 Series	
		P2060	P2075	P2105	P2145	P3105	P3145
Max. displacement	[cm <sup>3</sup> /rev]	60	75	105	145	105	145
Self-priming speed at 1 bar absolute inlet pressure <sup>1)</sup>	[rpm]	2800	2500	2300	2200	2600	2500
Nominal pressure <sup>2)</sup>	[bar]	320	320	350	350	350	350
Min. inlet pressure, absolute <sup>1)</sup>	[bar]	0.8	0.8	0.8	0.8	0.8	0.8
Max. inlet pressure, absolute	[bar]	10	10	10	10	1.5	1.5
Max. case drain pressure, absolute	[bar]	1.5	1.5	1.5	1.5	1.5	1.5
Min. outlet pressure, absolute	[bar]	15	15	15	15	15	15
Noise level at full flow at 1800 rpm and 250 bar	[dB(A)]	74	76	78	80	78	80
Weight with load sense control	[kg]	37	44	63	78	62	76
Mass moment of inertia (at axis of shaft)	[kg m <sup>2</sup> ]	0.0061	0.0101	0.0168	0.0241	0.0177	0.0264

1) Detailed inlet characteristics can be taken from page 18 and 36

2) For maximum operating pressures exceeding above mentioned nominal ratings please consult manufacturer



Code	Pump series
2	Standard
3	Super charged

Code	Pump size (max. displacement in cc/rev)	
	P2	P3
060	60	-
075	75	-
105	105	105
145	145	145

Code	Shaft rotation 1)
R	Right (CW)
L	Left (CCW)

1) Viewed from shaft end.

Code	% of max. displacement
00	100 % stroke standard factory set
XX	Range is 70 % to 99 %

Code	Shaft type (splined) <sup>2) 3)</sup>	Pump size			
		060	075	105	145
B1	SAE B	•	-	-	-
B2	SAE B-B	•	•	-	-
C1	SAE C	•	•	•	•
C2	SAE C-C	-	•	•	•
C3	SAE C, w/o undercut	•	•	•	•
D1	SAE D	-	-	•	•
D2	SAE D, w/o undercut	-	-	•	•
M6	DIN 5480, W50	-	-	-	•

2) See pages 32 and 44 for permissible input torque.

3) For further shaft options please consult manufacturer.

Code	Mounting flange	Pump size			
		060	075	105	145
B	SAE B 2-bolt	•	-	-	-
C	SAE C 2-bolt	-	-	-	•
	SAE C 2 & 4-bolt	-	•	•	-
	SAE C 4-bolt	•	-	-	4)
D	SAE D 4-bolt	-	-	-	•

4) Please consult manufacturer.

Code	Max. pressure setting	
XX	Pressure setting in 10 bar increments	
	060	100 to 320 bar, XX = [10...32]
	075	
	105	
145	100 to 350 bar, XX = [10...35]	

Code	Controls
PA	Max. pressure control
RA	Remote pressure control with max. pressure control
LA	Load sensing control w/o bleed-off orifice, with max. pressure control
LB	Load sensing control with bleed-off orifice, with max. pressure control
TA	Torque control, load sensing w/o bleed-off orifice and max. pressure control, range 20...60 % of reference torque value
TB	Torque control, load sensing with bleed-off orifice and max. pressure control, range 20...60% of reference torque value
TC	Torque control, load sensing w/o bleed-off orifice and max. pressure control, range 50...90 % of reference torque value
TD	Torque control, load sensing with bleed-off orifice and max. pressure control, range 50...90 % of reference torque value

