

**HYDRAULIC PARAMETERS (continued)**

Technical data										
		Dimension	Frame size							
			033	052	070	089	119	166	227	334
Max. displacement		cm <sup>3</sup> [in <sup>3</sup> ]	33.3 [2.03]	51.6 [3.15]	69.8 [4.26]	89.0 [5.43]	118.7 [7.24]	165.8 [10.12]	227.3 [13.87]	333.7 [20.36]
Charge pump displacement	options	cm <sup>3</sup> [in <sup>3</sup> ]	12.30 [0.75]		18.03 [1.10]		18.85 [1.15]	32.80 [2.00]		65.50 [4.00]
			18.03 [1.10]		12.30 [0.75]		32.80 [2.00]	65.50 [4.00]		–
Minimum speed		min <sup>-1</sup> (rpm)	500							
Rated speed 1		min <sup>-1</sup> (rpm)	3800	3500	3200	2900	2700	2400	2100	1900
Maximum swash plate angle		degree	±18							
Mass moment of inertia of rotating group (without charge pump)		kg m <sup>2</sup> · 10 <sup>-3</sup> [lbf ft <sup>2</sup> · 10 <sup>-3</sup> ]	4.34 [103.0]	8.14 [193.2]	12.34 [292.8]	17.77 [421.7]	29.11 [690.8]	50.19 [1191.0]	86.80 [2059.8]	161.40 [3830.0]
Weight		kg [lb]	45 [99]	55 [121]	63 [139]	78 [172]	124 [273]	164 [362]	212 [467]	270 [595]

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**System pressure range, input p<sub>1</sub>**

Variable displacement pump:

Charge pressure nominal: 13 bar [189 psi] above case pressure

Charge pressure minimum: 8 bar [116 psi], intermittent only

Charge pump input pressure:

Min. allowable pressure, continuous = 0.75 bar [10.9 psi] absolute

Min. allowable pressure, intermittent = 0.50 bar [7.3 psi] absolute (for cold start)

Charge pump output pressure:

Max. operating pressure = 35 bar [508 psi] above case pressure

**System pressure range, output p<sub>2</sub>**

Pressure on port A or B: Max. operating pressure Δp = 420 bar [6092 psi]

Max. high pressure setting Δp = 460 bar<sup>1</sup> [6672 psi]

<sup>1</sup>only with POR-valve

**Case pressure**

Max. rated pressure = 2.5 bar [36.3 psi]

Intermittent = 5.0 bar [72.5 psi]

**Hydraulic fluid temperature range**

ϑ<sub>min</sub> = - 40 °C [- 40 °F]

ϑ<sub>max</sub> = 95 °C [203 °F]