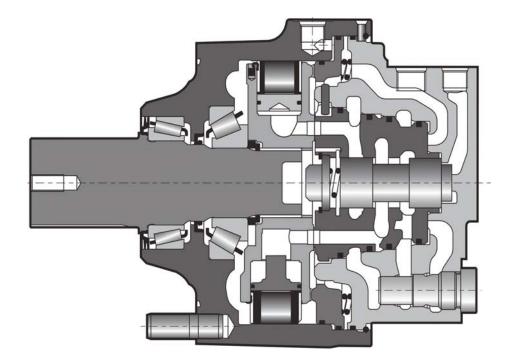
ML06 - MLE06 SKID-STEER LOADER MOTOR



TECHNICAL CATALOG



Skid-steer Loader motor ML06 - MLE06



Single displacement motor

C		Theoretical torque		Max. power	Max. speed	Max. pressure
	cm³/tr [cu.in/rev.]	at 100 bar Nm	at 1000 PSI [lb.ft]	kW [HP]	tr/min[RPM]	bar <i>[PSI]</i>
90 U 2	630 [38,4]	1 002	[509]	30 [40]	226	381 [5 526]
909 2 WICE00	842 [51,4]	1 339	[681]	. 30 [+0]	169	

Dual displacement motor

					Theoretical		Max. power				ax.	Max.	
	0 0		at 100 bar at 1000 PSI		0	2 preferred	2 non-preferred	spe 0	2ed	pressure			
		cm³/tr [c	u.in/rev.]	cm³/tr	[cu.in/rev.]	Nm	[lb.ft]	kW <i>[HP]</i>	kW [HP]	kW [HP]	tr/min	[RPM]	bar [PSI]
ML06	2	630	[38.4]	420	[25.6]	1 002	[509]	30 [40]	20 [27]	15 [20]	226	330	381 [5 526]
E06	2	842	[51.4]	561	[34.2]	1 339	[681]	30 [+0]	20 [27]	10 [20]	169	241	001 [0 020]
ML	С	702	[42.8]	421	[25.7]	1 116	[568]	-			203	322	

• First displacement

O Dual displacement



Model code

5

78

8

10

11

12

12

13

15

CONTENT

MODEL CODE

CHARACTERISTICS

Definition of shaft motor

Exchange

Efficiency

Chassis mounting

Immobilisator

Hydraulic connections

Specification of the motor's rotation direction

Characteristics

OPTIONS

Options



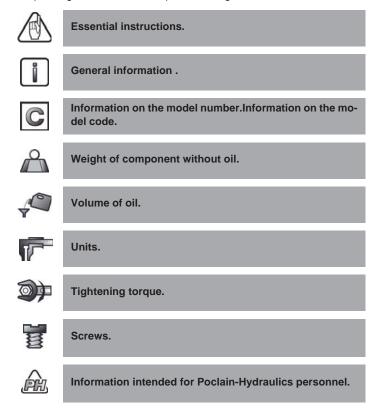
Methodology :

This document is intended for manufacturers of machines that incorporate Poclain Hydraulics products. It describes the technical characteristics of Poclain Hydraulics products and specifies installation conditions that will ensure optimum operation. This document includes important comments concerning safety. They are indicated in the following way:



Safety comment.

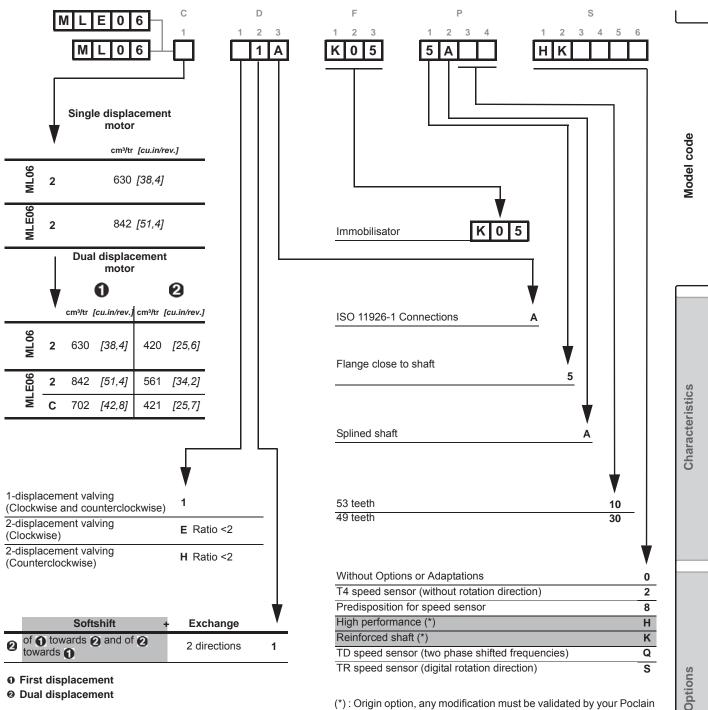
This document also includes essential operating instructions for the product and general information. These are indicated in the following way:



The views in this document are created using metric standards. The dimensional data is given in mm and in inches (inches are between brackets and italic)



MODEL CODE

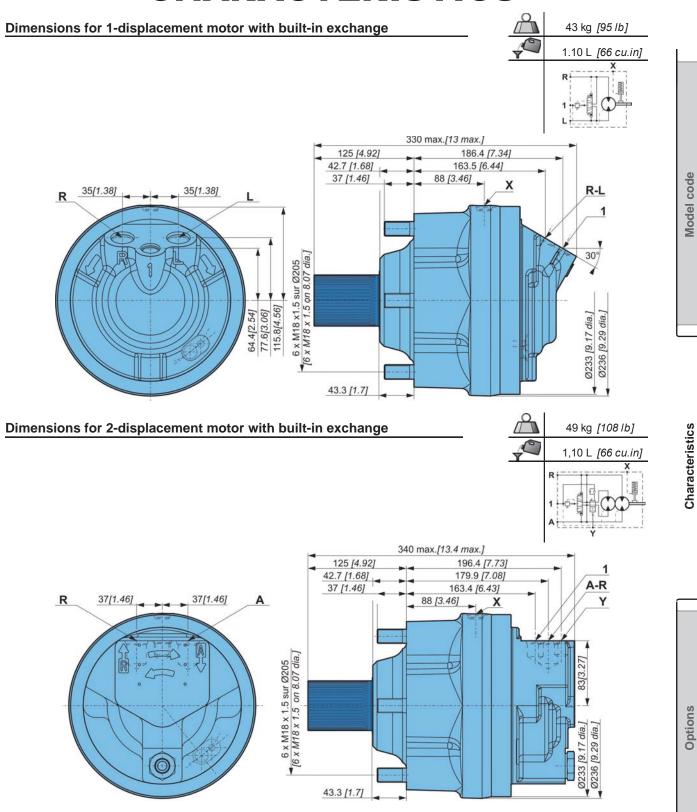


O Dual displacement

(*): Origin option, any modification must be validated by your Poclain Hydraulics application engineer.

POCLAIN HYDRAULICS

CHARACTERISTICS

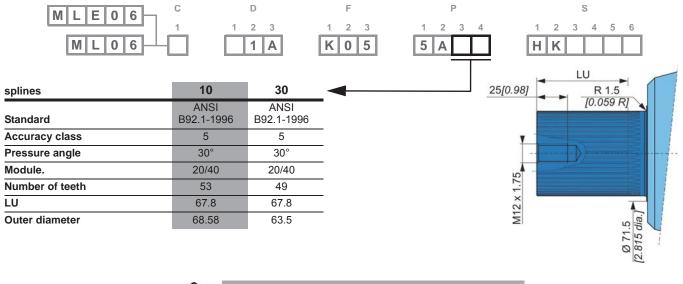


Model code

Characteristics

7

Definition of shaft motor



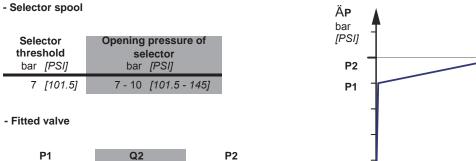


Consult your Poclain Hydraulics application engineer to check the position of pinions.

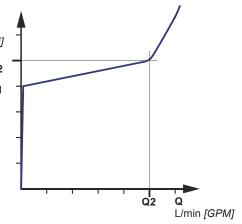
Exchange



When a coding request is made, you must specify information on the threshold of the selector and the valve.



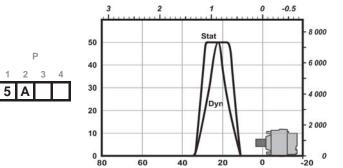
P1	Q2	P2		
bar [PSI]	L/min <i>[GPM]</i>	bar <i>[PSI]</i>		
20 [290]	12 [3.17]	31 [449.6]		



POCLAIN HYDRAULICS

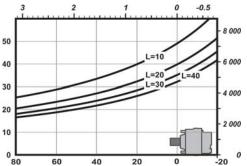
Load curves

Permissible radial loads Test conditions : Test conditions : Static : 0 rev/min 0 bar [0 PSI] Dynamic: 0 rev/min, code 2 displacement, without axial load at max. torque

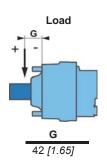


Service life of bearings

L : Millions B10 revolutions at 150 bars (average pressure), with 25 cSt fluid, code 0 displacement, without axial load.



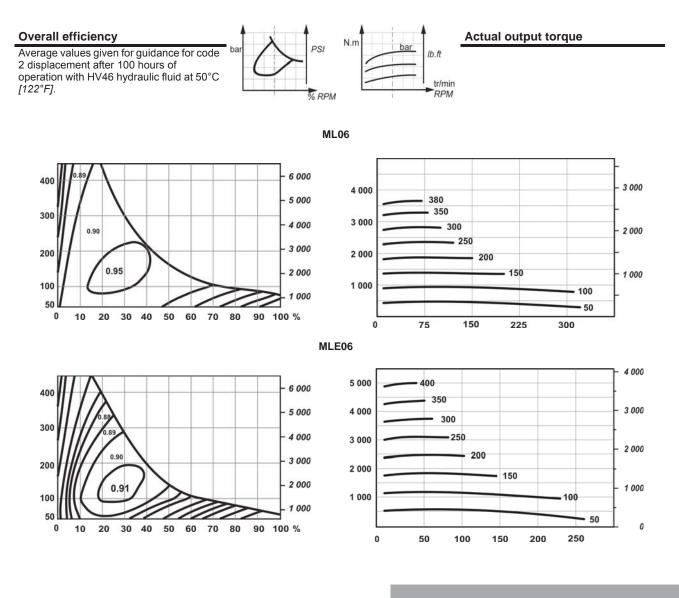
The service life of the components is influenced by the pressure.You must check that the combination of forces applied (Axial load / Radial load) is compatible with the permissible loads for the components, and that the resulting service lives of these components complies with the application's specifications. For an accurate calculation, consult your Poclain Hydraulics application engineer. 7



Model code

Skid-steer Loader motor ML06 - MLE06

Efficiency

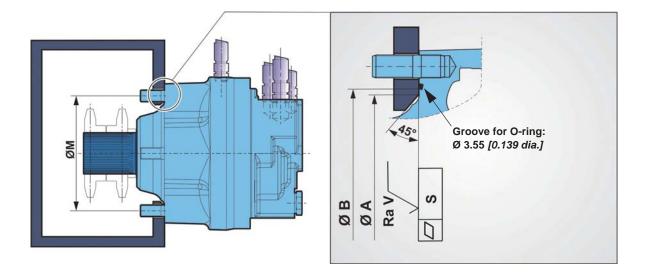




For a precise calculation, consult your Poclain Hydraulics application engineer.



Chassis mounting





Take care over the immediate environment of the connections.

Chassis mounting

ØM mm [in]	ØU mm [in]	S mm [in]	Ra V μm <i>[μin]</i>	1	Class of screw	(<i>Ib.ft</i>)
205 [8,07]	247 [9,72]	0,2 [0,01]	12,5 <i>[0,49]</i>	6 x M18	12,9	550 [406]

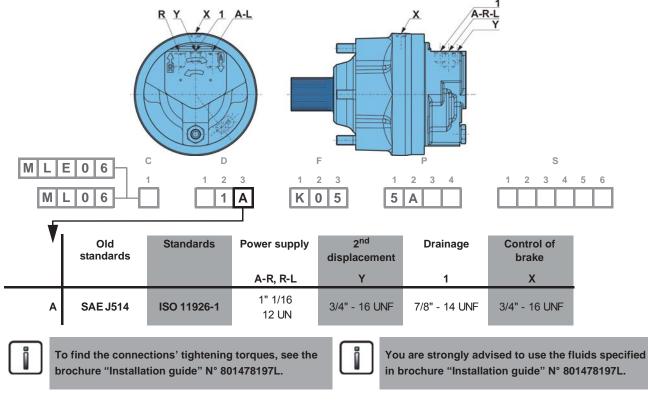
Installation constraint



To insure optimal operation, the sprocket should be contained in a sealed and self-lubricated housing. see the "Motors Generic installation" brochure No. 801478197L.

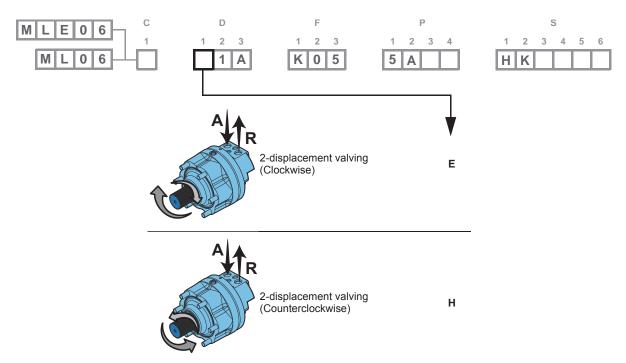
Hydraulic connections

Connections



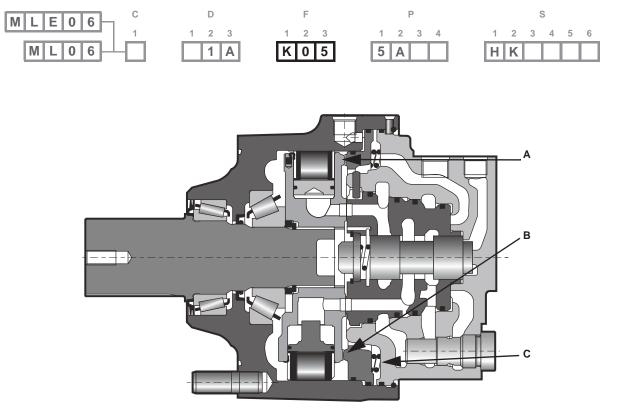
Do not put either a check valve or a poppet valve on the pilot lines (parking brake and displacement change) between the charge pump and the pilot valve. Do not use a piloting valve with integrated check valve.

Specification of the motor's rotation direction





Immobilisator



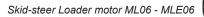
Brake principle

The parking brake consists of two parts, one static (A), one rotating (B), each borded by a row of teeth. In the absence of pressure, the (C) spring maintains part A in contact with the cylinder-block, thus immobilizing it.

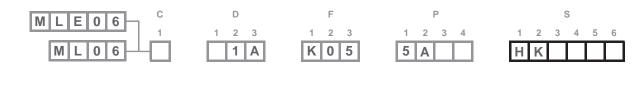
	K 0 5
Parking brake torque with 0 bars in the housing (new brake)	4 500 Nm [3 319 lb.ft]
Minimum brake release pressure	12 bar <i>[174 PSI]</i>
Maximum brake release pressure	32 bar <i>[464 PSI]</i>
Capacity	13.5 cm ³ [0.82 cu.in]
Brake release capacity	23 cm ³ [1.40 cu.in]



Do not pilot the pump when the brake is engaged.



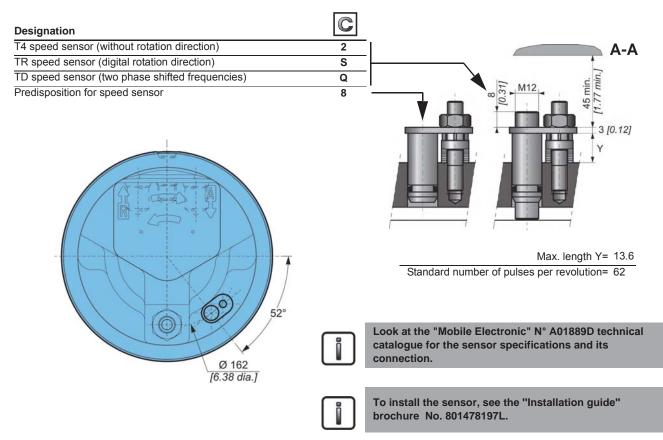
OPTIONS





You can accumulate more than one optional part. Consult your Poclain Hydraulics sales engineer.

2 - S - Q - 8 - Installed speed sensor or predisposition



Options



Poclain Hydraulics reserves the right to make any modifications it deems necessary to the products described in this document without prior notification. The information contained in this document must be confirmed by Poclain Hydraulics before any order is submitted.

Illustrations are not binding.

The Poclain Hydraulics brand is the property of Poclain Hydraulics S.A.





www.poclain-hydraulics.com