





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:

	Essential instructions.
Î	General information .
C	Information on the model number.Information on the model code.
$\hat{\Box}$	Weight of component without oil.
Y C	Volume of oil.
V	Units.
))	Tightening torque.
m	Screws.
Â	Information intended for Poclain-Hydraulics personnel.

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)



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CHARACTERISTICS Dimensions for standard 1-displacement motor

Options



08/01/2013



Motor Inertia	0.028 kg.m ²
	0.020 Kg.m

			oretical rque	Max.power	Max. speed	Max. pressure	
		0	at 100 bar	at 1000 PSI	0	0	0
	C	cm³/rev [cu.in/rev.]	Nm	[lb.ft]	kW <i>[HP</i>]	rev/min	bar <i>[PSI]</i>
	8	272 [16.6]	432	[220]		120	
	0	340 [20.7]	541	[275]	18 [24]	110	400 [5 800]
	2	408 [24.9]	649	[330]		100	

First displacement



Options

CHARACTERISTICS





Rotating retaining screws



(*) The tightening torques are given for the indicated loads.

POCLAIN HYDRAULICS

Load curves





Chassis mounting



	ØM (1)(2) mm [in]	S mm <i>[in]</i>	Ra V μm <i>[μin]</i>		Class of screw	N.m [lb.ft]
20	04.9 [8.07]	0.2 [0.01]	12.5 [0.49]	7 x M12 x1.75	12.9	145 [107]

(1)	+ 0.3 [+0.012]	
• •	+ 0.2 [+0.008]	
(2)	+ 0.4 [+0.016]	
• •		

+ 0.3 [+0.012]

Hydraulic connections

connections





	Old standards	Standards	Power supply R,L	Drainage 1	Control of brake X
A	SAEJ514	ISO 11 926-1	3/4" - 16 UNF	9/16" - 18 UNF	1/2" - 20 UNF
4	DIN 3 852 NFE 48 050	ISO 9 974-1	M22 x 1.5	M16 x 1.5	M14 x 1.5

Do not put either a check valve or a poppet valve on the pilot line.



To find the connections' tightening torques, see the brochure "Installation guide" N° 801478197L.



You are strongly advised to use the fluids specified in brochure "Installation guide" N° 801478197L.

Immobilisator



Principle:

This static brake consists of two toothed parts, one mobile (A), and the other fixed (B). When stationary, with no pressure, a spring (C) pushes the mobile part to mesh with the teeth of the cylinder block to immobilise it.

Parking brake torque with 0 bars in the housing (new brake)	3 170 Nm [2 338 lb.ft]
Minimum brake release pressure	17 bar <i>[246.6 PSI]</i>
Maximum brake release pressure	30 bar [435.1 PSI]
Capacity	23 cm³ <i>[1.4 cu.in]</i>
Brake release capacity	14 cm³ <i>[0.8 cu.in]</i>

OPTIONS



2 - 8 - Installed speed sensor or predisposition



3 - Mechanical brake-release



A - Hallow shaft



Mounting bolt for high speed motor

	Classe	N.m 🎾 [lb.ft]
4 x M8 x 1.25	10.9	295 [218]

(*) The tightening torques are given for the indicated loads.

Options

Model code

Characteristics

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Illustrations are not binding.

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More information on

