

TECHNICAL CATALOG





Methodology:

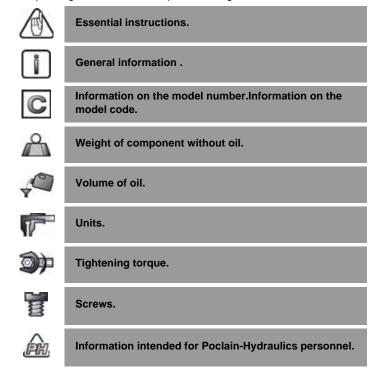
This document is intended for manufacturers of machines that incorporate Poclain Hydraulics products. It describes the technical characteristics of Poclain Hydraulics products and specifies installation conditions that will ensure optimum operation.

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)





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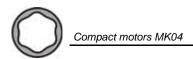
OPTIONS 10

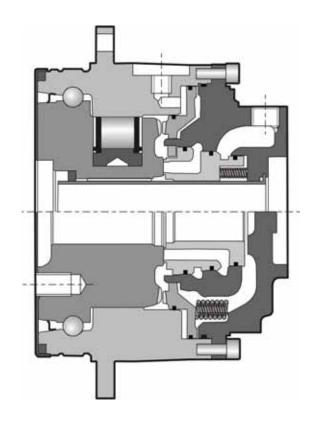
08/01/2013

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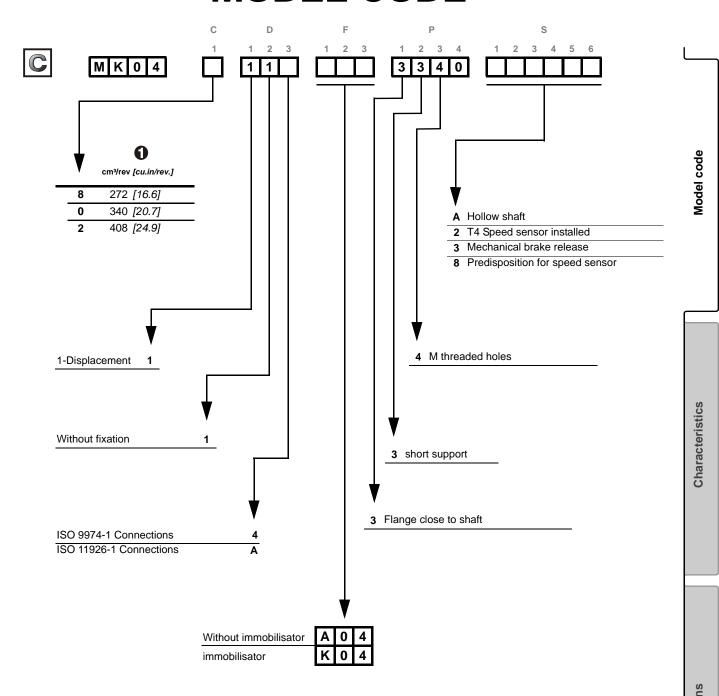
Motor Inertia 0.028 kg.m²

0		Theoretical torque		Max.power	Max. speed	Max. pressure	
C	cm³/rev [cu.in/rev.]	at 100 bar Nm	at 1000 PSI [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 <i>[24]</i>	110	400 <i>[5 800]</i>	
2	408 [24.9]	649	[330]		100		

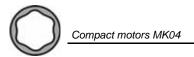
First displacement



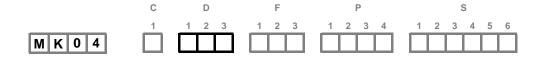
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CHARACTERISTICS



Dimensions for standard 1-displacement motor 30 kg [66 lb] 31 kg [68 lb] 0.35 L [21 cu.in] 0.35 L [21 cu.in] D 119.5 [4.70] 54 [2.13] 53.2 [2.09] 102 [4.02] 1 - X 32.6 4 [0.16] 40 [1.57] [1.28] R-L 7 x Ø12.5 12 [0.47] 0 Ø256 [10.08 dia.] [7 x 0.5 dia.] Ø233 [9.17 dia.] Ø195.9 [7.71 dia.] 5 x M16 3.9 Ø100 (3.94 41.2 [1.62] Ø204.9±0.15 [8.06 dia.±0.006] Ø204.9±0.1 [8.06 dia.±0.004] 12 [0.47] 12 [0.47]

Rotating retaining screws



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

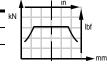
Load curves

Permissible radial loads

Test conditions:

Static: 0 rev/min 0 bar [0 PSI]

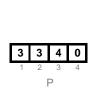
Dynamic: 0 rev/min, code 2 displacement, without axial load at max. torque

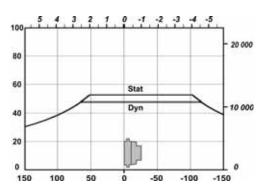


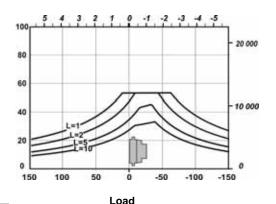
Service life of bearings

Test conditions:

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









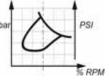
The service life of the components is influenced by the pressure. You must check that the combination of forces applied (Axial load / Radial load) is compatible with the permissible loads for the components, and that the resulting service lives of these components complies with the application's specifications.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

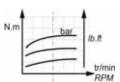


Efficiency

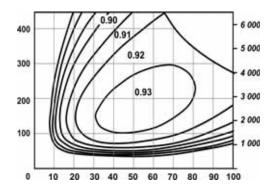
Overall efficiency

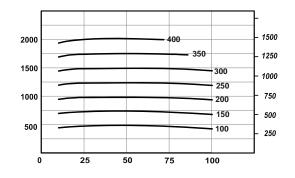
Average values given for guidance for code 2 displacement after 100 hours of operation with HV46 hydraulic fluid at 50°C [122°F].





Actual output torque



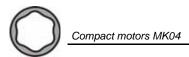




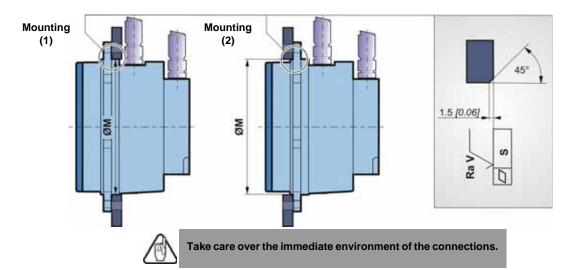
The starting torque is taken to be approximately 85% of the first value for available pressure. For a precise calculation, consult your Poclain Hydraulics application engineer. Model code

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Chassis mounting

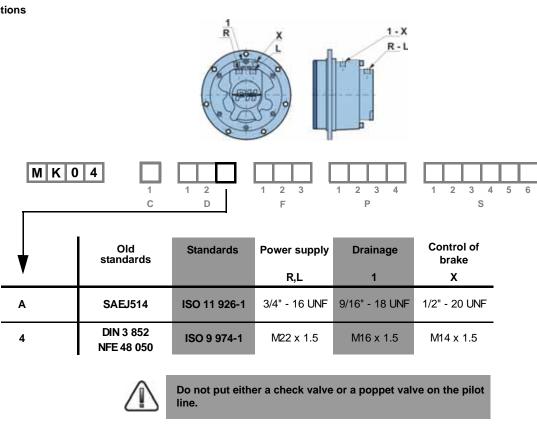


ØM (1)(2) mm [in]	S mm [in]	Ra V µm <i>[µin]</i>		Class of screw	N.m [lb.ft]
204.9 [8.07]	0.2 [0.01]	12.5 [0.49]	7 x M12 x1.75	12.9	145 [107]

^{(1) + 0.3 [+0.012]} + 0.2 [+0.008] (2) + 0.4 [+0.016]

Hydraulic connections

connections

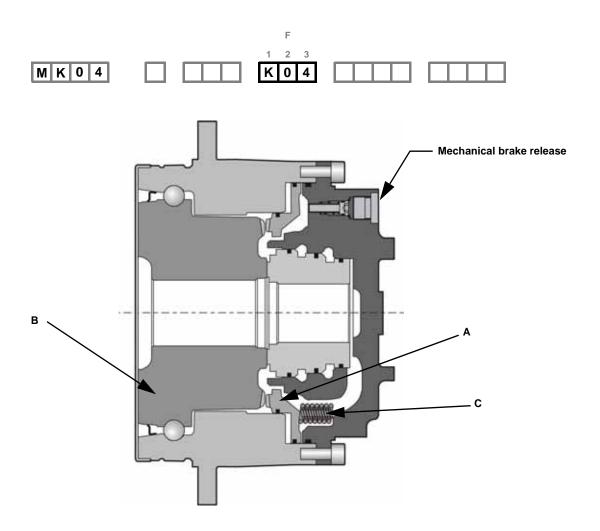




To find the connections' tightening torques, see the brochure "Installation guide" N° 801478197L.

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

Immobilisator



Principle:

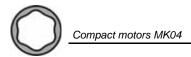
This static brake consists of two toothed parts, one mobile (A), and the other fixed (B). When stationary, with no pressure, a spring (C) pushes the mobile part to mesh with the teeth of the cylinder block to immobilise it.

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

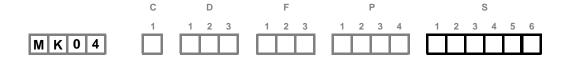
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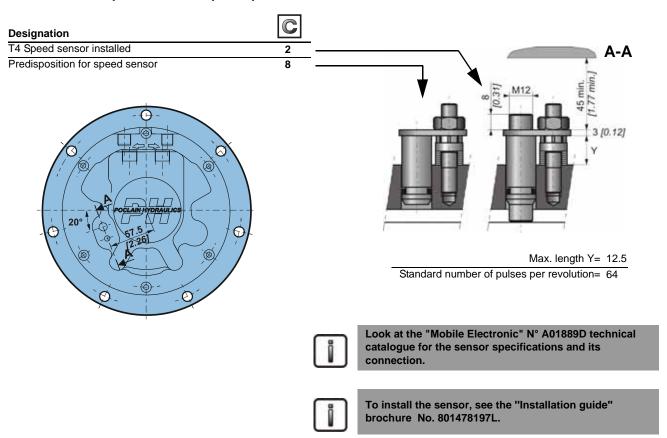
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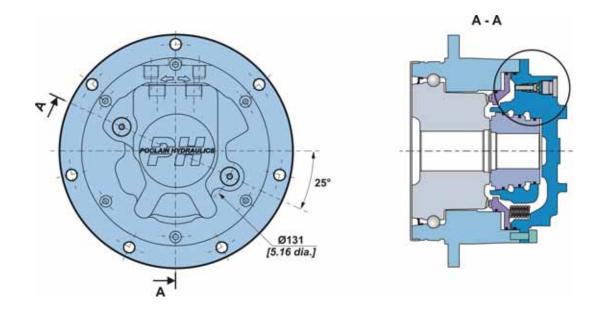


You can accumulate more than one optional part. Consult your Poclain Hydraulics sales engineer.

2 - 8 - Installed speed sensor or predisposition

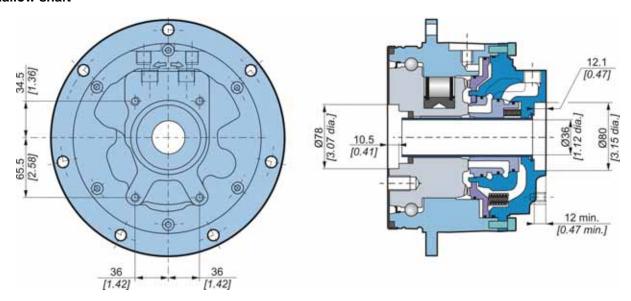


3 - Mechanical brake-release



Refer to the "Installation guide" catalogue, N° 801478197L.

A - Hallow shaft



Mounting bolt for high speed motor

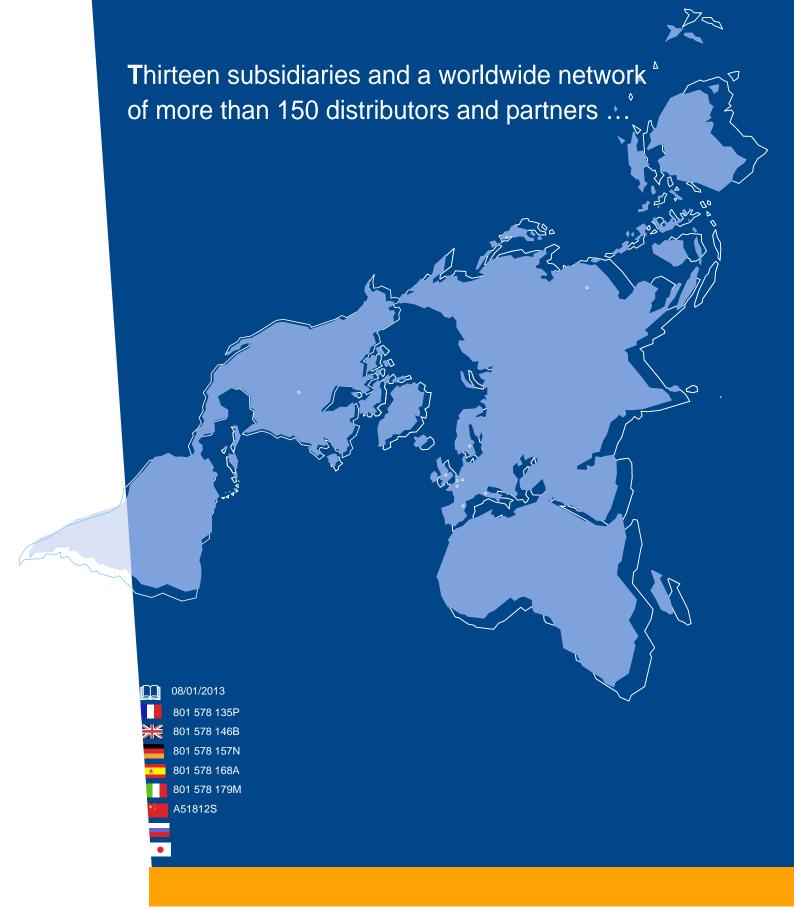
	Classe	N.m [lb.ft]	_
4 x M8 x 1.25	10.9	295 [218]	_

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

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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.

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More information on

