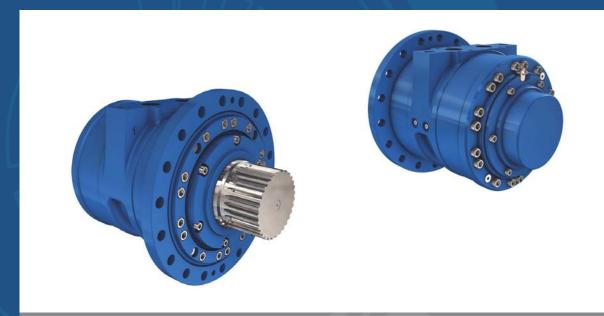
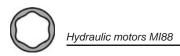
M188 HYDRAULIC MOTORS

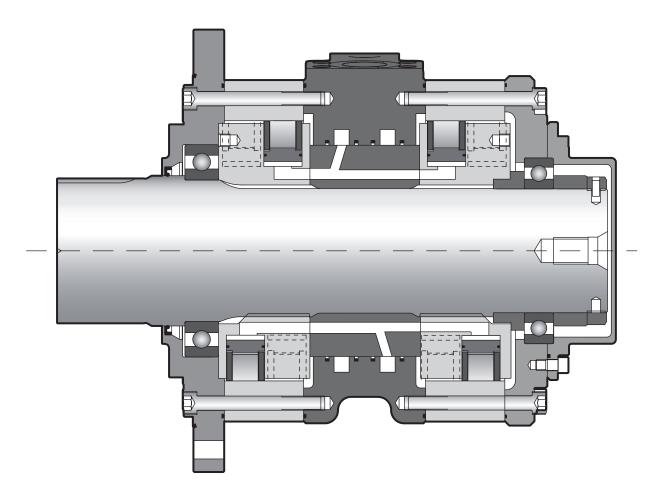


TECHNICAL CATALOG





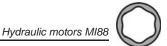
CHARACTERISTICS



		Theoretical torque		Max.power	Max.speed	Pression max.
C	0	at ∆P 100 bar at ∆P 1000 PSI		0		
	cm³/tr [cu.in/rev.]	Nm	[lb.ft]	kW [HP]	tr/min[RPM]	bar [PSI]
8	7000 <i>[426,9]</i>	11130	[5 660]	- - 265 [355] -	140 <i>[140]</i>	450 [6 527]
9	7920 [483,0]	12593	[6 404]		130 [130]	
0	8800 [536,7]	13992	[7 115]		120 [120]	
2	10400 [634,3]	16536	[8 409]		100 [100]	

First displacement

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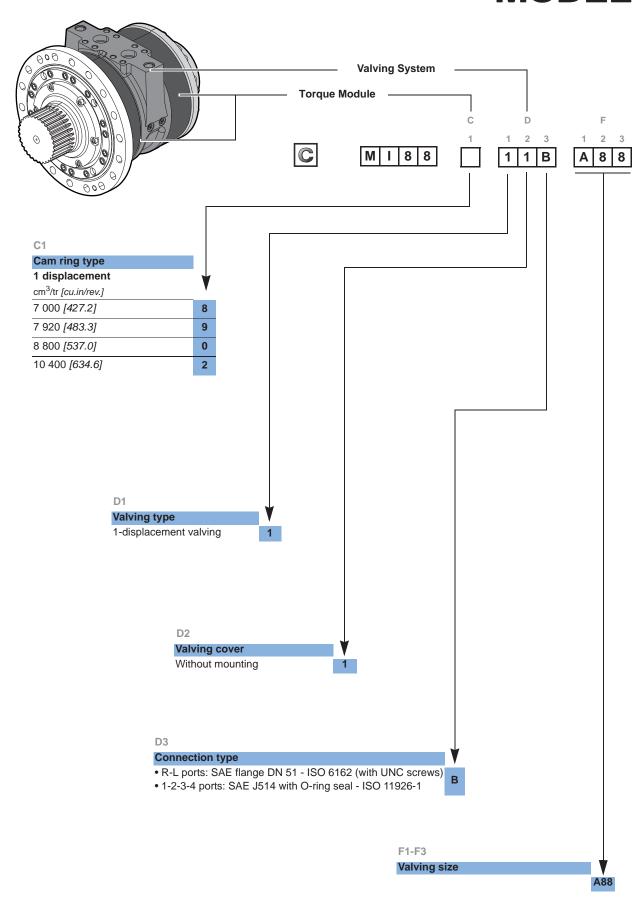
CONTENT

Model code **MODEL CODE** Motors **MOTORS** Motor with splined shaft 7 8 Efficiency and output torque **VALVING SYSTEM** Hydraulic connections 9 Installation **INSTALLATION** 11 Lifting method 11 Torque arms mounting 11 Bracket mounting 12 **OPTIONS** Options

06/09/2018

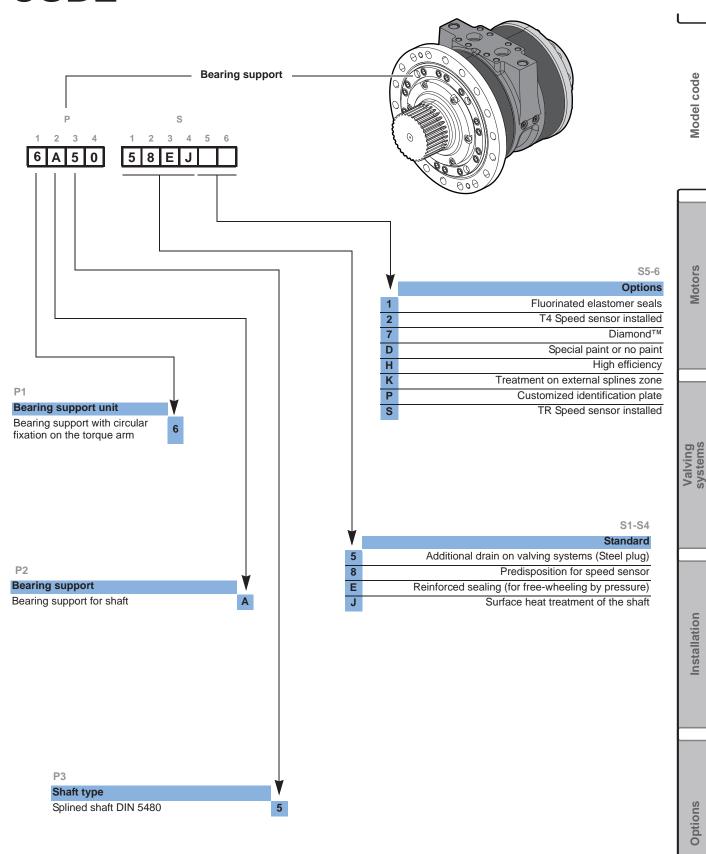


MODEL





CODE



06/09/2018 5



Hydraulic motors MI88 **POCLAIN HYDRAULICS**

Methodology:

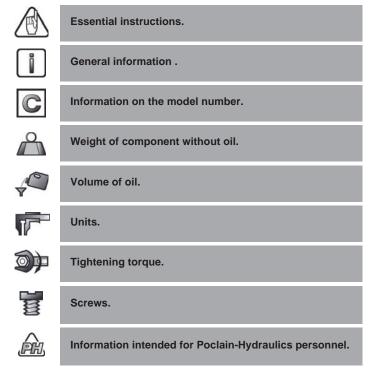
This document is intended for manufacturers of machines that incorporate Poclain Hydraulics products. It describes the technical characteristics of Poclain Hydraulics products and specifies installation conditions that will ensure optimum operation.

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:

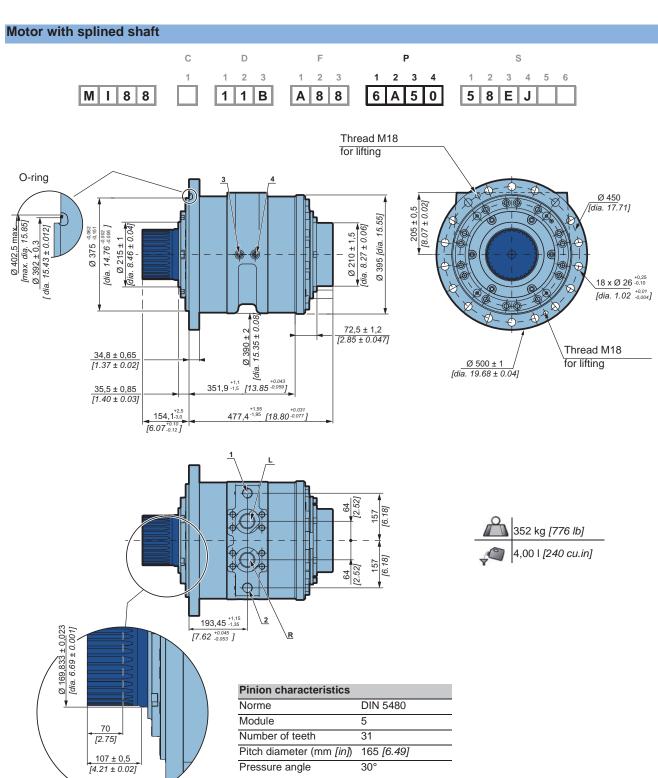


The views in this document are created using metric standards. The dimensional data is given in mm and in inches (inches are between brackets and italic)



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MOTORS



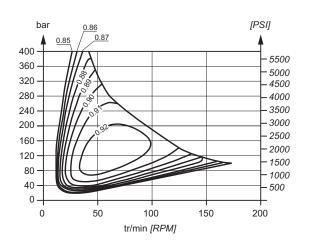


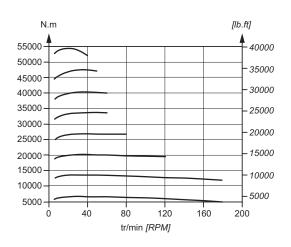
Efficiency and output torque

Overall efficiency

Average values given for guidance for code 0 displacement after 100 hours of operation with HV46 hydraulic fluid at 50°C [122°F].

Actual output torque







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

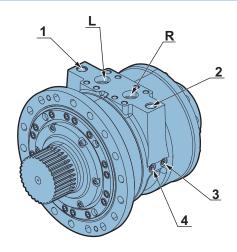
Model code

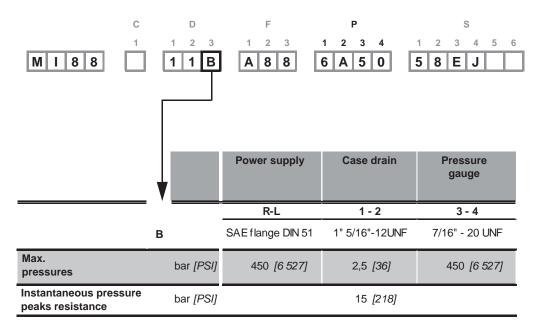
Motors

Valving systems

VALVING SYSTEM

Hydraulic connections

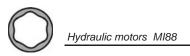




You are strongly advised to use the fluids specified in brochure "Installation guide" N° 801478197L.



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

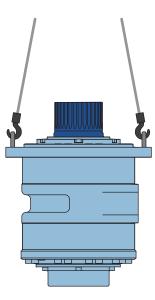


INSTALLATION

Lifting method



Before any lifting we recommend you to check the center of gravity position.



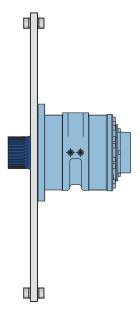


MI88 motor can't accept any axial or radial load.

Torque arms mounting

We recommend a length of the torque arm of 800 mm [31.50 in].

In order to avoid residual forces due to misalignment and twisting, the end of the arms must retain freedom of movement in 2 axis.



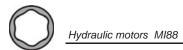
Model code

Motors

Valving

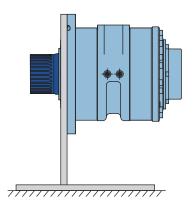
Installation

Options



Bracket mounting

To avoid axial or radial loads, we recommend you to check particularly the alignment of the axis.





For more information see technical catalogue " Installation guide N° 801478197L.



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



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

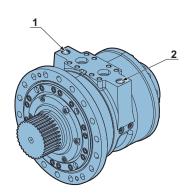
Model code



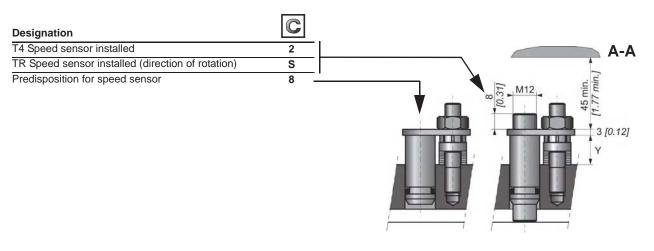


You can accumulate more than one optional part. Consult your Poclain Hydraulics sales engineer.

Drain on the valving system



S Installed speed sensor or predisposition



Max. length Y = 18,65 [0.73]

Standard number of pulses per revolution = 60



Look at the "Mobile Electronic" N° A01889D technical catalogue for the sensor specifications and its connection.



To install the sensor, see the "Installation guide" brochure No. 801478197L.

Options

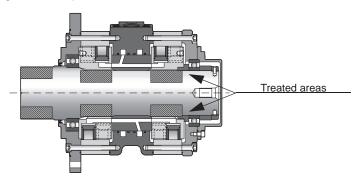
Installation

06/09/2018



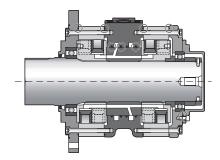
J Treated shaft

Heat treatment on the indicated bearing radius and splines.



1 Fluorinated elastomer seals

Nitrile seals marked in the figure below replaced by fluorinated elastomer seals.





Consult your Poclain Hydraulics sales engineer.

7 Diamond™

Special treatment of the motor core which considerably increases its strength, making the motor much more tolerant to temporary instances of the operating conditions being exceeded.

D Special paint or no paint

The motors are delivered with Poclain Hydraulics yellow ochre primer as standard.



Consult your Poclain Hydraulics application engineer for other colors of primer or topcoat.

H High efficiency

Reinforced piston sealing to improve volumetric efficiency.



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

P Customized identification plate

Your part number can be engraved on the plate.



Consult your Poclain Hydraulics application engineer for other possibilities.

E Reinforced sealing

For free-wheeling by pressure.

Treatment on external splines zone

Model code

Motor

Valving

Installation

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.

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