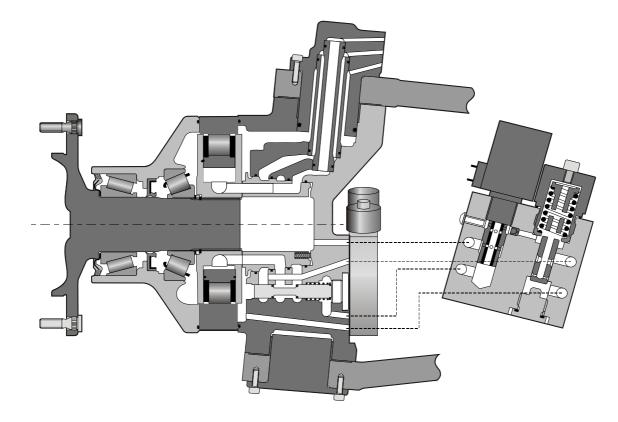
# MG11 - MGE11 STEERABLE WHEEL MOTOR



### TECHNICAL CATALOG





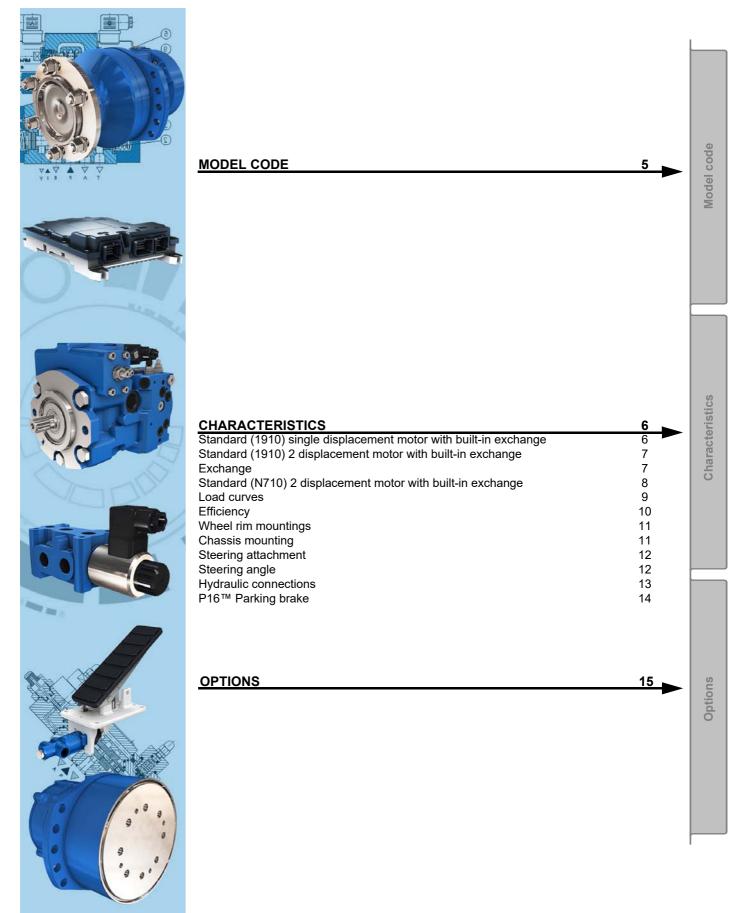
Motor Inertia : 0.05 kg.m<sup>2</sup>

Theoretical Max. Max. Max.power speed torque pressure 0 0 0 2 preferred 0 0 0 2 non-preferred at 100 bar at 1000 PSI kW [HP] kW [HP] cm³/tr [cu.in/rev.] cm³/tr [cu.in/rev.] kW [HP] tr/min [lb.ft] [RPM] bar [PSI] Nm 7 730 [44.5] 365 [22.3] 1,161 [590] 200 8 1,331 837 [51.0] 419 [25.5] [677] 195 Cams with equal lobes 1,499 190 9 943 [57.5] 472 [28.8] [762] 450 [6,530] **MG11** 0 1,048 [63.9] 524 [32.0] 1,666 [847] 185 180 1 1,147 [70.0] 574 [35.0] 1,824 [927] 50 [67] 33 [44] 25 [34] 2,002 [1,018] 170 175 2 1,259 [76.8] 630 [38.4] 9 1,263 [77.0] 632 [38.5] 2,008 [1,021] 170 190 MGE11 2,232 155 0 1,404 [85.6] 702 [42.8] 185 [1,135] 400 [5,800] 2,442 180 140 1 1,536 [93.7] 768 [46.8] [1,242] 2 1,687 [102.9 844 [51.4] 2,682 [1,364] 130 165 Cams with unequal lobes 629 [38.4] MG11 1,048 [63.9] 1,666 170 Α [847] 450 [6,530] 419 [25.6] 50 [67] 33 [44] 25 [34] 843 [51.4] MGE11 1,404 [85.6] 2,232 [1,135] 120 400 [5,800] Α 561 [34.2]

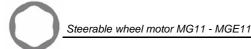
First displacement

Ø Second displacement

### CONTENT



27/02/2024



#### 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:



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

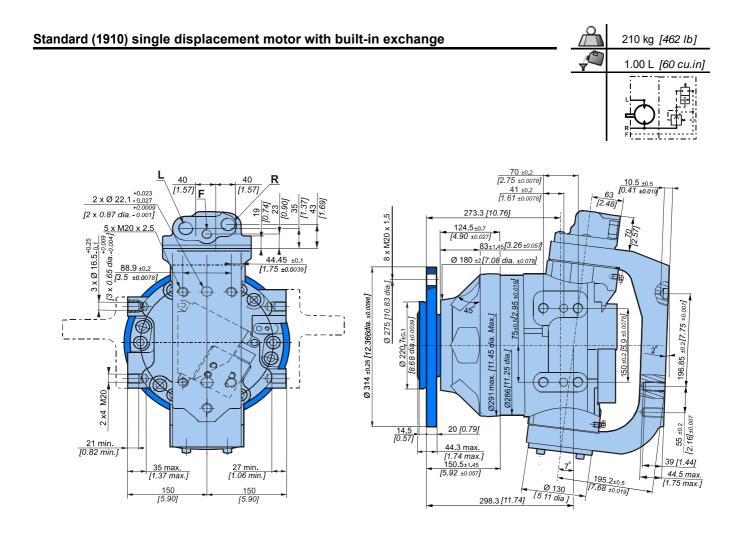
	Essential instructions.
Ĩ	General information.
C	Information on the model number.
	Weight of component without oil.
Y	Volume of oil.
	Units.
	Tightening torque.
100	Screws.
<u>A</u>	Information intended for Poclain-Hydraulics personnel.

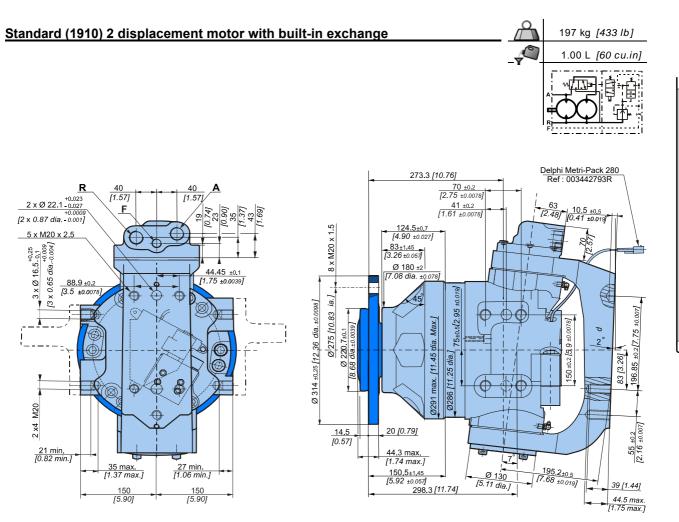
The views in this document are created using metric standards. The dimensional data is given in mm and in inches (inches are given in brackets in italics).

### **MODEL CODE**

М	0 cm³/tr [cu.in/rev. 7 730 [44.5	5] 365 [22.3]	D F P S 2 3 1 2 3 1 2 3 4 1 2 3 4 5 6 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Model code
bes 11	<b>8</b> 837 [51.0 <b>9</b> 943 [57.5			
Cams with equal lobes SE11 MG11	<b>0</b> 1,048 [63.9	9] 524 [32.0]	Without attachments 0	$\square$
ih ec	<b>1</b> 1,147 [70.0			
<u> </u>	<b>2</b> 1,259 [76.8 <b>9</b> 1,263 [77.0			
ams 11				
Carr MGE11				CS
2	<b>1</b> 1,536 [93.7 <b>2</b> 1,687 [102.		Crossing motor axis 1	risti
Cams with unequal lobes MGE11 MG11	<ul> <li>A 1,048 [63.9</li> <li>A 1,404 [85.6</li> <li>displacement</li> </ul>	419 [25.6] 843 [51.4]	Standard bearing support1P16 <sup>TM</sup> Parking brakeN $8 \times M20 \times 1.5$ on Ø2759 $8 \times M20 \times 1.5$ on Ø275 *7 $8 \times M20 \times 1.5$ on Ø275 *7* Standard for P16 <sup>TM</sup> brake.	Characteristics
-	nd displacement		Without studs 1	
•		¥	With studs + nuts     2       With studs     3	
1-displa	cement valving	RCWLCCWDRatio	M threaded holes 4	
2-displa (Clockw	cement valving ise)	<ul><li>E Ratio &lt;2</li><li>F Ratio &gt;2</li></ul>	T4 speed sensor (without rotation direction)     2       Diamond 7 <sup>M</sup> 7	Options
2-displa (Counte	cement valving rclockwise)	G         Ratio         2           H         Ratio         2           J         Ratio         2	Predisposition for speed sensor8Reinforced sealingETD speed sensor (two phase shifted frequencies)Q	0
	tion with built-in excl	hange	TR speed sensor (digital rotation direction) S	
UNF ISC	0 11926-1		9	
UNF ISC			<u>A</u>	
UNF-ISC	) 8434-3		В	

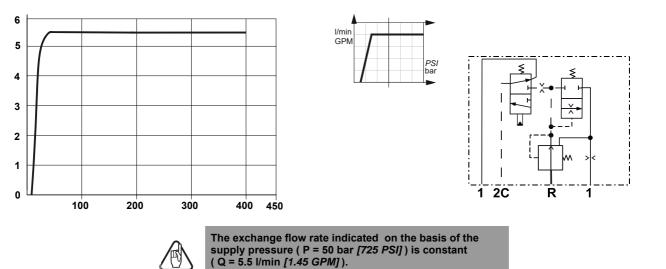
## **CHARACTERISTICS**

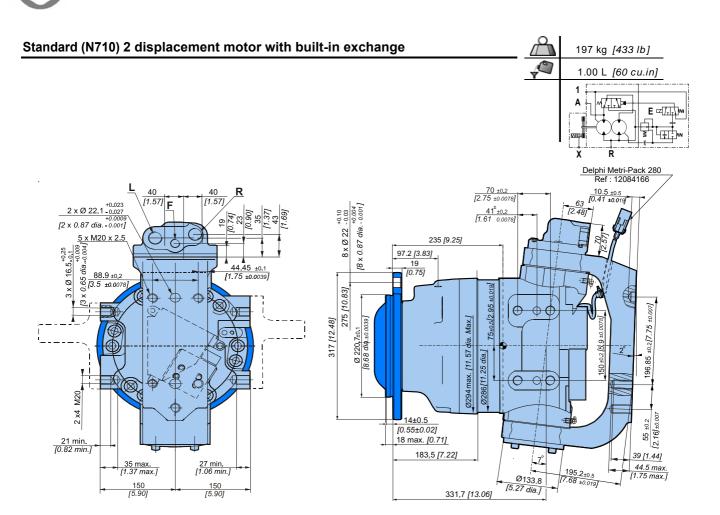




#### Exchange

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

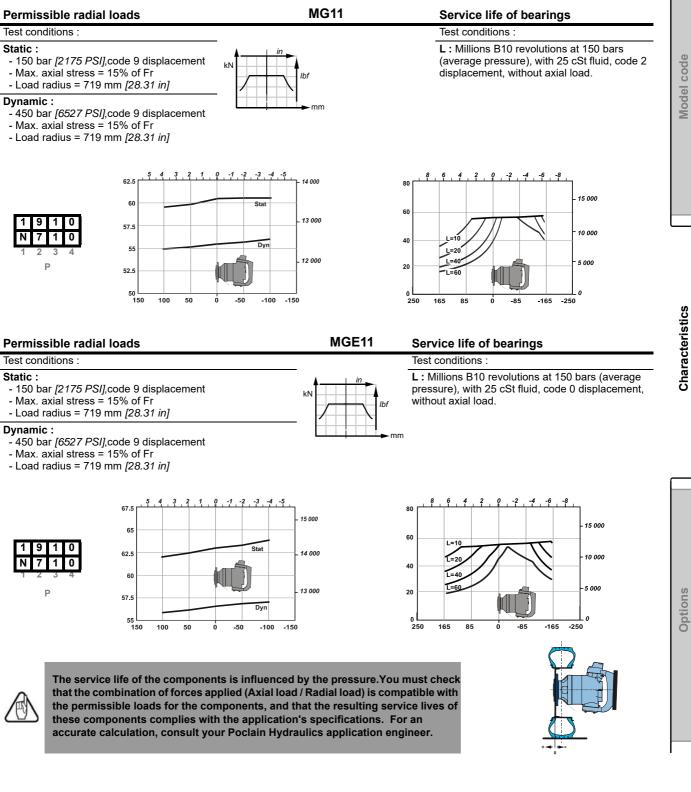




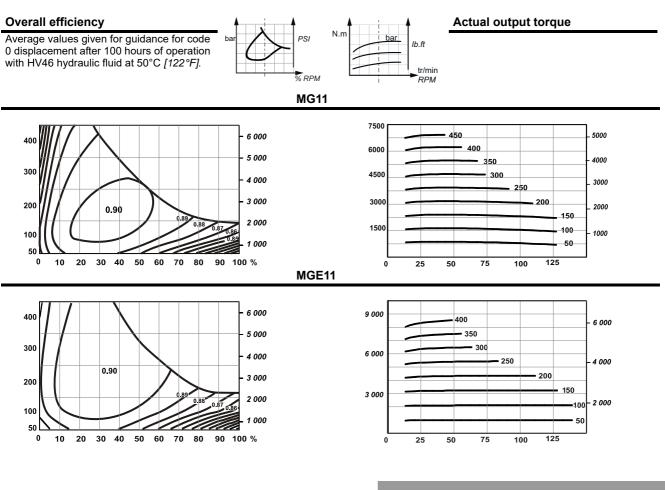
#### Load curves



The given load curves correspond to the conditions specified below. For load curves corresponding to your specifications, contact a Poclain Hydraulics engineer.



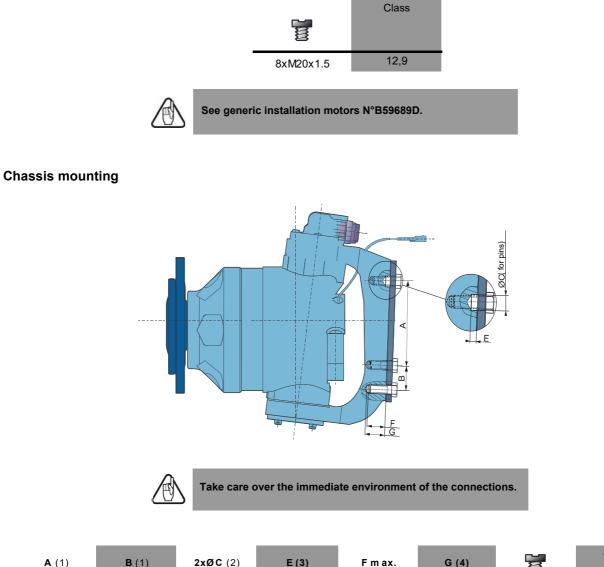
#### Efficiency





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

#### Wheel rim mountings



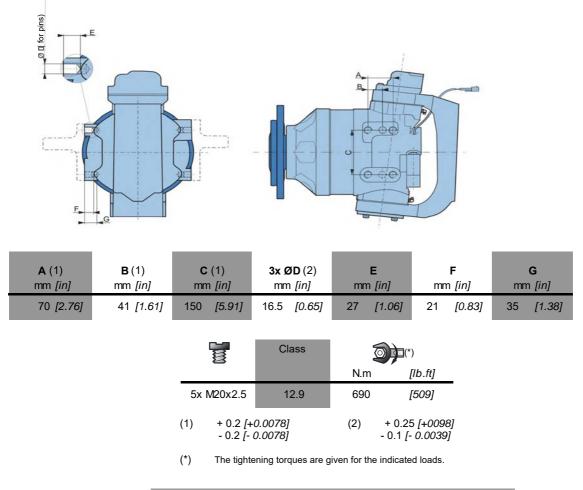
<b>A</b> (1) mm <i>[in]</i>	<b>B</b> (1) mm <i>[in]</i>	<b>2xØC</b> (2) mm <i>[in]</i>	<b>E (3)</b> mm <i>[in]</i>	<b>F m ax.</b> mm <i>[in]</i>	<b>G (4)</b> mm <i>[in]</i>		Class
196,85 [7,75]	55 [2,17]	22,1 [0,87]	10,5 [0,41]	39 [1,54]	44,5 [1,75]	5xM20x2.5	12.9
(1)	+ 0.2 [+0.0078] - 0.2 [- 0.0078]	(2)	+0.023 [+0.0009 -0.0027 [- 0.001		+ 0.5 [+0.07 - 0.5 [- 0.01		

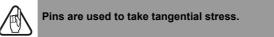


Pins are used to take tangential stress.

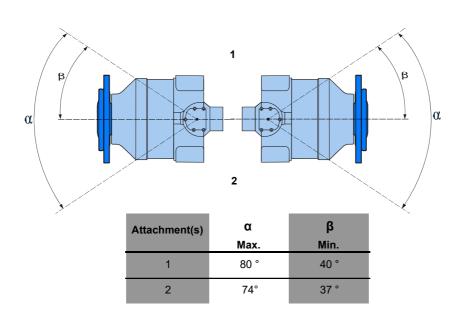
Model code

#### **Steering attachment**

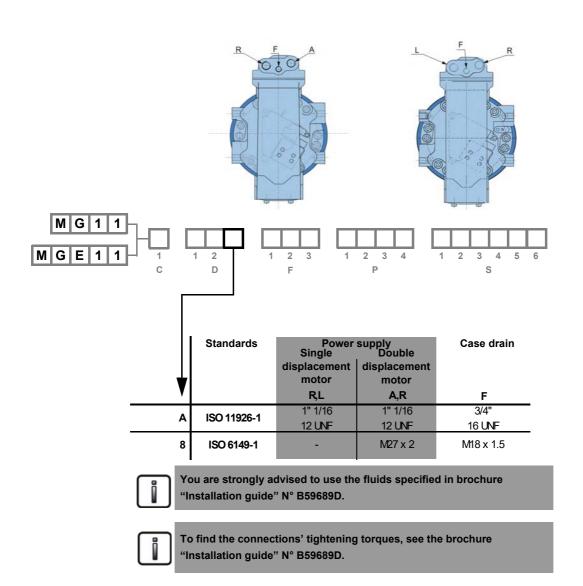




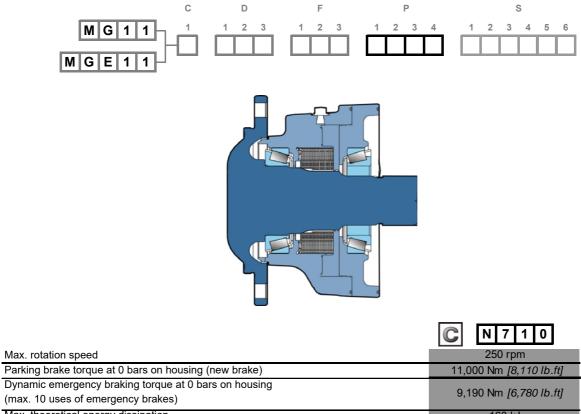
**Steering angle** 



#### Hydraulic connections



#### P16<sup>™</sup> Parking brake



(max. To uses of emergency brakes)	
Max. theoretical energy dissipation	160 kJ
Min. release brake pressure	16 bar <i>[232 PSI]</i>
Max. release brake pressure	30 bar <i>[435 PSI]</i>
Oil capacity	320 cm³ <i>[19.5 cu.in]</i>
Volume for brake release	66.5 cm³ <i>[4.1 cu.in]</i>

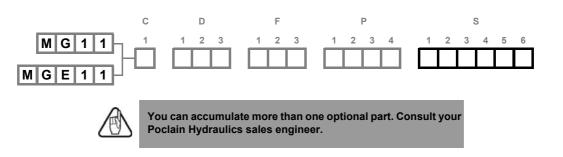
Do not run-in the multidisc brakes.

A functional check of the parking brake must be carried out each time it is used as an auxiliary brake (or emergency brake). For all vehicles capable of speeds over 25 km/h, please contact your Poclain Hydraulics application engineer.

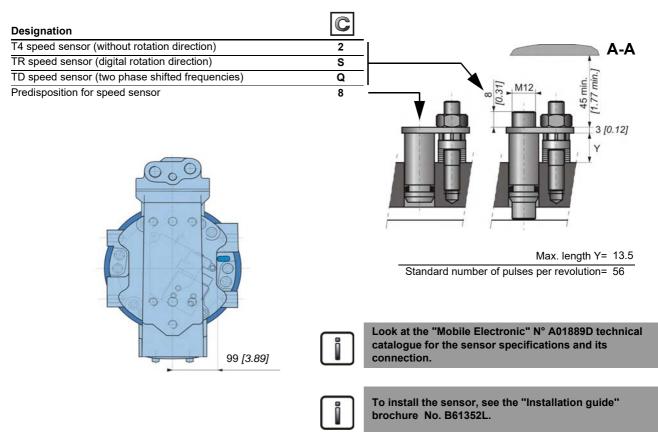


The use of certain oils may not offer the characteristics stated above. Consult your Poclain Hydraulics application engineer.

### **OPTIONS**



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



#### 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.

#### **E** - Reinforced sealing

Requires reinforcement of shaft bearings.

Model code

Characteristics

Options

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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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