

MS83

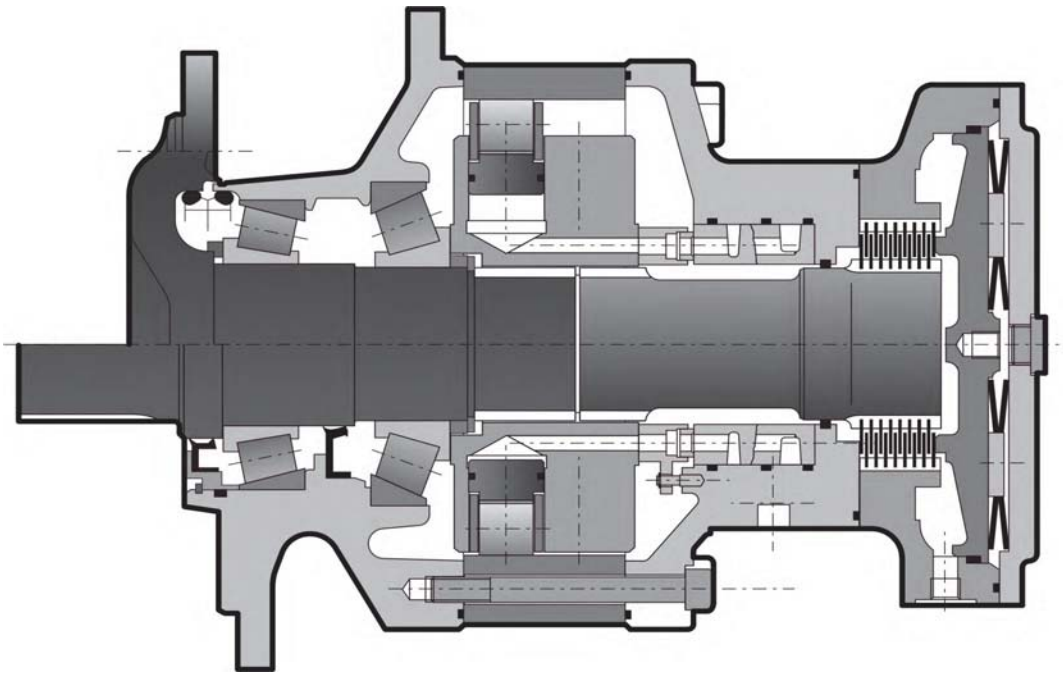
HYDRAULIC MOTORS



T E C H N I C A L C A T A L O G



CHARACTERISTICS



Motor inertia 2 kg.m²

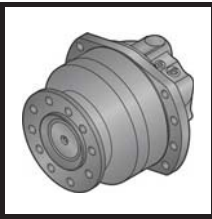
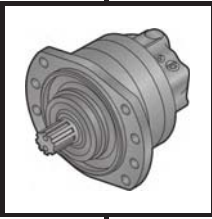
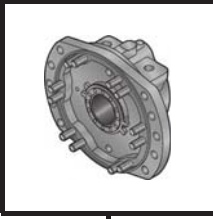
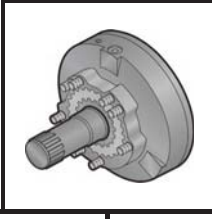
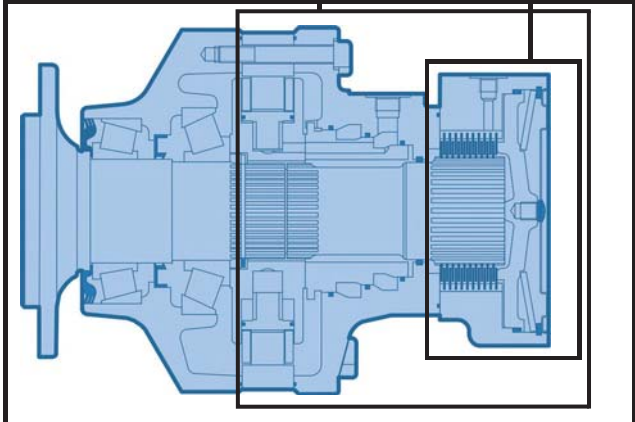
	C	Displacement		Theoretical torque		Max.power		Max.speed			Pressure max. bar [PSI]
		1	2	1		1	2	1	1	2	
		cm ³ /tr [cu.in/rev.]	cm ³ /tr [cu.in/rev.]	at ΔP 100 bar Nm	at ΔP 1000 PSI [lb.ft]	kw [HP]	kw [HP]	(1) tr/min [RPM]	(1) tr/min [RPM]	(2) tr/min [RPM]	
Cams with equal lobes	8	6 679 [407,4]	3 340 [203,7]	10 620	[5 400]	200 [268]	135 [181]	200	125	145	450 [6 527]
	0	8 328 [507,9]	4 164 [254,0]	13 242	[6 734]			160	100	125	
	2	10 019 [611,1]	5 010 [305,5]	15 930	[8 101]			130	85	100	
Cams with unequal lobes	Q	6 658 [406,1]	4 164 [254,0]	10 586	[5 383]	200 [268]	135 [181]	180	90	105	450 [6 527]
			2 494 [152,1]								
	A	8 349 [509,2]	5 009 [305,5]	13 275	[6 751]						
3 340 [203,7]											

- 1 First displacement
- 2 Second displacement

(1) Values for single displacement motor only.

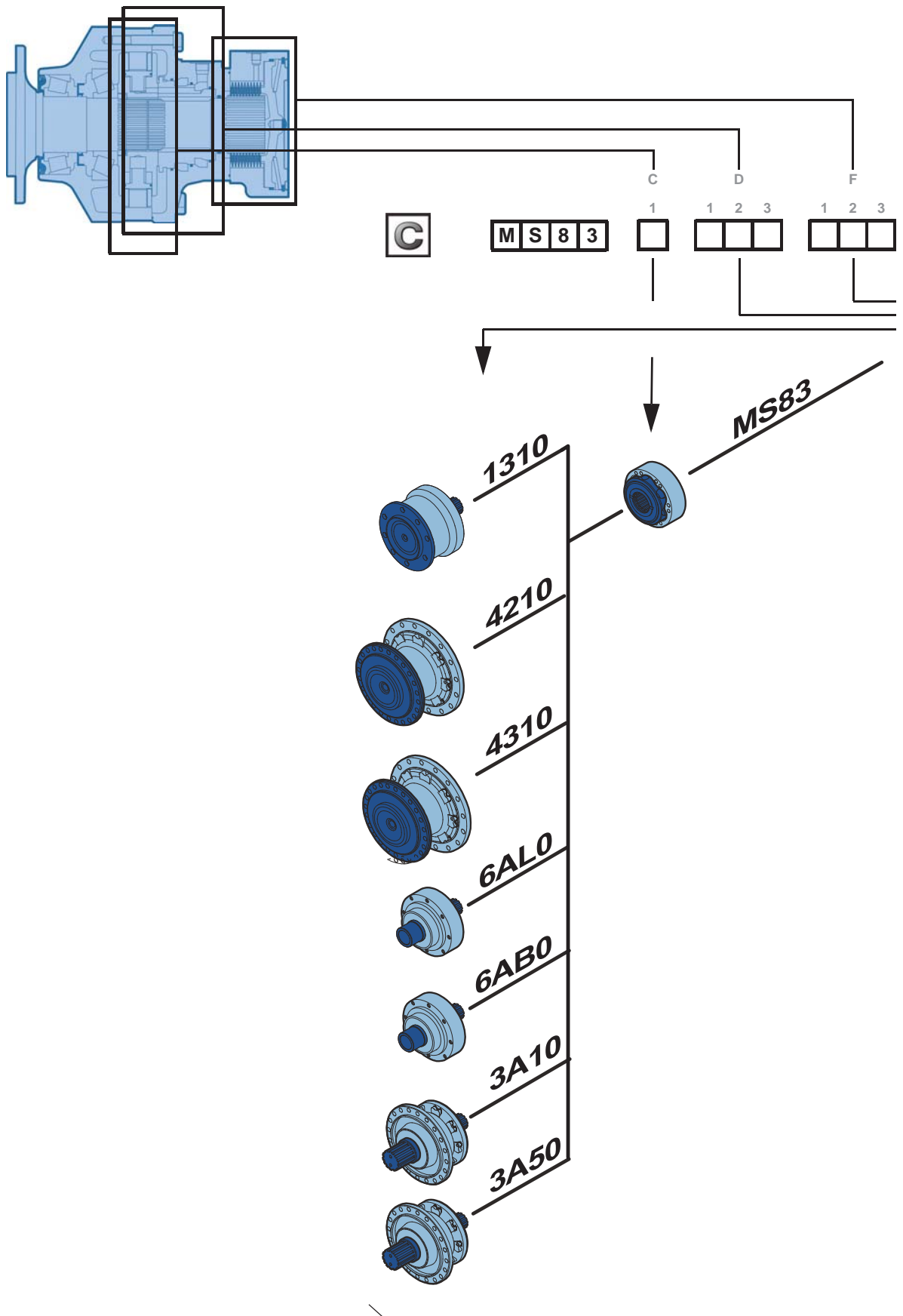


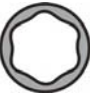
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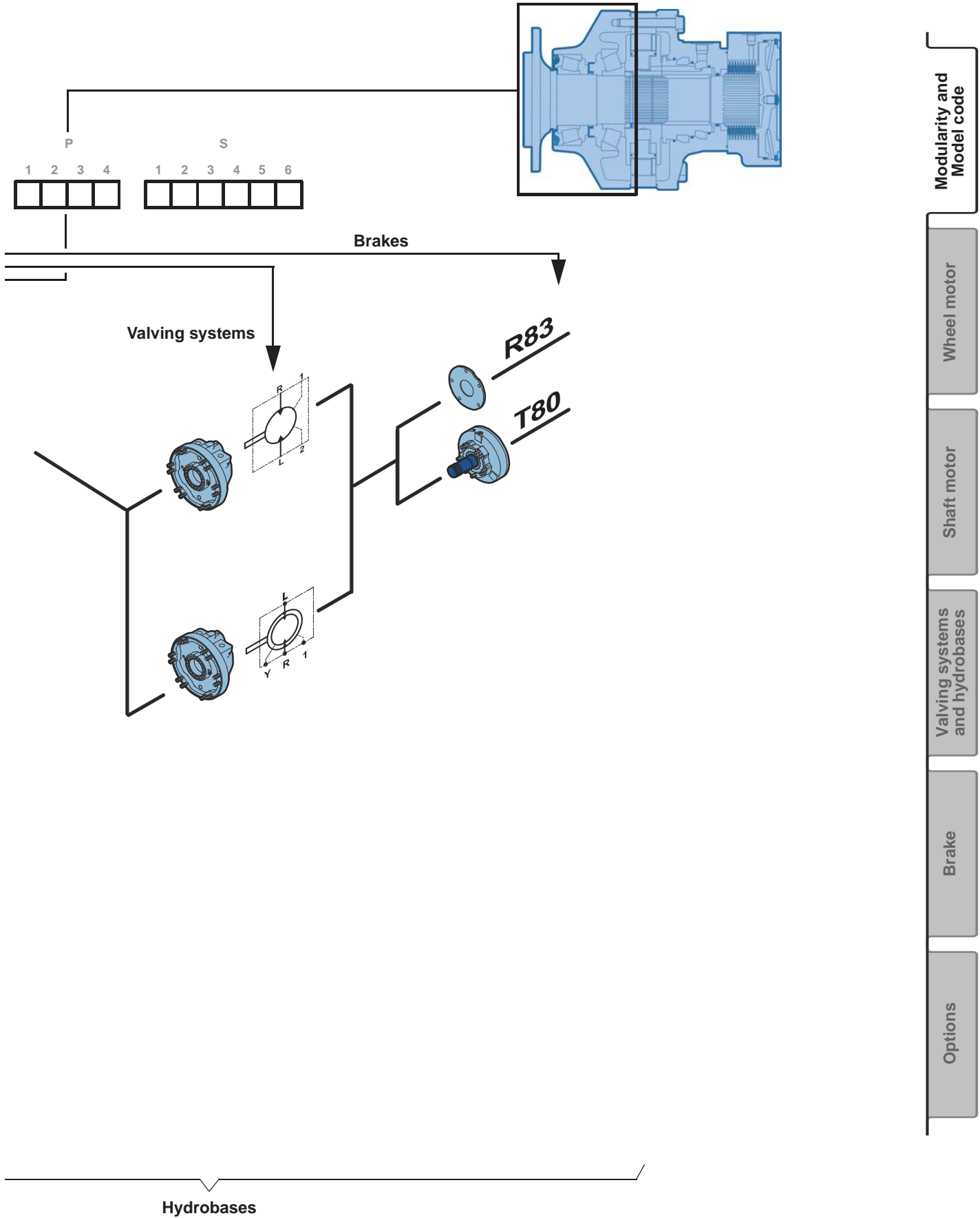


MODUL



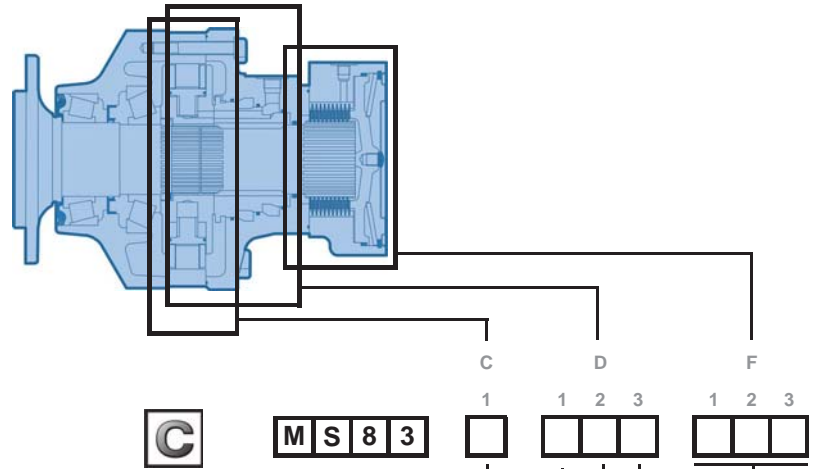


ARITY





MODEL



C1
Cam ring type

1 displacement		2 displacements		
cm ³ /tr [cu.in/rev.]				
Cams with equal lobes	6 679 [407.4]	3 340 [203.7]	8	
	8 328 [507.9]	4 164 [254.0]	0	
	10 019 [611.1]	5 010 [305.5]	2	
Cams with unequal lobes	6 658 [406.1]	4 164 [254.0]	Q	
		2 494 [152.1]		
	8 349 [509.2]	5 009 [305.5]	A	
	3 340 [203.7]			

D2
Valving cover

High Flow (HF) distribution	Without mounting	B
	Lug fixing	C

D3
Connection type

Without cover	0
HP: ISO 6162 (SAE flanges) DN 32	J
BP: ISO 9974-1 (Metric ports)	
HP: ISO 6162 (SAE flanges) DN 32	K
BP: ISO 1179-1 (GAZ ports)	

D1
Valving type

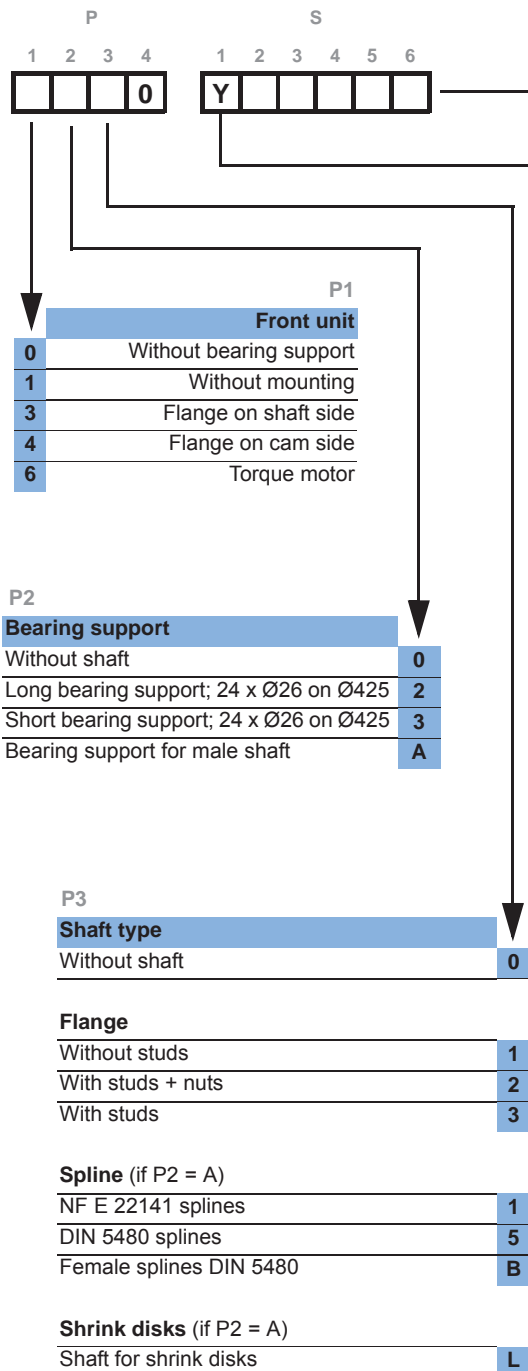
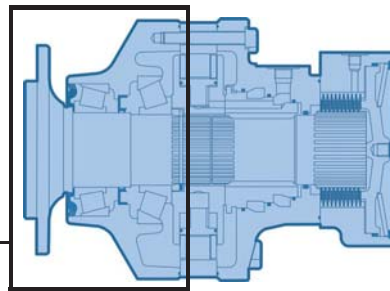
1-displacement valving	1	
2-displacement symmetrical valving	Ratio 2	A
	Ratio <2	B
	Ratio >2	C

F1-F3
Rear brake

Brakes (Screwed environmental cover)	T 8 0
Without brake (Reinforced plate)	R 8 3



CODE



S1 Standard

Y	Predisposal for speed sensor
	Additional drain on valving system
	High efficiency
	Grip washer (when using T80)

S2-S6 Options

0	Without Options
2	T4 Speed sensor installed
S	TR Speed sensor installed
Q	TD Speed sensor installed
6	Industrial bearing support
7	Diamond™
A	Hollow shaft
B	Drain on the bearing support
D	Special paint or no paint
E	Reinforced sealing
G	Special wheel rim mounting
J	Surface heat treatment of the shaft

Modularity and Model code

Wheel motor

Shaft motor

Valving systems and hydrobases

Brake

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:



Essential instructions.



General information .



Information on the model number.Information on the model code.



Weight of component without oil.



Volume of oil.



Units.



Tightening torque.



Screws.



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)





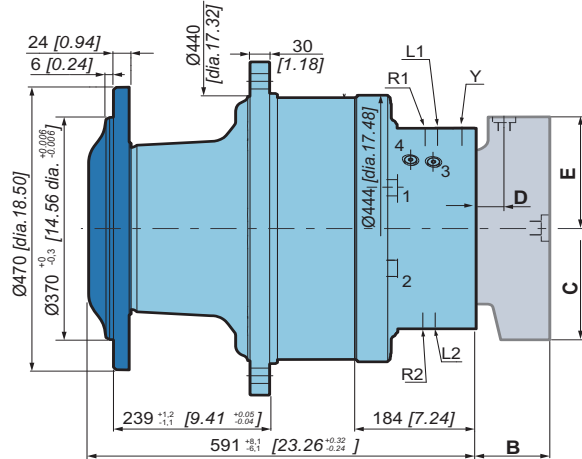
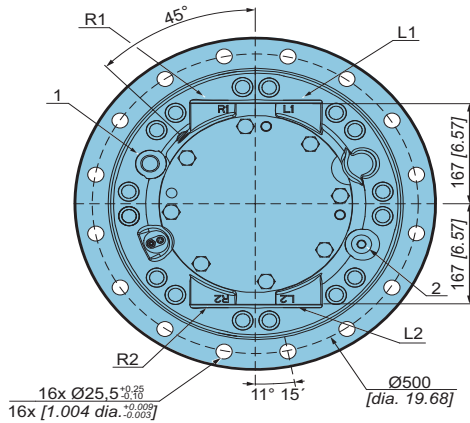
WHEEL MOTOR

Dimensions for standard (4310) 1-displacement motor

	450 kg [990 lb]	610 kg [1 342 lb]
	11,00 L [660 cu.in]	9,00 L [540 cu.in]

Modularity and Model code

Wheel motor



Shaft motor

Dimensions for standard (4310) 2-displacement motor

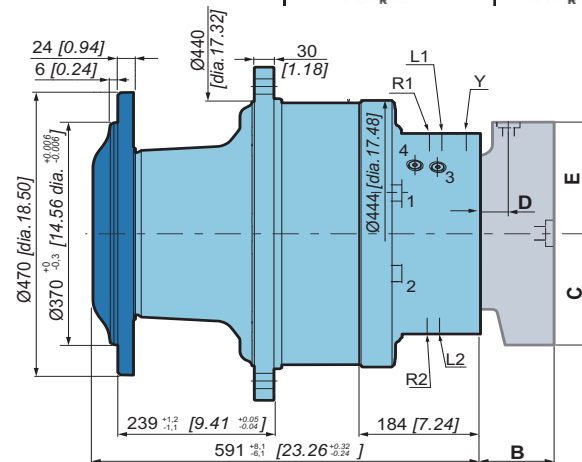
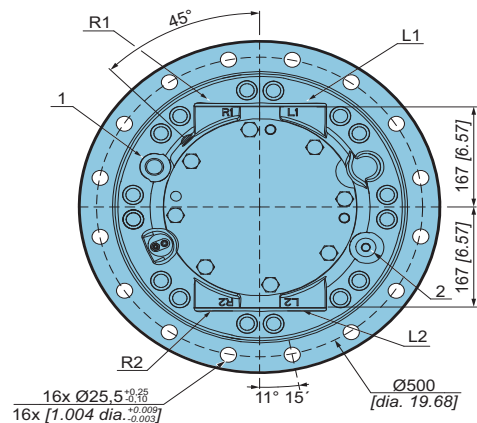
For a small displacement, there is no preferred orientation for this motor.

	450 kg [990 lb]	610 kg [1 342 lb]
	11,00 L [660 cu.in]	9,00 L [540 cu.in]

Valving systems and hydrobases

Brake

Options



Also see 'Valving systems and hydrobases' section (thumbnail opposite).

	T 8 0
B	189,0 [7,44]
C	Ø376 [14,80 dia.]
D	44,0 [1,73]
E	181,0 [7,13]



Also see "Brake" section (thumbnail opposite).



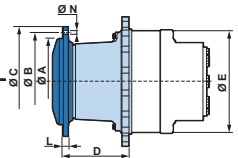
For speed ≥ 90 rpm, the bearing support must be flushed: motor must be ordered with drain on the bearing support (option B).



Support types



	A	B	C	D	E	N	Wheel rim mountings	L
	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]		mm [in]
	Ø 370 [14,57 dia.]	Ø 425 [16,73 dia.]	Ø 470 [18,50 dia.]	284 [11,18]	Ø 444 [17,48 dia.]	Ø 26 [1,02 dia.]	24 x M24x2	25 [0,98]
	Ø 370 [14,57 dia.]	Ø 425 [16,73 dia.]	Ø 470 [18,50 dia.]	239 [9,41]	Ø 444 [17,48 dia.]	Ø 26 [1,02 dia.]	24 x M24x2	24 [0,94]



Studs

		P	C min.	C max.	D	Class	(1) *	(2) *
		mm [in]	mm [in]	mm [in]	mm [in]		N.m [lb.ft]	N.m [lb.ft]
Studs	M24 x 2	95 [3,74] 115 [4,53]	5 [0,20]	39 [1,54] 59 [2,32]	30 [1,18]	 12,9	910 [671,2]	1 150 [848,2]
Screws	M24 x 2	-	-	-	-	12,9	910 [671,2]	1 150 [848,2]

(*) The tightening torques are given for the indicated loads.
 (1) Wheel rim : Suggested tightening torque for wheel rim mountings (Re steel disc > 240 N/mm² [>34 800 PSI]).
 (2) Standard : Suggested tightening torque in other cases (Re steel flange > 360 N/mm² [>52 215 PSI]).
 (3) In case of bearings 8P30 and 8Q30 : Poclair recommends to use the flanged nuts with tightening torque = 900 Nm.

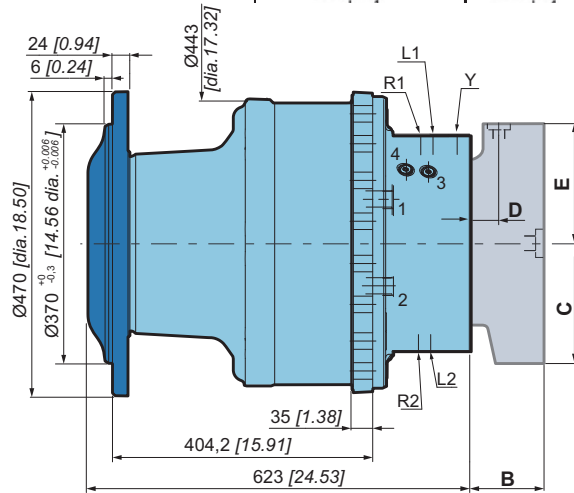
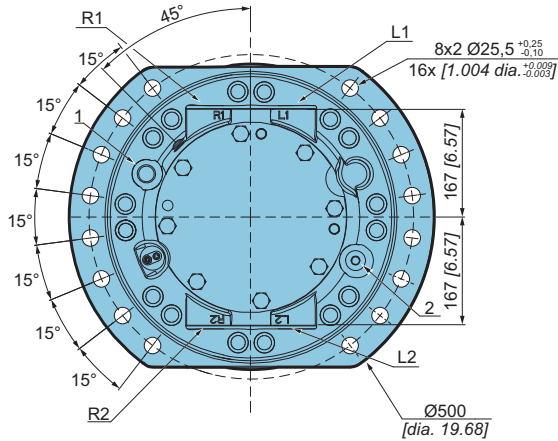


See generic installation motors N°801478197L.



WHEEL MOTOR

Dimensions for standard (1310) 1-displacement motor



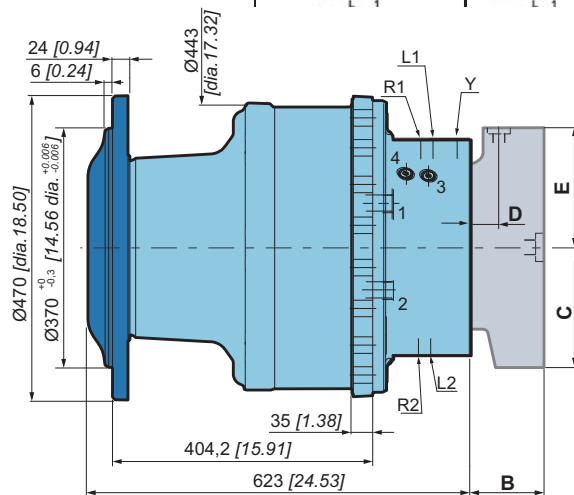
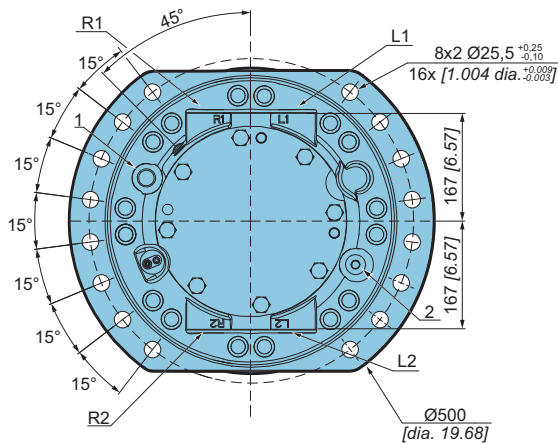
	450 kg [990 lb]	600 kg [1 320 lb]
	11,00 L [660 cu.in]	9,00 L [540 cu.in]

Modularity and Model code

Wheel motor

Dimensions for standard (1310) 2-displacement motor

For a small displacement, there is no preferred orientation for this motor.



	450 kg [990 lb]	600 kg [1 320 lb]
	11,00 L [660 cu.in]	9,00 L [540 cu.in]

Shaft motor

Valving systems and hydrobases

Brake

Options



Also see 'Valving systems and hydrobases' section (thumbnail opposite).

	C	T 8 0
	B	189,0 [7,44]
	C	Ø376 [14,80 dia.]
	D	44,0 [1,73]
	E	181,0 [7,13]



Also see "Brake" section (thumbnail opposite).



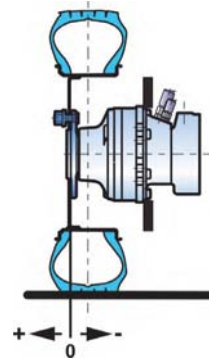
For speed ≥ 90 rpm, the bearing support must be flushed: motor must be ordered with drain on the bearing support (option B).



Radial load and service life of bearing curves



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. ア



Permissible radial loads

Max. permissible loads: 0 tr/min [0 RPM]; 0 bar [0 PSI].

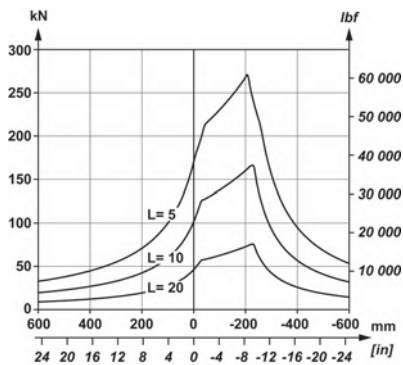
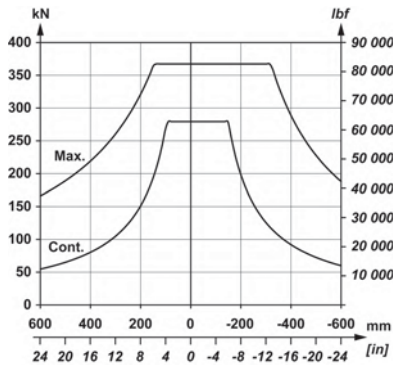
Continuous permissible loads: > 0 tr/min [> 0 RPM]; 275 bar [3 988 PSI].

Test conditions: code 0 displacement, without axial load, shaft treated (option J), class 10.9 and 12.9 chassis mountings class 12.9 wheel rim mountings.

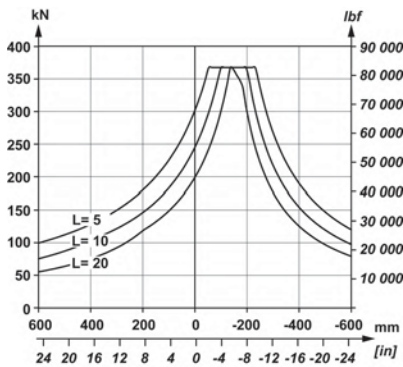
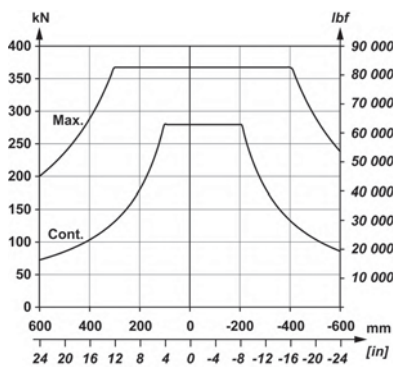
Service life of bearings

L : Millions B10 revolutions at 150 bars (average pressure), with 25 cSt fluid.

P			
1	2	3	4
1	3	1	0
4	3	1	0



P			
1	2	3	4
4	2	1	0

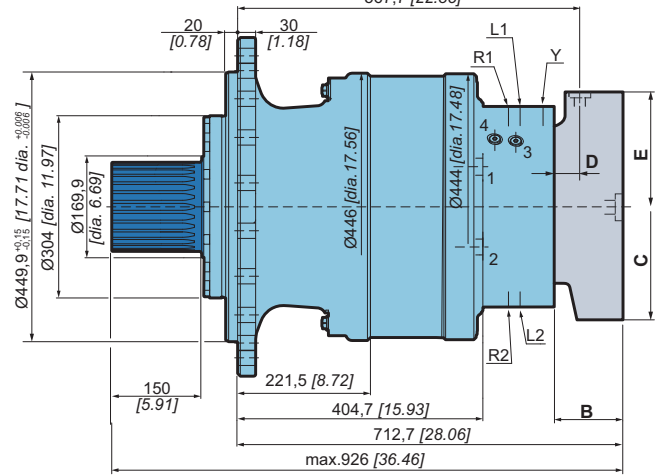
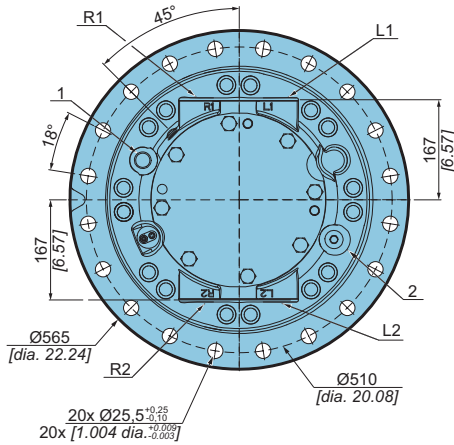




SHAFT MOTOR

Dimensions for standard (3A50) 1-displacement motor

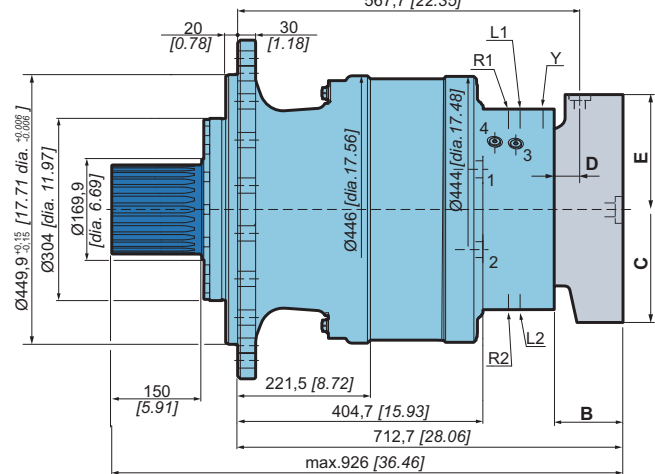
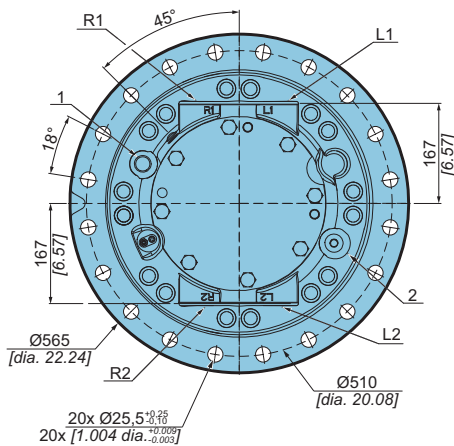
	435 kg [957 lb]	585 kg [1 287 lb]
	11,00 L [660 cu.in]	9,00 L [540 cu.in]



Dimensions for standard (3A50) 2-displacement motor

For a small displacement, there is no preferred orientation for this motor.

	435 kg [957 lb]	585 kg [1 287 lb]
	11,00 L [660 cu.in]	9,00 L [540 cu.in]



Modularity and Model code

Wheel motor

Shaft motor

Valving systems and hydrobases

Brake

Options



Also see 'Valving systems and hydrobases' section (thumbnail opposite).

	C	T 8 0
	B	189,0 [7,44]
	C	Ø376 [14,80 dia.]
	D	44,0 [1,73]
	E	181,0 [7,13]



Also see "Brake" section (thumbnail opposite).



For speed ≥ 90 rpm, the bearing support must be flushed: motor must be ordered with drain on the bearing support (option B).

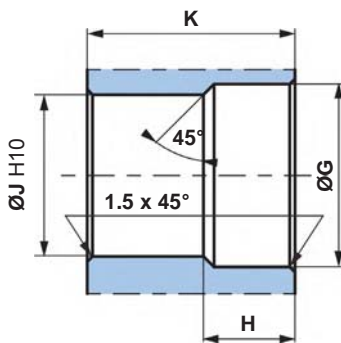


Support types



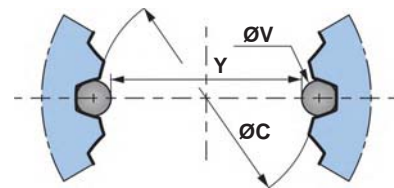
		C	D	F	P	S			
		1	1 2 3	1 2 3	1 2 3 4	1 2 3 4 5 6			
C									
NF E22-141 splines		A	B	C	D	E	F	G	
3 A 1 0	Nominal Ø 150 [5,91]	40	R 4	60	2 x	31	150	-	
1 2 3 4 P	Module 3.75 Z 38	[1,57]	[R 0,16]	[2,36]	M16	[1,22]	[5,91]		
DIN 5480 splines		A	B	C	D	E	F	G	
3 A 5 0	Nominal Ø 150 [5,91]	40	R 4	60	2 x	32	150	-	
1 2 3 4 P	Module 5 Z 28	[1,57]	[R 0,16]	[2,36]	M16	[1,26]	[5,91]		
6 A L 0		Ø 140	Ø 185	230	426	Ø 340	Ø 380	16 x M20	
1 2 3 4 P		[5,51 dia.]	[7,28 dia.]	[9,06]	[16,77]	[13,38 dia.]	[14,96 dia.]		
6 A B 0	DIN 5480 splines	Ø 142	Ø 199	190	432	Ø 340	Ø 380	16 x M20	
1 2 3 4 P	Nominal Ø 150 [5,91] Module 5 Z 28	[5,59 dia.]	[7,83 dia.]	[7,46]	[17,02]	[13,38 dia.]	[14,96 dia.]		

Coupling for male splines



Standard DIN 5480
 Pressure angle 30°.
 Centering on flanks.
 Slide fit (7H quality).

N : Nominal Ø.
Mo : Module.
Z : Number of teeth.



C	Ø G	H	Ø J	K	N	Mo	Z	Offset	Ø C (H10)	Ø V	Y	Tolerance
	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]			mm [in]	mm [in]	mm [in]	µm [µin]	
3 A 1 0	151	32	142,5	149	150	3,75	38	3	142,5	7,5	135,254	+ 104 / 0
1 2 3 4 P	[5,94]	[1,26]	[5,61]	[5,87]	[5,91]			[0,12]	[5,61]	[0,30]	[5,32]	[+4.094 / 0]
3 A 5 0	152	33	140	149	150	5	28	2,25	140	9	131,104	+ 87 / 0
1 2 3 4 P	[5,98]	[1,30]	[5,51]	[5,87]	[5,91]			[0,0886]	[5,51]	[0,35]	[5,16]	[+3.425 / 0]

General tolerances : ± 0.25 [±0.0098].

Material: Ex: 42CrMo4.

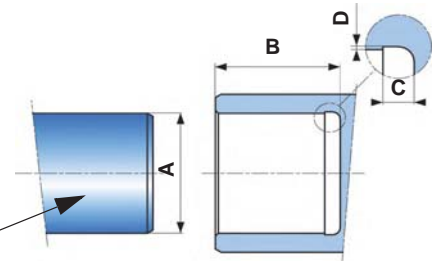
Hardening treatment to obtain R = 800 to 900 N/mm² [R = 116 030 to 130 533 PSI].



Coupling for shrink discs

	A	B	C	D
	mm [in]	mm [in]	mm [in]	mm [in]
6 A L 0	Ø 140	140	10	0,5
1 2 3 4 P	[5,51 dia.]	[5,51]	[0,394]	[0,0197]

$R_{min.} : 640 \text{ N/mm}^2 [132\ 800 \text{ PSI}]$

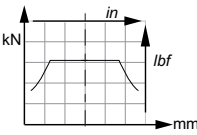


Load curves

Permissible radial loads

Max. permissible loads: 0 tr/min [0 RPM]; 0 bar [0 PSI]

Continuous permissible loads:
> 0 tr/min [> 0 RPM]; 275 bar [3 988 PSI].

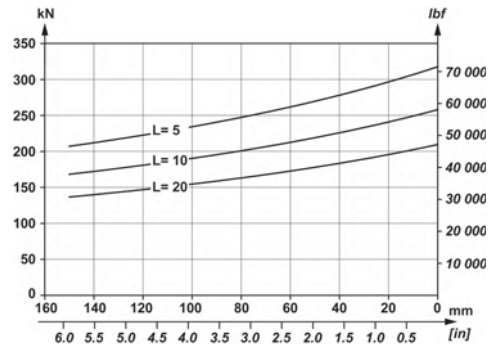
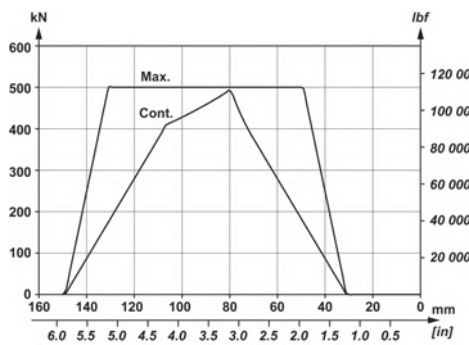


Service life of bearings

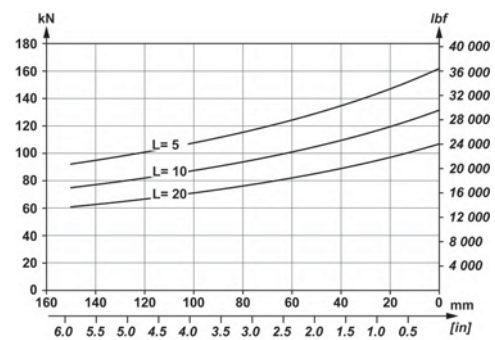
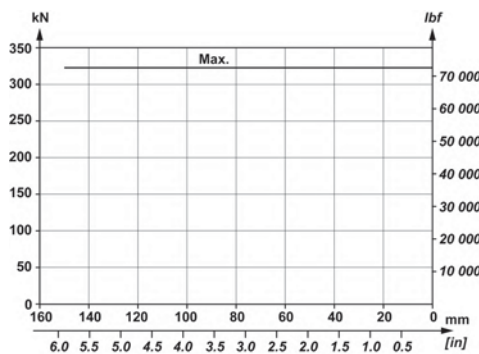
Test conditions :

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

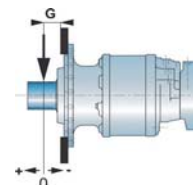
3	A	1	0
3	A	5	0
P			



6	A	L	0
6	A	B	0
P			



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. ㄥ



Modularity and Model code

Wheel motor

Shaft motor

Valving systems and hydrobases

Brake

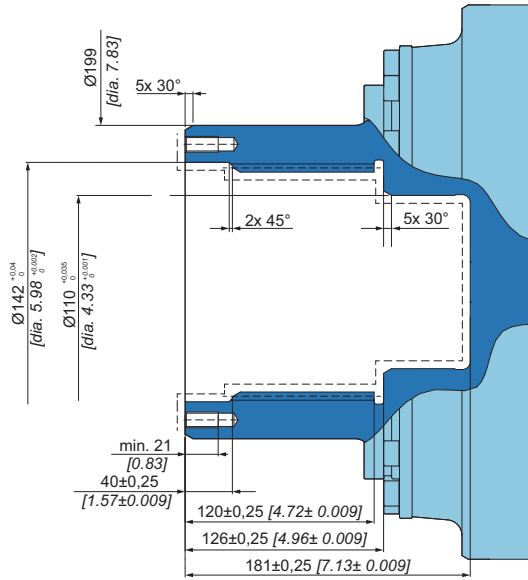
Options



Coupling for female splines



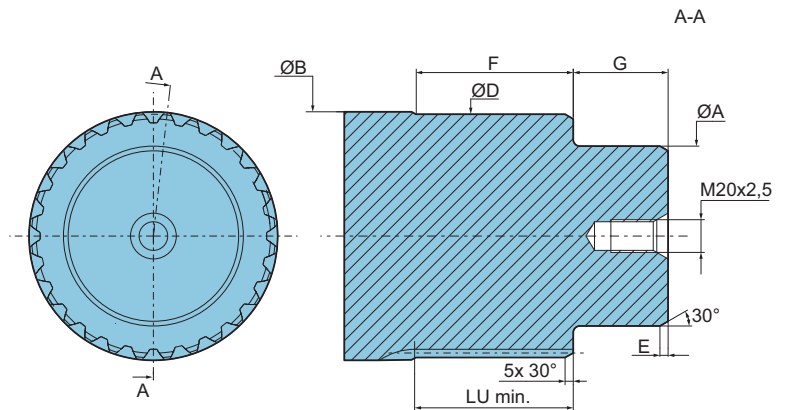
Splined DIN 5480
 Pressure angle: 30°
 Nominal diameter: 140
 Teeth quantity: 26
 Modulus: 5
 Tolerance class: 8



Recommended customer shaft design to be used with bearing support 6AB0

	Torque arm motor	Flange mounted motor
A ⁽¹⁾	∅110 [4,33 dia.]	∅110 [4,33 dia.]
B ⁽²⁾	∅142 [5,59 dia.]	∅152 [5,98 dia.]
D ⁽³⁾	∅139 [5,47 dia.]	∅139 [5,47 dia.]
E	10,0 [0,39]	5,0 [0,20]
F	88,0 [3,46]	88,0 [3,46]
G	58,0 [2,28]	55,0 [2,17]

(1) - 0.01 [-0.0004] (2) - 0.11 [+0.004] (3) - 0 [+0]
 - 0.03 [-0.001] - 0.13 [-0.005] - 0.25 [-0.009]



For torque arm mounting, both motor and customer shafts must be in axial contact (no axial play) + must have sealing between motor and customer shafts.



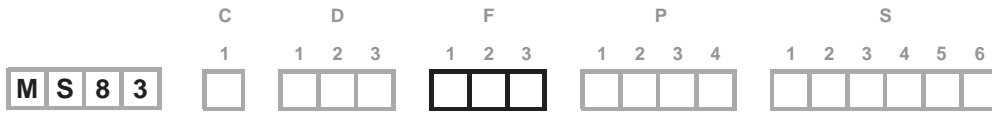
For chassis mounting, an axial play must be ensured between motor and customer shafts.



Consult your Poclain Hydraulics application engineer.

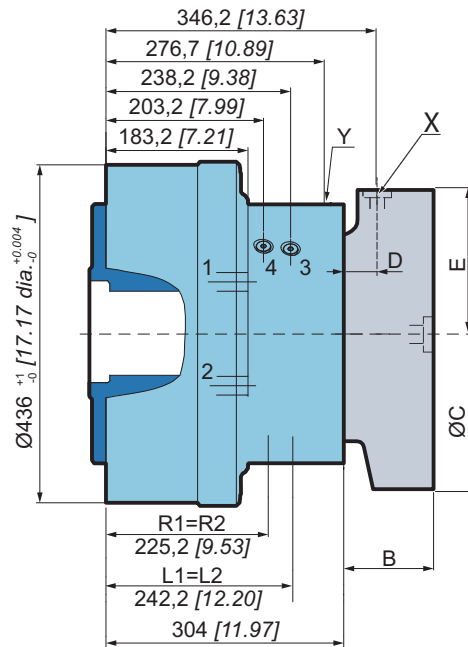
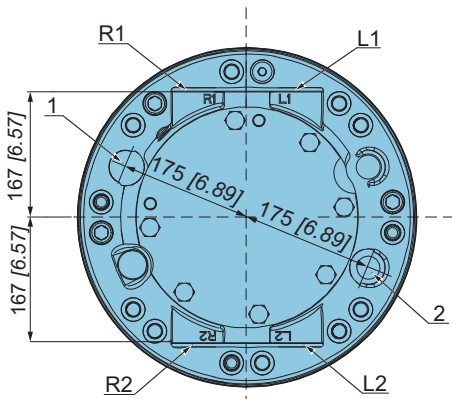


VALVING SYSTEMS AND HYDROBASES



Dimensions for 1-displacement valving

	340 kg [748 lb]	440 kg [968 lb]
	4,50 L [270 cu.in]	4,00 L [240 cu.in]



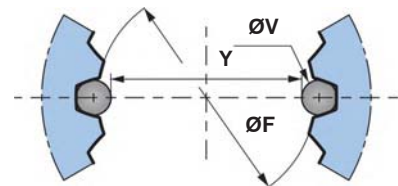
i Also see "Brake" section (thumbnail opposite).

	T 8 0
B	189,0 [7,44]
C	Ø376 [14,80 dia.]
D	44,0 [1,73]
E	181,0 [7,13]

Cylinder block splines

ØN	Module	Z	Y	ØV	ØF
120 [4,724]	3,75	30	105,253 [4,144]	7,5 [0,295]	112,525 [4,430]

Dimension on 2 pins



You are advised to have the installation validated by your Poclain Hydraulics application engineer before using the hydraulic unit in an application.



We must provide you with a detailed plan of the interface for any hydraulic unit use, consult your Poclain Hydraulics sales engineer.

Modularity and Model code

Wheel motor

Shaft motor

Valving systems and hydrobases



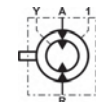
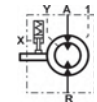
Brake

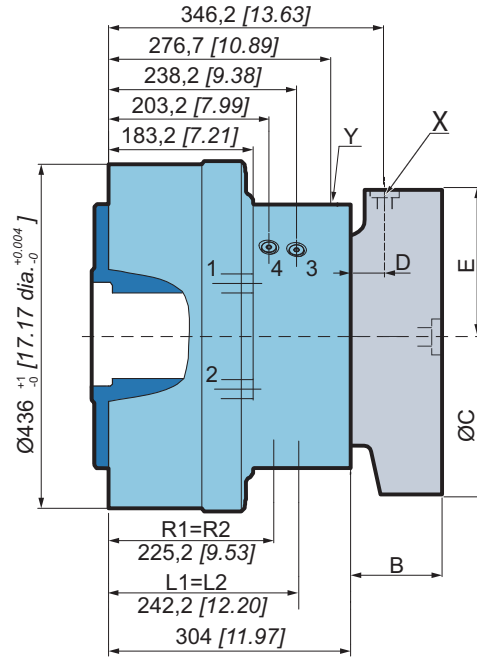
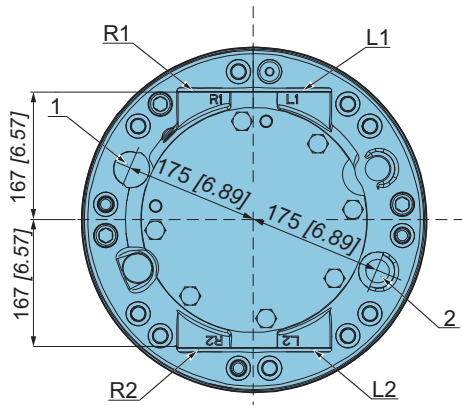
Options








Dimensions for 2-displacement symmetrical valving

For a small displacement, there is no preferred orientation for this motor.

	340 kg [748 lb]	440 kg [968 lb]
	4,50 L [270 cu.in]	4,00 L [240 cu.in]
		



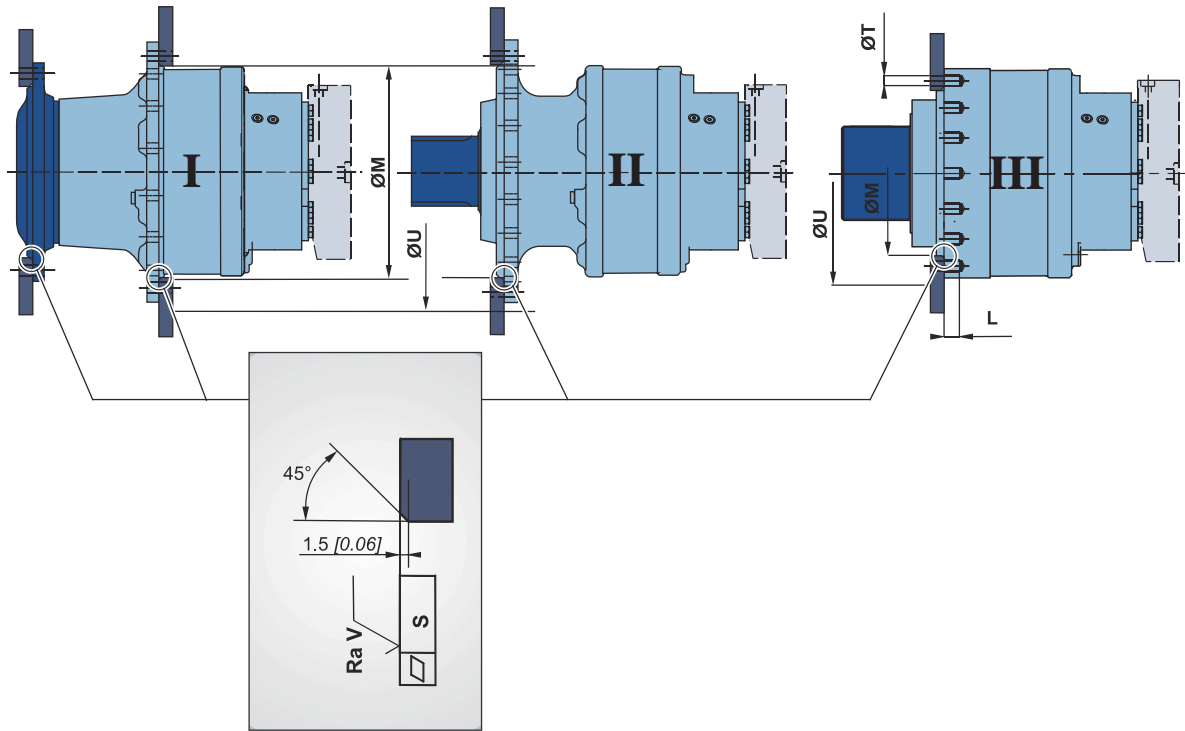
	C	T 8 0
	B	189,0 [7,44]
	C	Ø376 [14,80 dia.]
	D	44,0 [1,73]
	E	181,0 [7,13]





Also see "Brake" section (thumbnail opposite).



Chassis mountings



Take care over the immediate environment of the connections.

	$\varnothing M$ ⁽¹⁾ mm [in]	$\varnothing U$ mm [in]	$\varnothing T$ mm [in]	L mm [in]	S mm [in]	Ra V μm [μin]		Class	 * N.m [lb.ft]
I	450 [17,72]	565 [22,24]	-	-	0,2 [0,008]	12,5 [0,49]	16 x M24	12,9	1 200 [885,1]
II							20 x M24		
III	352 [13,86]	446 [17,56]	25,5 [1,004]	35 [1,378]	16 x M20				

(1) +0,3 [+0,012]
+0,2 [+0,008]

* : Min. values for torque and load to be transmitted.

Modularity and Model code

Wheel motor

Shaft motor

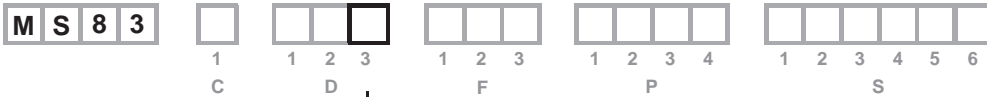
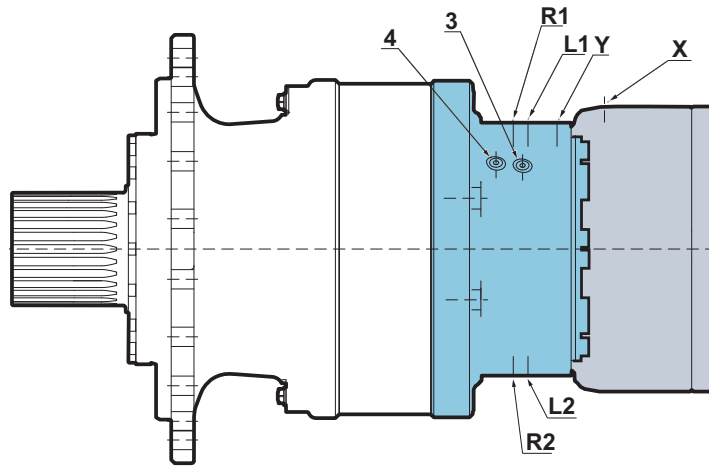
Valving systems and hydrobases

Brake

Options



Hydraulic connections



		Standards	Power supply	Case drain	2 nd displacement control	Pressure measurement points	Control of parking break
			R-L	1, 2		3,4	X
	J	Metric	DN32 PN400	M27x2 Ø27		M14x1.5 Ø13	M18x1.5 Ø17
	K	Gaz (BSPP)					
			R-A	1, 2	Y	3,4	X
	J	Metric	DN32 PN400	M27x2 Ø27	M18x1.5 Ø17	M14x1.5 Ø13	M18x1.5 Ø17
	K	Gaz (BSPP)					
Max. pressures		MS bar [PSI]	450 [6 527]	1 [15]	30 [435]	30 [435]	30 [435]



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



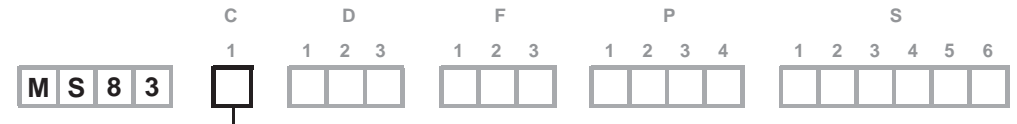
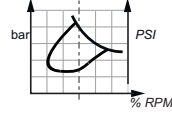
To find the connections' tightening torques, see the brochure "Installation guide" N° 801478197L.



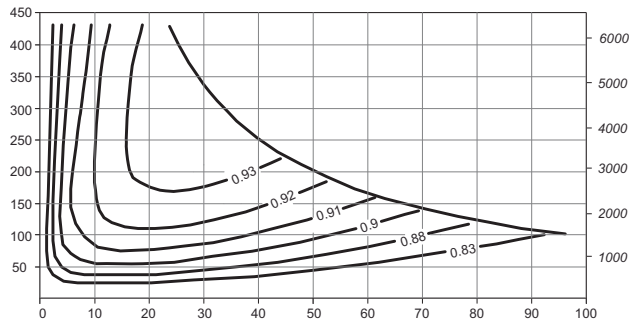
Efficiency

Overall efficiency

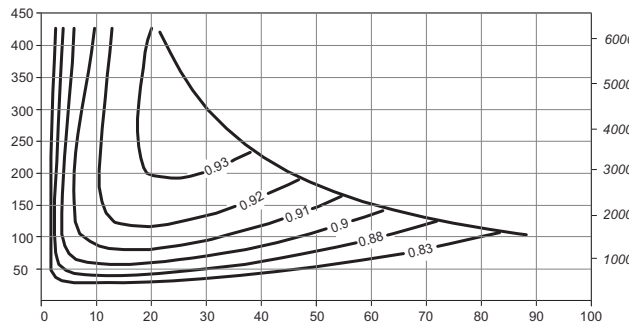
Average values given for guidance for code 0 displacement after 100 hours of operation with HV46 hydraulic fluid at 50°C [122°F].



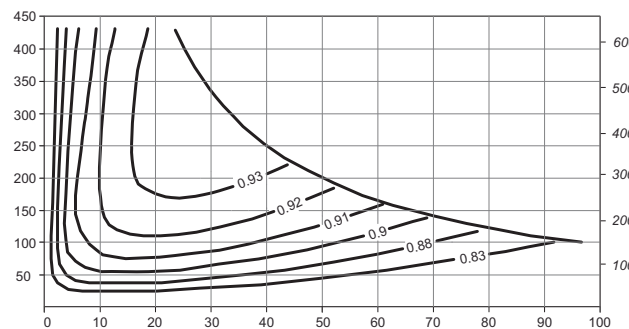
8



0



2



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

Modularity and Model code

Wheel motor

Shaft motor

Valving systems and hydrbases

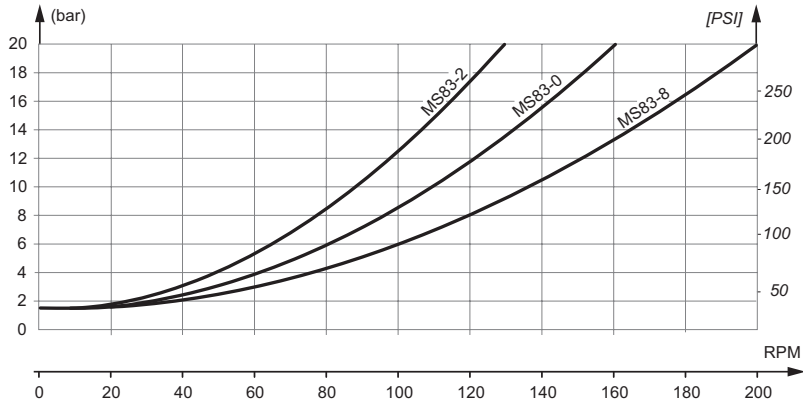
Brake

Options

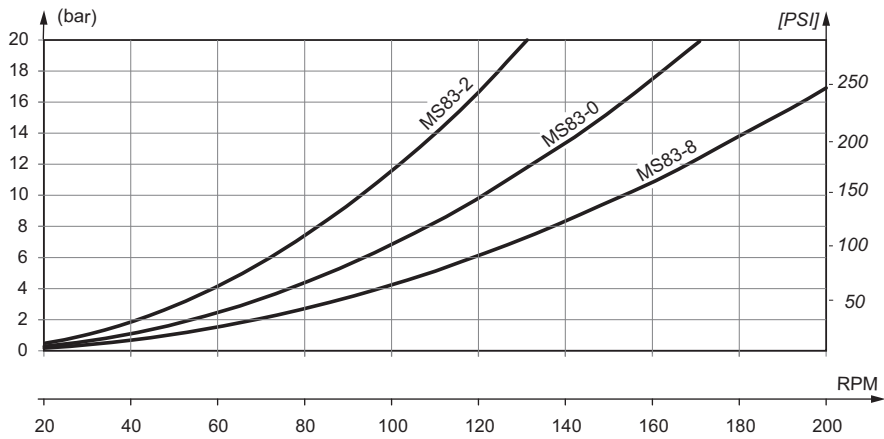


Pressure drop and charge pressure

Pressure drop (With HV46 hydraulic fluid at 50 °C [122 °F], oil viscosity 30 cSt)



Charge pressure (With HV46 hydraulic fluid at 50 °C [122 °F], oil viscosity 30 cSt)

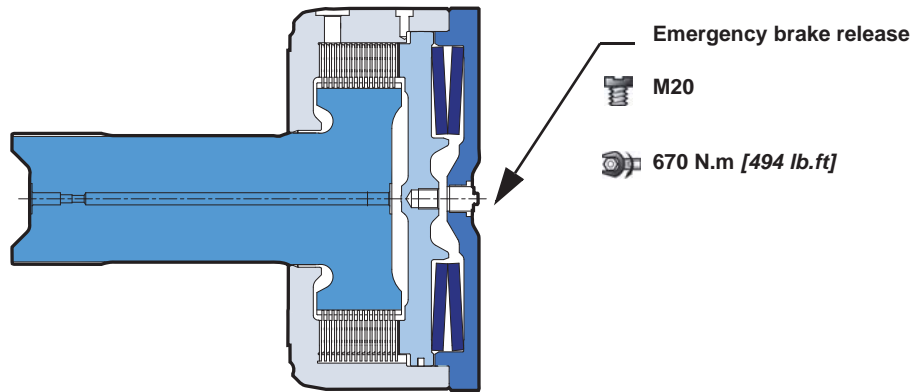


Pressure drop and charge pressure curves are corresponding to 1st displacement motor.



BRAKES

Rear brake






Brake principle

This is a multidisc brake which functions through the absence of pressure. The spring exerts a force on the piston, which acts on the fixed and mobile discs, and thus immobilizes the shaft. The braking torque decreases in linear proportion to the brake release pressure.

C	T 8 0
Parking brake torque at 0 bars on housing (new brake)	72 000 Nm [53 100 lb.ft]
Dynamic emergency braking torque at 0 bars on housing (max. 10 uses of emergency brakes)	62 400 Nm [46 020 lb.ft]
Residual parking braking at 0 bars on housing *	54 000 Nm [39 830 lb.ft]
Min. brake release pressure	20 bar [290 PSI]
Max. brake release pressure	30 bar [435 PSI]
Oil capacity	450 cm ³ [27,5 cu.in]
Volume for brake release	135 cm ³ [8,2 cu.in]
Min. internal irrigation flow rate (at 20 bar brake release pressure)	1,7 L/min [0,45 gal/min]
Max. internal irrigation flow rate (at 30 bar brake release pressure)	3,1 L/min [0,82 gal/min]

* After emergency brake has been used

-  **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/hour, please contact your Poclain Hydraulics application engineer.**
-  **This negative brake can be used as dynamic braking under specific conditions (depends on duty cycle). In case of dynamic use, please contact your Poclain Hydraulics application engineer.**

Modularity and Model code

Wheel motor

Shaft motor

Valving systems and hydrobases

Brake

Options





OPTIONS



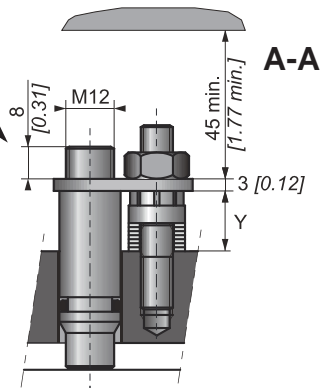
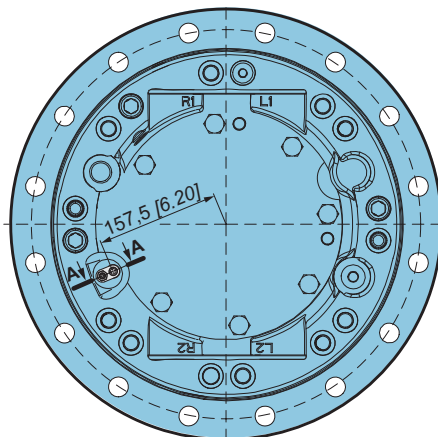
You can accumulate more than one optional part. Consult your Poclain Hydraulics sales engineer.

Y - Standard option

Designation	<input checked="" type="checkbox"/>
Predisposal for speed sensor	
Additional drain on valving system	
High efficiency	Y
Grip washer (when using T80)	

2 - S - Q Installed speed sensor

Designation	<input checked="" type="checkbox"/>
T4 Speed sensor (without rotation direction)	2
TR Speed sensor (digital rotation direction)	S
TD speed sensor (two phase shifted frequencies)	Q



Max. length Y = 14.8
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.

Modularity and Model code

Wheel motor

Shaft motor

Valving systems and hydrobases

Brake

Options



6 - Industrial support

Reduction of around 50% from the rated value in the bearings' preload value.

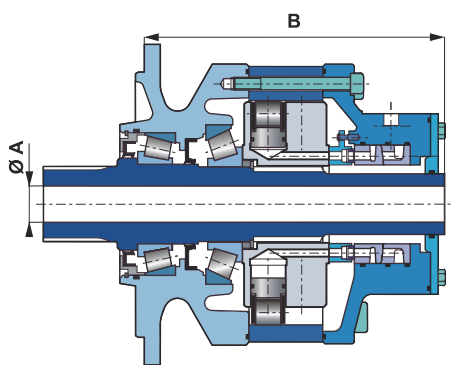


For a precise calculation, consult your Poclain Hydraulics application engineer.

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.

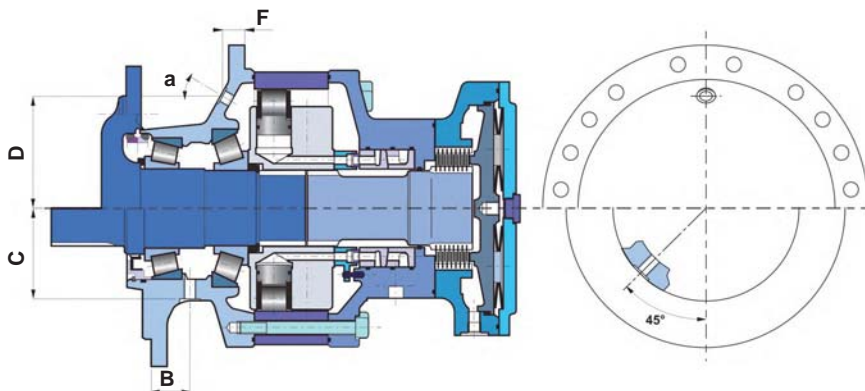
A - Hollow shaft



A	B
mm [in]	mm [in]
Ø 75 [2,95 dia.]	634 [24,97]

Radial load x 0.75
No torque transmittable to the rear

B - Drain on the bearing support



	B	C	D	F	a
	mm [in]	mm [in]	mm [in]	mm [in]	
Shaft motor	-	-	173 [6,81]	40 [1,57]	36°
Wheel motor	M27 x 2 70 [2,76]	185 [7,28]	-	-	-

D - Special paint or no paint

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

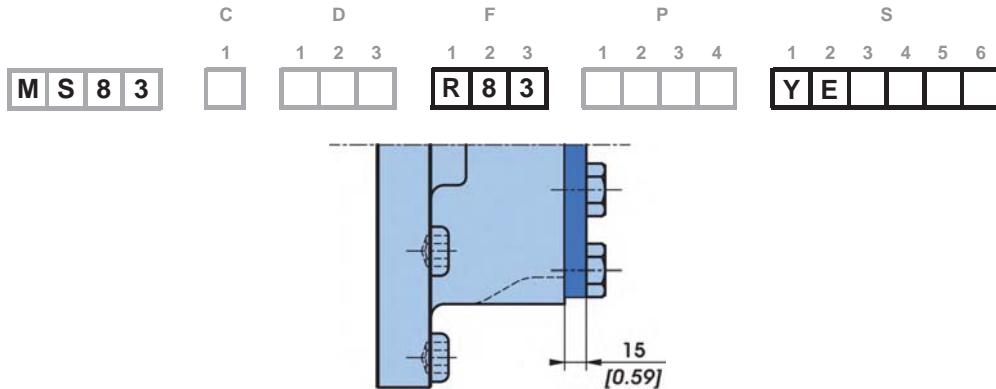


Consult your Poclain Hydraulics application engineer for other colors of primer or topcoat.



E - Reinforced sealing rinforzate

Requires reinforced seals and, for an unbraked motor, a rear reinforced plate (R83 - 15 [0.594] thick, instead of 6 [0.237]).



G - Special wheel rim mounting

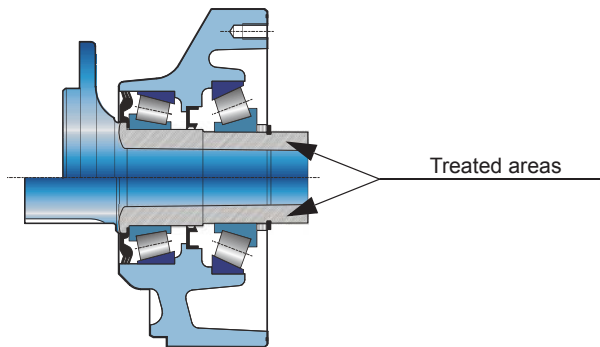
Enables certain combinations different from the standard mountings defined on page 10.



Consult your Poclain Hydraulics sales engineer.

J - Treated shaft

Heat treatment on the indicated bearing radius and splines.



Modularity and Model code

Wheel motor

Shaft motor

Valving systems and hydrobases

Brake

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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-  15/11/2016
-  801 478 125H
-  801 478 195J
-  801 578 108K
-  801 578 120X
-  801 578 132L
-  A50154Q
-  Not available
-  A14247L

