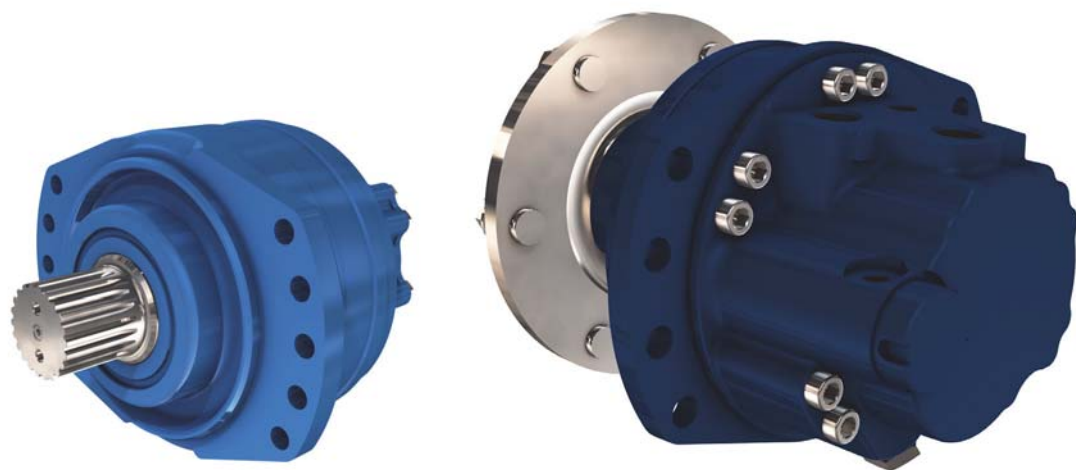


MS08 - MSE08

HYDRAULIC MOTORS



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



INTRODUCTION

Given their optimized and modular design capable of delivering high performance, motors from the MS Classic range have established themselves as a benchmark on the hydraulic motor market.

MS Classic range can be characterized by:

- **Compactness**
- **Optimized cost**
- **Power density**

The MS HighFlow™ motor range has all the qualities that have made the MS Classic range such a success: they are modular and robust, offering performance advantages (speed and power) at the same time.

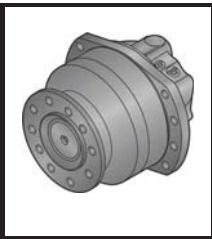
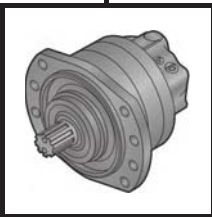
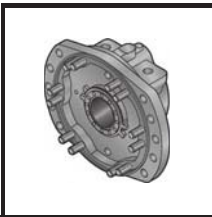
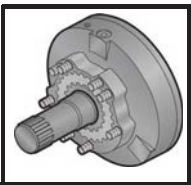
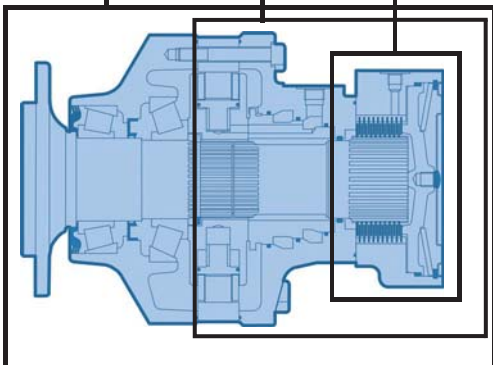
MS HighFlow™ motor range is different by:

- **Integrated exchange valve**
- **New ports geometry**
- **New valving**



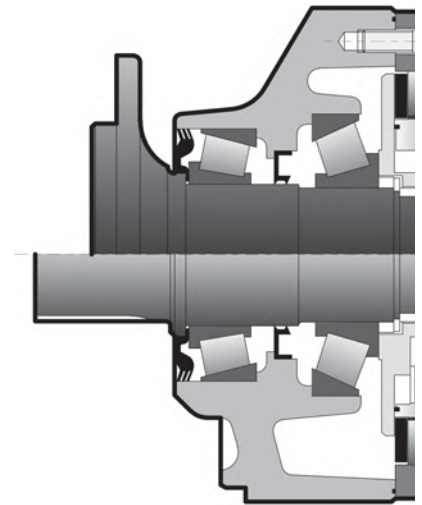


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CHARAC



Motor inertia

MS motor working pressure 450 bar [6 526 PSI]
 MSE motor working pressure 400 bar [5 801 PSI]

MS08-MSE08 HighFlow™

| Max.power | 1C motor | 41 kW |
|-----------|--|-------|
| | 2C motor, 1 st displacement | 41 kW |
| | 2C motor, 2 nd displacement | 27 kW |

| Cams with equal lobes | C | Motor HighFlow™1C | | Motor HighFlow™ 2C | |
|-----------------------|---|---------------------|-------------|--------------------|-------------|
| | | Max. speed* | | Max. speed* | |
| | | 1 | 2 | 1 | 2 |
| | | cm³/tr [cu.in/rev.] | tr/min[RPM] | tr/min[RPM] | tr/min[RPM] |
| MS08 | 6 | 467 [28,5] | 450 | 420 | 450 |
| | 8 | 627 [38,2] | 340 | 330 | 350 |
| | 9 | 702 [42,8] | 310 | 310 | 330 |
| | 0 | 780 [47,6] | 280 | 260 | 280 |
| | 1 | 857 [52,3] | 250 | 235 | 260 |
| | 2 | 934 [57,0] | 230 | 220 | 240 |
| MSE08 | 0 | 1 043 [63,6] | 210 | 190 | 220 |
| | 1 | 1 146 [69,9] | 185 | 175 | 200 |
| | 2 | 1 248 [76,1] | 170 | 160 | 180 |

* Based on nominal no-load Δp of 20 bar.

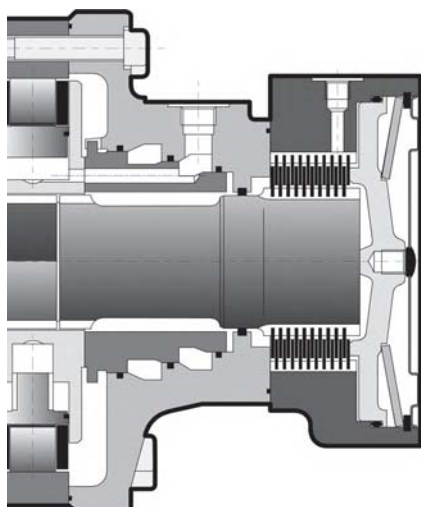
- 1 First displacement
- 2 Second displacement



Max. power obtained at max speed, with Peek bushings.



TERISTICS



= 0.03 kg.m²

MS motor working pressure 450 bar [6 526 PSI]
 MSE motor working pressure 400 bar [5 801 PSI]

MS08-MSE08 Classic

Max.power

| | |
|------------------------|-------|
| 1C motor | 41 kW |
| 2C motor preferred | 27 kW |
| 2C motor non-preferred | 21 kW |

| | C | Classic motor 1C | | Classic motor 2C | | |
|-----------------------|------------|----------------------------------|--------------|----------------------------|-------------|----------------------------|
| | | Max. speed | | Max. speed | | |
| | | 1 | 2 | 1 | 2 | |
| | | cm ³ /tr [cu.in/rev.] | tr/min[RPM] | tr/min[RPM] | tr/min[RPM] | |
| Cams with equal lobes | MS08 | 6 | 467 [28,5] | 234 [14,3] | 255 | 235 250 |
| | | 8 | 627 [38,2] | 314 [19,2] | 200 | 172 185 |
| | | 9 | 702 [42,8] | 351 [21,4] | 180 | 155 165 |
| | | 0 | 780 [47,6] | 390 [23,8] | 160 | 130 150 |
| | | 1 | 857 [52,3] | 429 [26,2] | 145 | 120 125 |
| | MSE08 | 2 | 934 [57,0] | 467 [28,5] | 135 | 110 115 |
| | | 0 | 1 043 [63,6] | 522 [31,8] | 125 | 100 110 |
| | | 1 | 1 146 [69,9] | 573 [34,9] | 110 | 90 95 |
| | | 2 | 1 248 [76,1] | 624 [38,1] | 100 | 80 85 |
| | | Cams with unequal lobes | MS08 | Q | 623 [38,0] | < 390 [23,8] 233 [14,2] |
| D | 700 [42,7] | | | < 467 [28,5] 233 [14,2] | | 110 115 |
| A | 780 [47,6] | | | < 467 [28,5] 313 [19,1] | | 110 110 |
| MSE08 | Q | | 833 [50,8] | < 522 [31,8] 312 [19,0] | | 105 110 |
| | D | | 936 [57,1] | < 624 [38,1] 312 [19,0] | | 80 85 |
| | A | | 1 043 [63,6] | < 624 [38,1] 418 [25,5] | | 80 85 |

- 1 First displacement
- 2 Second displacement

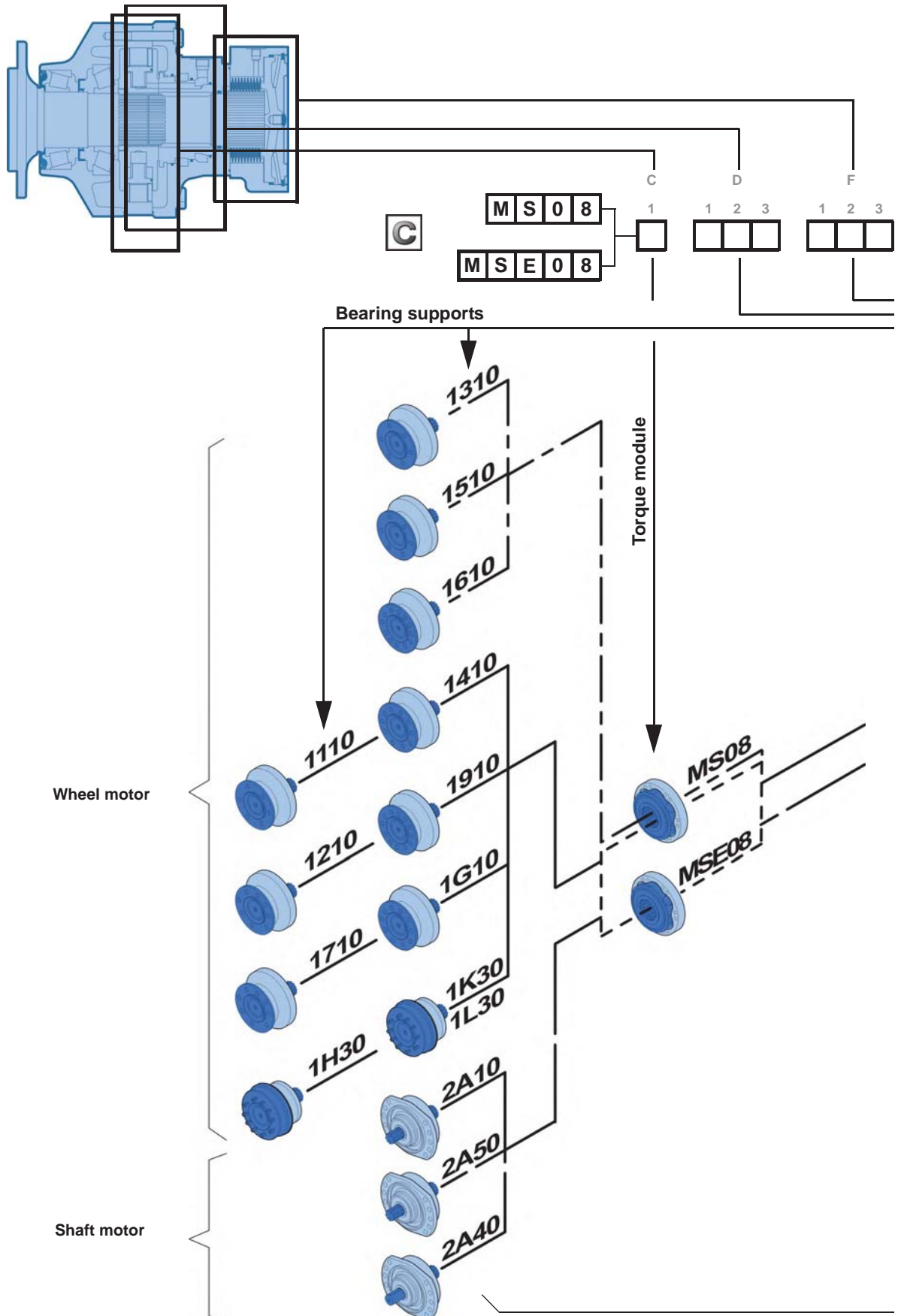


Torque [Nm] = 15,9 x Displacement [cm³/rev] x pressure [bar] x 1000

- Modularity and Model code
- Wheel motor
- Shaft motor
- Valving systems and hydrobases
- Brake
- Options

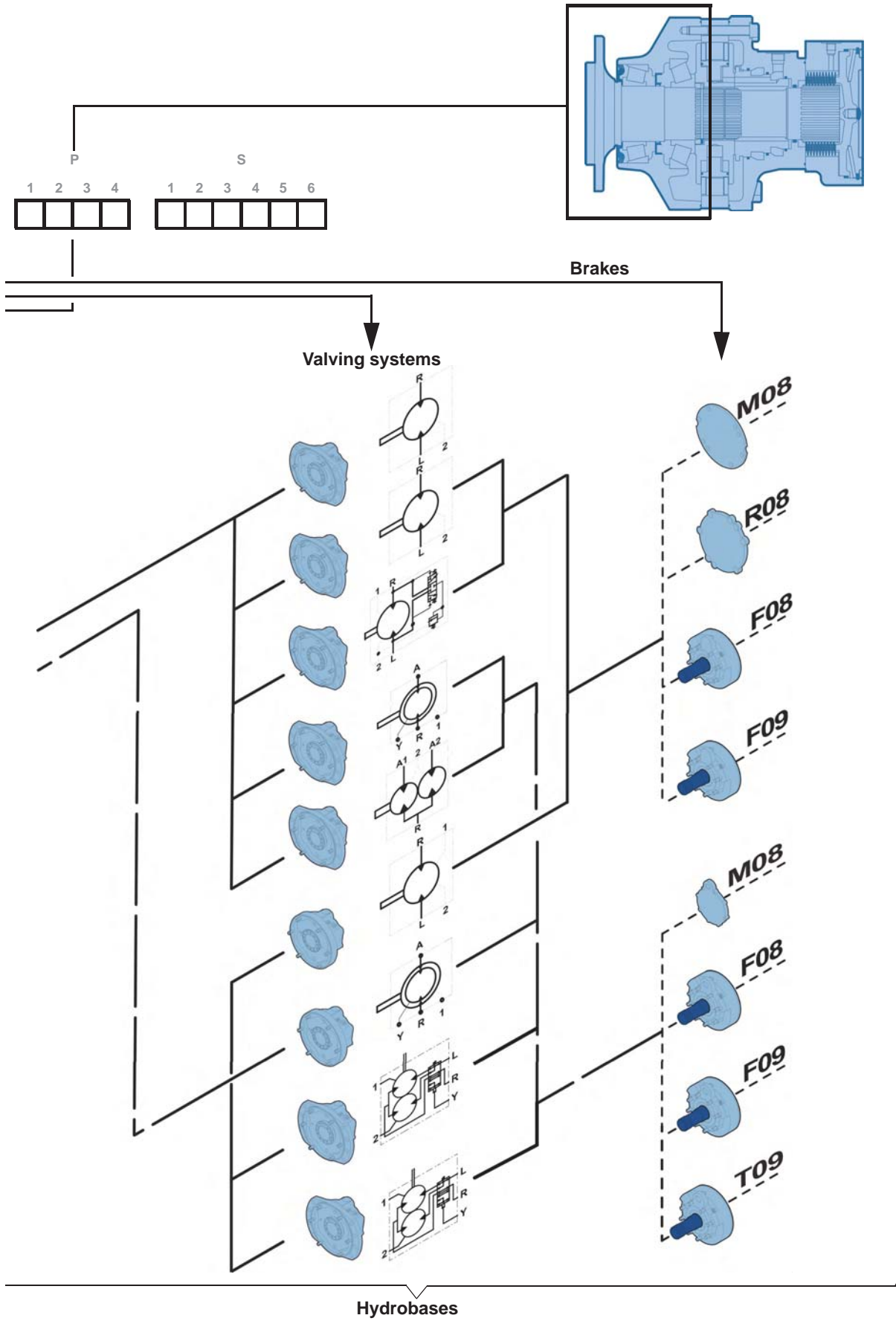


MODUL





MODULARITY

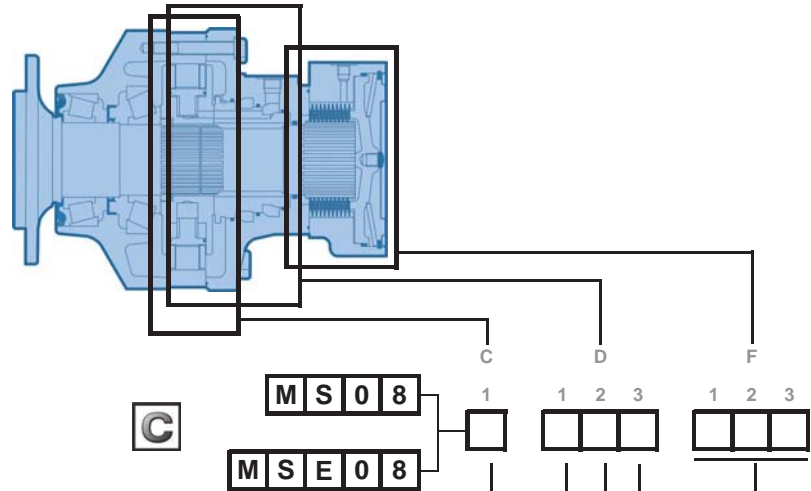


Modularity and Model code

- Wheel motor
- Shaft motor
- Valving systems and hydrobases
- Brake
- Options



MODEL



C1

Came type

| | | 1 displacement | 2 displacements | |
|-----------------------|--------------|----------------------------------|-----------------|----|
| | | cm ³ /tr [cu.in/rev.] | | |
| Cams with equal lobes | MS08 | 467 [28.5] | 234 [14.3] | 6 |
| | | 627 [38.2] | 314 [19.2] | 8 |
| | | 702 [42.8] | 351 [21.4] | 9 |
| | | 780 [47.6] | 390 [23.8] | 0 |
| | | 857 [52.3] | 429 [26.2] | 1 |
| Cams with equal lobes | MSE08 | 934 [57.0] | 467 [28.5] | 2 |
| | | 1 043 [63.6] | 522 [31.8] | 0 |
| | | 1 146 [69.9] | 573 [34.9] | 1 |
| Cams with equal lobes | MS08 | 1 248 [76.1] | 624 [38.1] | 2 |
| | | 623 [38.0] | < 390 [23.8] | Q* |
| | | | 233 [14.2] | |
| | | 700 [42.7] | < 467 [28.5] | D* |
| | | | 233 [14.2] | |
| Cams with equal lobes | MSE08 | 780 [47.6] | < 467 [28.5] | A* |
| | | | 313 [19.1] | |
| | | 833 [50.8] | < 522 [31.8] | Q* |
| | | | 312 [19.0] | |
| | | 936 [57.1] | < 624 [38.1] | D* |
| | 312 [19.0] | | | |
| | 1 043 [63.6] | < 624 [38.1] | A* | |
| | | 418 [25.5] | | |

* Only for Classic motor

D1

Valving type

| | | |
|--|----------|----------|
| 1-displacement valving | 1 | |
| 2-displacement symmetrical valving | A | Ratio 2 |
| | B | Ratio <2 |
| | C | Ratio >2 |
| 2-displacement & Twin-Lock™ valving (Clockwise) | D | Ratio 2 |
| | E | Ratio <2 |
| | F | Ratio >2 |
| 2-displacement & Twin-Lock™ valving (Counterclockwise) | G | Ratio 2 |
| | H | Ratio <2 |
| | J | Ratio >2 |

D2

Valving cover

| | | | | |
|-----------------|------------------|----------|----------|----------|
| Classic motor | Without mounting | 1 | 4 | D |
| | Lug fixing | 2 | 5 | E |
| HighFlow™ motor | Without mounting | B | L | - |
| | Lug fixing | C | N | - |

1 Displacement
2 Displacement
Exchange
Twin-Lock™

D3

Connection type

| | |
|------------------------------------|----------|
| ISO 6162 Flanges | 1 |
| ISO 9974-1 connections | |
| ISO 6162 Flanges | 2 |
| ISO 1179-1 connections | |
| ISO 9974-1 connections (M22 x 1.5) | 4 |
| ISO 9974-1 connections (M27 x 2) | |
| ISO 6149-1 connections | 8 |
| ISO 11 926-1 connections | |

F1-F3

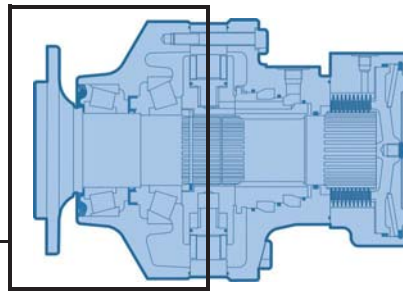
Rear brake

| | | |
|---|---------------|-----------------------------|
| One-piece valving cover single displacement | | M 0 8 |
| Without brake (reinforced plate) | | R 0 8 |
| Brake* | Parking brake | Clipped environmental cover |
| | | Screwed enviromental cover |
| | | F 0 8 |
| | | F 0 9 |
| | | T 0 9 |

* Classic motor can be codified with F08/F09/T09 brakes. HighFlow™ motor can only be codified with T09 brake.



CODE



P1
Front unit

| | |
|---|-------------------------|
| 0 | Without bearing support |
| 1 | Without mounting |
| 2 | Lug mounting |

P2
Bearing support

| | |
|---|--------------------------------|
| 0 | Without shaft |
| 1 | 6 x Ø20 on Ø205 |
| 2 | 8 x Ø22 on Ø203.2 |
| 3 | 6 x Ø20 on Ø205 |
| 4 | 10 x Ø18 on Ø225 |
| 5 | 6 x Ø18 on Ø152.4 |
| 6 | 12 x M12 on Ø205 |
| 7 | 8 x Ø22 on Ø275 |
| 9 | 12 x Ø14 on Ø165 |
| G | Support without drum brake |
| K | Drum brake Mineral |
| L | (270 x 60) DOT |
| P | Drum brake Mineral |
| Q | (315 x 80) DOT |
| A | For male shaft bearing support |

P3
Shaft type

| | |
|---|-------------------|
| 1 | Without studs |
| 2 | With studs + nuts |
| 3 | With studs |
| 4 | M threaded holes |

Male shafts

| | |
|---|----------------------|
| 1 | NF E22-141 splines |
| 4 | Cylindrical with key |
| 5 | DIN 5480 splines |

P4

| | |
|-------------------------|--------------|
| Drum brake | |
| Without cable | 4 |
| Right-hand cable outlet | 5 (270 x 60) |
| Left-hand cable outlet | 6 |
| Without cable | Q |
| Right-hand cable outlet | R (315 x 80) |
| Left-hand cable outlet | S |

S1-S6
Options

| | |
|--|---|
| Without option | 0 |
| Fluorinated elastomer seals compatible with C and D fluids | 1 |
| T4 speed sensor (without rotation direction) | 2 |
| Brake environmental cover without plug | 3 |
| Drainage (additional drain in the cover) | 5 |
| Industrial bearing support | 6 |
| Diamond™ | 7 |
| Predisposition for speed sensor | 8 |
| Hollow shaft | A |
| Drain on the bearing support | B |
| Abrasive environment (mechanical seal) | C |
| Special paint or no paint | D |
| Reinforced sealing | E |
| Special wheel rim mounting | G |
| High efficiency | H |
| Surface heat treatment of the shaft | J |
| High speed | M |
| TD speed sensor (two phase shifted frequencies) | Q |
| TR speed sensor (digital rotation direction) | S |

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.

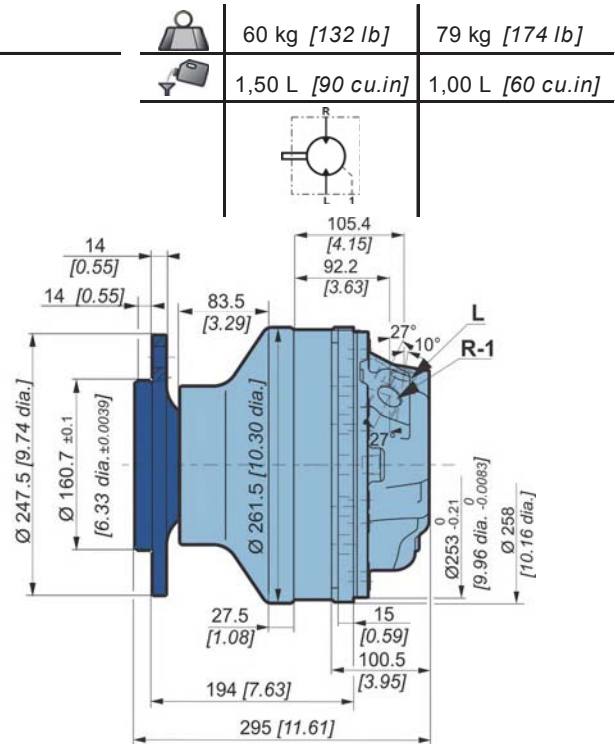
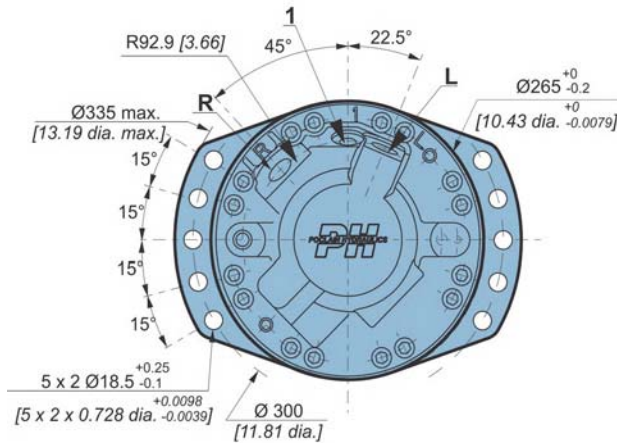
The dimensional data is given in mm and in inches (inches are between brackets and italic)





WHEEL MOTOR CLASSIC

Dimensions for Classic (1110) 1-displacement motor

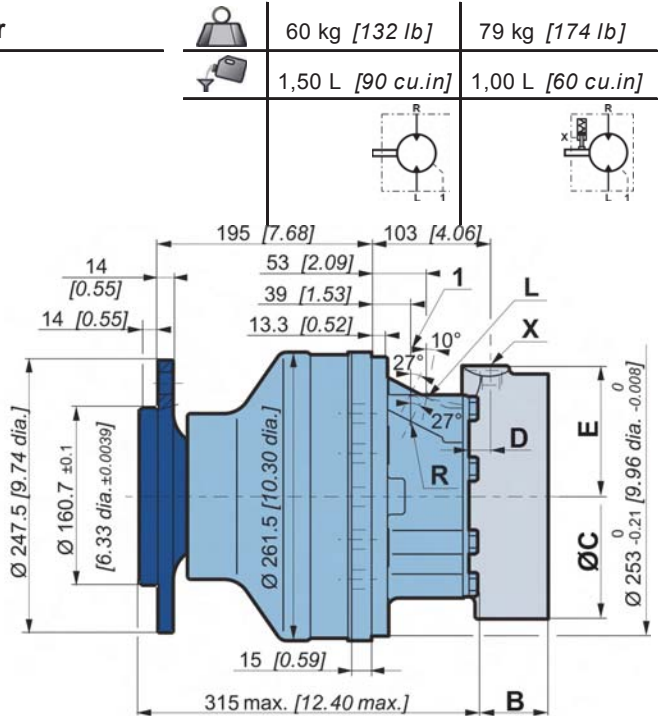
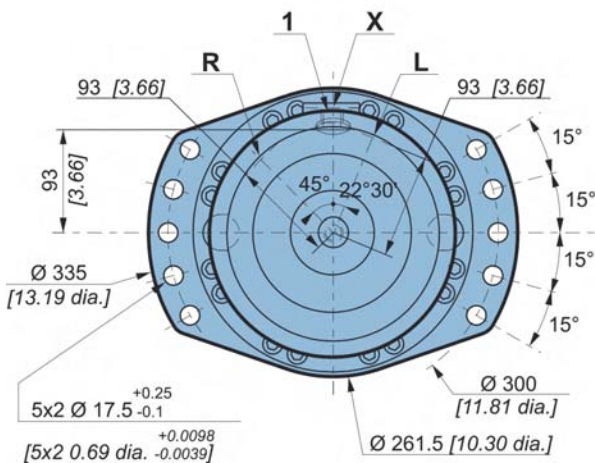


Modularity and Model code

Wheel motor

Shaft motor

Dimensions for Classic (1110) 1-displacement motor



Valving systems and hydrobases

Brake

Options

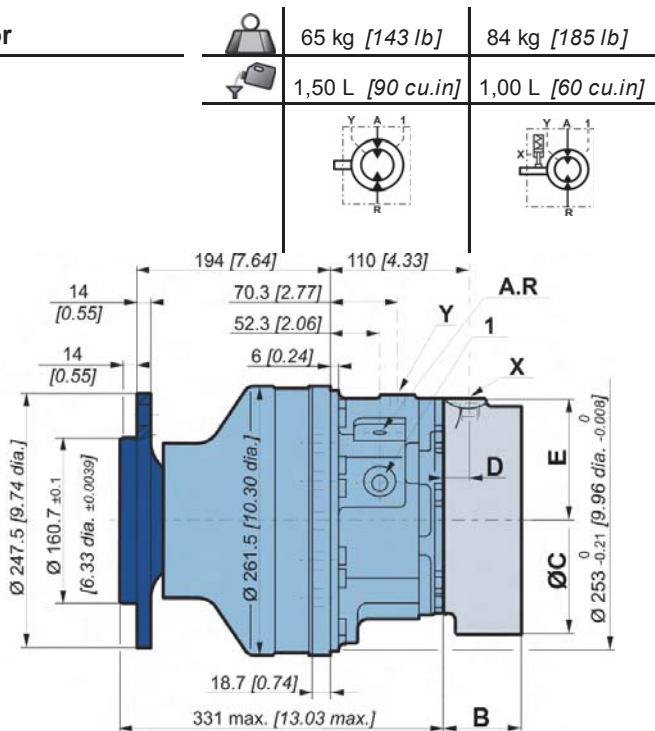
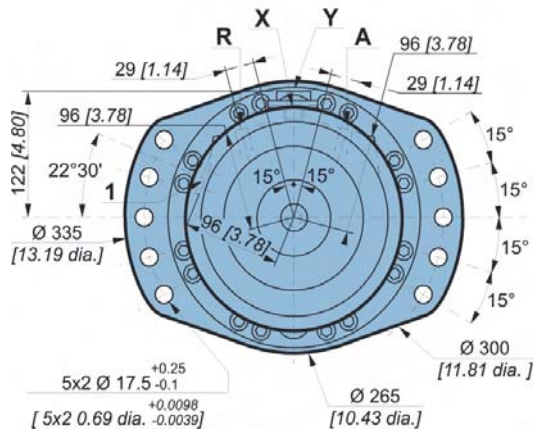
| | C | T 0 9 | F 0 8 | F 0 9 |
|---|-------------------|------------------|------------------|--------------|
| | | | | |
| B | 87,10 [3,43] | 78,3 [3,08] | 71,3 [2,81] | |
| C | Ø255 [10,02 dia.] | Ø222 [8,74 dia.] | Ø222 [8,74 dia.] | |
| D | 19,0 [0,75] | 26,0 [1,02] | 21,0 [0,83] | |
| E | 115,0 [4,53] | 115,5 [4,55] | 115,3 [4,54] | |

Also see "Brake" section (thumbnail opposite).

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

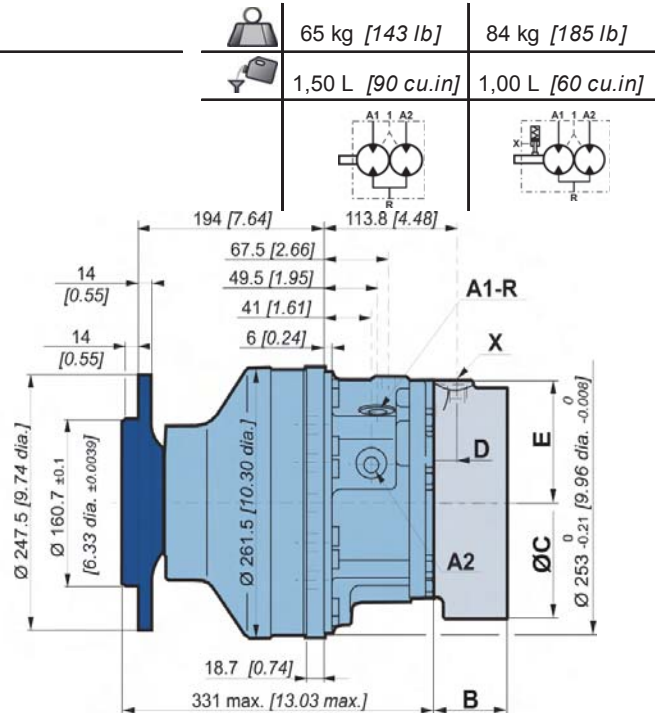
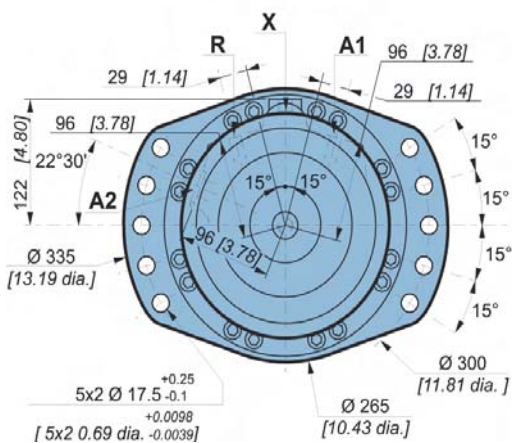


Dimensions for Classic (1110) 2-displacement motor



| | | |
|--|--------------------|--------------------|
| | 65 kg [143 lb] | 84 kg [185 lb] |
| | 1,50 L [90 cu.in.] | 1,00 L [60 cu.in.] |
| | | |

Dimensions for Classic (1110) Twin-Lock™



| | | |
|--|--------------------|--------------------|
| | 65 kg [143 lb] | 84 kg [185 lb] |
| | 1,50 L [90 cu.in.] | 1,00 L [60 cu.in.] |
| | | |

| | C | T 0 9 | F 0 8 | F 0 9 |
|----------|-------------------|------------------|------------------|--------------|
| B | 87,10 [3,43] | 78,3 [3,08] | 71,3 [2,81] | |
| C | Ø255 [10,02 dia.] | Ø222 [8,74 dia.] | Ø222 [8,74 dia.] | |
| D | 19,0 [0,75] | 26,0 [1,02] | 21,0 [0,83] | |
| E | 115,0 [4,53] | 115,5 [4,55] | 115,3 [4,54] | |



Also see "Brake" section (thumbnail opposite).

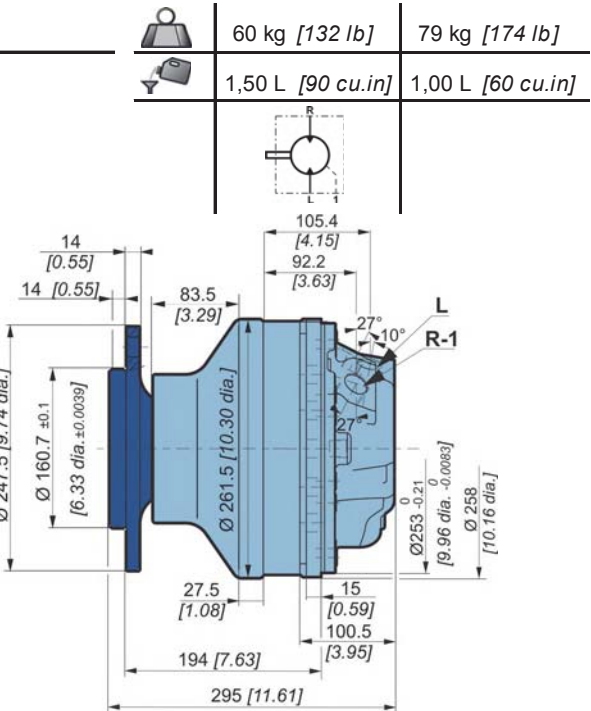
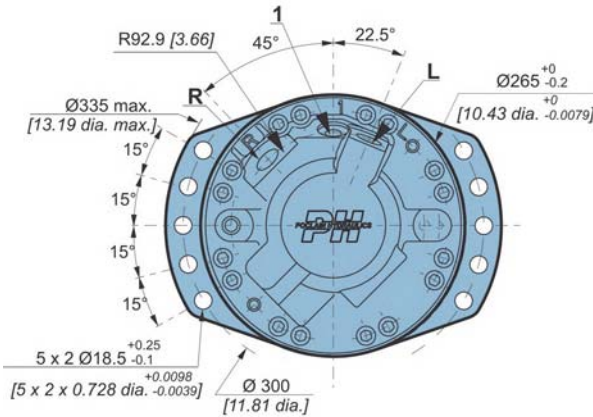


Also see 'Valving systems and hydrobases' section (thumbnail opposite).

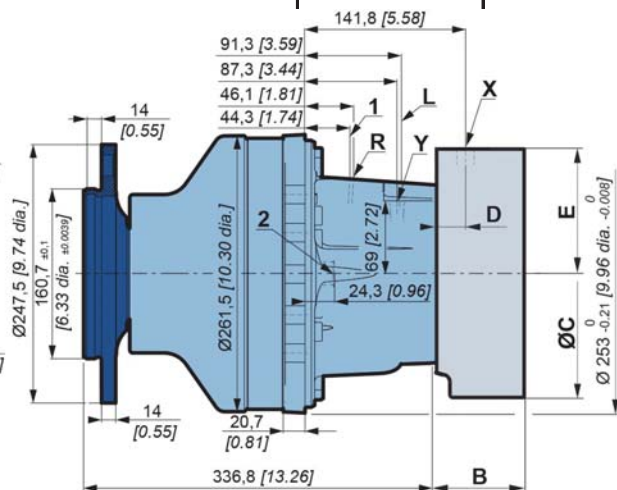
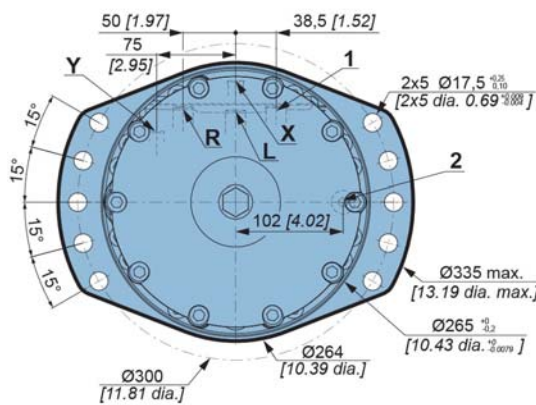


WHEEL MOTOR HIGHFLOW™

Dimensions for HighFlow™ (1110) 1-displacement motor



Dimensions for HighFlow™ (1110) 2-displacement motor



| | |
|----------|------------------|
| C | T 0 9 |
| B | 88,2 [3,47] |
| C | Ø238 [9,37 dia.] |
| D | 21,0 [0,83] |
| E | 114,0 [4,49] |



Also see "Brake" section (thumbnail opposite).



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

Modularity and Model code

Wheel motor

Shaft motor

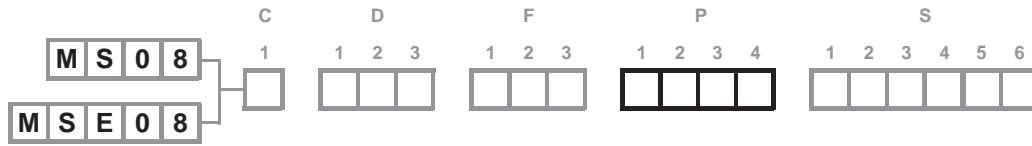
Valving systems and hydrobases

Brake

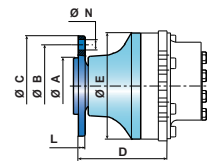
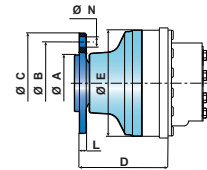
Options



Bearing support for Classic and HighFlow™ motor



| C | A mm [in] | B mm [in] | C mm [in] | D mm [in] | E mm [in] | N mm [in] | Wheel rim mountings | L mm [in] |
|----------|------------------------|------------------------|-----------------------|---------------------|-------------------------|-------------------------------|----------------------------|---------------------|
| | Ø 160,7 [6,33 dia.] | Ø 205 [8,07 dia.] | Ø 245 [9,65 dia.] | 195 [7,68] | Ø 261,5 [10,30 dia.] | 6 x Ø 20 [6 x 0,79 dia.] | M18x1.5 | 13,5 [0,53] |
| | Ø 150,9 [5,94 dia.] | Ø 203,2 [8,00 dia.] | Ø 238 [9,37 dia.] | 194,1 [7,64] | Ø 261,5 [10,30 dia.] | 8 x Ø 22 [8 x 0,87 dia.] | M20x1.5 | 13,5 [0,53] |
| | Ø 175,7 [6,92 dia.] | Ø 225 [8,86 dia.] | Ø 270 [10,63 dia.] | 188,8 [7,43] | Ø 261,5 [10,30 dia.] | 10 x Ø 18 [10 x 0,71 dia.] | M16x1.5 | 15 [0,59] |
| | Ø 160,7 [6,33 dia.] | Ø 205 [8,07 dia.] | Ø 245 [9,65 dia.] | 163 [6,42] | Ø 261,5 [10,30 dia.] | 6 x Ø 20 [6 x 0,79 dia.] | M18x1.5 | 14 [0,55] |
| | Ø 117,5 [4,63 dia.] | Ø 152,4 [6,00 dia.] | Ø 181 [7,13 dia.] | 163 [6,42] | Ø 261,5 [10,30 dia.] | 6 x Ø 18 [6 x 0,71 dia.] | M14x1.5 | 11 [0,43] |
| | Ø 160,7 [6,33 dia.] | Ø 205 [8,07 dia.] | Ø 245 [9,65 dia.] | 163 [6,42] | Ø 261,5 [10,30 dia.] | 12 x M12 | - | 14,8 [0,58] |



The supports in gray must not be assembled with an MSE hydrobase.



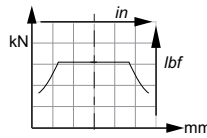
Load curves for Classic and HighFlow™ motor

Permissible radial loads

Test conditions :

Static : 0 tr/min [0 RPM] 0 bar [0 PSI]

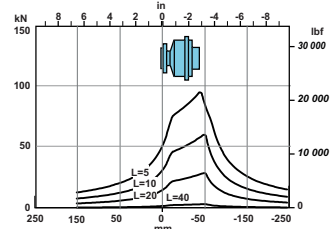
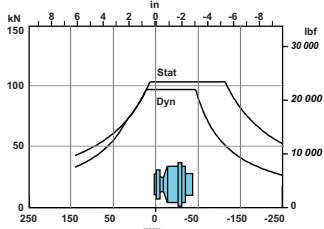
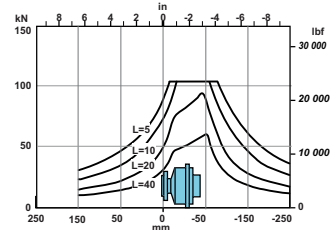
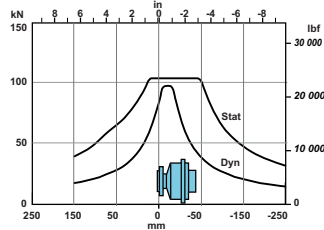
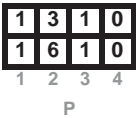
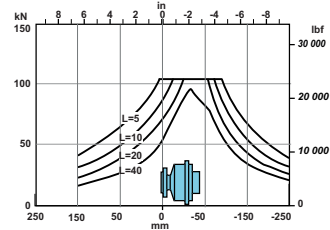
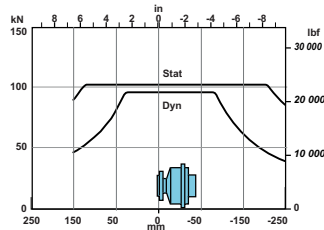
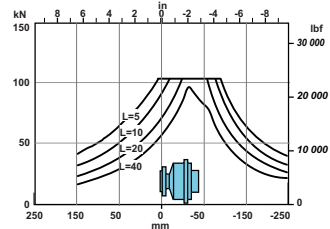
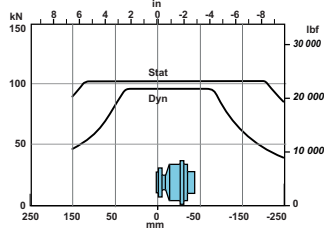
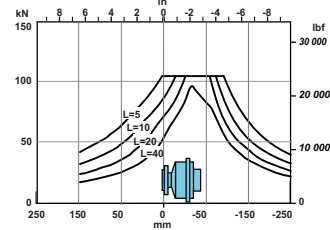
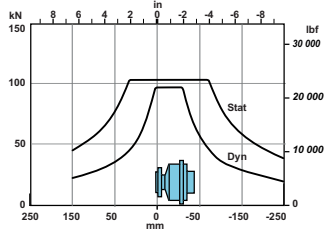
Dynamic : 0 tr/min [0 RPM], code 0 displacement, without axial load at max. torque



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.



Modularity and Model code

Wheel motor

Shaft motor

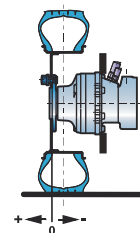
Valving systems and hydrobases

Brake

Options



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.





Bearing support for Classic and HighFlow™ motor (continued)

| | C | | | | D | | | F | | | P | | | | S | | | | | | |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------------|---------------------|------------------------|-----------------------|-----------------------|-----------------|-------------------------|-------------------------------|-----------------------|------------------|--|-------------------------------|-----------------|--------------|----------------------------------|
| | MS08 | | | | | | | | | | | | | | | | | | | | |
| | MSE08 | | | | | | | | | | | | | | | | | | | | |
| C | A mm [in] | B mm [in] | C mm [in] | D mm [in] | E mm [in] | N mm [in] | Wheel rim mountings | L mm [in] | | | | | | | | | | | | | |
| <table border="1"> <tr><td>1</td><td>9</td><td>1</td><td>0</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td></tr> </table> <p>P</p> | 1 | 9 | 1 | 0 | 1 | 2 | 3 | 4 | Ø 117,5 [4,63 dia.] | Ø 165 [6,50 dia.] | Ø 186 [7,32 dia.] | 163,2 [6,43] | Ø 261,5 [10,30 dia.] | 12 x Ø 14 [12 x 0,55 dia.] | - | 12 [0,47] | | | | | |
| 1 | 9 | 1 | 0 | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td>1</td><td>G</td><td>1</td><td>0</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td></tr> </table> <p>P</p> | 1 | G | 1 | 0 | 1 | 2 | 3 | 4 | Ø 175,7 [6,92 dia.] | Ø 225 [8,86 dia.] | Ø 265 [10,43 dia.] | 228,6 [9,00] | Ø 261,5 [10,30 dia.] | 10 x Ø 24 [10 x 0,94 dia.] | M22x1.5 | 15 [0,59] | | | | | |
| 1 | G | 1 | 0 | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td>1</td><td>K</td><td>3</td><td>0</td></tr> <tr><td>1</td><td>L</td><td>3</td><td>0</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td></tr> </table> <p>P</p> | 1 | K | 3 | 0 | 1 | L | 3 | 0 | 1 | 2 | 3 | 4 | Ø 160,7 [6,33 dia.] | Ø 205 [8,07 dia.] | Ø 286 [11,26 dia.] | 255,8 [10,07] | | 6 x Ø 22 [6 x 0,87 dia.] | 6 x M18x1.5 | 30 [1,18] | <p>Friction surface 270 x 60</p> |
| 1 | K | 3 | 0 | | | | | | | | | | | | | | | | | | |
| 1 | L | 3 | 0 | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td>1</td><td>P</td><td>3</td><td>0</td></tr> <tr><td>1</td><td>Q</td><td>3</td><td>0</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td></tr> </table> <p>P</p> | 1 | P | 3 | 0 | 1 | Q | 3 | 0 | 1 | 2 | 3 | 4 | Ø 175,7 [6,92 dia.] | Ø 225 [8,86 dia.] | Ø 344 [13,54 dia.] | 238,3 [9,38] | | 10 x Ø 22 [10 x 0,87 dia.] | 10 x M22x1.5 | 39 [1,54] | <p>Friction surface 315 x 80</p> |
| 1 | P | 3 | 0 | | | | | | | | | | | | | | | | | | |
| 1 | Q | 3 | 0 | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td>1</td><td>7</td><td>1</td><td>0</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td></tr> </table> | 1 | 7 | 1 | 0 | 1 | 2 | 3 | 4 | Ø 220,7 [8,69 dia.] | Ø 275 [10,83 dia.] | Ø 314 [12,36 dia.] | 194 [7,64] | Ø 261,5 [10,30 dia.] | 8 x Ø 22 [8 x 0,87 dia.] | M20x1.5 | 14 [0,55] | | | | | |
| 1 | 7 | 1 | 0 | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | | |

Studs

| | | P mm [in] | C min. mm [in] | C max. mm [in] | D mm [in] | Class |
|---------------|-------------|---------------------|--------------------------|--------------------------|---------------------|--------------|
| Various studs | M14x1.5 | 45 [1,77] | 5 [0,20] | 15 [0,57] | 16,5 [0,65] | 12,9 |
| | M18x1.5 | 55 [2,17] | | 18 [0,71] | 23 [0,91] | |
| | M18x1.5 | 65 [2,56] | | 23 [0,91] | 25 [0,98] | |
| | M20x1.5 | 60 [2,36] | | 21 [0,83] | 26 [1,02] | |
| | M22x1.5 | 55 [2,17] | | 15 [0,59] | | |
| | M22x1.5 | 80 [3,15] | | 40 [1,57] | | |
| Screws | M12x1.75 | - | - | - | - | 10,9 |
| | 1/2"-20 UNF | - | - | - | - | 10,9 |



See generic installation motors N°801478197L.



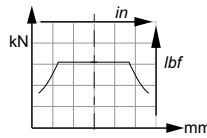
Load curves for Classic and HighFlow™ motor (continued)

Permissible radial loads

Test conditions :

Static : 0 tr/min [0 RPM] 0 bar [0 PSI]

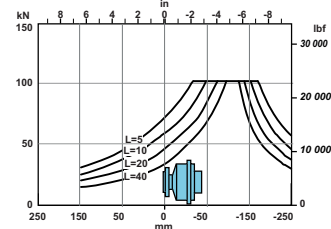
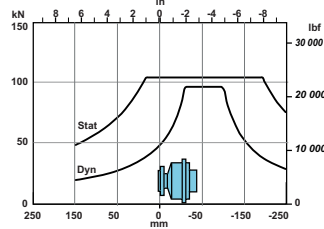
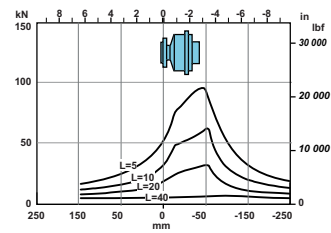
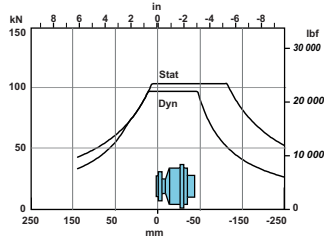
Dynamic : 0 tr/min [0 RPM], code 0 displacement, without axial load at max. torque



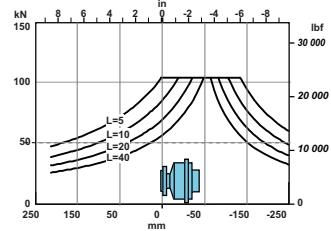
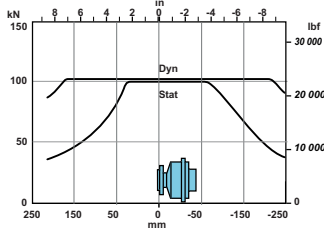
Service life of bearings

Test conditions :

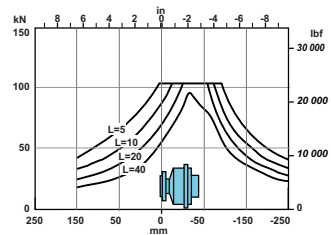
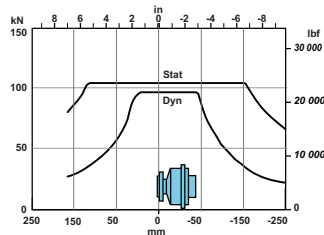
L : Millions B10 revolutions at 150 bars (average pressure), with 25 cSt fluid, code 0 displacement, without axial load.



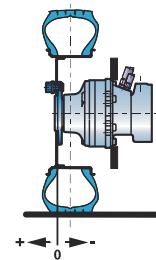
Friction surface 270 x 60



Friction surface 315 x 80



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.



Modularity and Model code

Wheel motor

Shaft motor

Valving systems and hydrobases

Brake

Options

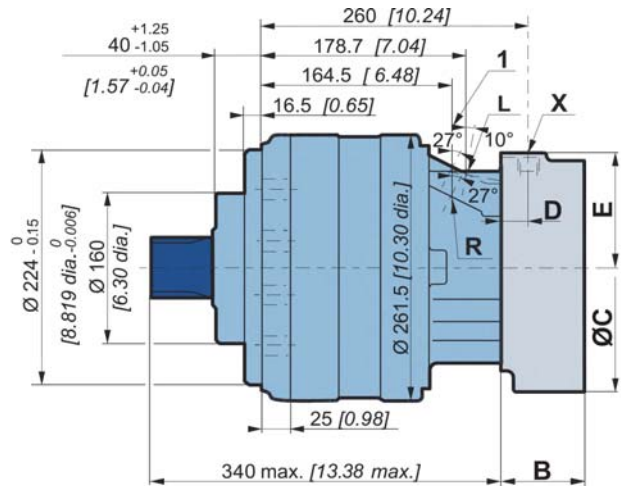
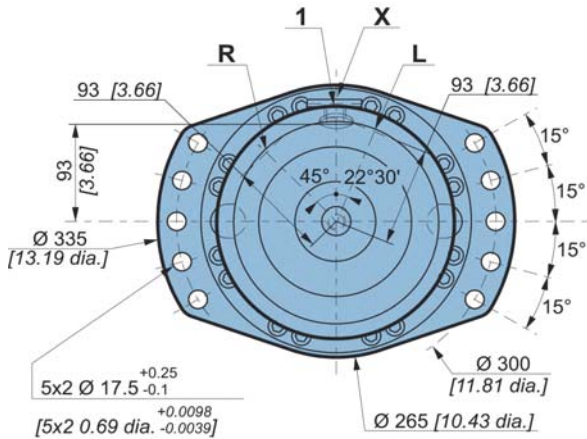




SHAFT MOTOR CLASSIC

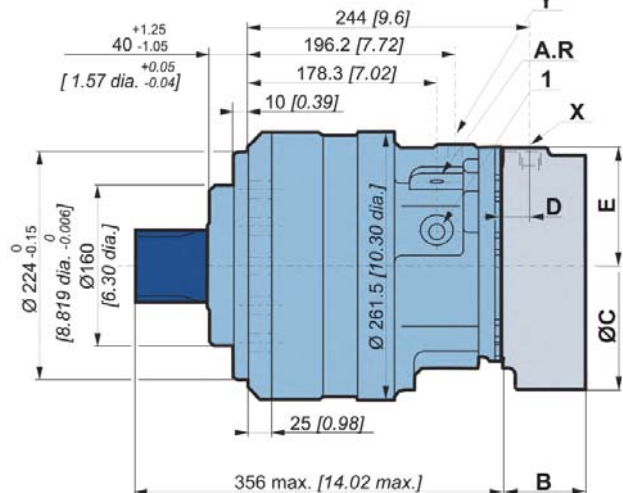
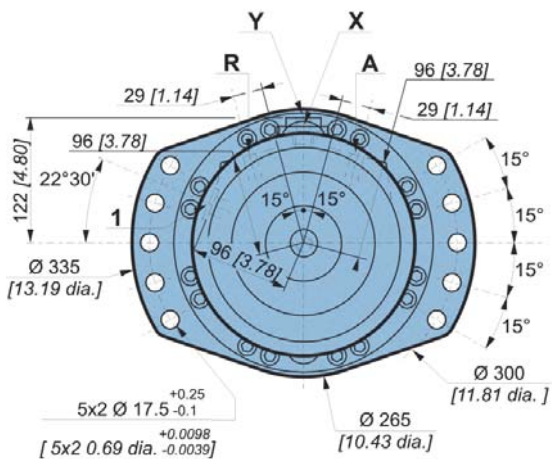
Dimensions for Classic (2A50) 1-displacement motor

| | | |
|--|-------------------|-------------------|
| | 62 kg [136 lb] | 80 kg [176 lb] |
| | 1,50 L [90 cu.in] | 1,00 L [60 cu.in] |
| | | |



Dimensions for Classic (2A50) 2-displacement motor

| | | |
|--|-------------------|-------------------|
| | 67 kg [147 lb] | 85 kg [187 lb] |
| | 1,50 L [90 cu.in] | 1,00 L [60 cu.in] |
| | | |



| | C | T09 | F08 | F09 |
|--|----------|-------------------|------------------|------------------|
| | B | 87,10 [3,43] | 78,3 [3,08] | 71,3 [2,81] |
| | C | Ø255 [10,02 dia.] | Ø222 [8,74 dia.] | Ø222 [8,74 dia.] |
| | D | 19,0 [0,75] | 26,0 [1,02] | 21,0 [0,83] |
| | E | 115,0 [4,53] | 115,5 [4,55] | 115,3 [4,54] |



Also see "Brake" section (thumbnail opposite).



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

Modularity and Model code

Wheel motor

Shaft motor

Valving systems and hydrobases

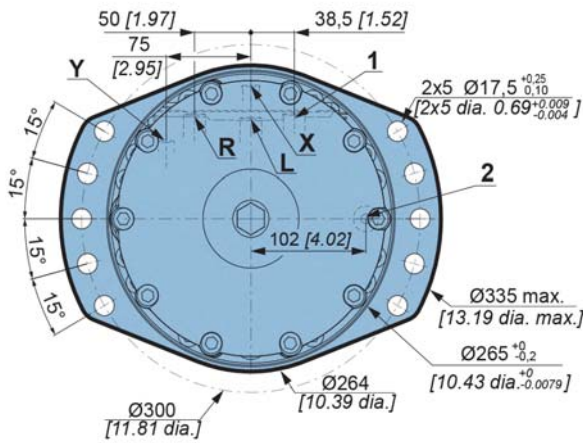
Brake

Options

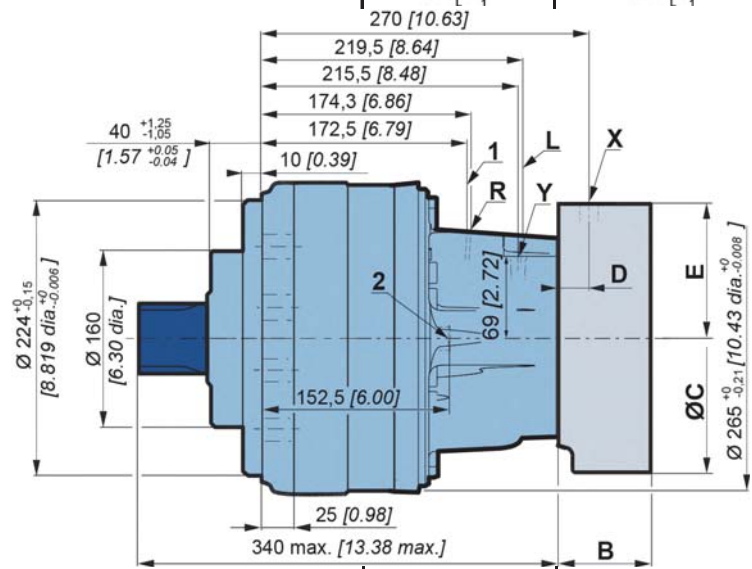


SHAFT MOTOR HIGHFLOW™

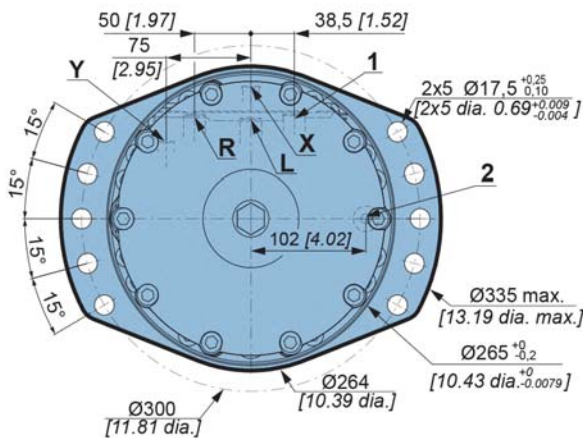
Dimensions for HighFlow™ (2A50) 1-displacement motor



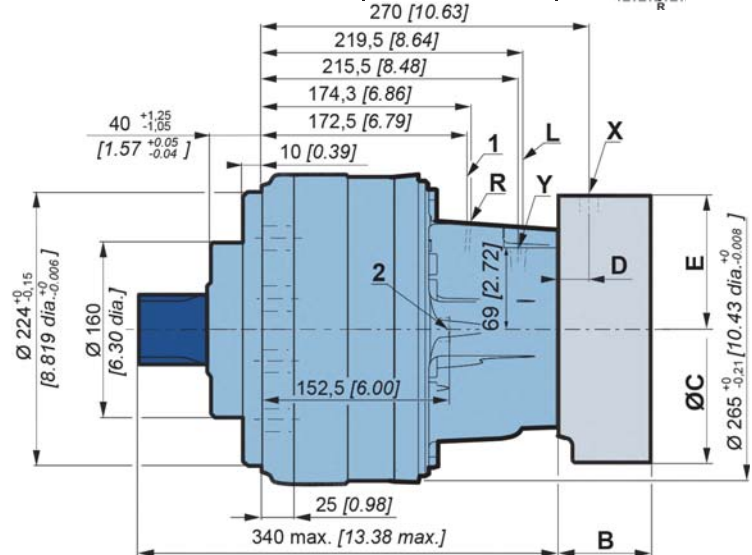
| | | |
|--|-------------------|-------------------|
| | 62 kg [136 lb] | 80 kg [176 lb] |
| | 1,50 L [90 cu.in] | 1,00 L [60 cu.in] |
| | | |



Dimensions for HighFlow™ (2A50) 2-displacement motor



| | | |
|--|-------------------|-------------------|
| | 67 kg [147 lb] | 85 kg [187 lb] |
| | 1,50 L [90 cu.in] | 1,00 L [60 cu.in] |
| | | |



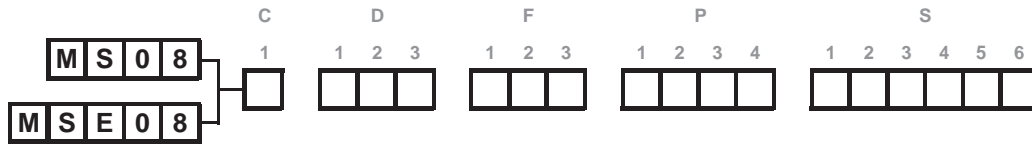
| | |
|----------|------------------|
| | T 0 9 |
| B | 88,2 [3,47] |
| C | Ø238 [9,37 dia.] |
| D | 21,0 [0,83] |
| E | 114,0 [4,49] |

Also see "Brake" section (thumbnail opposite).

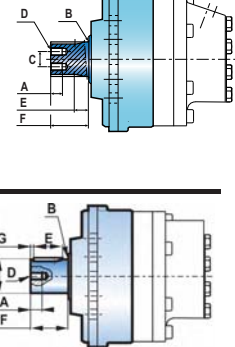
Also see 'Valving systems and hydrobases' section (thumbnail opposite).



Bearing support for Classic and HighFlow™ motor

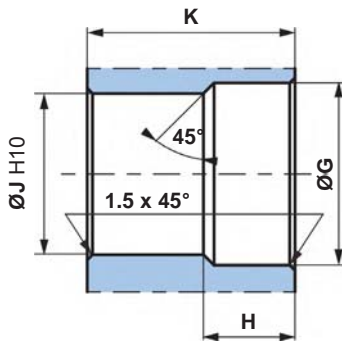


| | | A | B | C | D | E | F | | | | | | | | | | | | |
|---|-----------|---|---|---|---|---|---|---|---|--|--|--|---------------------------|--------------|--------------------|------------------------|---------|--------------|---------------|
| C <table border="1"> <tr><td>2</td><td>A</td><td>5</td><td>0</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td colspan="4">P</td></tr> </table> | 2 | A | 5 | 0 | 1 | 2 | 3 | 4 | P | | | | DIN 5480 splines | 15 [0,59] | R 2,5 [R 0,10] | 35 [1,38] | 2 x M10 | 23 [0,91] | 70 [2,76] |
| | 2 | A | 5 | 0 | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | |
| P | | | | | | | | | | | | | | | | | | | |
| Nominal Ø | 70 [2,76] | | | | | | | | | | | | | | | | | | |
| Module | 3 | | | | | | | | | | | | | | | | | | |
| Z | 22 | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td>2</td><td>A</td><td>1</td><td>0</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td colspan="4">P</td></tr> </table> | 2 | A | 1 | 0 | 1 | 2 | 3 | 4 | P | | | | NF E22-141 splines | 15 [0,59] | R 2,5 [R 0,10] | 35 [1,38] | 2 x M10 | 24 [0,94] | 70 [2,76] |
| | 2 | A | 1 | 0 | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | |
| P | | | | | | | | | | | | | | | | | | | |
| Nominal Ø | 65 [2,56] | | | | | | | | | | | | | | | | | | |
| Module | 2.5 | | | | | | | | | | | | | | | | | | |
| Z | 24 | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td>2</td><td>A</td><td>4</td><td>0</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td colspan="4">P</td></tr> </table> | 2 | A | 4 | 0 | 1 | 2 | 3 | 4 | P | | | | DIN 6885 Key | 30 [1,18] | R 2,5 [0,10 R.] | Ø 69,99 [2,76 dia.] | M16 | 90 [3,54] | 106 [4,17] |
| | 2 | A | 4 | 0 | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | |
| P | | | | | | | | | | | | | | | | | | | |
| X 20 [0,79] | | | | | | | | | | | | | | | | | | | |
| Y 74 max. [2,91] max. | | | | | | | | | | | | | | | | | | | |



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

Splined coupling



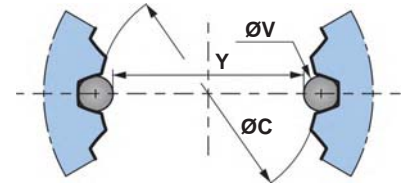
Standard NF E22-141

Pressure angle 20°.
Centering on flanks.
Slide fit (7H quality).

Standard DIN 5480

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

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



| | | Ø G | H | Ø J | K | N | Mo | Z | Offset | Ø C (H10) | Ø V | Y | Tolerance µm [µin] | | | | | | | | | | | |
|---|---|-----|---|-----|---|---|----|---|--------|-----------|-----|---|--------------------|--------------|--------------|--------------|----------------|-----|----|--------------------|----------------|----------------|------------------|-------------------------------|
| C <table border="1"> <tr><td>2</td><td>A</td><td>1</td><td>0</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td colspan="4">P</td></tr> </table> | 2 | A | 1 | 0 | 1 | 2 | 3 | 4 | P | | | | 66 [2,60] | 25 [0,98] | 60 [2,36] | 69 [2,72] | 65 [2,56] | 2,5 | 24 | 2 [0,08] | 60 [2,36] | 5 [0,20] | 55,169 [2,17] | + 86 / 0 [+3.386 / 0] |
| | 2 | A | 1 | 0 | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | | | | | |
| P | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td>2</td><td>A</td><td>5</td><td>0</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td colspan="4">P</td></tr> </table> | 2 | A | 5 | 0 | 1 | 2 | 3 | 4 | P | | | | 71,5 [2,81] | 25 [0,98] | 64 [2,52] | 69 [2,72] | 70,0 [2,76] | 3 | 22 | +0,35 [+0,0138] | 64,0 [2,52] | 5,25 [0,21] | 59,042 [2,32] | + 76 / +28 [+2.992 / +1.1] |
| 2 | A | 5 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | | | | | |
| P | | | | | | | | | | | | | | | | | | | | | | | | |

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].

Modularity and Model code

Wheel motor

Shaft motor

Valving systems and hydrobases

Brake

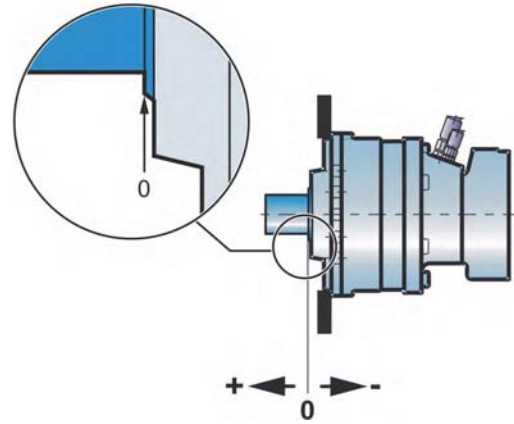
Options



Load curves for Classic and HighFlow™ motor



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 Poclair Hydraulics application engineer.

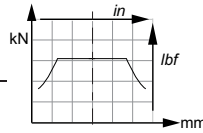


Permissible radial loads

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].

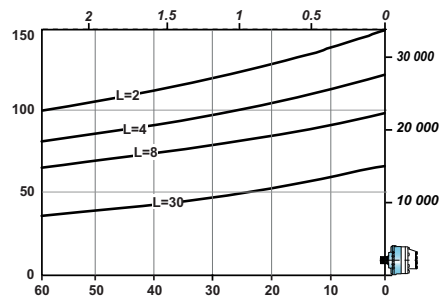
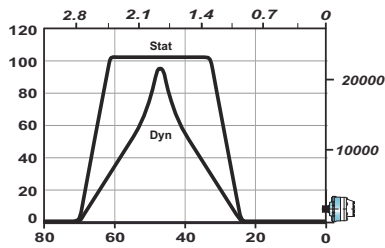


Service life of bearings

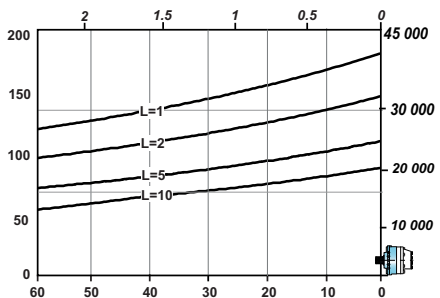
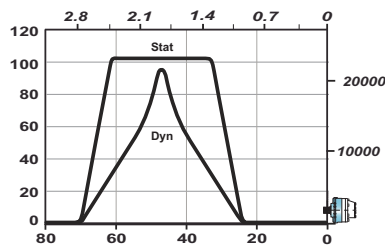
Test conditions :

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

2 A 5 0
1 2 3 4
P



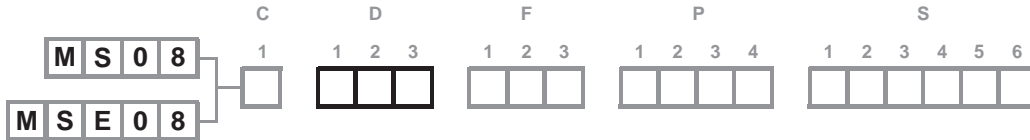
2 A 1 0
1 2 3 4
P





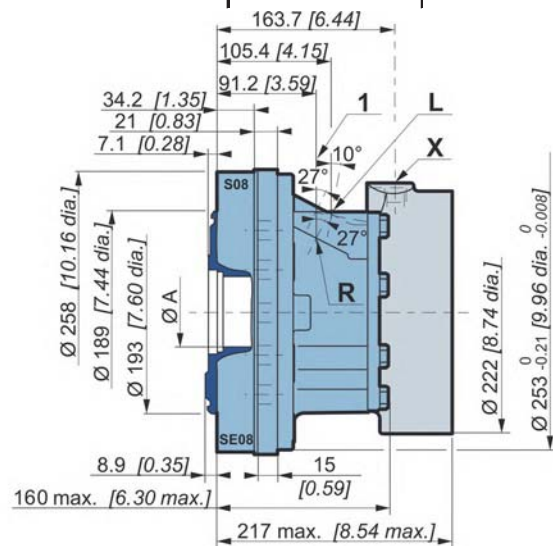
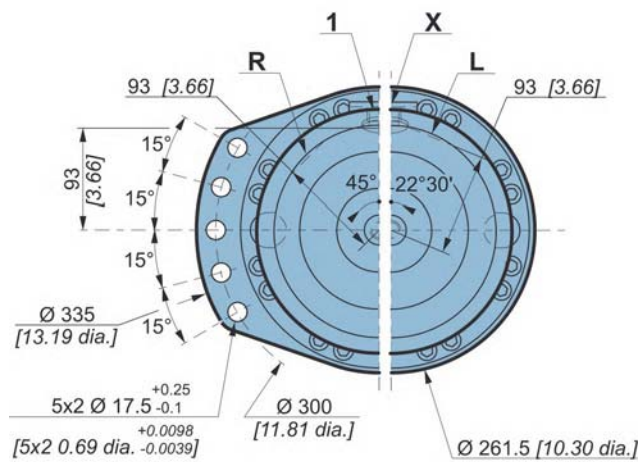
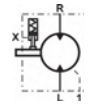
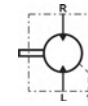
VALVING SYSTEMS AND HYDROBASES

for Classic motor on demand for HighFlow™ motor



Dimensions for 1-displacement valving

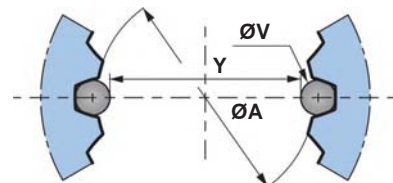
| | | |
|--|-------------------|-------------------|
| | 34,4 kg [76 lb] | 51,8 kg [114 lb] |
| | 0,50 L [30 cu.in] | 1,00 L [60 cu.in] |



Cylinder block splines

(as per standard NF E22-141)

| ØA | Module | Z | Dimension on 2 pins | |
|------------|--------|----|---------------------|-------------|
| | | | Y | ØV |
| 60 [2,362] | 2,5 | 24 | 69,580 [2,739] | 4,5 [0,177] |



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

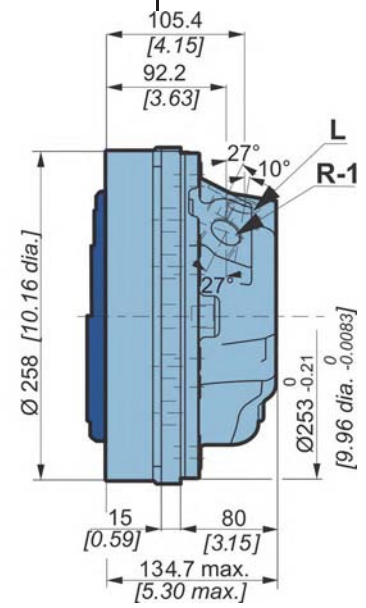
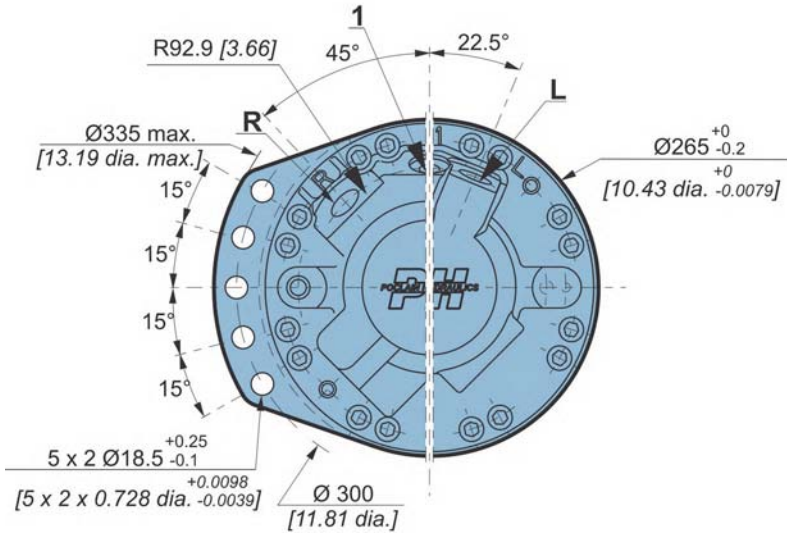
Options



Dimensions for one-piece valving single displacement

| | |
|--|-------------------|
| | 35 kg [77 lb] |
| | 0,50 L [30 cu.in] |
| | |

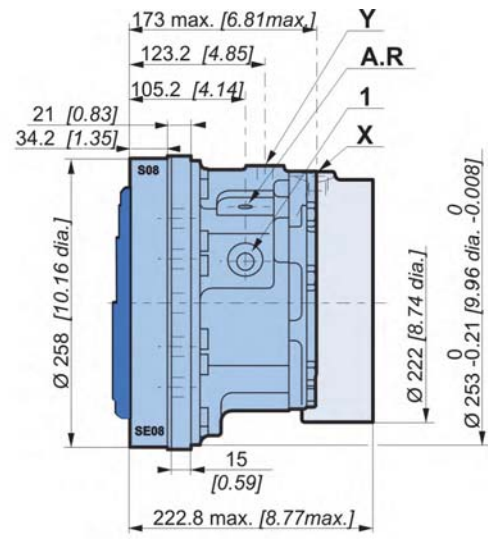
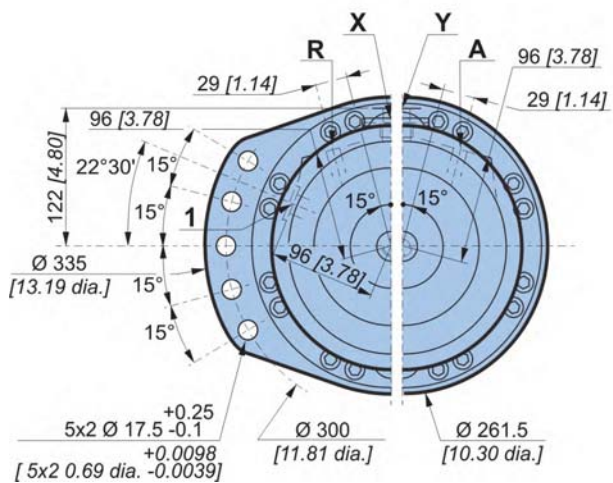
| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | | | F | | | D | | | F | | |
| 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| 1 | 2 | | M | 0 | 8 | 1 | 1 | | M | 0 | 8 |



Dimensions for 2-displacement valving

| | | |
|--|-------------------|-------------------|
| | 37,8 kg [83 lb] | 54,7 kg [120 lb] |
| | 0,50 L [30 cu.in] | 1,00 L [60 cu.in] |
| | | |

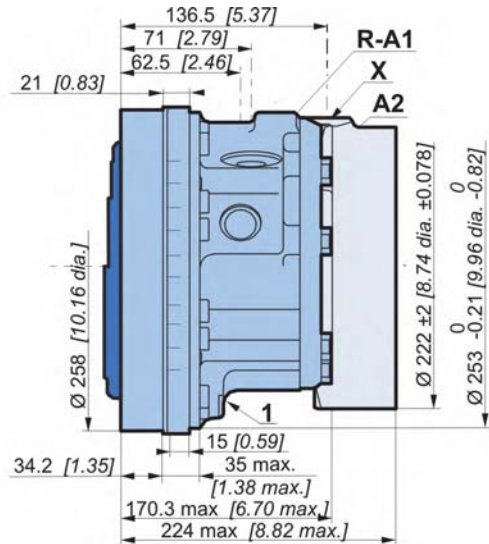
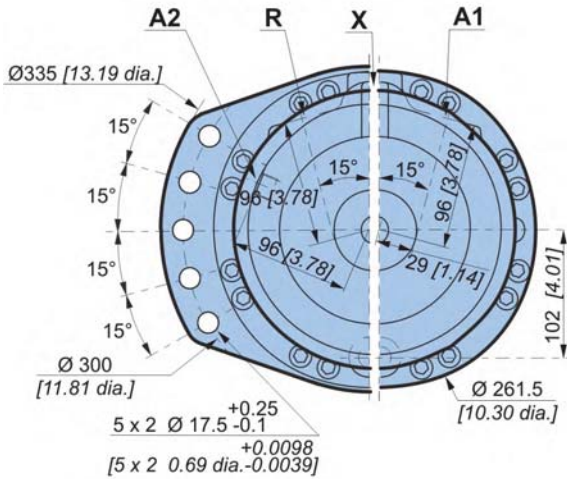
| | | | | | |
|---|---|---|---|---|---|
| D | | | D | | |
| 1 | 2 | 3 | 1 | 2 | 3 |
| 2 | 2 | | 2 | 1 | |





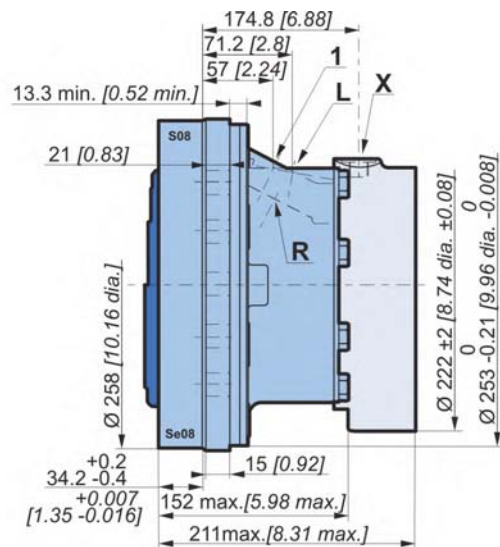
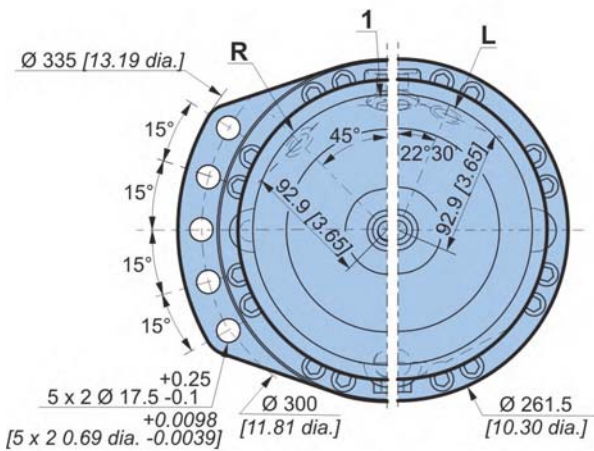
Dimensions for Twin-Lock™ valving

| | | |
|--|-------------------|-------------------|
| | 37,8 kg [83 lb] | 54,7 kg [120 lb] |
| | 0,50 L [30 cu.in] | 1,00 L [60 cu.in] |
| | | |



Dimensions for 1-displacement valving with built-in exchange

| | | |
|--|-------------------|-------------------|
| | 34,4 kg [76 lb] | 51,8 kg [114 lb] |
| | 0,50 L [30 cu.in] | 1,00 L [60 cu.in] |
| | | |



Modularity and Model code

Wheel motor

Shaft motor

Valving systems and hydrobases

Brake

Options



Exchange

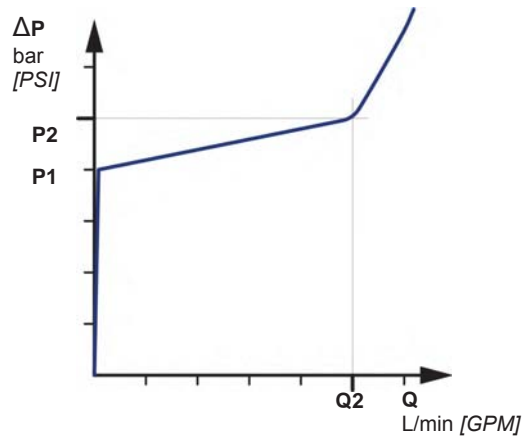
When a coding request is made, you must specify information on the threshold of the selector and the valve.

Selector spool

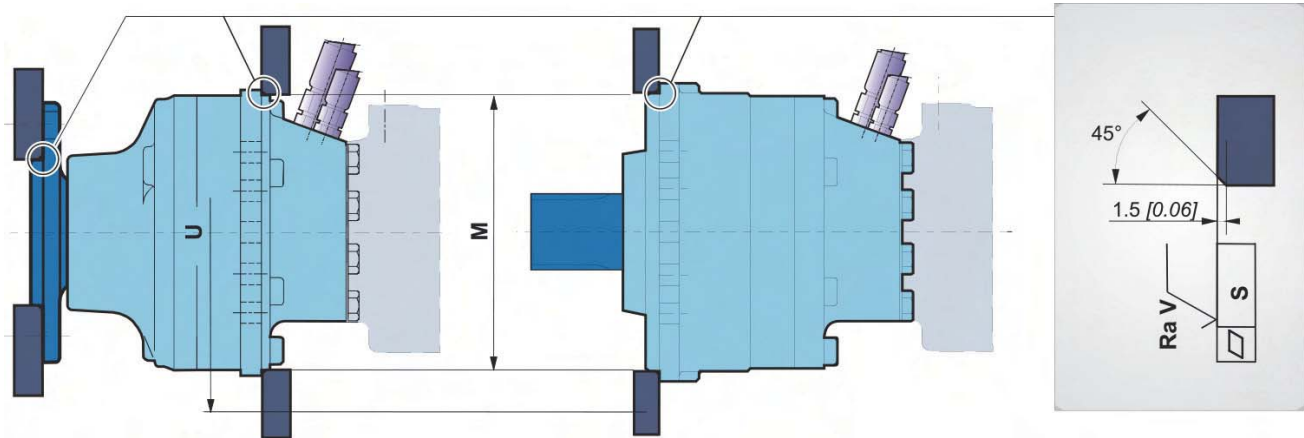
| Selector threshold bar [PSI] | Opening pressure of selector bar [PSI] |
|---------------------------------|---|
| 8 [116] | 9.9 ±1.2 [144 ±17] |

Fitted valve



| P1 bar [PSI] | Q2 L/min [GPM] | P2 bar [PSI] |
|-----------------|-------------------|-----------------|
| 13.5 [195] | 14 [3.7] | 16 [232] |
| 18 [261] | 15 [3.9] | 21 [305] |
| 22 [319] | 16 [4.2] | 25 [363] |



Chassis mountings



Take care over the immediate environment of the connections.

| | ØM ⁽¹⁾ | ØU | S | Ra V |  | Class |  * |
|-------------|-------------------|----------------|----------------|---------------------|---|-------|---|
| Wheel motor | 253 [9,96] | 300 [11,81] | 0,2 [0,008] | 12,5µm [0,49µin] | 2 x 5 M16 x 2 | 8,8 | 210 N.m [155 lb.ft] |
| Shaft motor | 224 [8,82] | 300 [11,81] | | | | | |

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

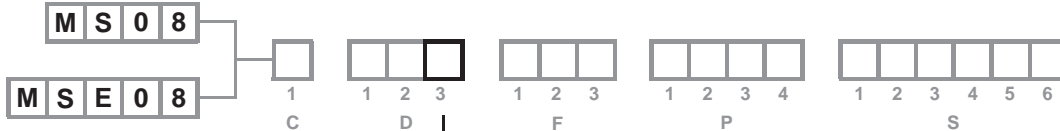
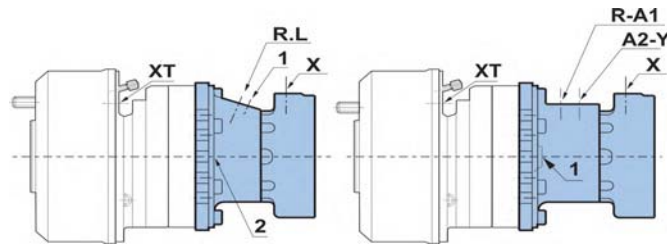
* : Min. values for torque and load to be transmitted.



See generic installation motors N°801478197L.



Hydraulic connections



| | Standards | Power supply | Standards | Case drain | 2 nd displacement control | Control of parking break | Control of drum break |
|----------------|----------------|--------------------|--------------|-------------|--------------------------------------|--------------------------|-----------------------|
| | | R-L | | 1, 2 | | X | XT |
| | A ISO 11 926-1 | 1" 1/16-12 UNF | ISO 11 926-1 | 3/4"-16 UNF | | 9/16"-18 UNF | |
| | 1 ISO 6162 | SAE 6000 PSI- 1/2" | ISO 9974-1 | M18 x 1.5 | | M16 x 1.5 | |
| | 2 ISO 6162 | SAE 6000 PSI- 1/2" | ISO 1179-1 | BSP 3/8 | | BSP 3/8 | M12 x 1.5 |
| | 4 ISO 9974-1 | M22 x 2 | ISO 9974-1 | M18 x 1,5 | | M16 x 1.5 | M14 x 1.5 |
| | 5 ISO 9974-1 | M27 x 2 | ISO 9974-1 | M18 x 1.5 | | M16 x 1.5 | (ISO 9974-1) |
| | 8 ISO 6149-1 | M22 x 2 | ISO 6149-1 | M18 x 1.5 | | M16 x 1.5 | |
| | A ISO 11 926-1 | 1"1/16-12 UNF | ISO 11 926-1 | 3/4"-16 UNF | 9/16"-18 UNF | 9/16"-18 UNF | M12 x 1.5 |
| | 1 ISO 6 162 | SAE 6000 PSI- 1/2" | ISO 9974-1 | M18 x 1.5 | M14 x 1.5 | M16 x 1.5 | M14 x 1.5 |
| | 5 ISO 9974-1 | M27 x 2 | ISO 9974-1 | M18 x 1.5 | M14 x 1.5 | M16 x 1.5 | (ISO 9974-1) |
| | A ISO 11 926-1 | 1"1/16-12 UNF | ISO 11 926-1 | 3/4"-16 UNF | 9/16"-18 UNF | 9/16"-18 UNF | M12 x 1.5 |
| | 3 ISO 1179-1 | BSP 3/4 | ISO 1179-1 | BSP 3/8 | BSP 1/4 | BSP 1/4 | M14 x 1.5 |
| | 5 ISO 9974-1 | M27 x 2 | ISO 9974-1 | M18 x 1.5 | M14 x 1.5 | M16 x 1.5 | (ISO 9974-1) |
| Max. pressures | MS MSE | bar [PSI] | | 1 [15] | 30 [435] | 30 [435] | 120 [1 740] |



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.



Do not put either a check valve or a poppet valve on the pilot lines (parking brake and displacement change) between the charge pump and the pilot valve. Do not use a piloting valve with integrated check valve.

Modularity and Model code

Wheel motor

Shaft motor

Valving systems and hydrobases

Brake

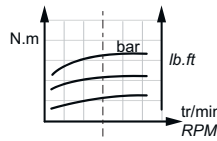
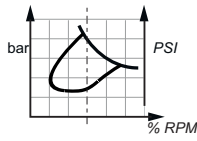
Options



Efficiency for Classic and HighFlow™ motor

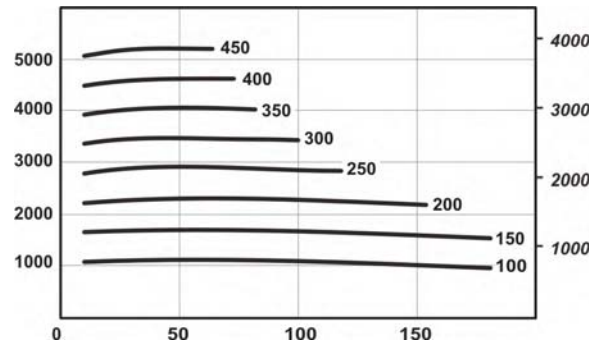
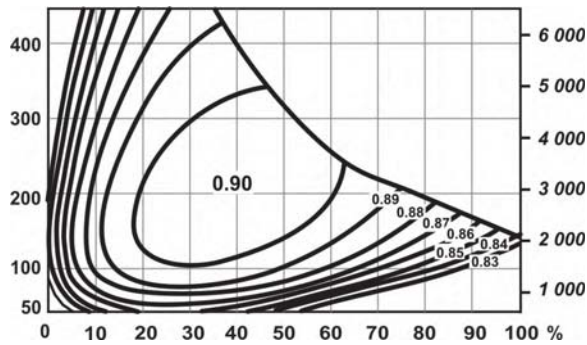
Overall efficiency

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

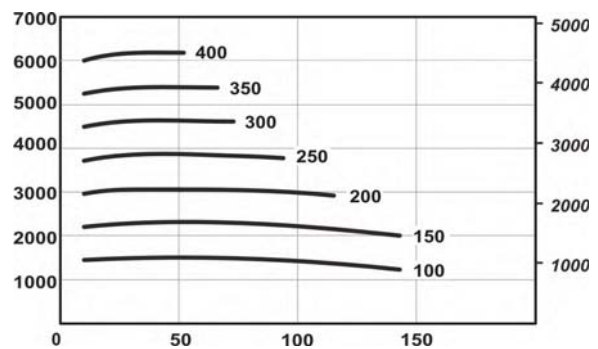
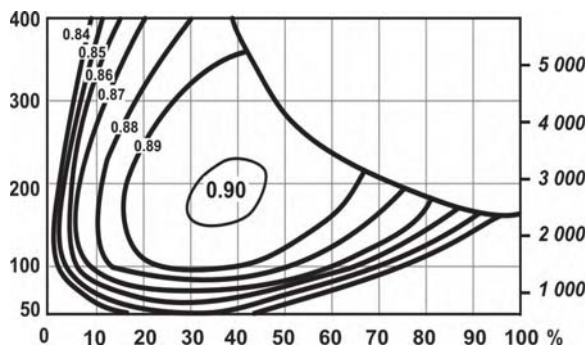


Actual output torque

MS08



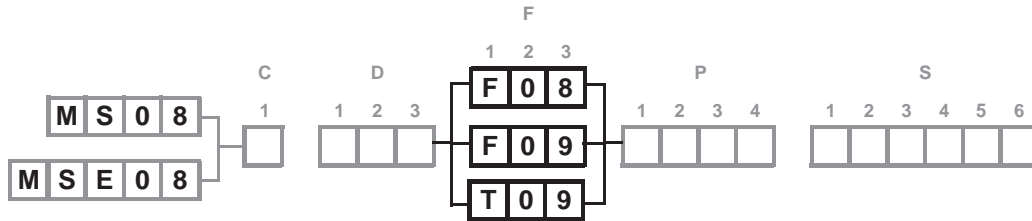
MSE08



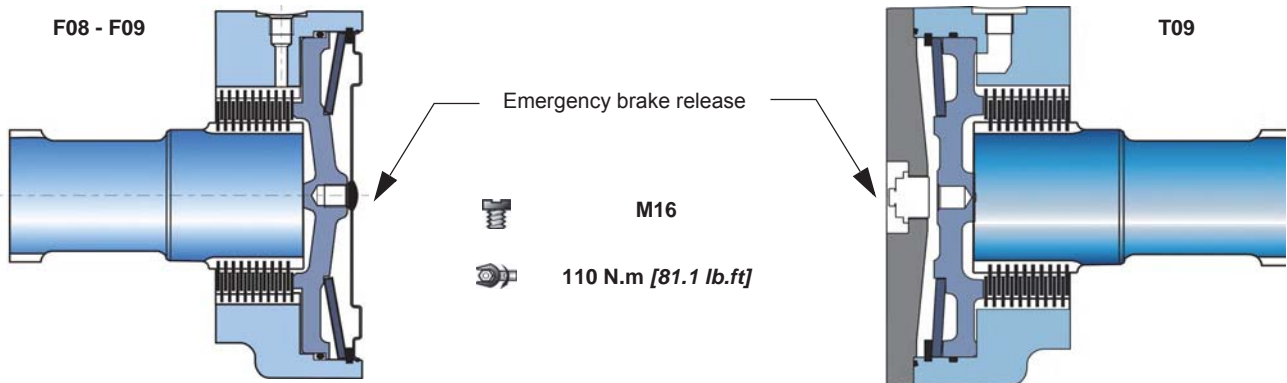
For a precise calculation, consult your Poclair Hydraulics application engineer.



BRAKES



Rear brake



Brake principle

This is a multidisc brake which is activated by a lack of pressure. The spring exerts a force on the piston, which presses on the fixed and mobile discs, and immobilizes the shaft. The braking torque decreases in linear proportion to the brake release pressure.

| | F 0 8 | F 0 9 T 0 9 |
|--|---------------------------------|---------------------------------|
| Parking brake torque at 0 bars on housing (new brake) | 5 620 Nm [4 150 lb.ft] | 9 000 Nm [6 640 lb.ft] |
| Dynamic emergency braking torque at 0 bars on housing (max. 10 uses of emergency brakes) | 3 653 Nm [2 690 lb.ft] | 5 850 Nm [4 310 lb.ft] |
| Residual parking braking at 0 bars on housing * | 4 215 Nm [3 110 lb.ft] | 6 750 Nm [4 980 lb.ft] |
| Min. brake release pressure | 12 bar [174 PSI] | 12 bar [174 PSI] |
| Max. brake release pressure | 30 bar [435 PSI] | 30 bar [435 PSI] |
| Oil capacity | 100 cm ³ [6,1 cu.in] | 100 cm ³ [6,1 cu.in] |
| Volume for brake release | 40 cm ³ [2,4 cu.in] | 40 cm ³ [2,4 cu.in] |
| Max. energy dissipation | | 110 336 J |

* 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/h, please contact your Poclain Hydraulics application engineer.

Modularity and Model code

Wheel motor

Shaft motor

Valving systems and hydrobases

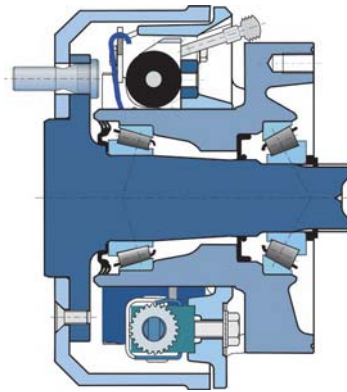
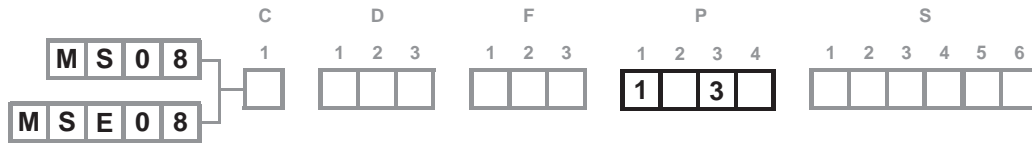
Brake

Options

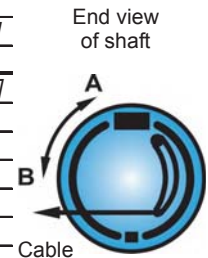


Drum brake (270 x 60 or 315 x 80)

Diameter of brake pads : Ø 270 [7.99 dia.] or Ø 315 [12.4 dia]
 Width of friction surface : 60 [2.36] or 80 [3.15]



| Brake pads | 270 x 60 | 315 x 80 |
|---|----------------------------------|----------------------------------|
| Asbestos free material | BERAL 1109 | BERAL 1518 |
| Compensation for wear | | |
| Hydraulically controlled dynamic braking | Automatic | Automatic |
| Max. permissible continuous brake torque | 3 600 N.m [2 655 lb.ft] | 7 200 N.m [5 310 lb.ft] |
| Pressure to obtain max. permissible continuous brake torque | 74 bar [1 073 PSI] | 71 bar [1 030 PSI] |
| Max. permissible brake torque | 6 000 N.m [4 425 lb.ft] | 12 000 N.m [8 851 lb.ft] |
| Pressure to obtain max. permissible brake torque | 120 bar [1 740 PSI] | 120 bar [1 740 PSI] |
| Fluid | | |
| Mineral | C K Yes | C P Yes |
| DOT 3/DOT4/SAE J1703 | L Yes | Q Yes |
| Max. volume required to bring pads into contact | 8,6 cm ³ [0,52 cu.in] | 5,4 cm ³ [0,33 cu.in] |
| Mechanically controlled parking brake | | |
| Max. braking torque | 6 000 N.m [4 425 lb.ft] | 12 000 N.m [8 851 lb.ft] |
| Max permissible force on the cable | 2 000 N [450 lb.f] | 3 800 N [854 lb.f] |
| Force required to bring pads into contact | 38 N [9 lb.f] | 64 N [14 lb.f] |
| Stroke required to bring pads into contact | A 13,0 mm [0,51 "] | 12,0 mm [0,47 "] |
| | B 11,5 mm [0,45 "] | 10,5 mm [0,41 "] |
| Max. stroke before automatic brake adjustment | A 11,3 mm [0,44 "] | 14,5 mm [0,57 "] |
| | B 10,0 mm [0,39 "] | 12,5 mm [0,49 "] |



The max. braking torque can only be obtained when the brake has been run in. Consult your Poclair Hydraulics application engineer.

Control

The drum brakes can be controlled hydraulically (service brake) and by a cable (mechanical control for parking brake).



Do not use hydraulic and mechanical brake controls simultaneously.



See also 'Wheel motor' section (thumbnail opposite).



When making an encoding request, you must indicate the following information:

- The material of the brake linings,
- The type of connection at the end of the parking brake control cable,
- Fill out the technical questionnaire for validation of the brake.



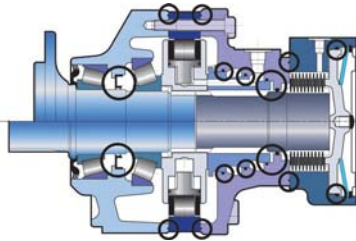
OPTIONS



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

1 - Fluorinated elastomer seals

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

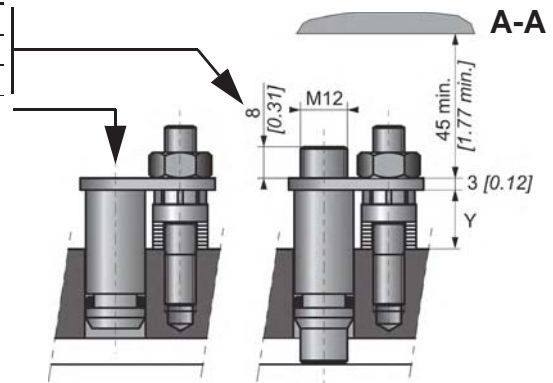
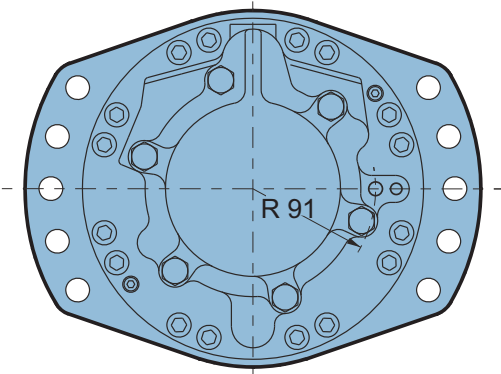


Consult your Poclair Hydraulics sales engineer.

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

Designation

| | |
|---|---|
| T4 speed sensor (without rotation direction) | 2 |
| TR speed sensor (digital rotation direction) | S |
| TD speed sensor (two phase shifted frequencies) | Q |
| Predisposition for speed sensor | 8 |



Max. length Y= 21.1

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

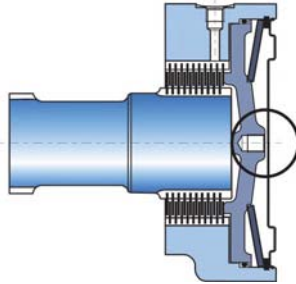
Brake

Options



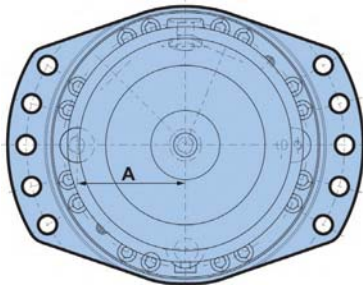
3 - Brake environmental cover without plug

No plug or hole in the cover.
(see figure opposite)



5 - Drainage

Fit an additional drain on the valving cover.



A
102 [4.02]

6 - Industrial support

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

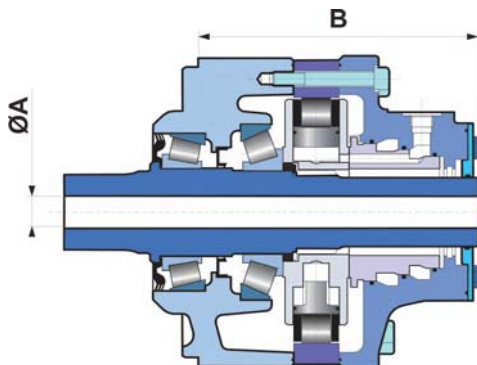


For a precise calculation, consult your Poclair Hydraulics application engineer.

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

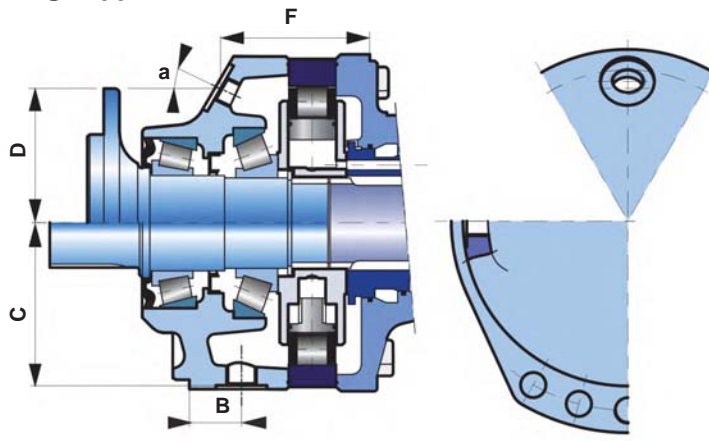


| A | B |
|---------------------|-----------------|
| mm [in] | mm [in] |
| Ø 35 [1.38 dia.] | 231.2 [9.10] |

Radial load x 0.75
No torque allowed towards the rear



B - Drain on the bearing support



| | ISO 6419-1 | B mm [in] | C mm [in] | D mm [in] | F mm [in] | a |
|-------------------|---------------|--------------|--------------|--------------|--------------|-----|
| Shaft motor | M18 x 1.5 | 37.5 [1.5] | 129 [5.08] | | | |
| Wheel motor | M18 x 1.5 | | | 105 [4.13] | 89.5 [3.52] | 35° |
| Short wheel motor | M18 x 1.5 | | | 97 [3.82] | 95 [3.74] | 30° |

C - Abrasive environments (mechanical seal)

Certain environments can be very harmful. The mirror seal gives reinforced motor sealing.



Consult your Poclain Hydraulics sales engineer.

E - Reinforced sealing

Requires reinforcement of shaft bearings.

G - Special wheel rim mounting

Enables certain combinations different from the standard mountings defined on pages 11 and 13.



Consult your Poclain Hydraulics sales engineer.

H - High efficiency

Reinforced piston sealing to improve volumetric efficiency.



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

Modularity and Model code

Wheel motor

Shaft motor

Valving systems and hydrobases

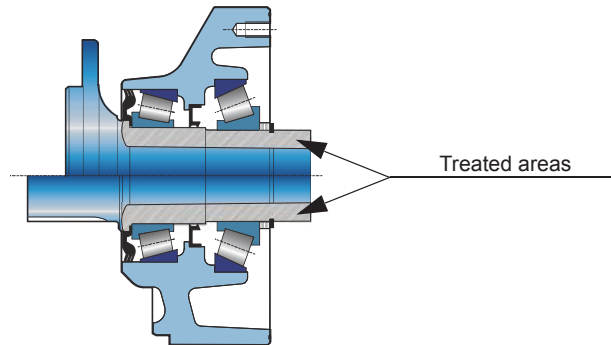
Brake

Options



J - Treated shaft

Heat treatment on the indicated bearing radius and splines.



M - High speed

Under certain conditions, an increase in the maximum speed of 30% above the values indicated in the table on page 2 is possible.



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



Option "M" becomes mandatory when selecting the HighFlow™ valving.



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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-  11/07/2018
-  801 478 119B
-  801 478 189C
-  801 578 102D
-  801 578 114R
-  801 578 126E
-  A07442P
-  Not available
-  A14241E

