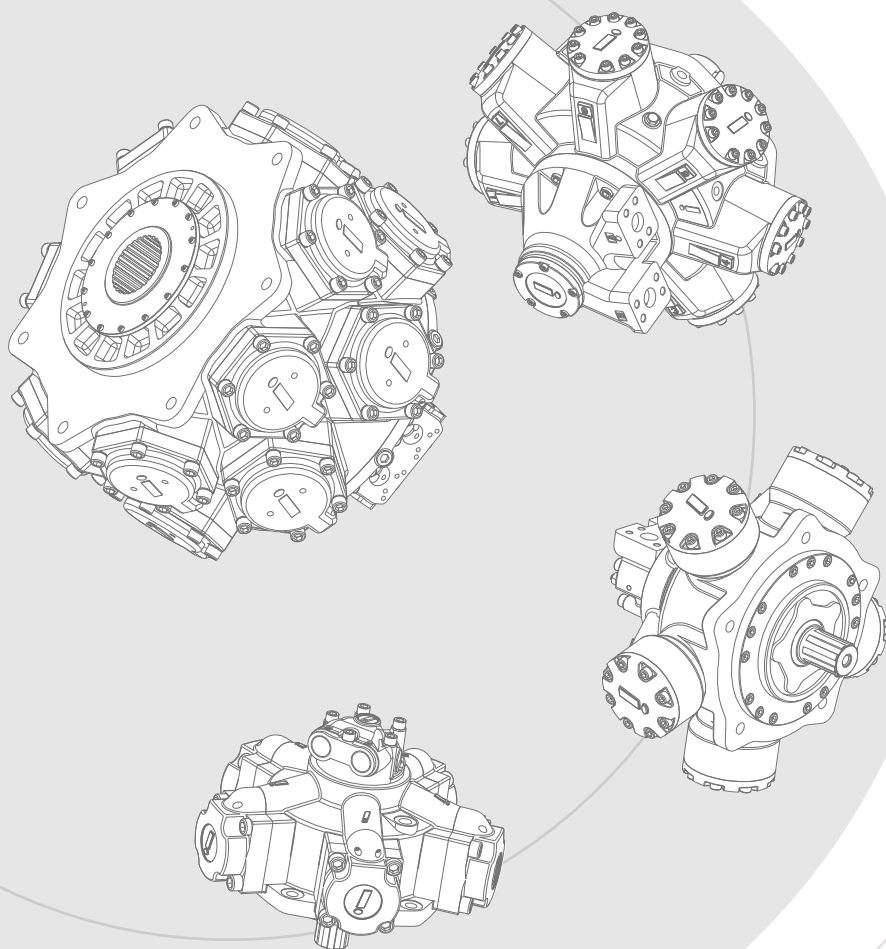




CATALOGUE

HYDRAULIC MOTORS



NINGBO OIL CONTROL HYDRAULIC CO., LTD.
NINGBO INTERMOT HYDRAULIC MOTOR CO., LTD.

ABOUT US

NINGBO OIL CONTROL HYDRAULIC CO., LTD. is originated from NINGBO INTERMOT HYDRAULIC MOTOR CO., LTD., a Sino-Italian Joint venture established in 1992, by the Chinese partner, INTERMOT S.r.l. (Italy), R&D S.r.l. (Italy) and SAI S.p.a. (Italy). NINGBO OIL CONTROL has been specializing in the development and manufacture of hydraulic motors, inheriting the European classics while focusing on quality development. Relying on the advanced hydraulic technologies and rigorous manufacturing expertise from Italy, the company is committed to creating value for customers. We persist in developing modern corporate cultures whereas continuous innovation remains the constant pursuit of the company. Our product range covers a vast variety of applications throughout the world and the brand 'intermot' is renowned for its outstanding price for value within the industry.

In the past 30 years, the strong technical genes and blood has been driving us to become a competitive professional hydraulic motor manufacturer with the most comprehensive varieties of product portfolio to fulfill customer demands. As the high market shareholder, Ningbo Oil Control has been qualified as the National High-tech Innovation enterprise for 20+ consecutive years and possesses more than 60 intellectual patents including inventions and utility models, and we are the <Low Speed High Torque Hydraulic Motor> National Industry Standard Drafting Entity. Moreover, as the S.R.D.I. innovative enterprise of Zhejiang province, we have a provincial level high-tech R&D center namely - Transmission and Control Engineering R&D Center. As a long-term strategic partner with many first-tier international brands, Ningbo Oil Control always maintains an in-depth cooperative relationship with Zhejiang University and other competitive institutes, our R&D personnel accounts for about 40% of the total staff headcount, over 50% of the employees have 10+ years of professional service experience with the company, the strong R&D team with the stable staff team sets the technology and quality of the enterprise.

In 2022, we successfully integrated MES, ERP, PLM management systems, and introduced WMS intelligent storage and other digital production system to build up a new 5G+ industrial Internet digital green factory, which contributes significantly to the improvement of production efficiency and consistency. At the present, Oil control has a modern production workshop of over 20,000 square meters, and owns many high-quality equipments imported from Japan and Europe such as fully automatic comprehensive machining centers and CNC machine tools, i.e. DMG MORI flexible machining system, Yamazaki Mazak, Doosan, etc. The company has passed the ISO9001:2015 quality system certification and product inspection certification of CCS, BV, NK, Lloyds, ABS, DNV, international Classification Societies. By providing high-quality and cost-effective products of domestic alternatives to help customers reduce costs.

Our main product range includes: NHM series, GHM series, CM series, FMB (fixed disp.) / FMC (dual-disp.) series of low-speed high-torque hydraulic motor, RM (Swivel cylinder crankshaft) series, PMS (Radial Cam-ring) series LSHT hydraulic motor, OILW travel gearbox, OILP planetary gearbox, OILH hydraulic winch, and EPMZ orbit hydraulic motor. Meanwhile, we are also the distributor of the hydraulic products such as 'M+S' orbit motor of Bulgaria and orbit motor of Eaton Jining. Our products application field covers engineering, hoisting and transportation, metallurgic and heavy duty machinery, oil extraction, coal mining, marine applications, machine tools, plastic molding machines, geological prospecting and other hydraulic transmission systems. Our products are particularly suitable for driving injection moulding machine, lifting screw drives, driving winch and various rolling drums, as well as other transmission mechanics like track and wheel machines.

Confronting with the challenge of the demanding market, we adhere to the corporate creed of 'Take responsibility for our products and services, while fulfilling the actual demands of our customers'. Ningbo Oil Control seeks sustainable development through continuous internal reforms, with the application of intelligent manufacturing technologies, to keep abreast of the development of leading enterprises in injection molding machinery and the marine industries. To embrace the future, Oil Control is playing an active role in the industrial electrification transformation, and is committed to converting tangible products into intangible power. Our vision is not simply to be the Pioneer of Hydraulic Motor industry, but also to create a brilliant future of Hydraulic Motors and to be the most competitive hydraulic motor manufacturer in China.



FMC

Series Technical Catalogue

| | |
|---|-----|
| 1.Product Features | D02 |
| 2.Calculations & Formulas | D03 |
| 3.Instructions & Advices | D03 |
| 4.Ordering Code | D03 |
| 5.Displacement Ordering Control Type | D04 |
| 6.Technical Performance Parameters & Dimensions | |
| FMC100 | D05 |
| FMC125 | D08 |
| FMC200 | D10 |
| FMC270/ FMC325 | D11 |



**Hydrostatic Balance
Dual-Displacement Motor**

NHM

GHM

FMB

FMC

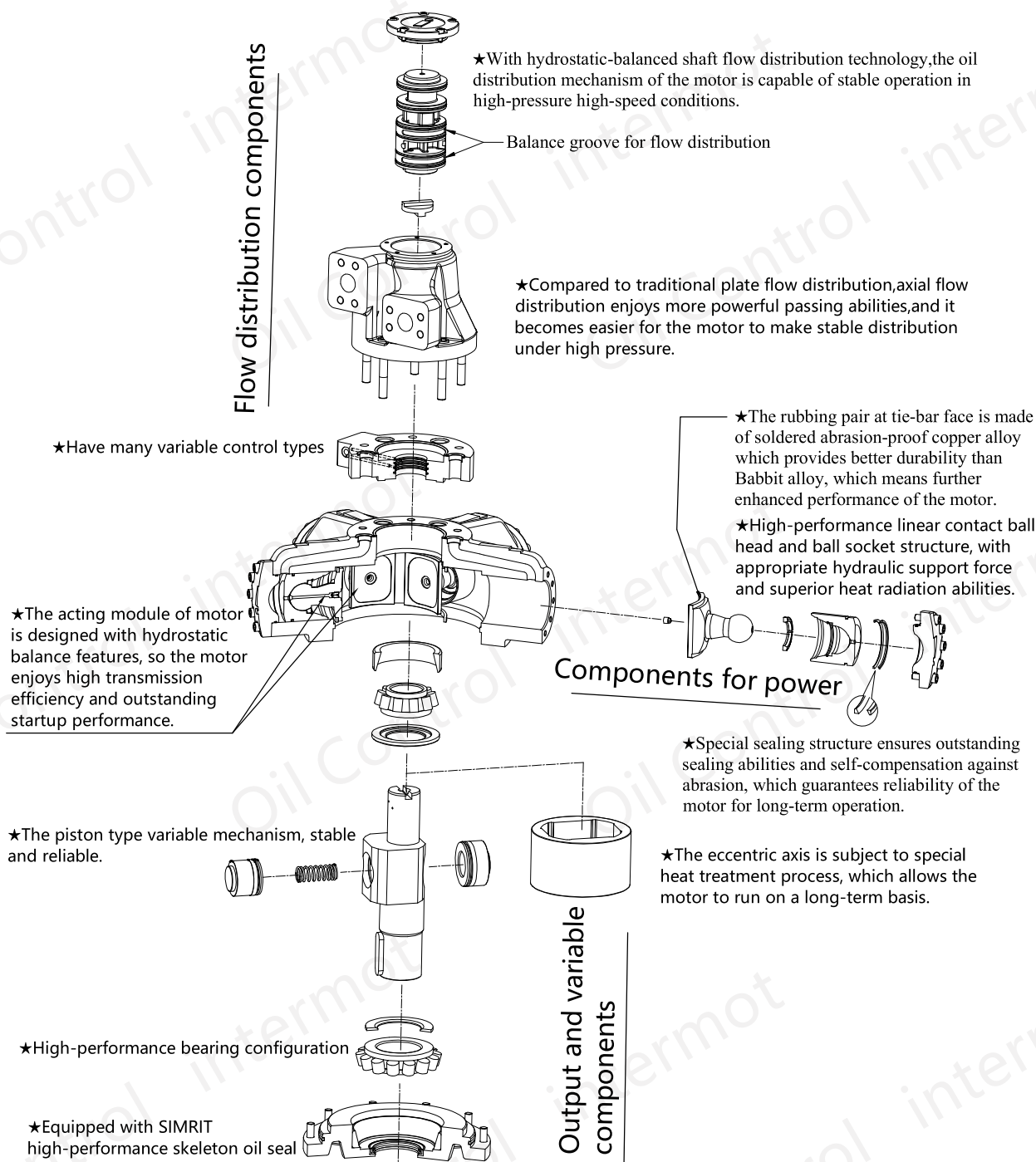
CM

EPMZ

FMC SERISE HYDRAULIC

PRODUCT FEATURE

FMC series dual displacement hydraulic motor is an upgrade of the FMB series fixed displacement hydraulic motor. The FMC series inherits the FMB series hydrostatic balance structure, high efficiency, high starting torque, high volumetric efficiency, etc. The FMC series dual displacement hydraulic motor enables users to select the required displacement for a wide range of special working conditions. Users can switch the displacement by using a remote control or by manual control. Main Application: Capstan, Hoisting machinery, Hydraulic drive for automobiles, etc.



CALCULATIONS & FORMULAS

Actual output torque of hydraulic motor:

$$M = 0.159 \times (P_1 - P_2) \times V \times \eta_m \quad (N.m)$$

Output power of hydraulic motor:

$$N = \frac{M \times n}{9550} \quad (kW)$$

$$N = \frac{q \times (P_1 - P_2)}{60000} \eta_m \times \eta_v \quad (kW)$$

Where:

| | | |
|----------|----|---|
| P_1 | —— | Pressure at inlet of hydraulic motor (Mpa) |
| P_2 | —— | pressure at outlet of hydraulic motor (Mpa) |
| V | —— | Displacement of hydraulic motor (ml/r) |
| η_m | —— | Mechanical efficiency of hydraulic motor |
| n | —— | Rotation speed of hydraulic motor (r/min) |
| q | —— | Flow of hydraulic motor (ml/min) |
| η_v | —— | Volumetric efficiency of hydraulic motor |

INSTRUCTIONS & ADVICES

In addition to the reference to NHM series motor (PAGE A02) , please pay attention to the following issues:

1. As the F series motors adopt a hydrostatically-balanced structure to increase the leakage of the motor, ensure the inner diameter of the drain pipe must not be less than 16 mm when it is connected with the external drain pipe, otherwise, the oil seal could be impacted or damaged. When connecting the tie-in of the drain port, do not over-screw in to avoid damage of the parts.

ORDERING CODE

****-****-****-****-****-****-****-****-****

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| 1) Code of FMC series daul displacement hydraulic motor | | | | | | | | |
| 2) Series | | | | | | | | |
| 3) High displacement | | | | | | | | |
| 4) Low displacement | | | | | | | | |
| 5) Shaft Type | | | | | | | | |
| P Parallel key | | | | | | | | |
| S Male spline | | | | | | | | |
| Q Female spline | | | | | | | | |
| T Long taper with key | | | | | | | | |
| 6) Main Port Connections | | | | | | | | |
| 7) Displacement control type | | | | | | | | |
| 8) Other design parameters | | | | | | | | |

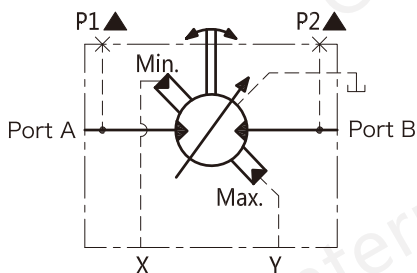
Examples:

FMC200-3100-100-P-FM4-C refers to FMC series daul displacement hydraulic motor, product series of 200, high displacement of 3100 ml/r, low displacement of 1000 ml/r, shaft type of P, main port connection of FM4, displacement control type of C. See dimension diagram for detailed sizes.

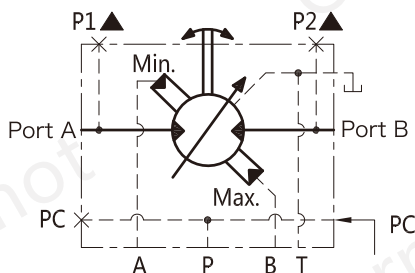
Note: the orders without specified model of output axis or flanges at inlet/outlet oil port will be deemed as orders for standard configuration.

DISPLACEMENT ORDERING CONTROL TYPE

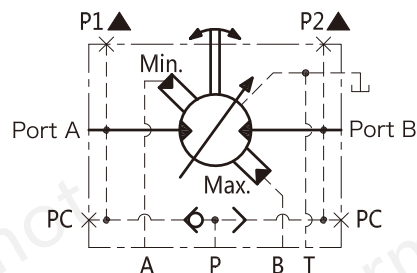
X: Control pressure from port X or port Y



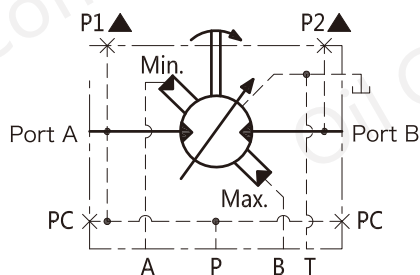
C: Control pressure from external port PC



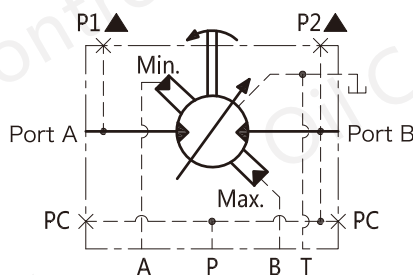
CS: Control pressure from port A or port B with shuttle valve



CA: Control pressure from port A



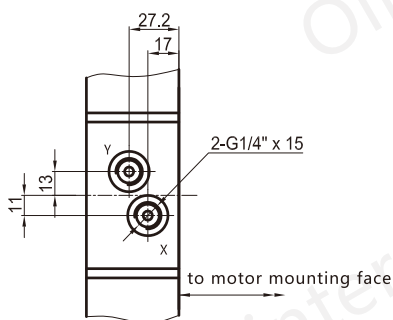
CB: Control pressure from port B



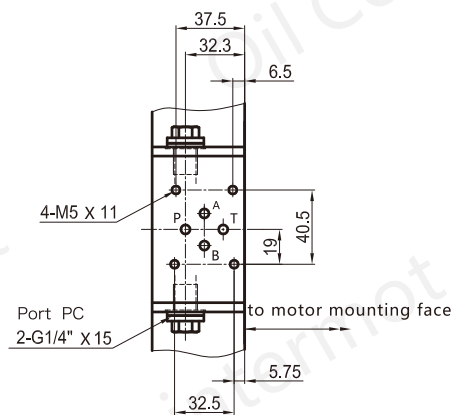
Note : Type C is the default displacement control type

DISPLACEMENT CONTROL PORTS

Type X

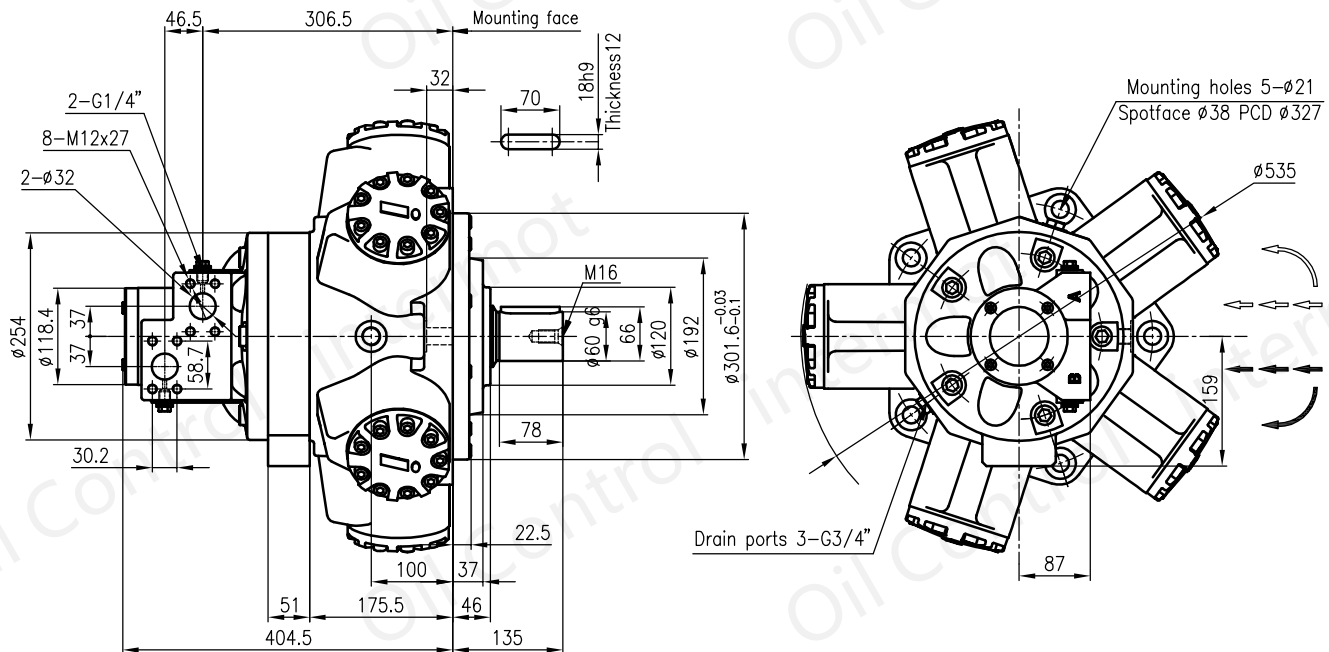


Type C/CS/CA/CB



FMC100 STANDARD CONFIGURATION DIMENSIONS

Main port connections : FM3 Shaft type : P Variable type : C



TECHNICAL PERFORMANCE PARAMETERS

| Nomial Displacement (ml/r) | 1500 | 1400 | 1300 | 1200 | 1100 | 1000 | 900 | 800 | 700 | 600 | 500 | 400 | 300 | 200 | 100 |
|----------------------------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Displacermnt (ml/r) | 1481 | 1383 | 1284 | 1185 | 1086 | 987 | 889 | 790 | 691 | 592 | 494 | 395 | 296 | 197 | 0 |
| Unit Torque (N.m/MPa) | 212 | 198 | 184 | 169 | 155 | 140 | 125 | 108 | 94 | 78 | 68 | 45 | 30 | 18 | 0 |
| Max.Speed (r/min) | 260 | 280 | 300 | 330 | 370 | 405 | 485 | 540 | 540 | 540 | 540 | 540 | 540 | 540 | 900 |
| Max.Power (kW) | 98 | 95 | 93 | 92 | 90 | 86 | 83 | 73 | 64 | 53 | 46 | 31 | 20 | 9 | 0 |
| Rated Pressure (MPa) | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 15 | 15 | 1.5 |
| Max.Pressure (MPa) | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 21 | 21 | 1.5 |

Optional displacement range of FMC100:

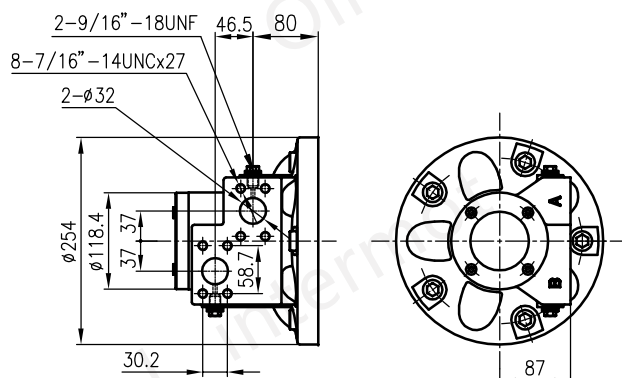
High displacement: 1500, 1400, 1300, 1200, 1100, 1000, 900, 800

Low displacement: 1000, 900, 800, 700, 600, 500, 400, 300, 200, 100

The above data are measured and obtained under specific actual experimental conditions, and only for product description purposes. The data should not be interpreted as warranted characteristics in legal term. Ningbo intermot(Ningbo Oil Control Hydraulic Co. Ltd.) reserves the rights to implement modifications without notice. All Partial or total reproduction and copy of such data without formal authorization is strictly forbidden.

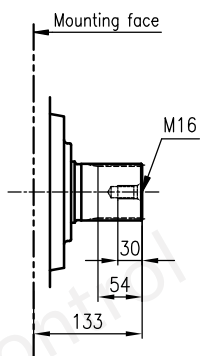
FMC100 OTHER MAIN PORT CONNECTIONS

100 F3



FMC100 OTHER SHAFT TYPES

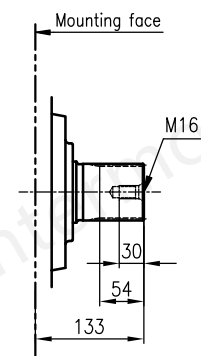
100 S



Spline parameters
Standard : BS3550-1963

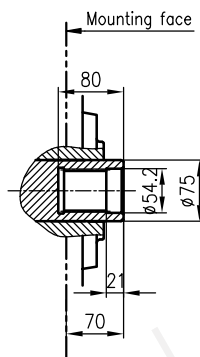
| | |
|--------------------|---------------|
| Pressure angle | 30° |
| Number of teeth | 14 |
| Pitch | 6/12 |
| Major diameter | 62.553/62.425 |
| Form diameter | 55.052 |
| Minor diameter | 54.084/53.525 |
| Pin diameter | 8.128 |
| Diameter over pins | 71.593/71.544 |

100 Z



Spline parameters
Standard : DIN5480 W70x3x22x7h

| | |
|-----------------------|-------|
| Pressure angle | 30° |
| Number of teeth | 22 |
| Modulus | 3 |
| Addendum modification | +0.35 |
| Tolerance grade | 7h |
| Major diameter | 69.4 |
| Minor diameter | 63.4 |
| Spanned tooth count | 4 |
| Base tangent length | 31.99 |



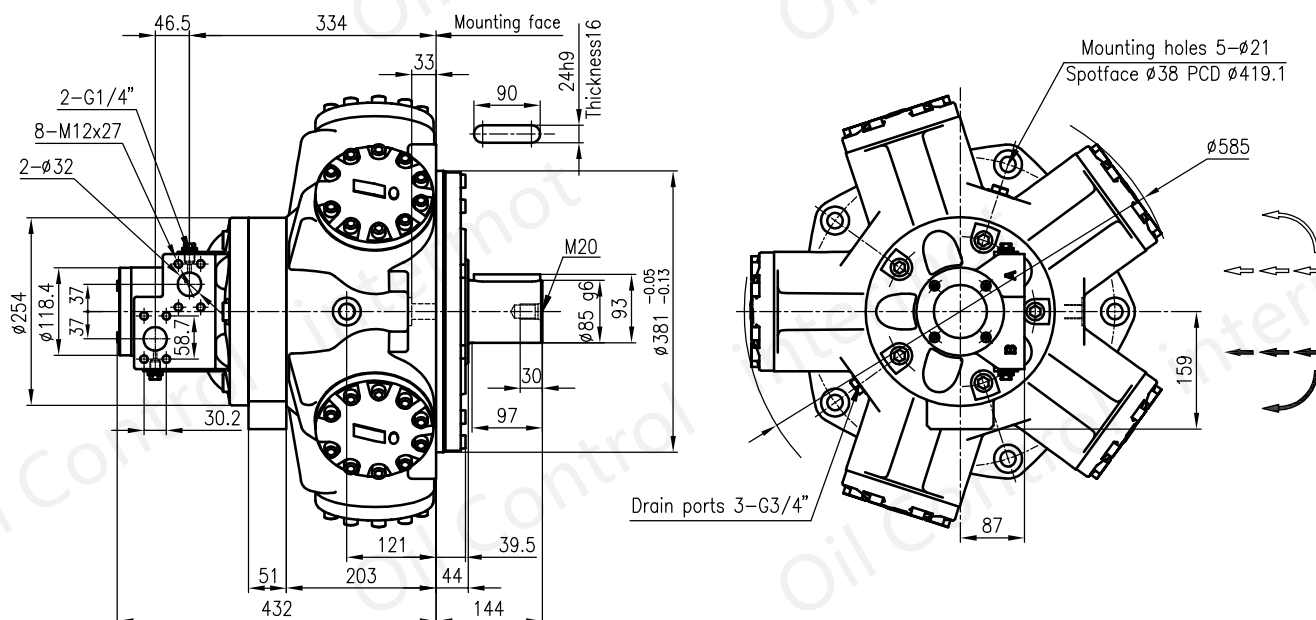
Spline parameters
Standard : BS3550-1963

| | |
|-----------------------|---------------|
| Pressure angle | 30° |
| Number of teeth | 24 |
| Pitch | 12/24 |
| Major diameter | 53.246/52.916 |
| Minor diameter | 48.811/48.684 |
| Pin diameter | 3.658 |
| Diameter between pins | 45.626/45.550 |

INTERMOT
HYDRAULIC MOTOR

FMC125 STANDARD CONFIGURATION DIMENSIONS

| | | |
|-----------------------------|----------------|-------------------|
| Main port connections : FM3 | Shaft type : P | Variable type : C |
|-----------------------------|----------------|-------------------|



TECHNICAL PERFORMANCE PARAMETERS

| | | | | | | | | | | | | | | |
|----------------------------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|
| Nomial Displacement (ml/r) | 2000 | 1950 | 1800 | 1600 | 1500 | 1300 | 1200 | 1000 | 830 | 670 | 510 | 350 | 190 | 110 |
| Displacermnt (ml/r) | 2048 | 1966 | 1802 | 1649 | 1487 | 1325 | 1163 | 1001 | 839 | 677 | 515 | 353 | 191 | 109 |
| Unit Torque (N.m/MPa) | 297 | 281 | 258 | 231 | 206 | 180 | 154 | 125 | 100 | 79 | 57 | 30 | 6 | 0 |
| Max.Speed (r/min) | 190 | 195 | 210 | 210 | 230 | 265 | 300 | 350 | 395 | 485 | 540 | 540 | 540 | 900 |
| Max.Power (kW) | 104 | 101 | 94 | 88 | 81 | 75 | 68 | 62 | 55 | 48 | 37 | 19 | 4 | 0 |
| Rated Pressure (MPa) | 21 | 21 | 21 | 21 | 21 | 21 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 1.5 |
| Max.Pressure (MPa) | 25 | 25 | 25 | 25 | 25 | 25 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 1.5 |

Optional displacement range of FMC125:

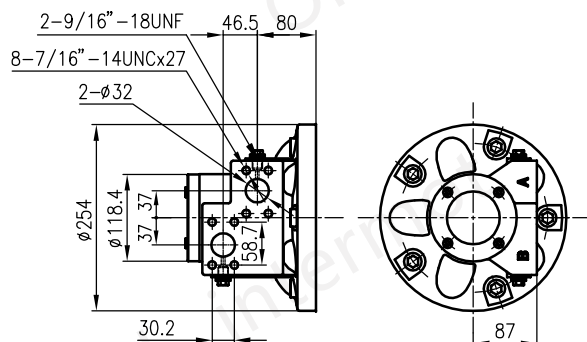
High displacement: 2000, 1950, 1800, 1600, 1500

Low displacement: 1300, 1200, 1000, 830, 670, 510, 350, 190, 110

The above data are measured and obtained under specific actual experimental conditions, and only for product description purposes. The data should not be interpreted as warranted characteristics in legal term. Ningbo intermot(Ningbo Oil Control Hydraulic Co. Ltd.)reserves the rights to implement modifications without notice. All Partial or total reproduction and copy of such data without formal authorization is strictly forbidden.

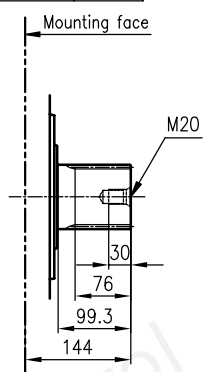
FMC125 OTHER MAIN PORT CONNECTIONS

125 F3



FMC125 OTHER SHAFT TYPES

125 S

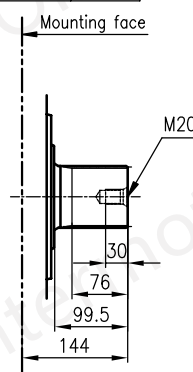


Spline parameters

Standard : BS3550-1963

| | |
|--------------------|---------------|
| Pressure angle | 30° |
| Number of teeth | 20 |
| Pitch | 6/12 |
| Major diameter | 87.953/87.825 |
| Form diameter | 80.264 |
| Minor diameter | 79.485/78.925 |
| Pin diameter | 8.128 |
| Diameter over pins | 97.084/97.030 |

125 Z

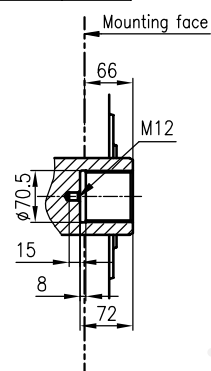


Spline parameters

Standard : DIN5480 W85x3x27x7h

| | |
|-----------------------|-------|
| Pressure angle | 30° |
| Number of teeth | 27 |
| Modulus | 3 |
| Addendum modification | +0.35 |
| Tolerance grade | 7h |
| Major diameter | 84.4 |
| Minor diameter | 78.4 |
| Spanned tooth count | 5 |
| Base tangent length | 40.85 |

125 Q



Spline parameters

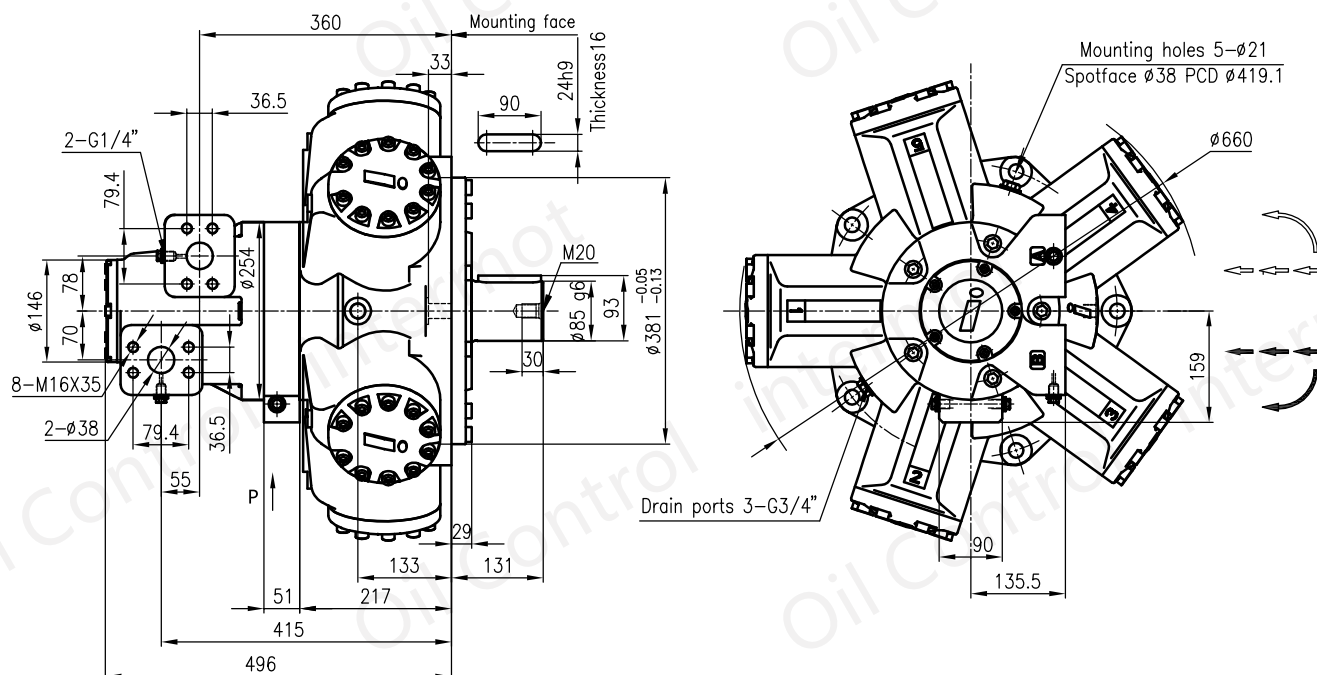
Standard : BS3550-1963

| | |
|-----------------------|---------------|
| Pressure angle | 30° |
| Number of teeth | 32 |
| Pitch | 12/24 |
| Major diameter | 70.18/69.85 |
| Minor diameter | 65.743/65.616 |
| Pin diameter | 3.658 |
| Diameter between pins | 62.619/62.553 |

INTERMOT
HYDRAULIC MOTOR

FMC200 STANDARD CONFIGURATION DIMENSIONS

| | | |
|-----------------------------|----------------|-------------------|
| Main port connections : FM4 | Shaft type : P | Variable type : C |
|-----------------------------|----------------|-------------------|



TECHNICAL PERFORMANCE PARAMETERS

| | | | | | | | | | | | | | | | | | | | |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
| Nomial Displacement (ml/r) | 3100 | 2900 | 2800 | 2600 | 2400 | 2300 | 2100 | 2000 | 1800 | 1600 | 1500 | 1300 | 1200 | 1000 | 830 | 670 | 350 | 190 | 110 |
| Displacermnt (ml/r) | 3080 | 2958 | 2796 | 2634 | 2472 | 2310 | 2148 | 1973 | 1811 | 1649 | 1487 | 1325 | 1163 | 1001 | 839 | 677 | 353 | 191 | 109 |
| Unit Torque (N.m/MPa) | 447 | 422 | 400 | 375 | 351 | 326 | 300 | 281 | 258 | 231 | 206 | 180 | 154 | 125 | 100 | 79 | 30 | 6 | 0 |
| Max.Speed (r/min) | 160 | 165 | 175 | 190 | 196 | 210 | 220 | 245 | 265 | 290 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 900 |
| Max.Power (kW) | 115 | 115 | 115 | 112 | 108 | 108 | 104 | 101 | 100 | 98 | 97 | 90 | 83 | 67 | 54 | 42 | 16 | 3 | 0 |
| Rated Pressure (MPa) | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 15 | 15 | 15 | 15 | 15 | 15 | 1.5 |
| Max.Pressure (MPa) | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 21 | 21 | 21 | 21 | 21 | 21 | 1.5 |

Optional displacement range of FMC200:

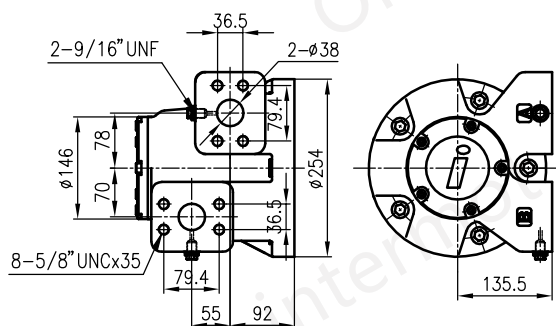
High displacement: 3100, 2900, 2800, 2600, 2400, 2300, 2100, 2000, 1800, 1600

Low displacement: 2300, 2100, 2000, 1800, 1600, 1500, 1300, 1200, 1000, 830, 670, 350, 190, 110

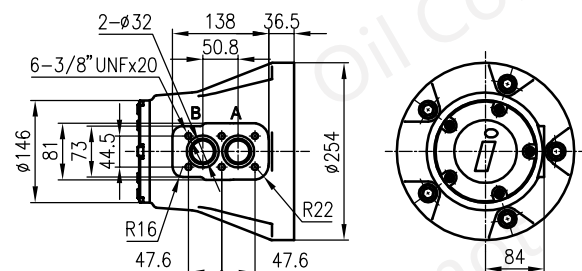
The above data are measured and obtained under specific actual experimental conditions, and only for product description purposes. The data should not be interpreted as warranted characteristics in legal term. Ningbo intermot(Ningbo Oil Control Hydraulic Co. Ltd.) reserves the rights to implement modifications without notice. All Partial or total reproduction and copy of such data without formal authorization is strictly forbidden.

FMC200 OTHER MAIN PORT CONNECTIONS

200 F4

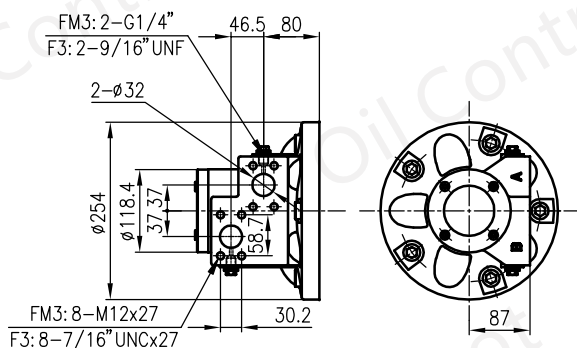


200 S04



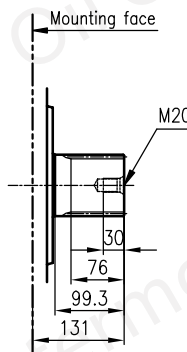
Note: O-ring at oil ports is 38.1x3.53

200 FM3/F3



FMC200 OTHER SHAFT TYPES

200 S

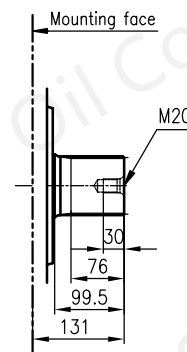


Spline parameters

Standard : BS3550-1963

| | |
|--------------------|---------------|
| Pressure angle | 30 ° |
| Number of teeth | 20 |
| Pitch | 6/12 |
| Major diameter | 87.953/87.825 |
| Form diameter | 80.264 |
| Minor diameter | 79.485/78.925 |
| Pin diameter | 8.128 |
| Diameter over pins | 97.084/97.030 |

200 Z

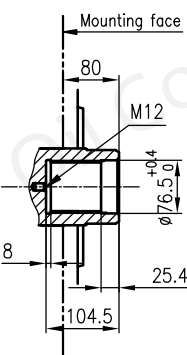


Spline parameters

Standard : DIN5480 W85x3x27x7h

| | |
|-----------------------|-------|
| Pressure angle | 30 ° |
| Number of teeth | 27 |
| Modulus | 3 |
| Addendum modification | +0.35 |
| Tolerance grade | 7h |
| Major diameter | 84.4 |
| Minor diameter | 78.4 |
| Spanned tooth count | 5 |
| Base tangent length | 40.85 |

200 Q



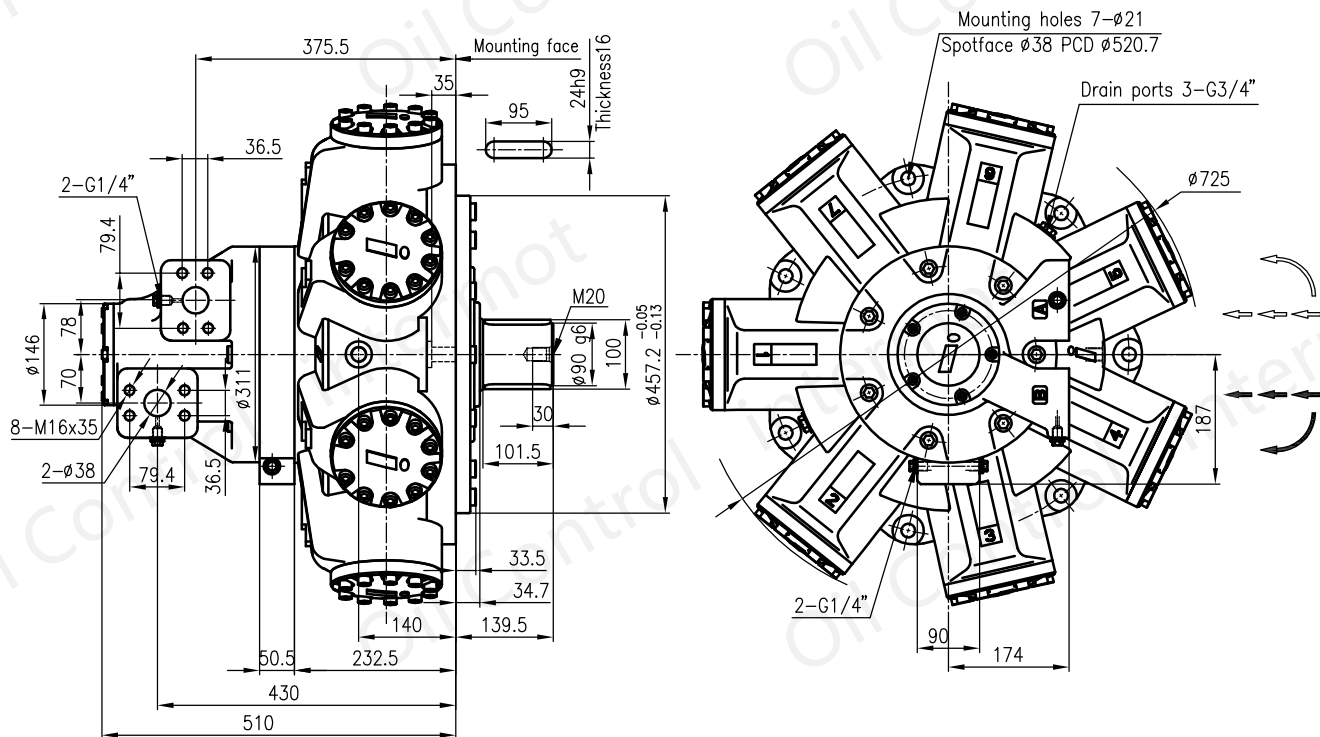
Spline parameters

Standard : BS3550-1963

| | |
|-----------------------|---------------|
| Pressure angle | 30 ° |
| Number of teeth | 34 |
| Pitch | 12/24 |
| Major diameter | 74.414/74.048 |
| Minor diameter | 69.977/69.850 |
| Pin diameter | 3.658 |
| Diameter between pins | 66.815/66.744 |

FMC270 STANDARD CONFIGURATION DIMENSIONS

Main port connections : FM4 Shaft type : P Variable type : C



TECHNICAL PERFORMANCE PARAMETERS

| | | | | | | | | | | | | | | | |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| Nomial Displacement (ml/r) | 4600 | 4300 | 4100 | 3600 | 3300 | 3000 | 2600 | 2300 | 1900 | 1650 | 1400 | 970 | 680 | 340 | 170 |
| Displacement (ml/r) | 4597 | 4313 | 4086 | 3632 | 3291 | 2951 | 2610 | 2270 | 1930 | 1646 | 1362 | 965 | 681 | 340 | 170 |
| Unit Torque (N.m/MPa) | 657 | 631 | 585 | 514 | 460 | 419 | 356 | 310 | 259 | 210 | 168 | 108 | 73 | 24 | 0 |
| Max.Speed (r/min) | 108 | 115 | 125 | 135 | 145 | 165 | 180 | 215 | 240 | 290 | 315 | 315 | 315 | 315 | 800 |
| Max.Power (kW) | 125 | 120 | 118 | 110 | 105 | 98 | 91 | 82 | 74 | 62 | 51 | 37 | 25 | 8 | 0 |
| Rated Pressure (MPa) | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 15 | 15 | 15 | 15 | 15 | 1.5 |
| Max.Pressure (MPa) | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 21 | 21 | 21 | 21 | 21 | 1.5 |

Optional displacement range of FMC270:

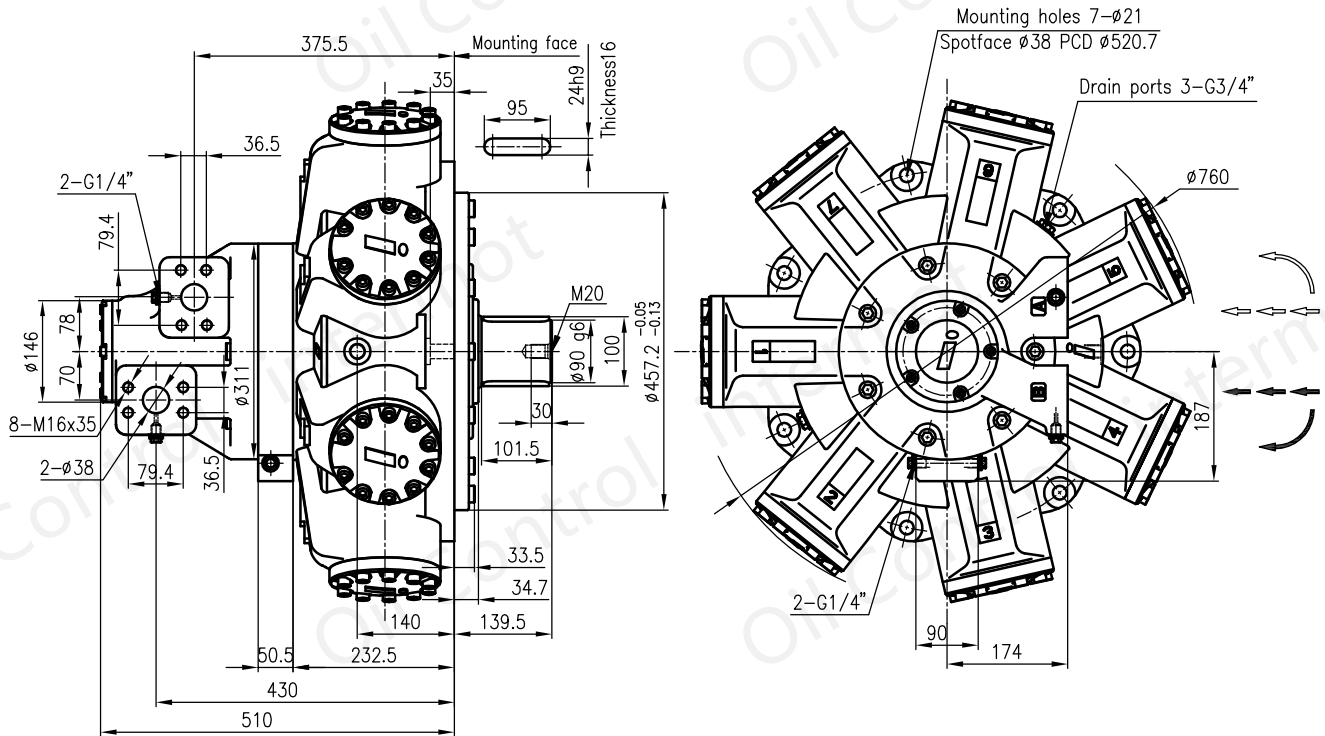
High displacement: 4600, 4300, 4100, 3600, 3300

Low displacement: 3300, 3000, 2600, 2300, 1900, 1650, 1400, 970, 680, 340, 170

The above data are measured and obtained under specific actual experimental conditions, and only for product description purposes. The data should not be interpreted as warranted characteristics in legal term. Ningbo intermot(Ningbo Oil Control Hydraulic Co. Ltd.) reserves the rights to implement modifications without notice. All Partial or total reproduction and copy of such data without formal authorization is strictly forbidden.

FMC325 STANDARD CONFIGURATION DIMENSIONS

Main port connections : FM4 Shaft type : P Variable type : C



TECHNICAL PERFORMANCE PARAMETERS

| | | | | | | | | | | | | | | | | |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| Nomial Displacement (ml/r) | 5300 | 5100 | 4900 | 4600 | 3600 | 3300 | 3000 | 2600 | 2300 | 1900 | 1650 | 1400 | 970 | 680 | 340 | 170 |
| Displacment (ml/r) | 5335 | 5108 | 4937 | 4597 | 3632 | 3291 | 2951 | 2610 | 2270 | 1930 | 1646 | 1362 | 965 | 681 | 340 | 170 |
| Unit Torque (N.m/MPa) | 763 | 731 | 706 | 657 | 514 | 460 | 419 | 356 | 310 | 259 | 210 | 168 | 108 | 73 | 24 | 0 |
| Max.Speed (r/min) | 90 | 105 | 110 | 110 | 135 | 145 | 165 | 180 | 215 | 240 | 290 | 315 | 315 | 315 | 315 | 800 |
| Max.Power (kW) | 125 | 125 | 125 | 125 | 110 | 105 | 98 | 91 | 82 | 74 | 62 | 51 | 37 | 25 | 8 | 0 |
| Rated Pressure (MPa) | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 15 | 15 | 15 | 15 | 15 | 1.5 |
| Max.Pressure (MPa) | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 21 | 21 | 21 | 21 | 21 | 1.5 |

Optional displacement range of FMC325:

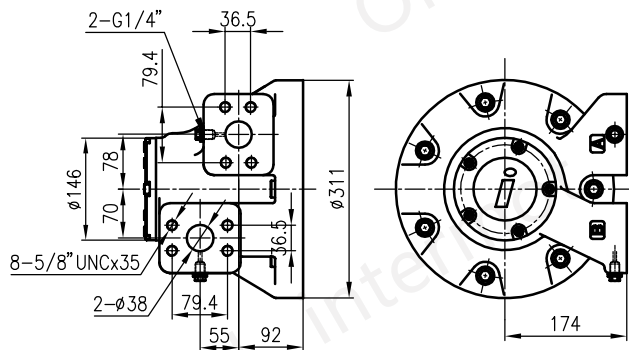
High displacement: 5300, 5100, 4900, 4600

Low displacement: 3600, 3300, 3000, 2600, 2300, 1900, 1650, 1400, 970, 680, 340, 170

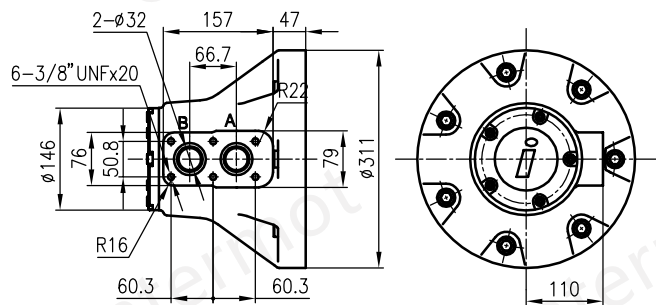
The above data are measured and obtained under specific actual experimental conditions, and only for product description purposes. The data should not be interpreted as warranted characteristics in legal term. Ningbo intermot(Ningbo Oil Control Hydraulic Co. Ltd.) reserves the rights to implement modifications without notice. All Partial or total reproduction and copy of such data without formal authorization is strictly forbidden.

FMC325 OTHER MAIN PORT CONNECTIONS

270/325 F4



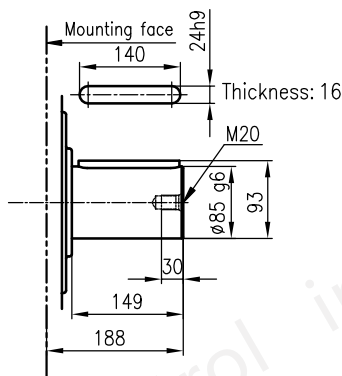
270/325 S04



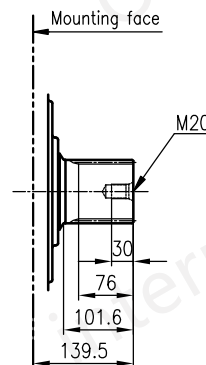
Note: O-ring at oil ports is 38.1x3.53

FMC270/325 OTHER SHAFT TYPES

270/325 P1



270/325 S

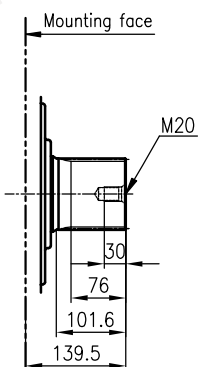


Spline parameters

Standard : BS3550-1963

| | |
|--------------------|---------------|
| Pressure angle | 30° |
| Number of teeth | 20 |
| Pitch | 6/12 |
| Major diameter | 87.953/87.825 |
| Form diameter | 80.264 |
| Minor diameter | 79.485/78.925 |
| Pin diameter | 8.128 |
| Diameter over pins | 97.084/97.030 |

270/325 Z



Spline parameters

Standard : DIN5480 W100x4x24x7h

| | |
|-----------------------|--------|
| Pressure angle | 30° |
| Number of teeth | 24 |
| Modulus | 4 |
| Addendum modification | -0.2 |
| Tolerance grade | 7h |
| Major diameter | 99.2 |
| Minor diameter | 91.2 |
| Spanned tooth count | 5 |
| Base tangent length | 42.359 |

INTERMOT
HYDRAULIC MOTOR

NINGBO OIL CONTROL HYDRAULIC CO., LTD.
NINGBO INTERMOT HYDRAULIC MOTOR CO., LTD.

Add: No. 1258 ,East Zhenluo Road, Zhenhai, Ningbo, P.R.China
P.C. : 315207
Tel: +86 574 8626 2917 (HEAD OFFICE)
+86 769 2217 8605 (GUANGDONG OFFICE)
Fax: +86 574 8626 0912 (HEAD OFFICE)
+86 769 2270 9005 (GUANGDONG OFFICE)
Web: <http://www.intermot.com.cn> www.nhm.com.cn
E-mail: sales@chinaintermot.com.cn