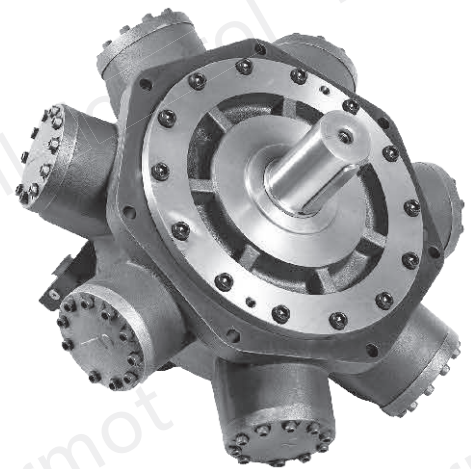


FMB Series Technical Catalogue

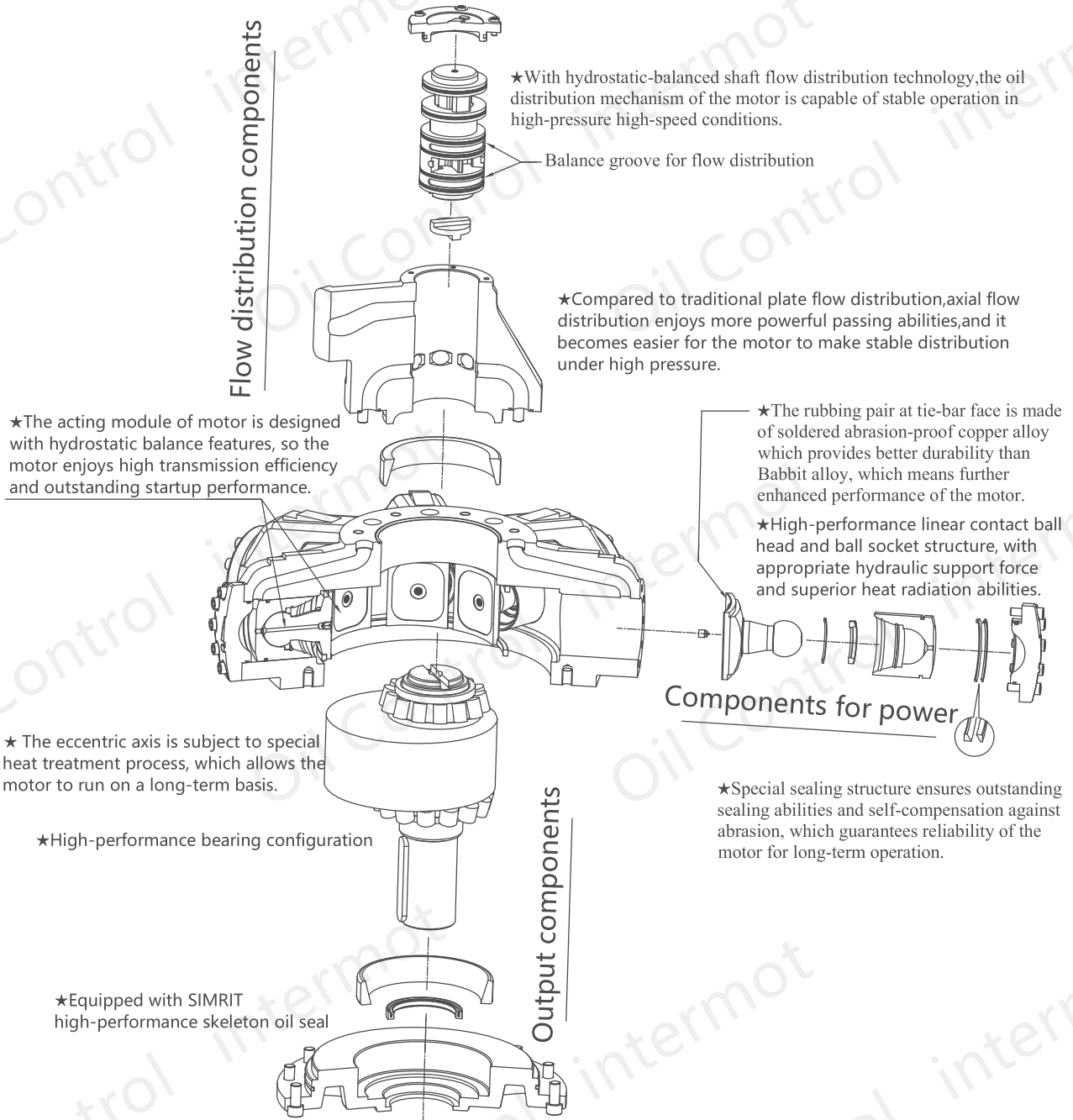
1.Product Features	C02
2.Calculations & Formulas	C03
3.Instructions & Advices	C03
4.Ordering Code	C03
5.Technical Performance Parameters	C04
6.Performance Graph	C05
7.Dimensions	
FM (HD)B60/100-700~1650	C07
FM (HD)B125-1400~2000	C09
FM (HD)B150/200-2000~3600	C11
FM (HD)B270/325-3300~5300	C13
FM (HD)B400/500-5500~8000	C15
FM (HD)B700-9000~12600	C17



Hydrostatic Balance Motor with Crankshaft & Connecting-rods

FMB SERISE HYDRAULIC PRODUCT FEATURE

FMB series hydraulic motors, recently launched products with new structures of the company, embody years of experi-ences of INTERMOT in manufacturing hydraulic motors and enjoy the advantages of internal/external crank shaft hydraulic motors worldwide , which contributes to the significant enhancement of pressure grade and speed range of hydraulic motors. The motors falling into this series are characterized by outstanding reliability, high efficiency, long service life, low noise level and wide speed range, etc., so that they widely used in the hydraulic transmission systems in a number of industries such as marine, plastic machinery, mining, construction, metallurgy, petroleum, and geological prospecting, 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:

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

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

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

FM(HD)B - *** - *** - *** - *** - *****

1 2 3 4 5 6

1 Code of FM(HD) B series low-speed high-torque hydraulic motor

FMB refers to a standard model

FMHDB refers to heavy duty (enhanced) model, with better bearing configuration and reliability

2 Series

3 Nominal displacement

4 Shaft type

P Parallel key

S / Z Male spline

Q Female spline

T Long taper with key

5 Main Port Connections

6 Other design parameters

Examples:

FMB270-4300-P1-FM4 refers to FMB series low-speed high-torque motor, with product series of 270, and a nominal displacement of 4,300 ml/r; P1 stands for output axis, and FM4 is the flange at inlet/outlet oil port. 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.

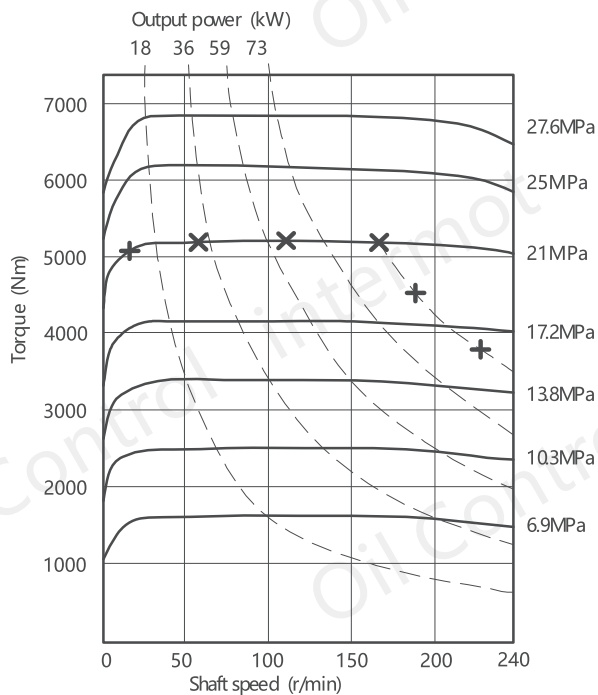
TECHNICAL PERFORMANCE PARAMETERS

Type	Displacement (ml/r)	Rated Pressure (MPa)	Max. Pressure (MPa)	Rated Torque (N.m)	Unit Torque (N.m/MPa)	Max.Speed (r/min)	Max.Power (kW)	Weight (kg)
FMB060-700	716	21	29	2199	105	300	58	121
FMB060-800	815	21	29	2504	119	300	65	121
FMB060-900	899	21	29	2762	132	300	73	121
FMB060-1000	998	21	29	3066	146	300	80	121
FMB100-1000	988	21	29	3035	145	300	90	144
FMB100-1100	1088	21	29	3342	159	300	90	144
FMB100-1250	1237	21	29	3800	181	280	90	144
FMB100-1400	1385	21	29	4255	203	260	100	144
FMB100-1650	1630	21	29	5007	238	240	100	144
FMB125-1400	1459	21	29	4482	213	300	100	235
FMB125-1600	1621	21	29	4980	237	270	110	235
FMB125-1800	1864	21	29	5726	273	235	110	235
FMB125-2000	2027	21	29	6227	297	220	110	235
FMB150-2500	2497	21	29	7670	365	220	115	285
FMB200-2800	2757	21	29	8469	403	195	120	285
FMB200-3100	3080	21	29	9461	451	175	120	285
FMB200-3600	3648	16	21	8538	534	145	120	285
FMB270-3300	3291	21	29	10110	481	160	120	420
FMB270-3600	3575	21	29	10982	523	145	126	420
FMB270-4000	3973	21	29	12205	581	130	126	420
FMB270-4300	4313	21	29	13249	631	120	126	420
FMB325-4500	4538	21	29	13940	664	115	126	430
FMB325-5000	4992	21	29	15335	730	105	126	430
FMB325-5300	5310	21	29	16312	777	100	126	430
FMB400-5500	5510	21	29	16926	806	145	175	495
FMB400-6000	5996	21	29	18419	877	135	175	495
FMB400-6500	6483	21	29	19915	948	126	175	495
FMB400-6800	6807	21	29	20910	996	120	175	495
FMB500-8000	8066	18	25	21238	1180	100	175	530
FMB700-9000	9082	18	25	23913	1329	100	205	1000
FMB700-10000	10004	18	25	26341	1463	100	205	1000
FMB700-11600	11590	18	25	30517	1695	100	205	1000
FMB700-12600	12599	18	25	33174	1843	100	205	1000

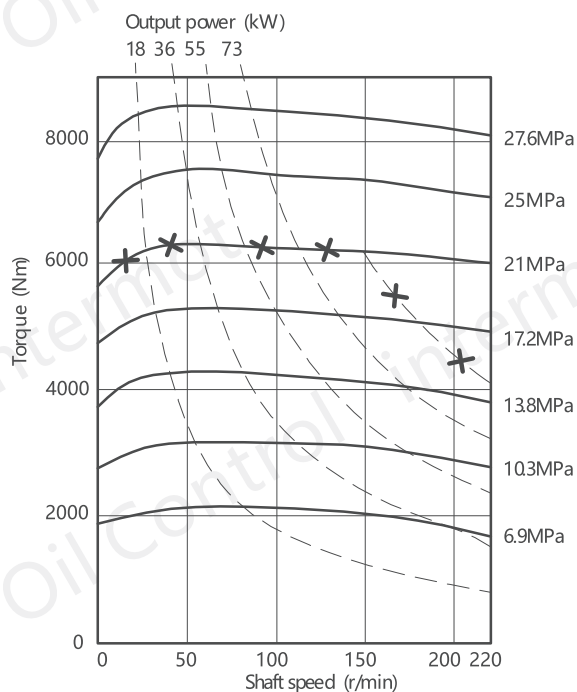
The above data are measured and obtained under specific actual experimental conditions, and only for product description purposes. The data should not be interpreted as warranted characteristics in legal term. Ningbo intermot(Ningbo Oil Control Hydraulic Co. Ltd.)reserves the rights to implement modifications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

PERFORMANCE GRAPH

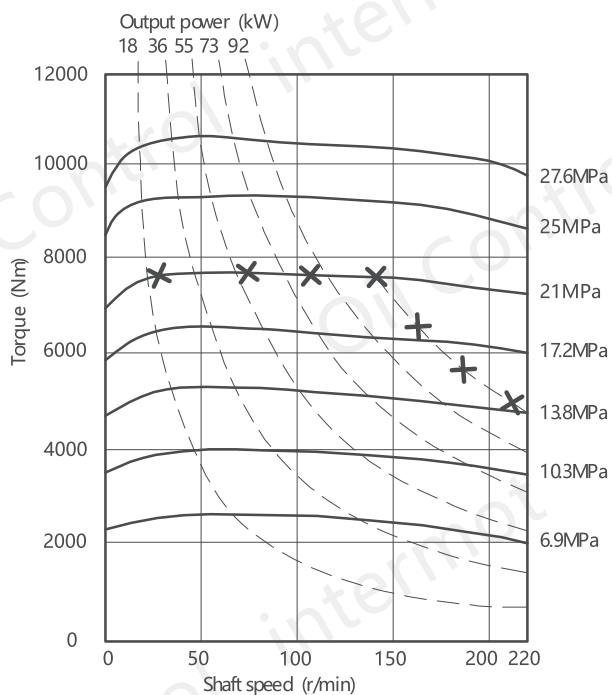
FMB100-1650



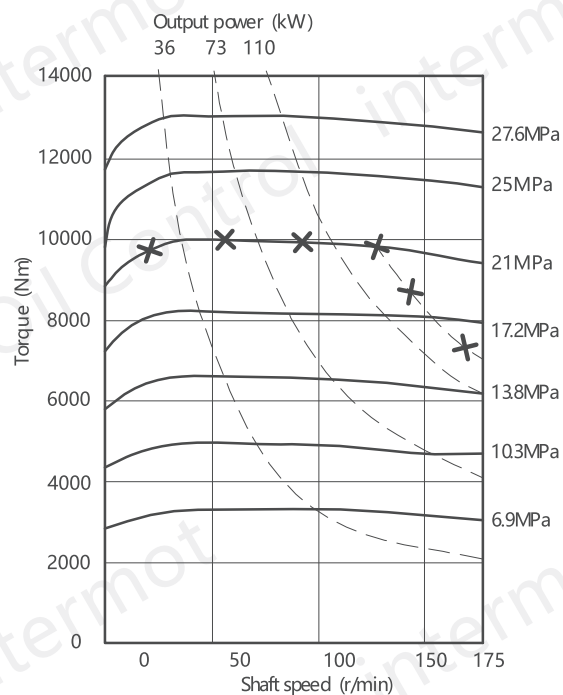
FMB125-2000



FMB150-2500



FMB200-3100



NHM

GHM

FMB

FMC

F

CM

EPMZ

NHM

GHM

FMB

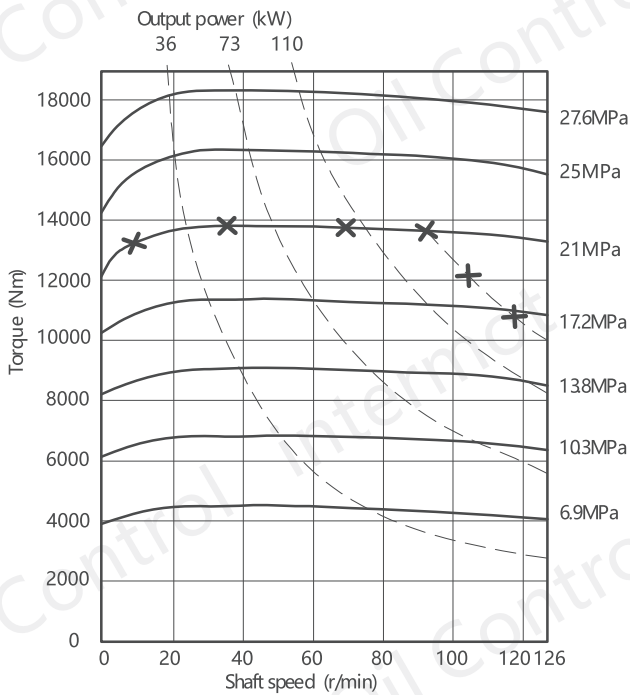
FMC

F

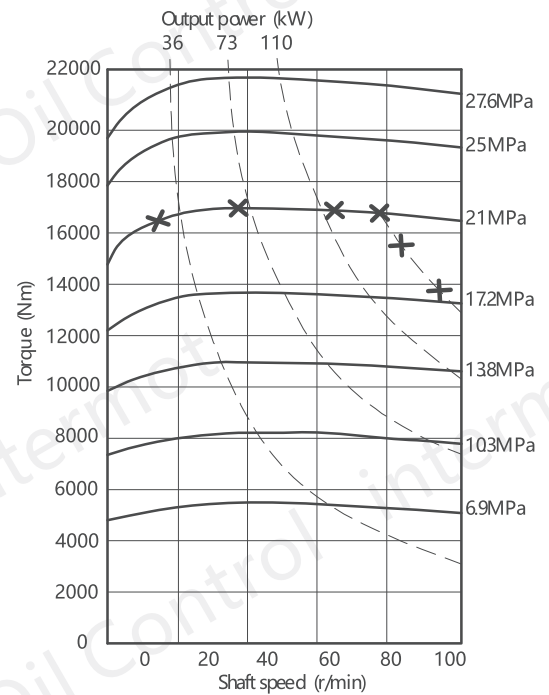
CM

EPMZ

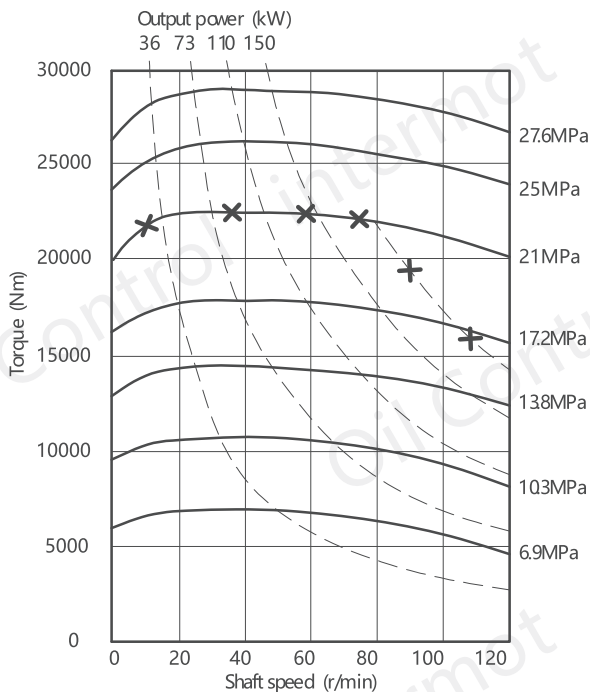
FMB270-4300



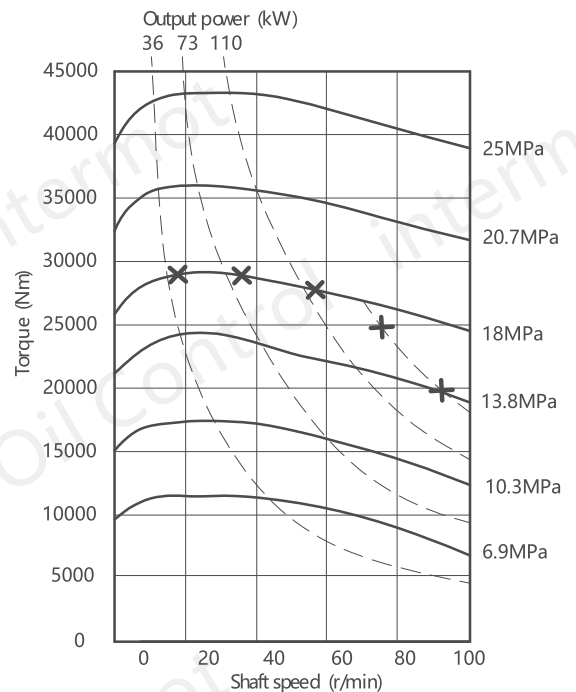
FMB325-5300



FMB400-6800



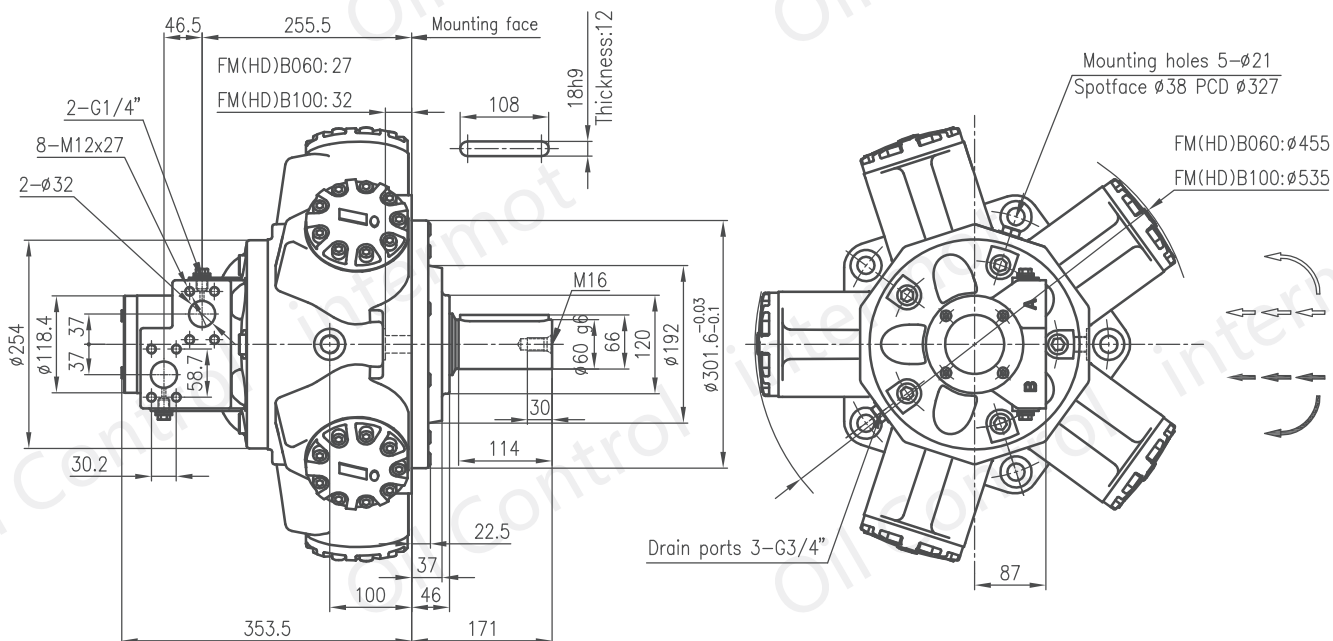
FMB700-12600



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.

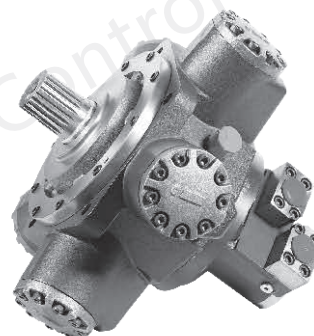
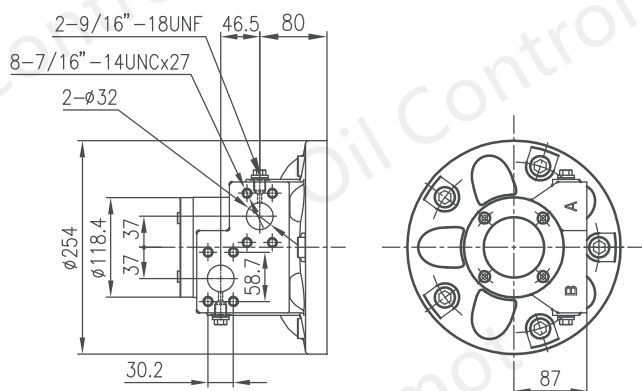
FM(HD)B060/100 STANDARD CONFIGURATION DIMENSIONS

Main port connections : FM3 Shaft type : P



FM(HD)B060/100 OTHER MAIN PORT CONNECTIONS

060/100 F3



NHM

GHM

FMB

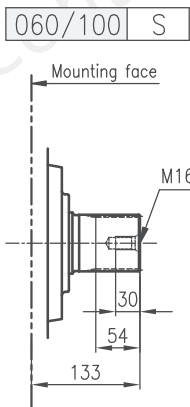
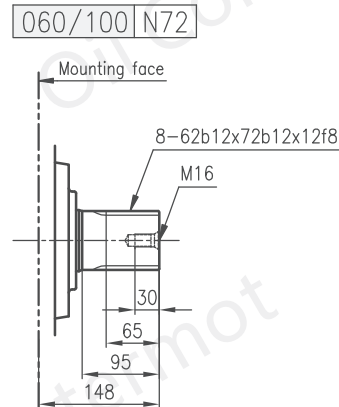
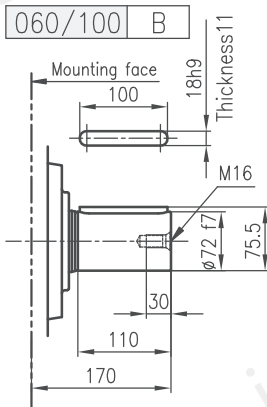
FMC

F

CM

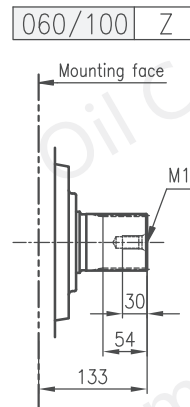
EPMZ

FM(HD)B060/100 OTHER SHAFT TYPES



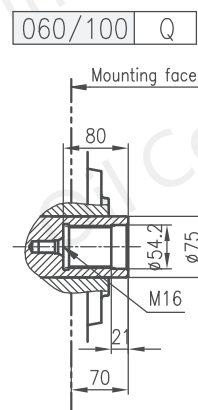
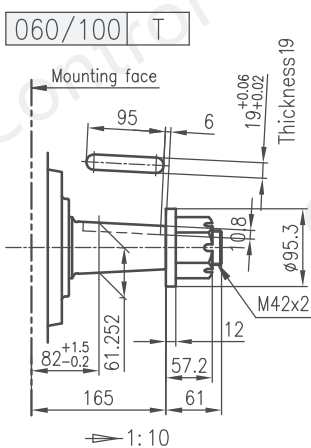
Spline parameters
Standard : BS3550-1963

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



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

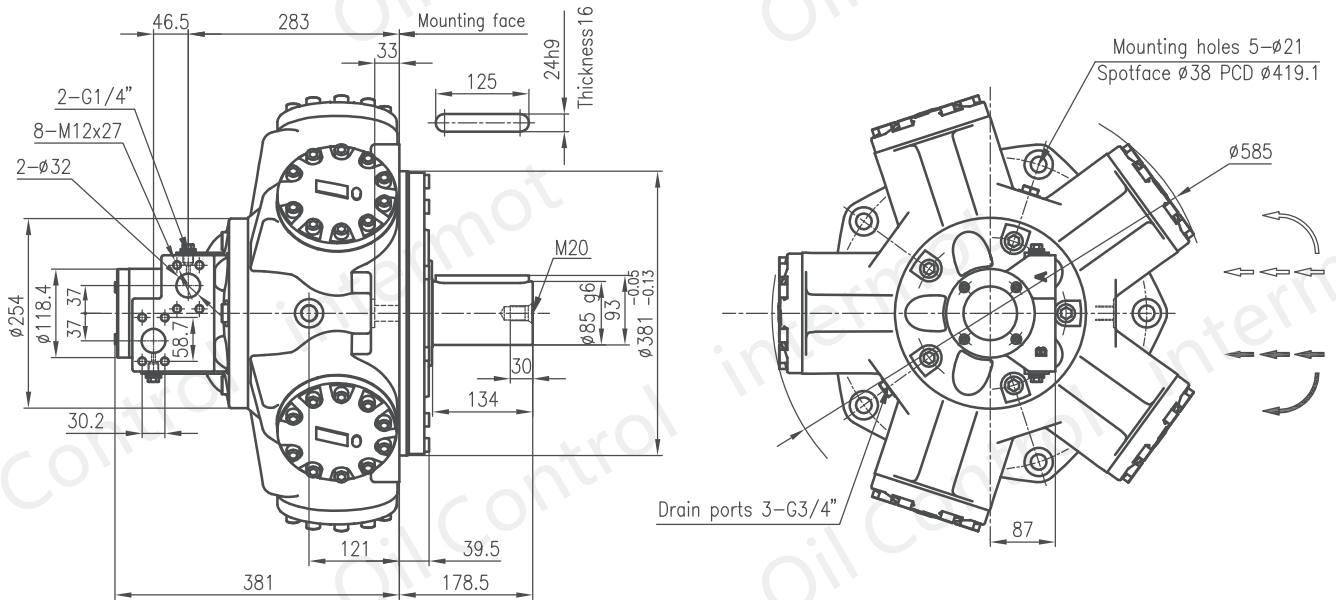


Spline parameters
Standard : BS3550-1963

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

FM(HD)B125 STANDARD CONFIGURATION DIMENSIONS

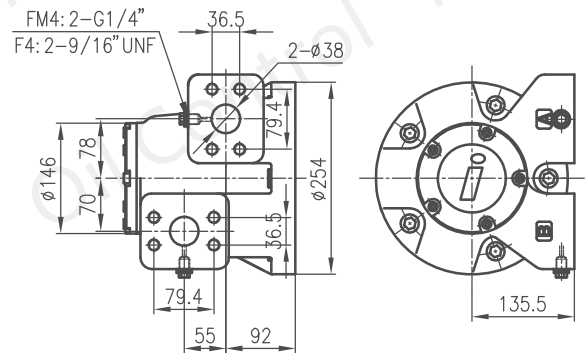
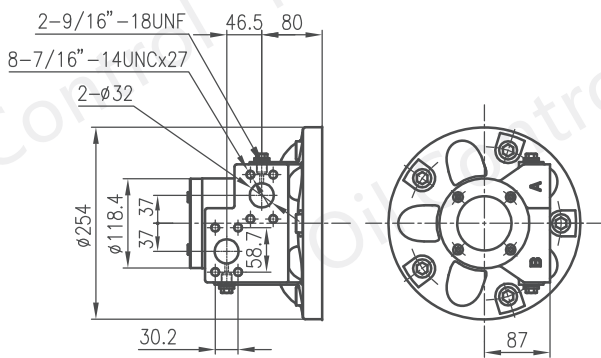
Main port connections : FM3 Shaft type : P1



FM(HD)B125 OTHER MAIN PORT CONNECTIONS

125 | F3

125 | FM4/F4



INTERMOT
 HYDRAULIC MOTOR

FM(HD)B125 OTHER SHAFT TYPES

NHM

GHM

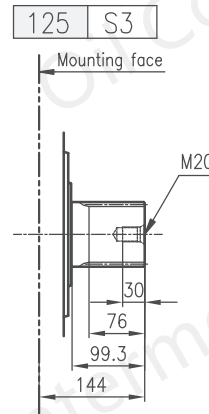
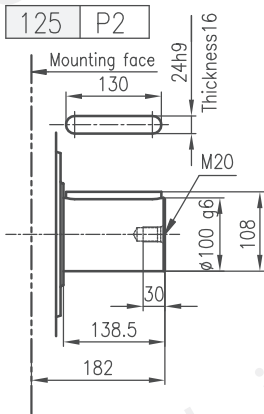
FMB

FMC

F

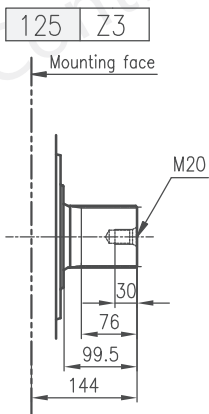
CM

EPMZ



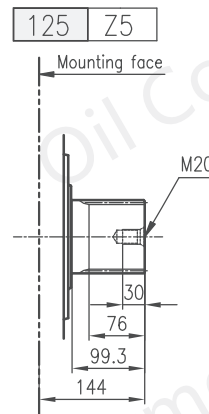
Spline parameters
Standard : BS3550-1963

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



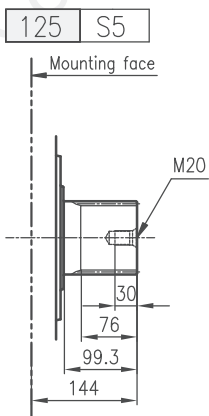
Spline parameters
Standard : DIN5480 W85x3x27x7h

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



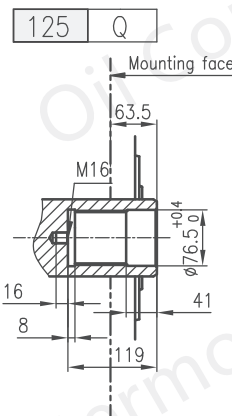
Spline parameters
Standard : DIN5480 W100x4x24x7h

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



Spline parameters
Standard : BS3550-1963

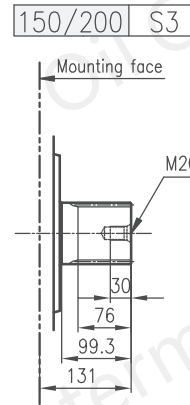
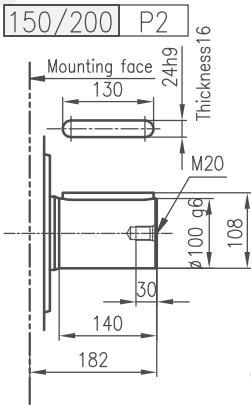
Pressure angle	30°
Number of teeth	23
Pitch	6/12
Major diameter	100.66/100.52
Form diameter	92.939
Minor diameter	92.185/91.625
Pin diameter	8.128
Diameter over pins	109.58/109.51



Spline parameters
Standard : BS3550-1963

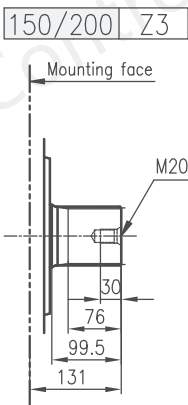
Pressure angle	30°
Number of teeth	34
Pitch	12/24
Major diameter	74.414/74.048
Minor diameter	69.977/69.850
Pin diameter	3.658
Diameter between pins	66.815/66.744

FM(HD)B150/200 OTHER SHAFT TYPES



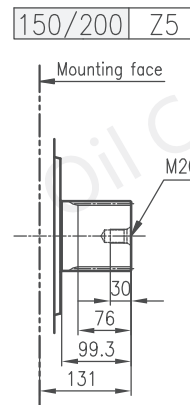
Spline parameters
Standard : BS3550-1963

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



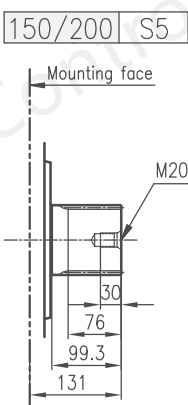
Spline parameters
Standard : DIN5480 W85x3x27x7h

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



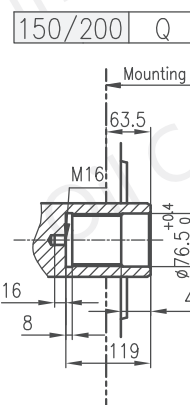
Spline parameters
Standard : DIN5480 W100x4x24x7h

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



Spline parameters
Standard : BS3550-1963

Pressure angle	30°
Number of teeth	23
Pitch	6/12
Major diameter	100.66/100.52
Form diameter	92.939
Minor diameter	92.185/91.625
Pin diameter	8.128
Diameter over pins	109.58/109.51

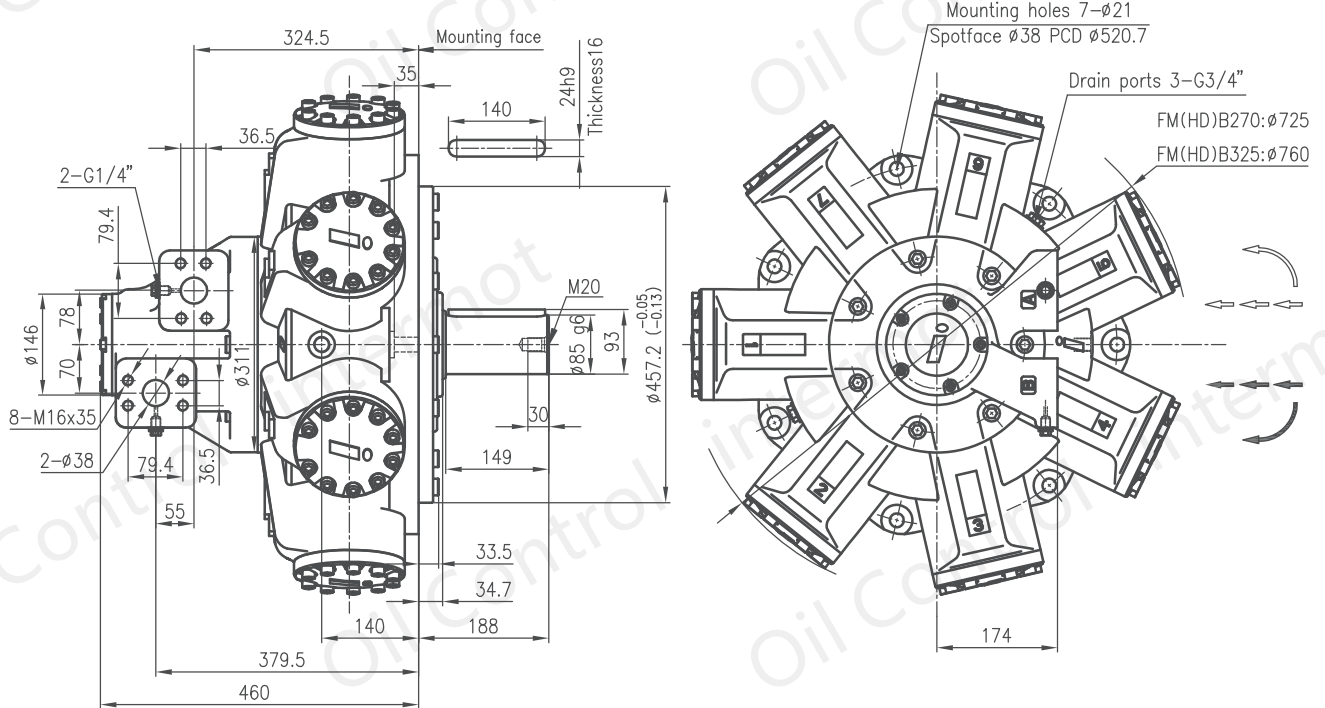


Spline parameters
Standard : BS3550-1963

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

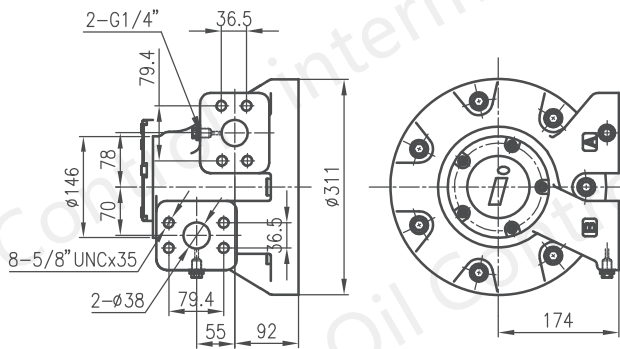
FM(HD)B270/325 STANDARD CONFIGURATION DIMENSIONS

Main port connections : FM4 Shaft type : P1

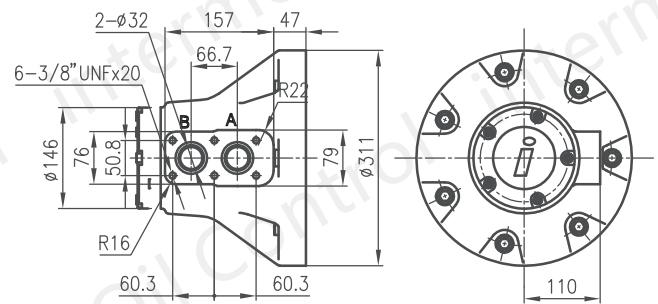


FM(HD)B270/325 OTHER MAIN PORT CONNECTIONS

270/325 F4

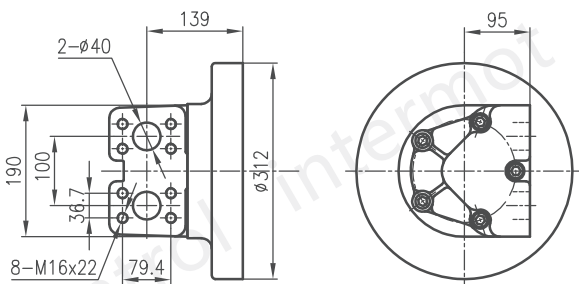


270/325 S04



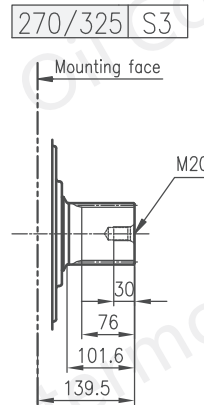
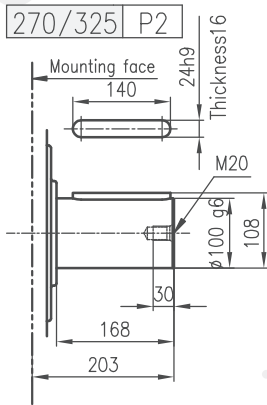
Note: O-ring at oil ports is 38.1x3.53

270/325 D90



INTERMOT
HYDRAULIC MOTOR

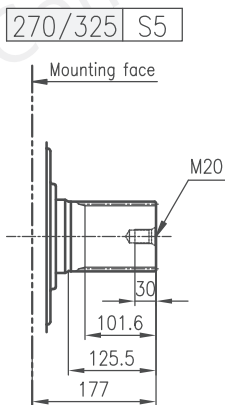
FM(HD)B270/325 OTHER SHAFT TYPES



Spline parameters

Standard : BS3550-1963

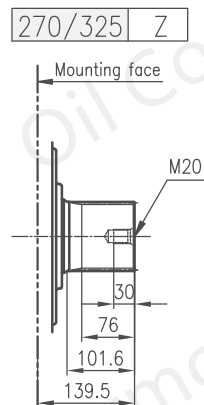
Pressure angle	30°
Number of teeth	20
Pitch	6/12
Major diameter	87.953/87.825
Form diameter	80.264
Minor diameter	79.485/78.925
Pin diameter	8.128
Diameter over pins	97.084/97.030



Spline parameters

Standard : BS3550-1963

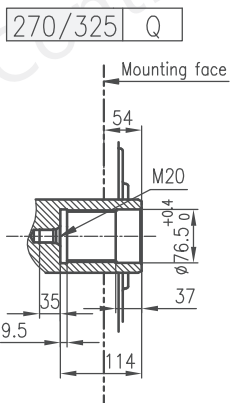
Pressure angle	30°
Number of teeth	23
Pitch	6/12
Major diameter	100.66/100.52
Form diameter	92.939
Minor diameter	92.185/91.625
Pin diameter	8.128
Diameter over pins	109.58/109.51



Spline parameters

Standard : DIN5480 W100x4x24x7h

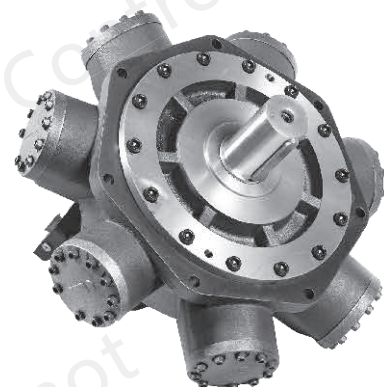
Pressure angle	30°
Number of teeth	24
Modulus	4
Addendum modification	-0.2
Tolerance grade	7h
Major diameter	99.2
Minor diameter	91.2
Spanned tooth count	5
Base tangent length	42.359



Spline parameters

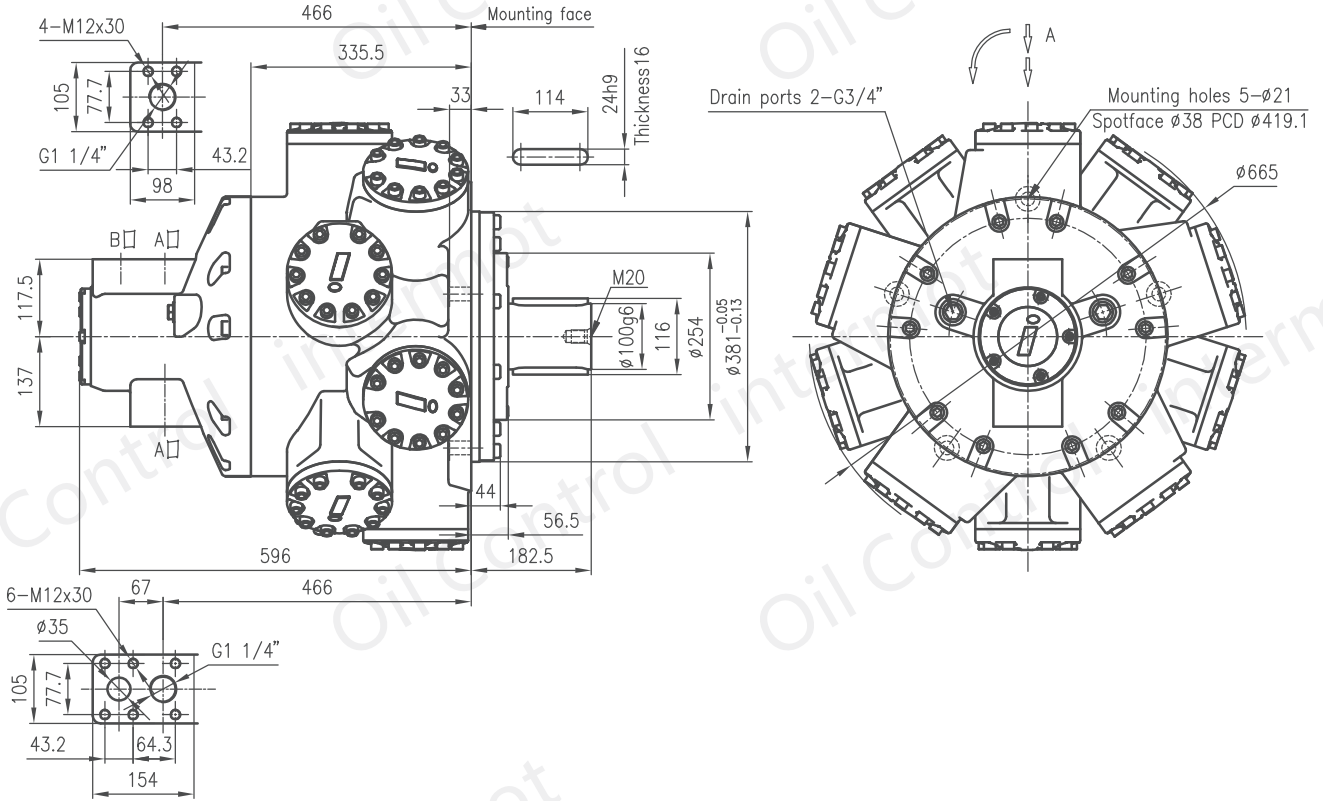
Standard : BS3550-1963

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



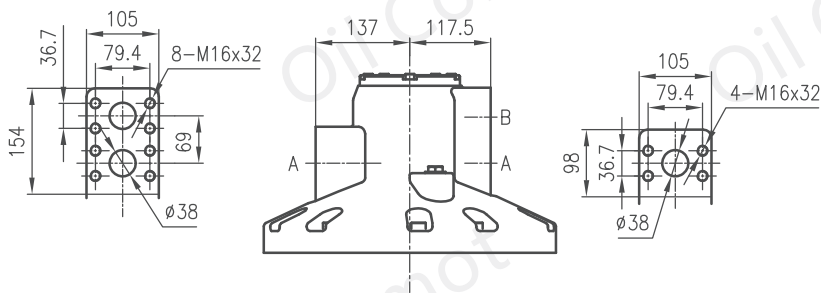
FM(HD)B400/500 STANDARD CONFIGURATION DIMENSIONS

Main port connections : F04 | Shaft type : P



FM(HD)B400/500 OTHER MAIN PORT CONNECTIONS

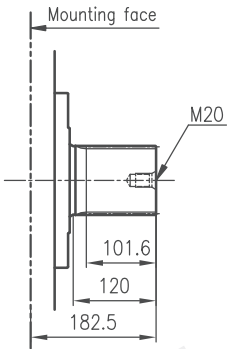
400/500 | F68



INTERMOT
HYDRAULIC MOTOR

FM(HD)B400/500 OTHER SHAFT TYPES

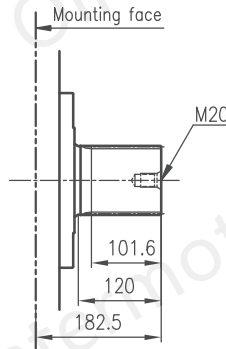
400/500 S



Spline parameters
Standard : BS3550-1963

Pressure angle	30°
Number of teeth	23
Pitch	6/12
Major diameter	100.66/100.52
Form diameter	92.939
Minor diameter	92.185/91.625
Pin diameter	8.128
Diameter over pins	109.58/109.51

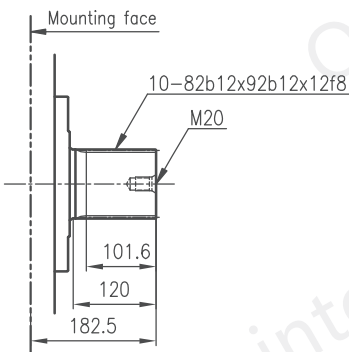
400/500 Z



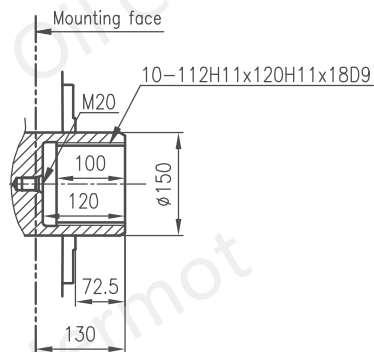
Spline parameters
Standard : DIN5480 W100x4x24x7h

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

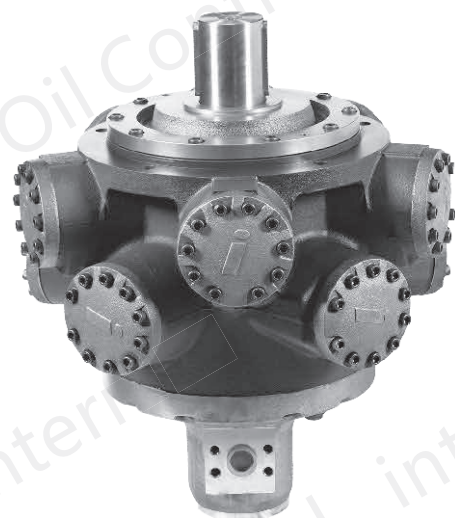
400/500 A1



400/500 I

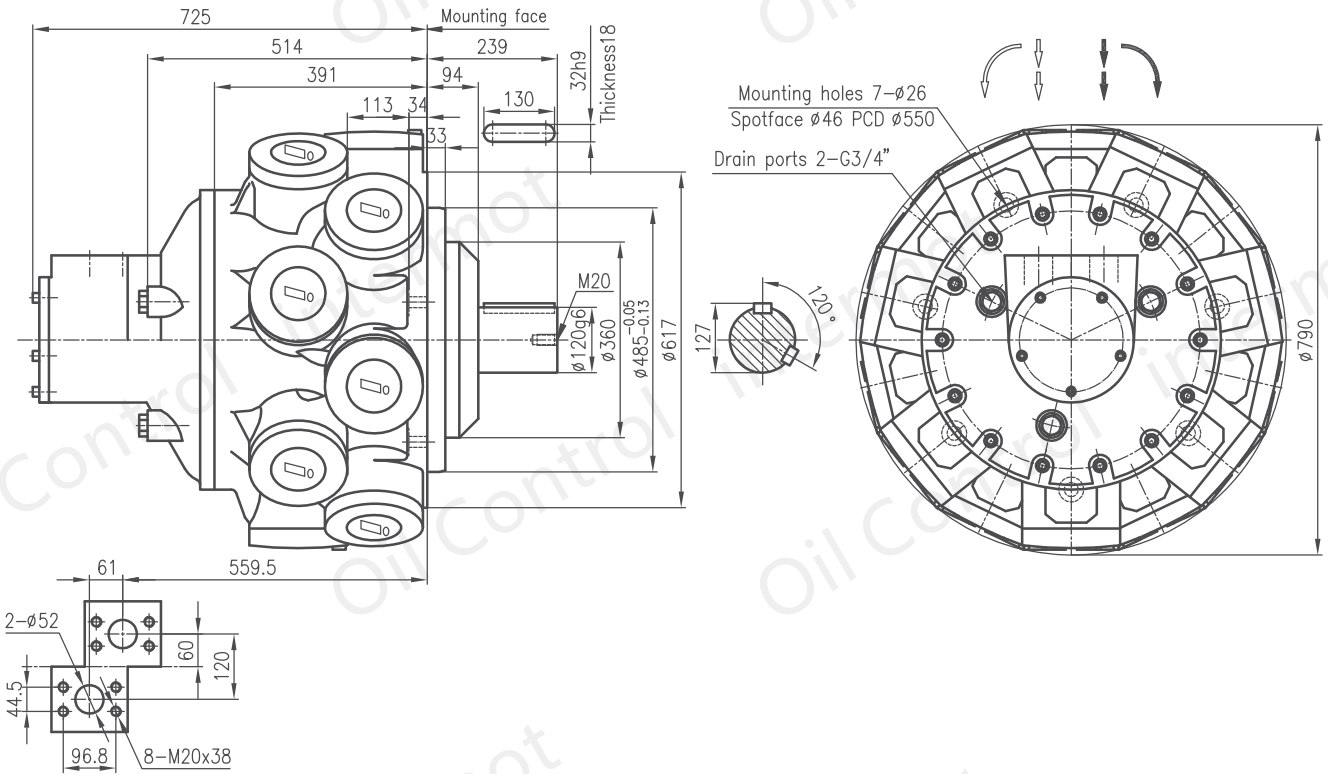


INTERMOT
HYDRAULIC MOTOR



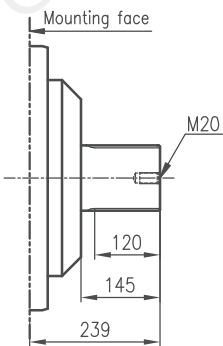
FM(HD)B700 STANDARD CONFIGURATION DIMENSIONS

Main port connections : Shaft type : P



FMB700 OTHER SHAFT TYPES

700 Z



Spline parameters

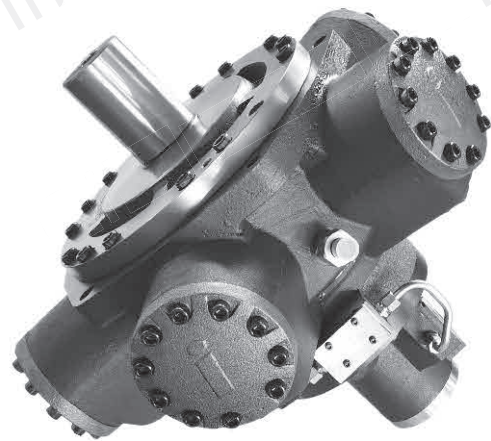
Standard : DIN5480 W120x4x28x7h

Pressure angle	30°
Number of teeth	28
Modulus	4
Addendum modification	+1.8
Tolerance grade	7h
Major diameter	119.2
Minor diameter	111.2
Spanned tooth count	6
Base tangent length	66.869

INTERMOT
HYDRAULIC MOTOR

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



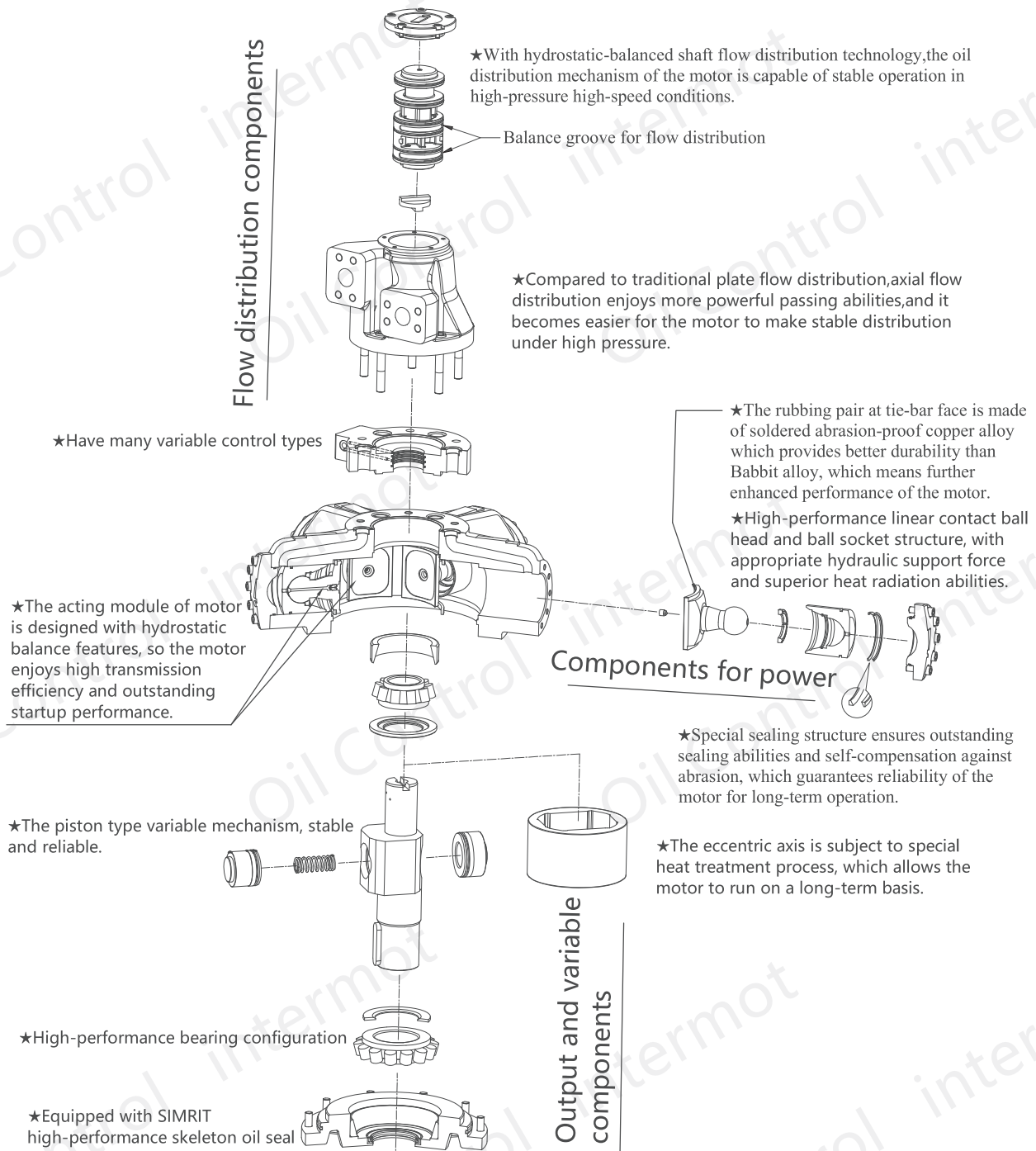
**Hydrostatic Balance
Dual-Displacement Motor**

D01

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.



NHM

GHM

FMB

FMC

F

CM

EPMZ

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 dual 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

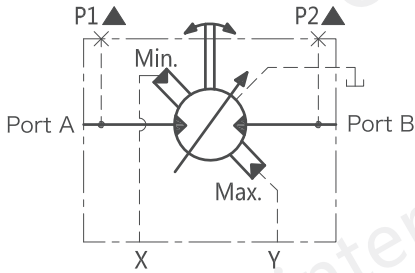
Examples:

FMC200-3100-100-P-FM4-C refers to FMC series dual 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.

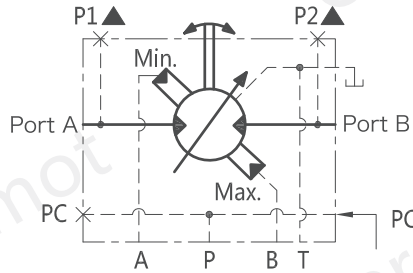
Note: the orders without specified model of output axis or flanges at inlet/outlet oil port will be deemed as orders for standard configuration.

DISPLACEMENT ORDERING CONTROL TYPE

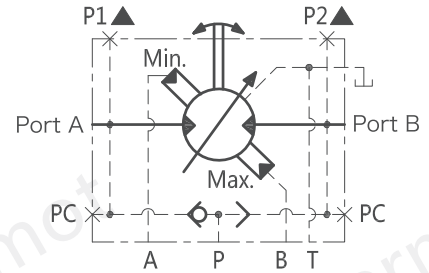
X: Control pressure from port X or port Y



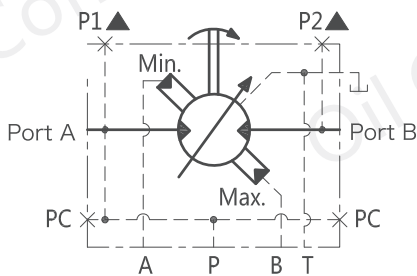
C: Control pressure from external port PC



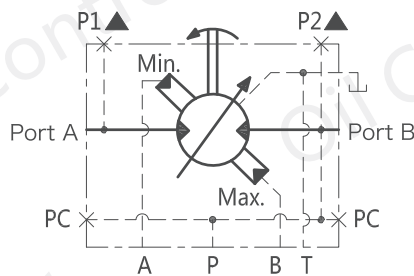
CS: Control pressure from port A or port B with shuttle valve



CA: Control pressure from port A



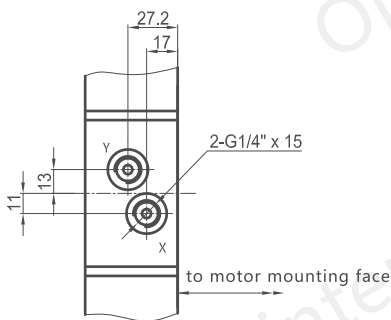
CB: Control pressure from port B



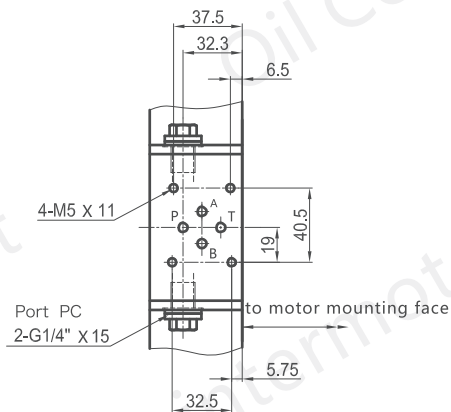
Note : Type C is the default displacement control type

DISPLACEMENT CONTROL PORTS

Type X

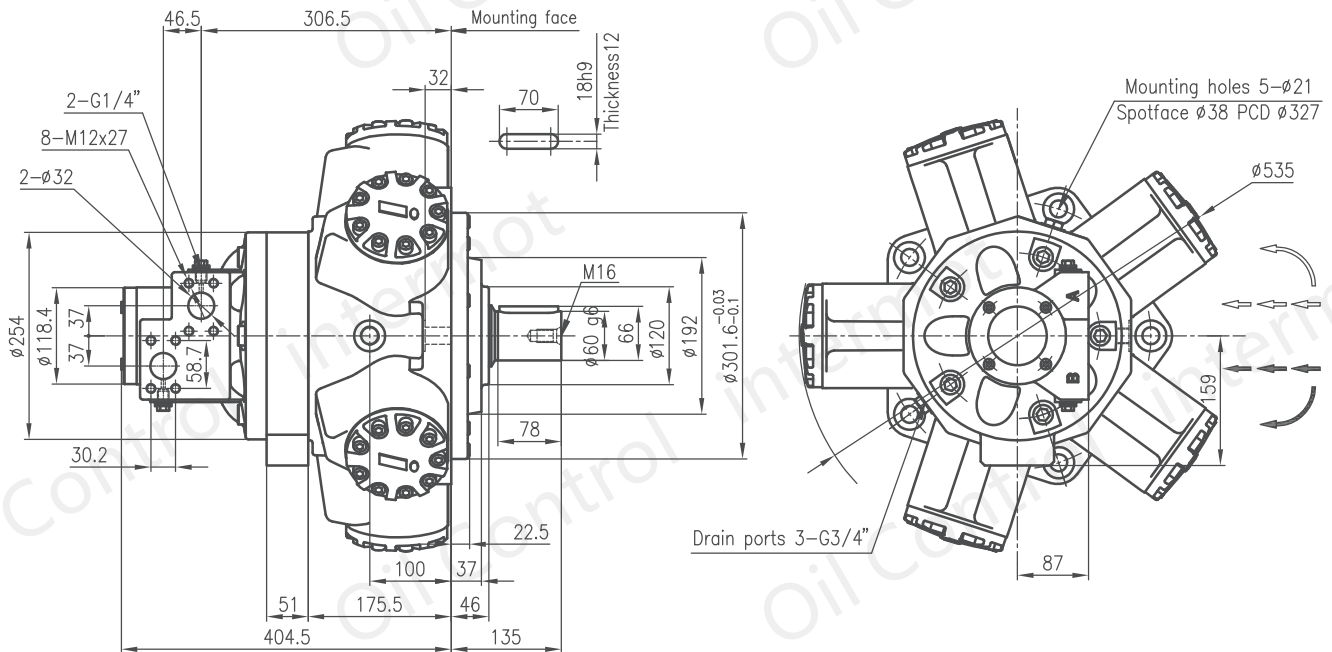


Type C/CS/CA/CB



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
Displacment (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:

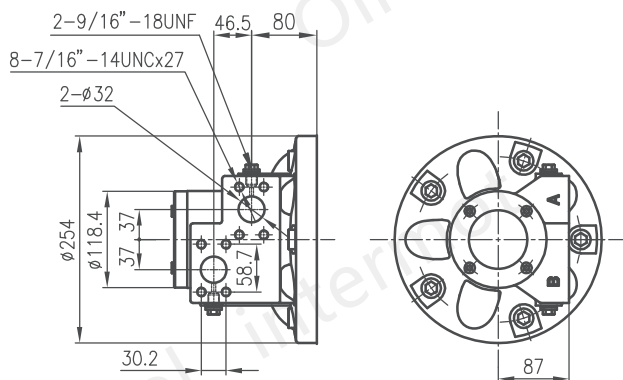
High displacement: 1500, 1400, 1300, 1200, 1100, 1000, 900, 800

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.

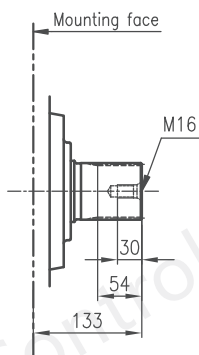
FMC100 OTHER MAIN PORT CONNECTIONS

100 F3



FMC100 OTHER SHAFT TYPES

100 S

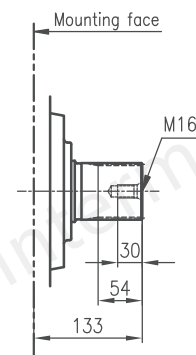


Spline parameters

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

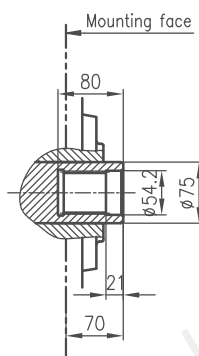
100 Z



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

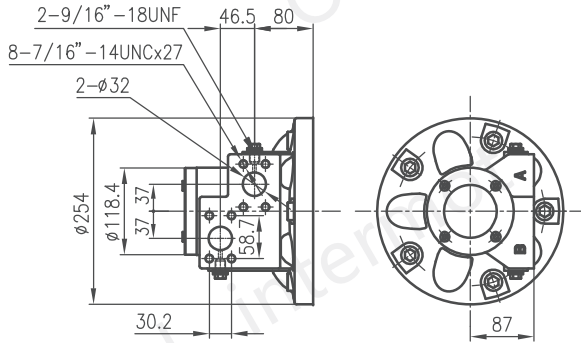
Standard : BS3550-1963

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

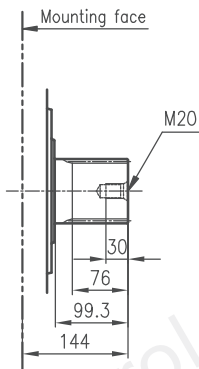
FMC125 OTHER MAIN PORT CONNECTIONS

125 | F3



FMC125 OTHER SHAFT TYPES

125 | S

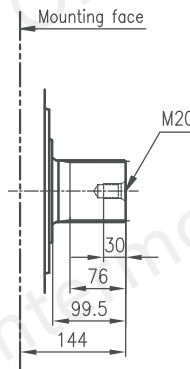


Spline parameters

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

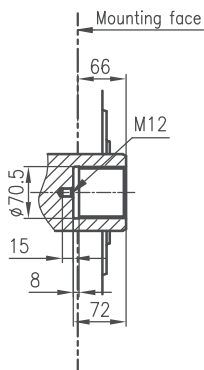


Spline parameters

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

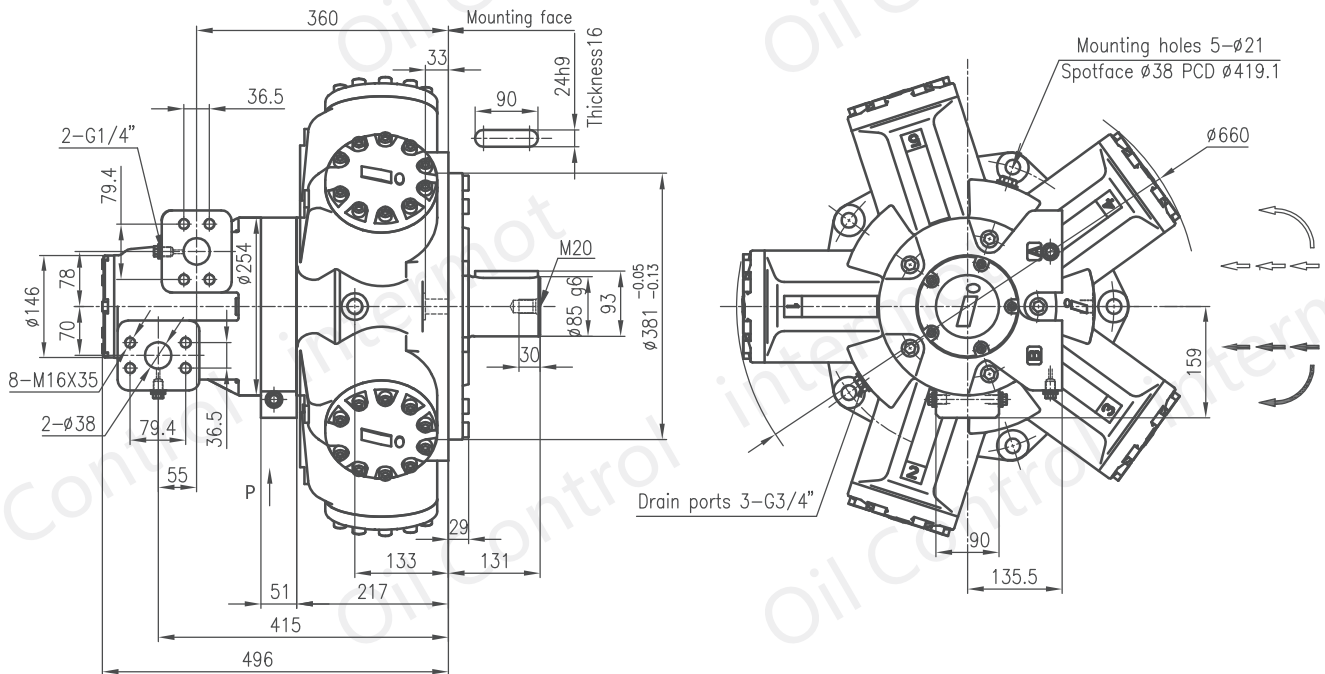
Standard : BS3550-1963

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	
Displacment (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	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:

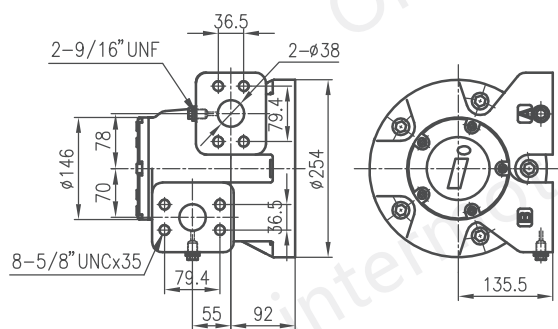
High displacement: 3100, 2900, 2800, 2600, 2400, 2300, 2100, 2000, 1800, 1600

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

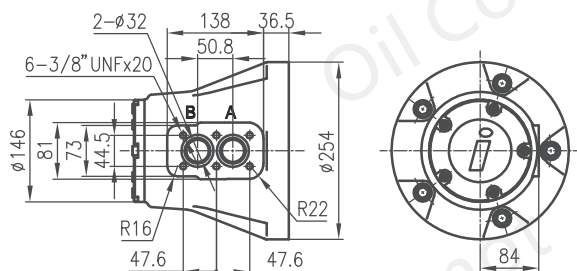
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FMC200 OTHER MAIN PORT CONNECTIONS

200 F4

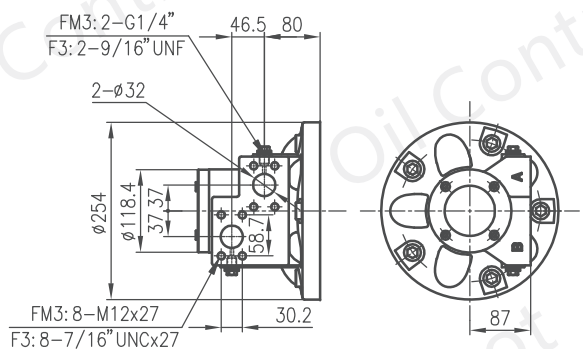


200 S04



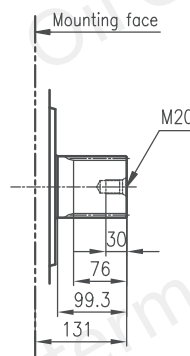
Note: O-ring at oil ports is 38.1x3.53

200 FM3/F3



FMC200 OTHER SHAFT TYPES

200 S

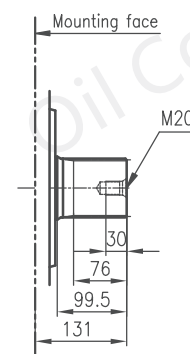


Spline parameters

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

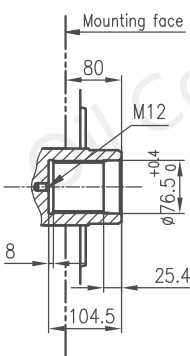


Spline parameters

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



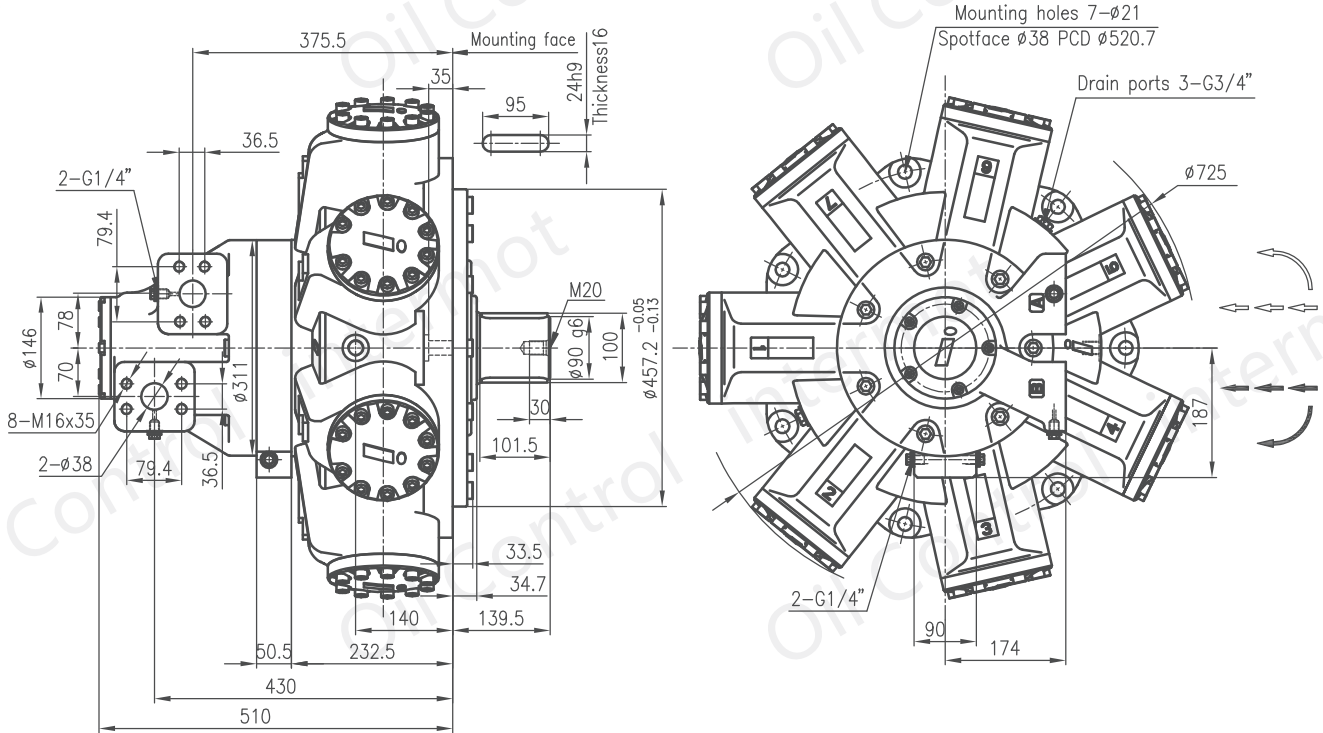
Spline parameters

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
Displercment (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	25	21	21	21	21	1.5

Optional displacement range of FMC270:

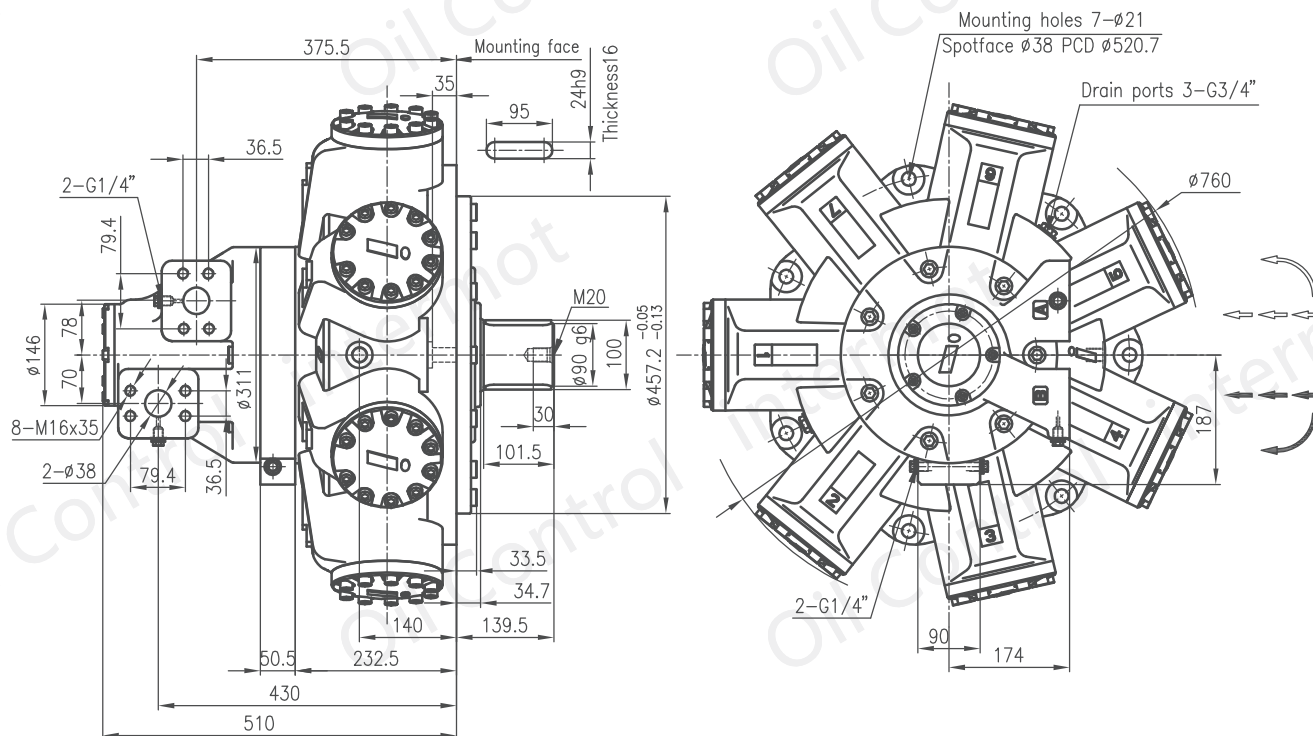
High displacement: 4600, 4300, 4100, 3600, 3300

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

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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
Displacement (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:

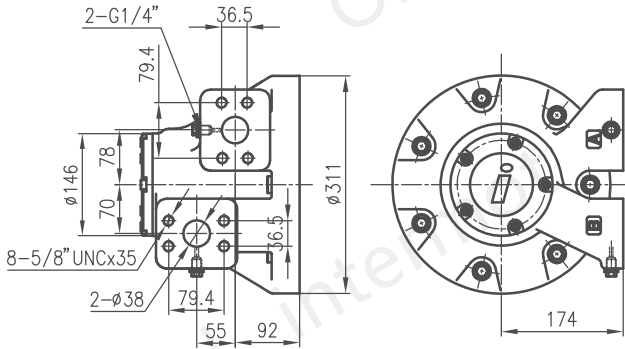
High displacement: 5300, 5100, 4900, 4600

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

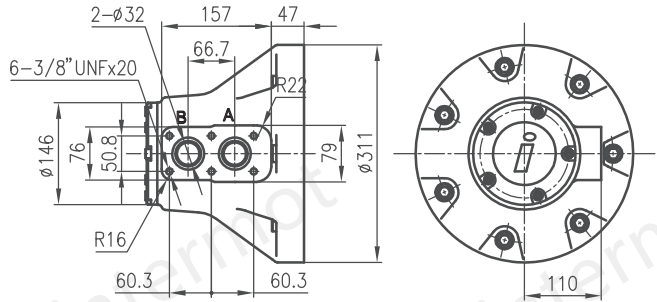
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FMC325 OTHER MAIN PORT CONNECTIONS

270/325 F4



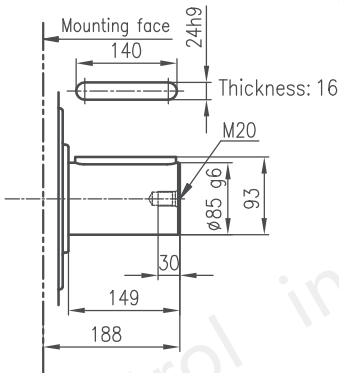
270/325 S04



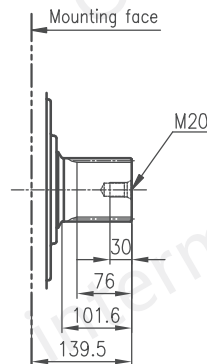
Note: O-ring at oil ports is 38.1x3.53

FMC270/325 OTHER SHAFT TYPES

270/325 P1



270/325 S

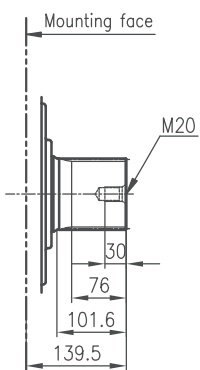


Spline parameters

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