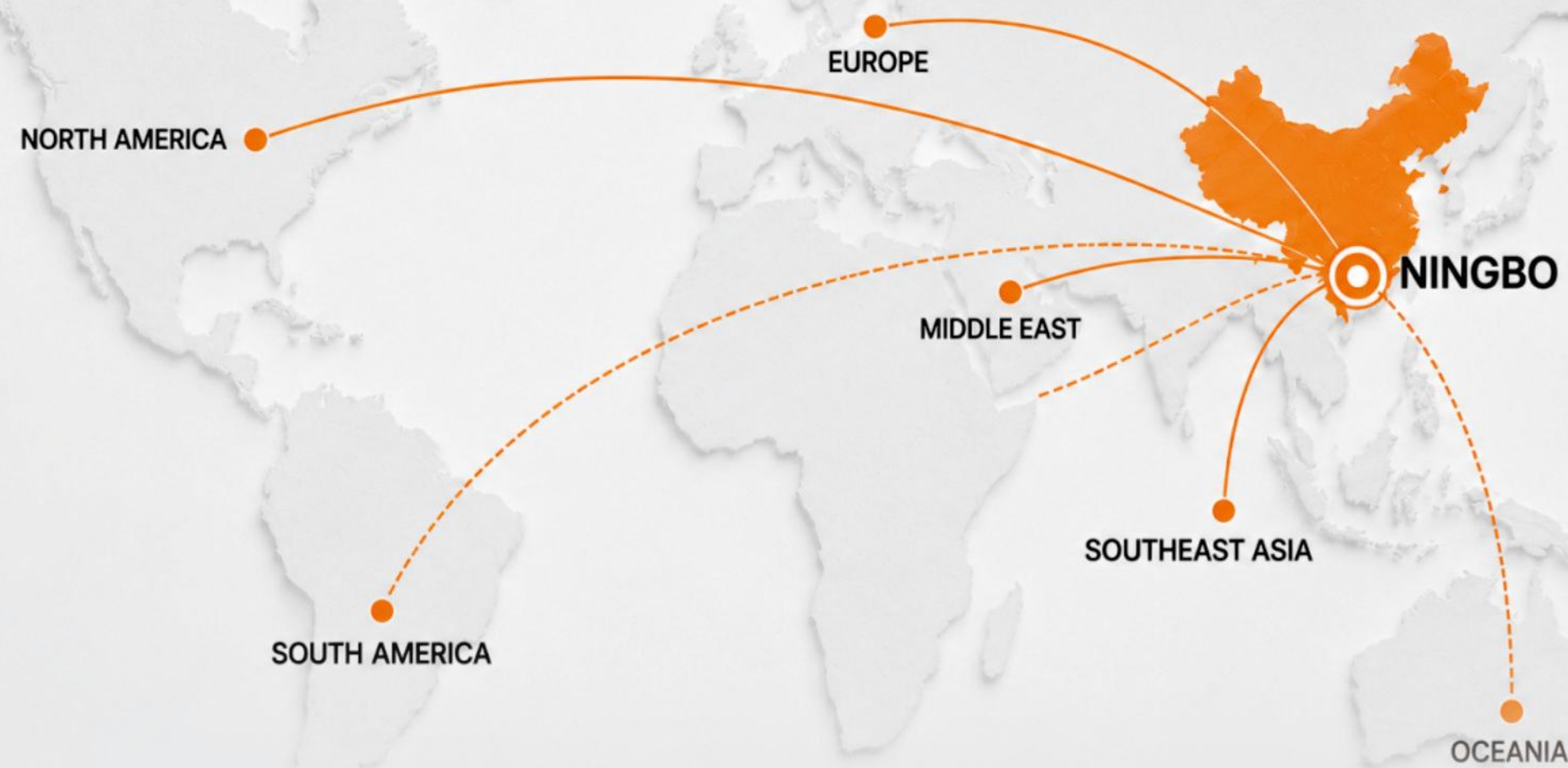


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JSTHYD®



HYDRAULIC MOTOR SERIES



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ABOUT JST

DRIVEN BY INNOVATION.
POWERED BY TRUST.

Founded in 2007, Ningbo JST Hydraulic Co., Ltd. is a professional manufacturer of hydraulic drive and actuator solutions based in Ningbo, China.

With years of experience in hydraulic engineering and manufacturing, JSTHYD specializes in low-speed high-torque hydraulic motors, hydraulic travel drives, slewing drives, hydraulic transmission units, hydraulic winches, and customized hydraulic actuator assemblies.

Our products are widely used in heavy-duty machinery, mining equipment, marine equipment, construction machinery, metallurgical equipment, agricultural machinery, industrial vehicles, and other demanding applications where reliability, torque performance, and long service life are essential.

JSTHYD focuses on non-standard and application-specific hydraulic solutions. According to each customer's working conditions, installation requirements, torque demands, speed range, load characteristics, and system pressure, we provide suitable product selection, customized design, manufacturing, testing, and technical support.

The company operates under a quality management system and has built a stable production process covering machining, assembly, inspection, and performance testing. By combining flexible customization with efficient cost control and production management, JSTHYD is able to deliver reliable hydraulic products with competitive pricing and practical lead times.

Our goal is to provide global customers with durable, cost-effective, and application-proven hydraulic solutions for real working conditions.



FOUNDED
2007



ISO9001
CERTIFIED



GLOBAL
SERVICE



CUSTOMIZED
SOLUTIONS

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JNM Series Hydraulic Motors



JNM Series Hydraulic Motors

JNM series hydraulic motors are low-speed, high-torque radial piston motors designed for demanding heavy-duty applications. With their compact structure and advanced design, they deliver reliable performance, long service life, high starting torque, good efficiency, and easy maintenance.

- compact dimensions
- high starting torque
- long operating life
- reliable sealing
- stable low-speed operation
- modular design

These advantages enable machine designers to achieve robust and efficient hydraulic systems that perform reliably in the most demanding conditions.

Potential applications:

- winches
- slewing drives
- mining machinery
- construction machinery
- lifting equipment
- marine deck machinery
- metallurgical equipment
- drilling equipment
- transport equipment
- industrial machinery

JNM series motors are suitable for demanding heavy-duty hydraulic transmission applications. They offer excellent reliability and durability, ensuring consistent performance and long service life to help your equipment operate with confidence.

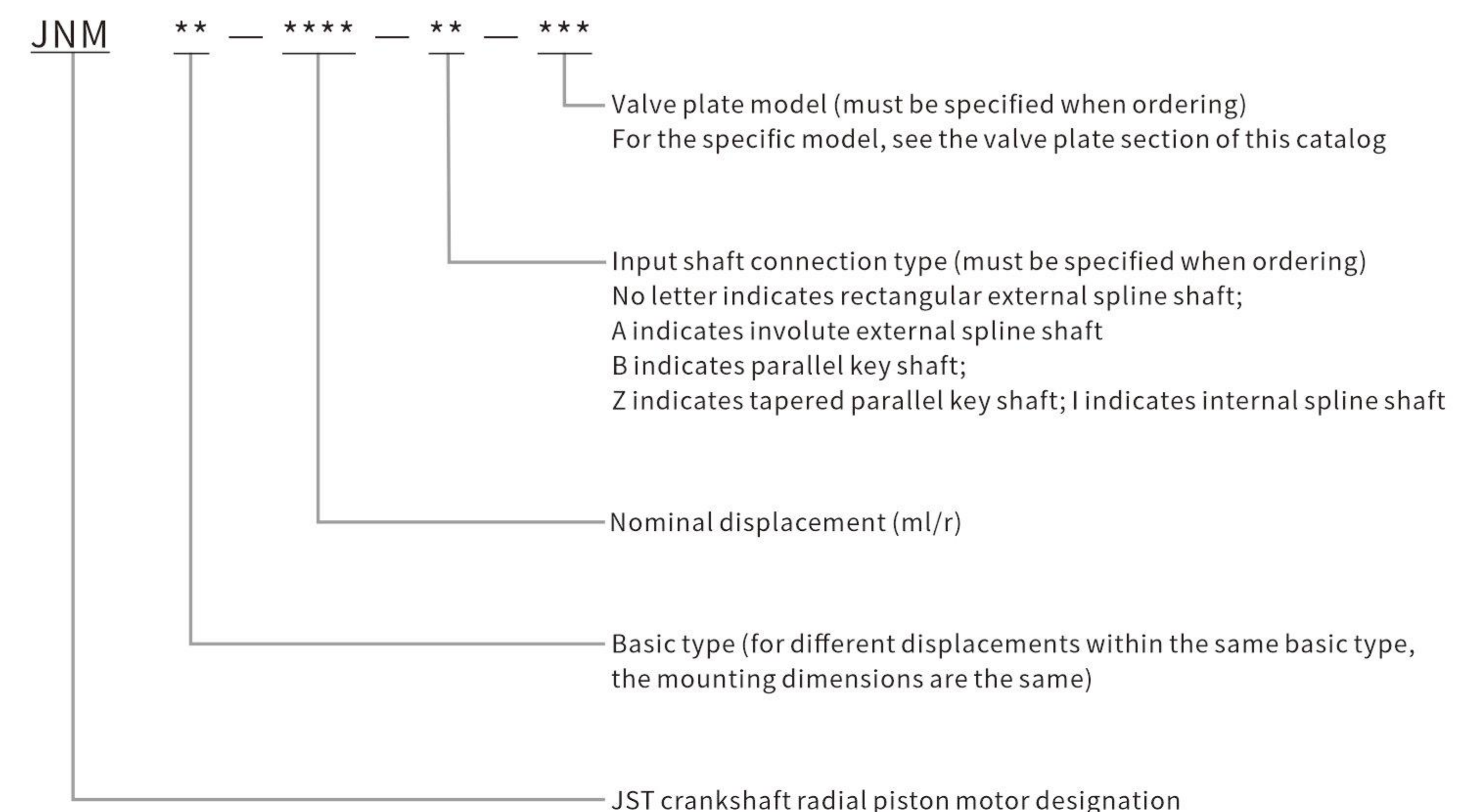
1. Overview

The JNM Series hydraulic motor is a compact low-speed, high-torque radial piston motor designed for applications requiring high starting efficiency, stable low-speed operation and reliable performance under heavy load conditions.

The oscillating-cylinder crankshaft structure helps reduce side loading between the piston and cylinder, while the hydrostatic-balanced piston design and rolling-bearing torque transmission improve mechanical efficiency and starting performance. The flat valve distributor and low-leakage sealing structure help achieve stable output, reduced internal leakage and good operating efficiency.

With high pressure capability, compact size, low noise, reversible rotation and radial load capacity on the output shaft, the JNM Series is widely used in winches, slewing drives, crawler and wheel drives, lifting equipment, mining machinery, marine deck machinery, drilling equipment and other heavy-duty hydraulic transmission systems.

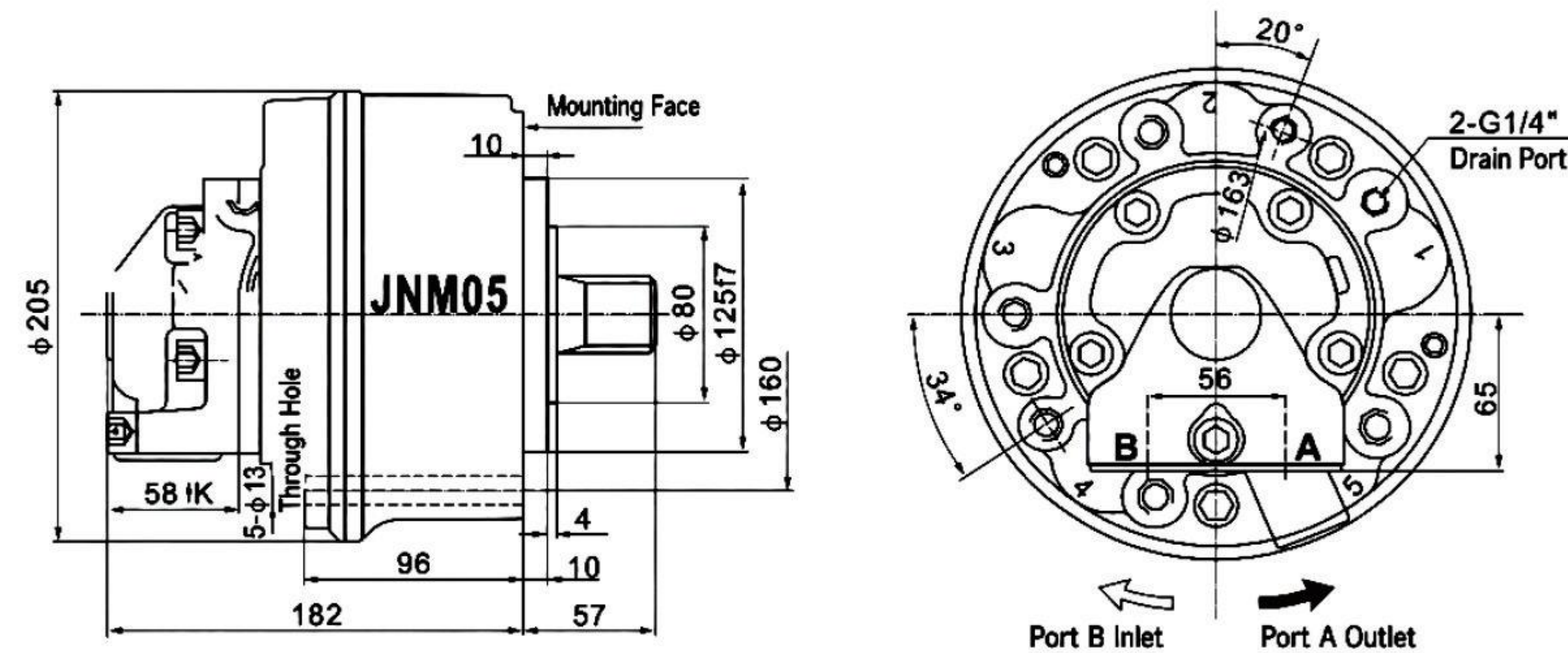
2. Model Code Description



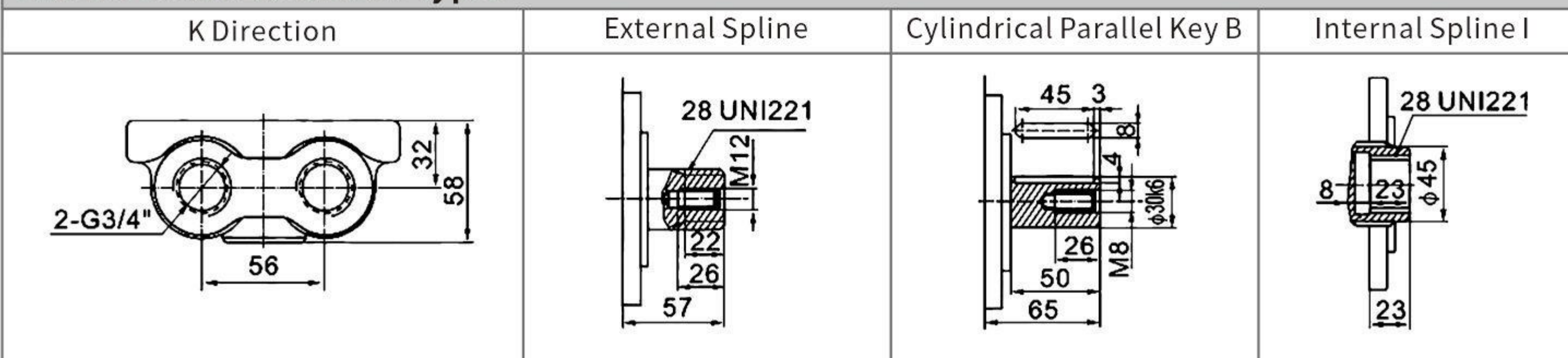
3. Model Code Example

JNM2-400BD31 indicates a JNM hydraulic motor with frame size 2. Its nominal displacement is 400 ml/r, the output shaft is a flat keyed shaft, and the valve distributor model is D31.

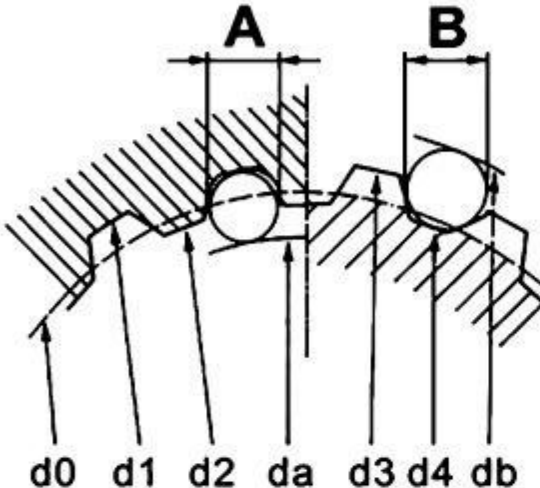
JNM05 Hydraulic Motor Overall Dimensions and Technical Performance Table

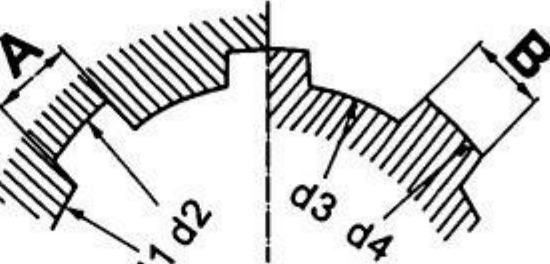


JNM05 Shaft Extension Types



JNM05 Spline Parameters

35-2-16 DIN 5480		
	d0	$\phi 32.0$
	d1	$\phi 35.0^{+0.520}_{+0} H14$
	d2	$\phi 31.0^{+0.160}_{+0} H11$
	A	$\phi 3.5$
	da	$\phi 27.711 H11$
	d3	$\phi 34.6^{0}_{-0.160} h11$
	d4	$\phi 30.6^{0}_{-0.520} h14$
	B	$\phi 4.0$
db	$\phi 39.000 f8$	

28 UNI 221(6-28-34) DIN 5463		
	d1	$\phi 28.0^{+0.021}_{+0} H7$
	d2	$\phi 34.0^{+0.016}_{+0} H11$
	A	$7.0^{+0.028}_{+0.013} F7$
	d3	$\phi 28.0^{0}_{-0.020} g6$
	d4	$\phi 34.0^{0}_{-0.160} h14$
	B	$7.0^{0}_{-0.028} f7$

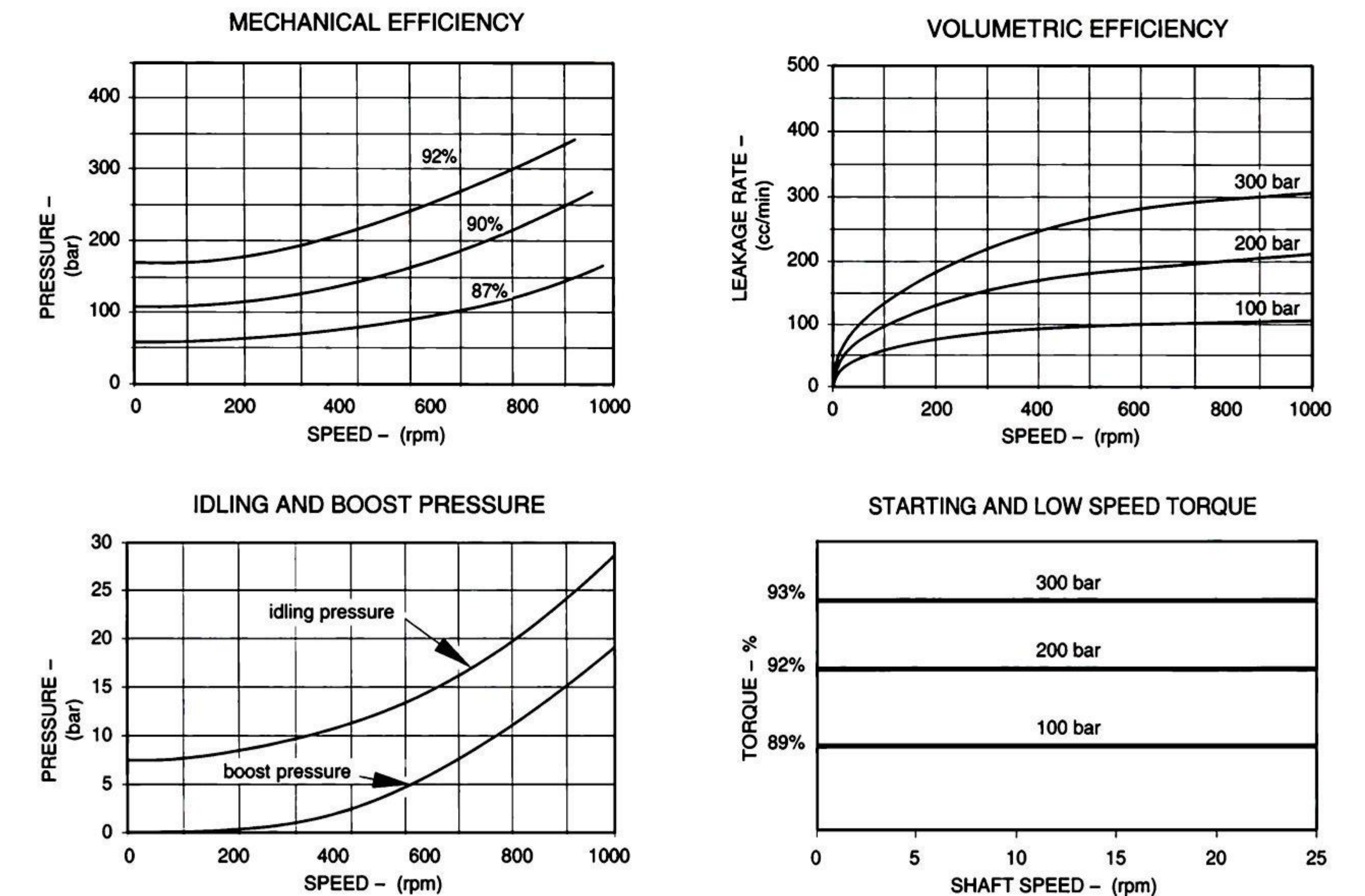
JNM05-60~200 Series Motor Technical Parameters

Technical Parameters	05-60	05-75	05-90	05-110	05-130	05-150	05-170	05-200
Theoretical Displacement (ml/r)	59	74	86	115	129	151	166	191
Rated Pressure (MPa)	25	25	25	25	25	25	25	25
Maximum Pressure (MPa)	45	42.5	37.5	40	37.5	32.5	32.5	28
Rated Torque (N·m)	235	295	343	458	513	600	660	760
Unit Theoretical Torque (N·m/MPa)	9.4	11.8	13.7	18.3	20.5	24	26.4	30.4
Continuous Speed (r/min)	1~700	1~700	1~700	1~650	1~650	1~650	1~600	1~600
Maximum Speed (r/min)	1000	1000	1000	900	900	900	800	800
Motor Weight (Kg)	22	22	22	22	22	22	22	22

JNM Series Hydraulic Motors

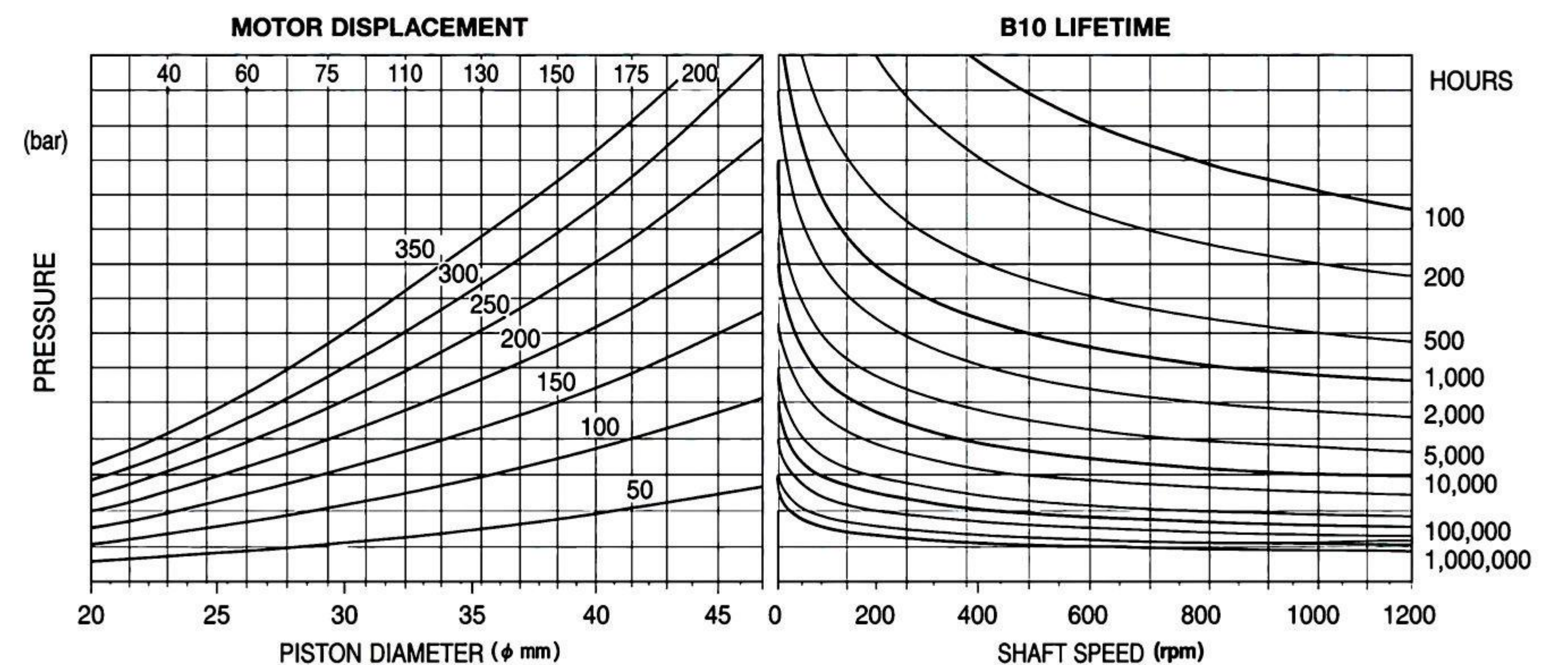
PERFORMANCE

The graphs indicate the typical performance characteristics of the 150 cc motor operating with mineral oil with viscosity 40 cSt at 50 °C.

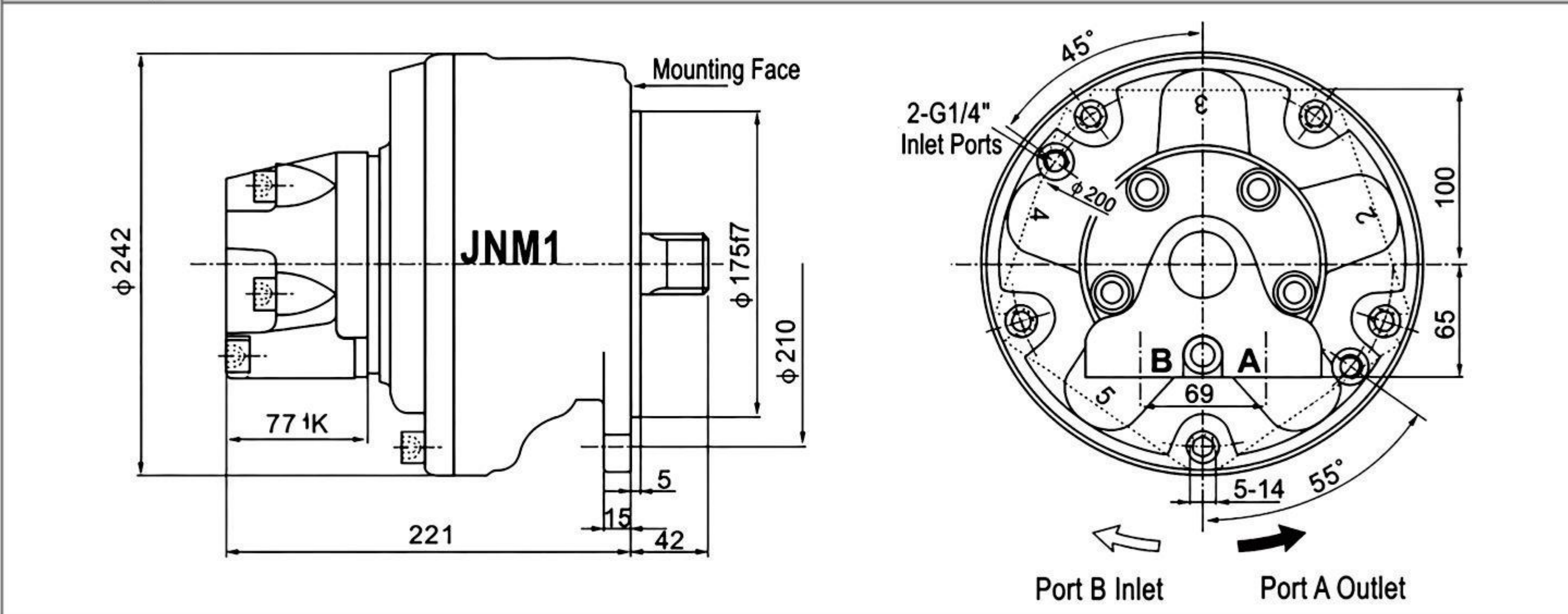


BEARING LIFETIME

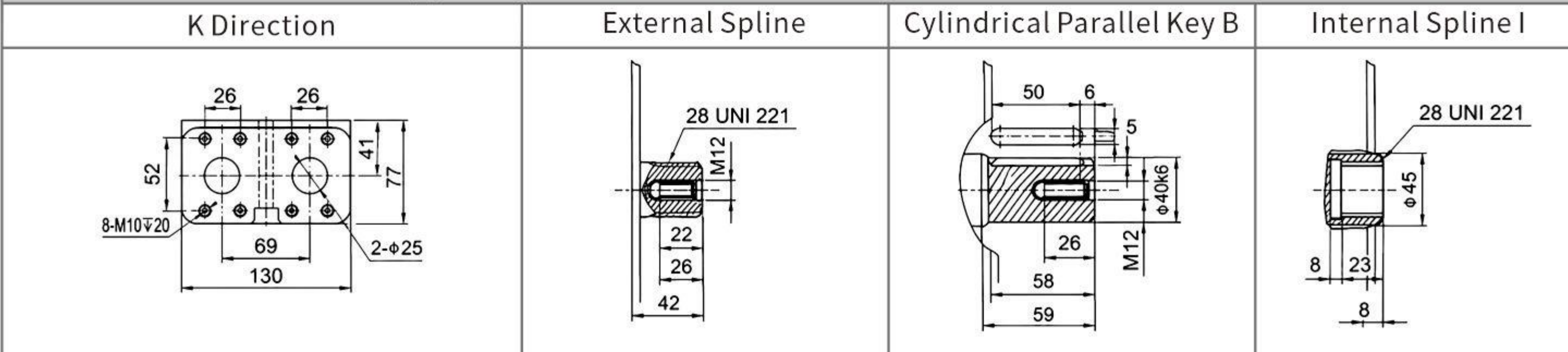
The graph refers to the motor with the optional roller bearings (option H) recommended for most applications. Note that the average lifetime of a bearing (B₅₀ lifetime) is approximately 5 times the B₁₀ lifetime.



JNM1 Hydraulic Motor Overall Dimensions and Technical Performance Table



JNM1 Shaft Extension Types



JNM1 Spline Parameters

35-2-16 DIN 5480		28 UNI 221(6-28-34) DIN 5463	
	d0 $\phi 32.0$ d1 $\phi 35.0^{+0.520}_{+0} H14$ d2 $\phi 31.0^{+0.160}_{+0} H11$ A $\phi 3.5$ da $\phi 27.711 H11$ d3 $\phi 34.6^{-0.160}_{-0} h11$ d4 $\phi 30.6^{-0.520}_{-0} h14$ B $\phi 4.0$ db $\phi 39.000 f8$		d1 $\phi 28.0^{+0.021}_{+0} H7$ d2 $\phi 34.1^{+0.160}_{+0} H11$ A $7.0^{+0.028}_{+0.013} F7$ d3 $\phi 28.0^{-0.007}_{-0.020} g6$ d4 $\phi 34.0^{-0.065}_{-0.160} h14$ B $7.0^{-0.013}_{-0.028} f7$

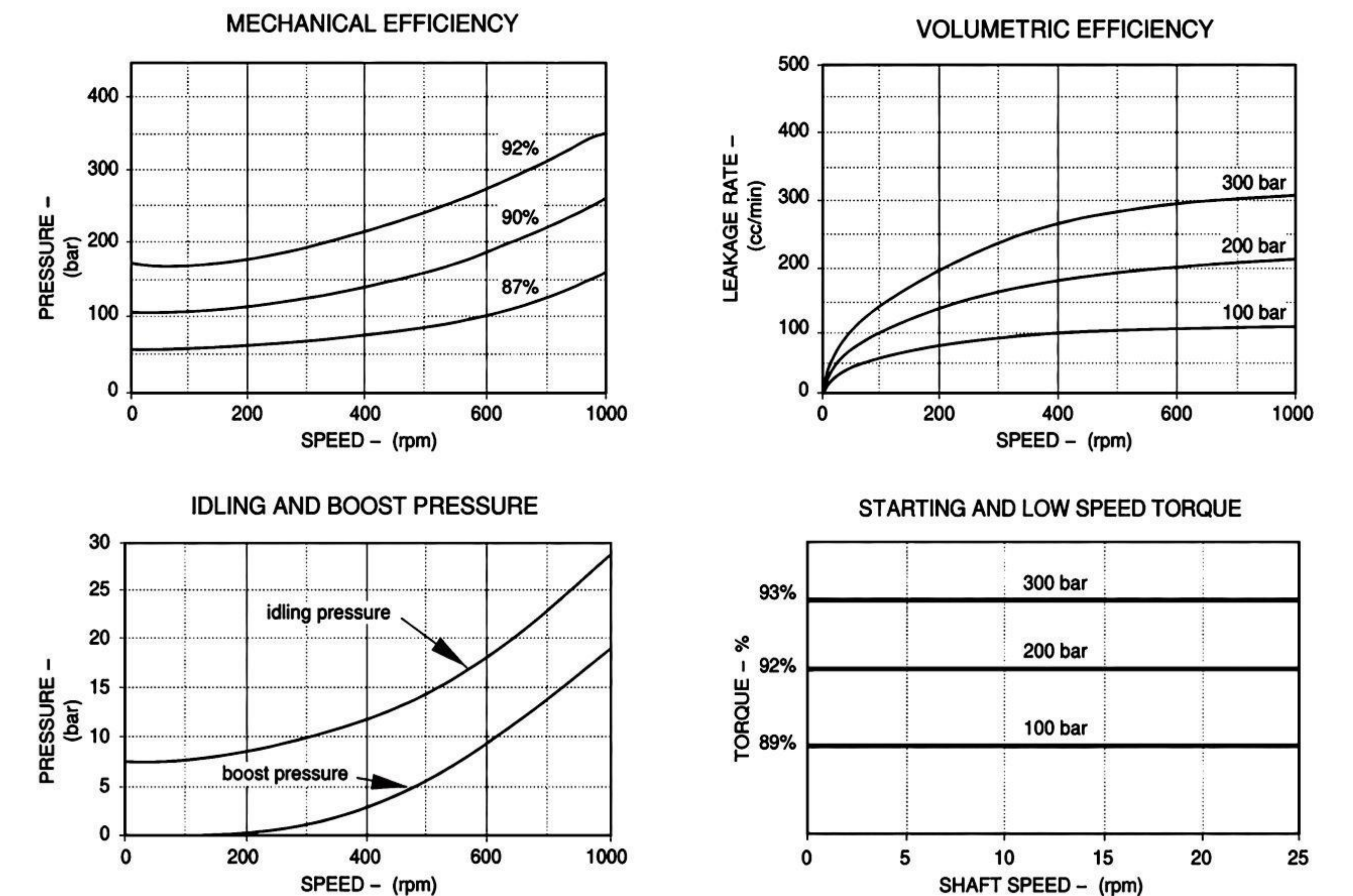
JNM1-100~350 Series Motor Technical Parameters

Technical Parameters	1-100	1-150	1-175	1-200	1-250	1-300	1-320	1-350
Theoretical Displacement (ml/r)	99	154	172	201	243	290	314	340
Rated Pressure (MPa)	25	25	25	25	25	25	25	20
Maximum Pressure (MPa)	42.5	40	37.5	35	35	30	28	25
Rated Torque (N.m)	385	600	670	785	950	1130	1225	1060
Unit Theoretical Torque (N.m/MPa)	15.4	24	26.8	31.4	38	45.2	49	53
Continuous Speed (r/min)	1~550	1~550	1~550	1~550	1~450	1~350	1~350	1~350
Maximum Speed (r/min)	1000	1000	900	800	700	650	600	550
Motor Weight (Kg)	31	31	31	31	31	31	31	31

JNM Series Hydraulic Motors

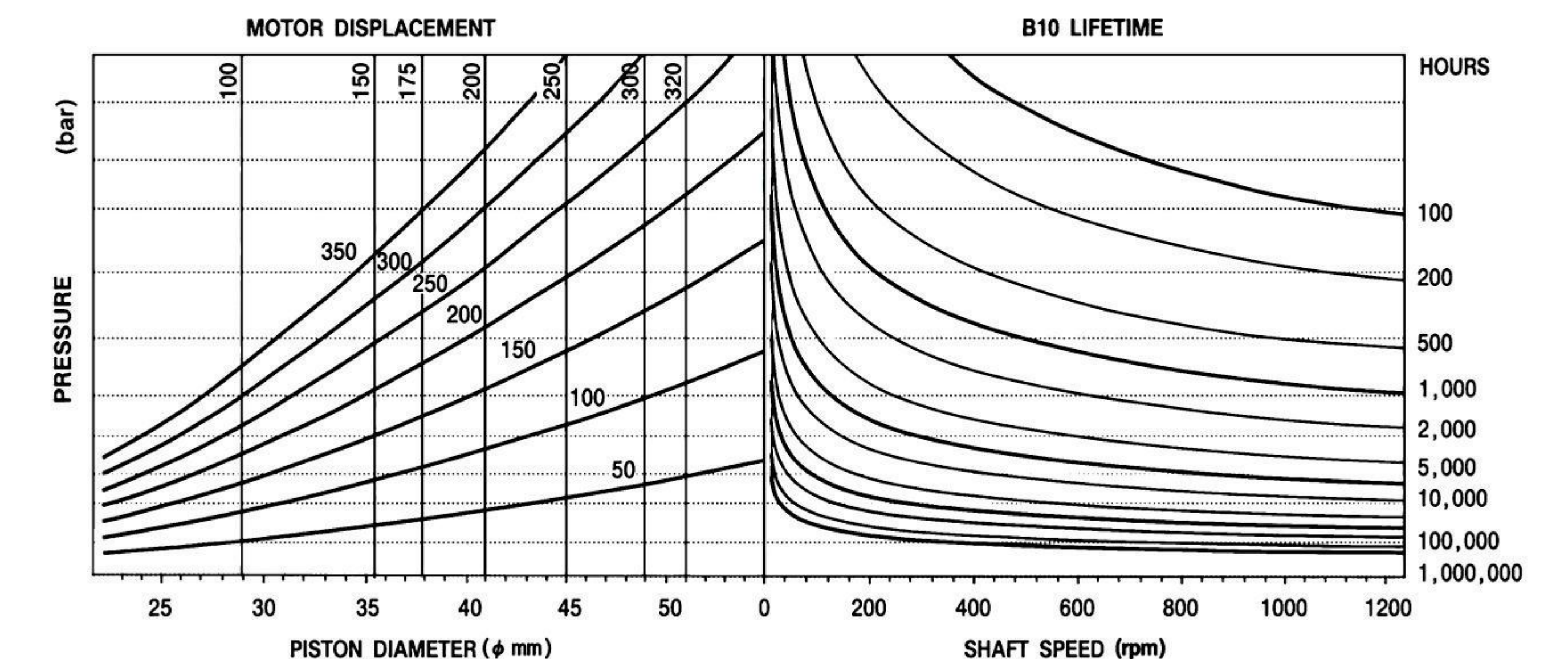
PERFORMANCE

The graphs indicate the typical performance characteristics of the 150 cc motor operating with mineral oil with viscosity 40 cSt at 50 °C.

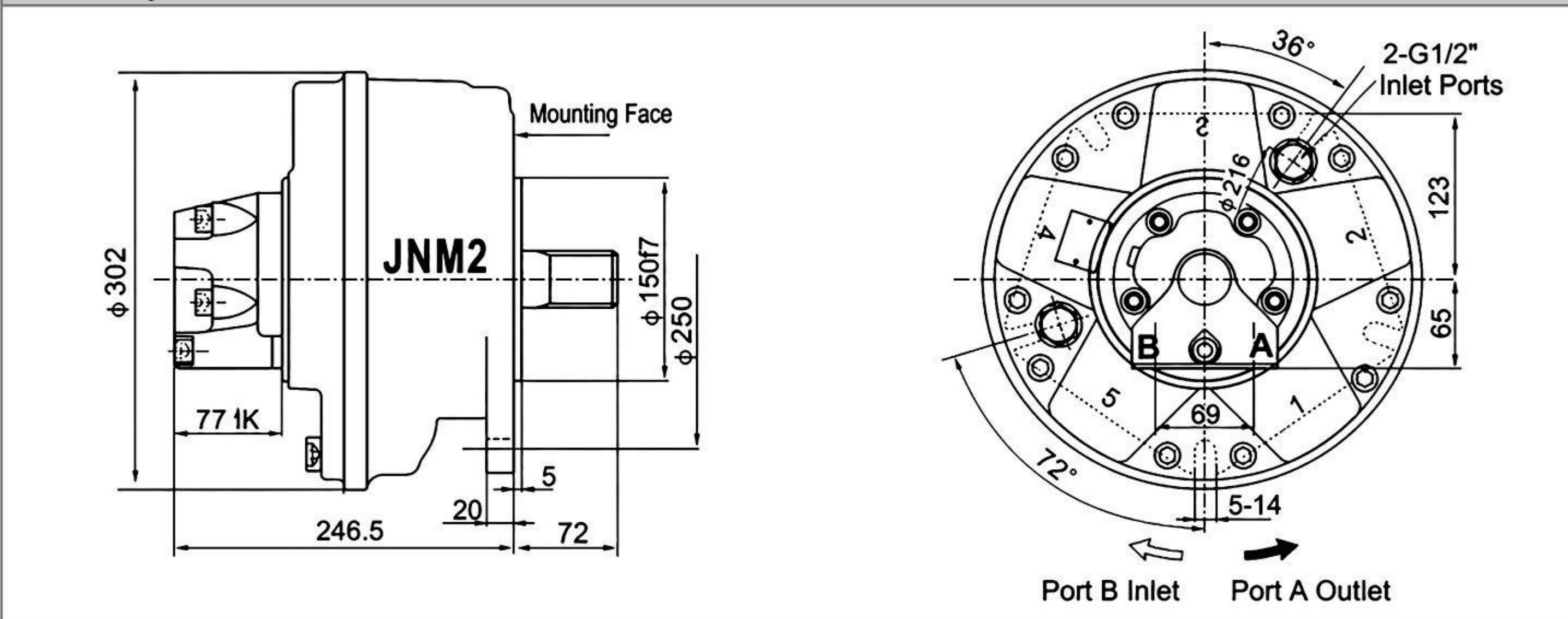


BEARING LIFETIME

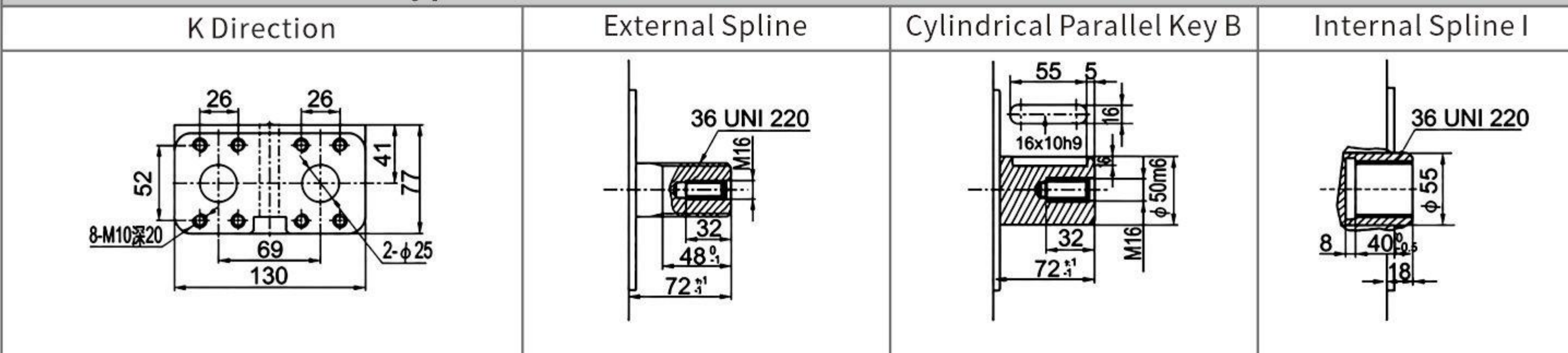
The graph refers to the motor with the optional roller bearings (option H) recommended for most applications. Note that the average lifetime of a bearing (B_{50} lifetime) is approximately 5 times the B_{10} lifetime.



JNM2 Hydraulic Motor Overall Dimensions and Technical Performance Table



JNM2 Shaft Extension Types



JNM2 Spline Parameters

40-3-12 DIN 5480		36 UNI 220(8-36-40) DIN 5462	
	d0 $\phi 36.0$ d1 $\phi 40.0^{+0.020}_{+0} H14$ d2 $\phi 34.0^{+0.160}_{+0} H11$ A $\phi 5.25$ da $\phi 28.964 H11$ d3 $\phi 39.4^{+0}_{-0.160} h11$ d4 $\phi 33.4^{+0}_{-0.620} h14$ B $\phi 6.0$ db $\phi 45.989 f8$		d1 $\phi 36.0^{+0.025}_{+0} H7$ d2 $\phi 40.0^{+0.160}_{+0} H11$ A $7.0^{+0.028}_{+0.013} F11$ d3 $\phi 36.0^{+0.009}_{-0.025} g6$ d4 $\phi 40.0^{+0.065}_{-0.160} d11$ B $7.0^{+0.013}_{-0.028} f7$

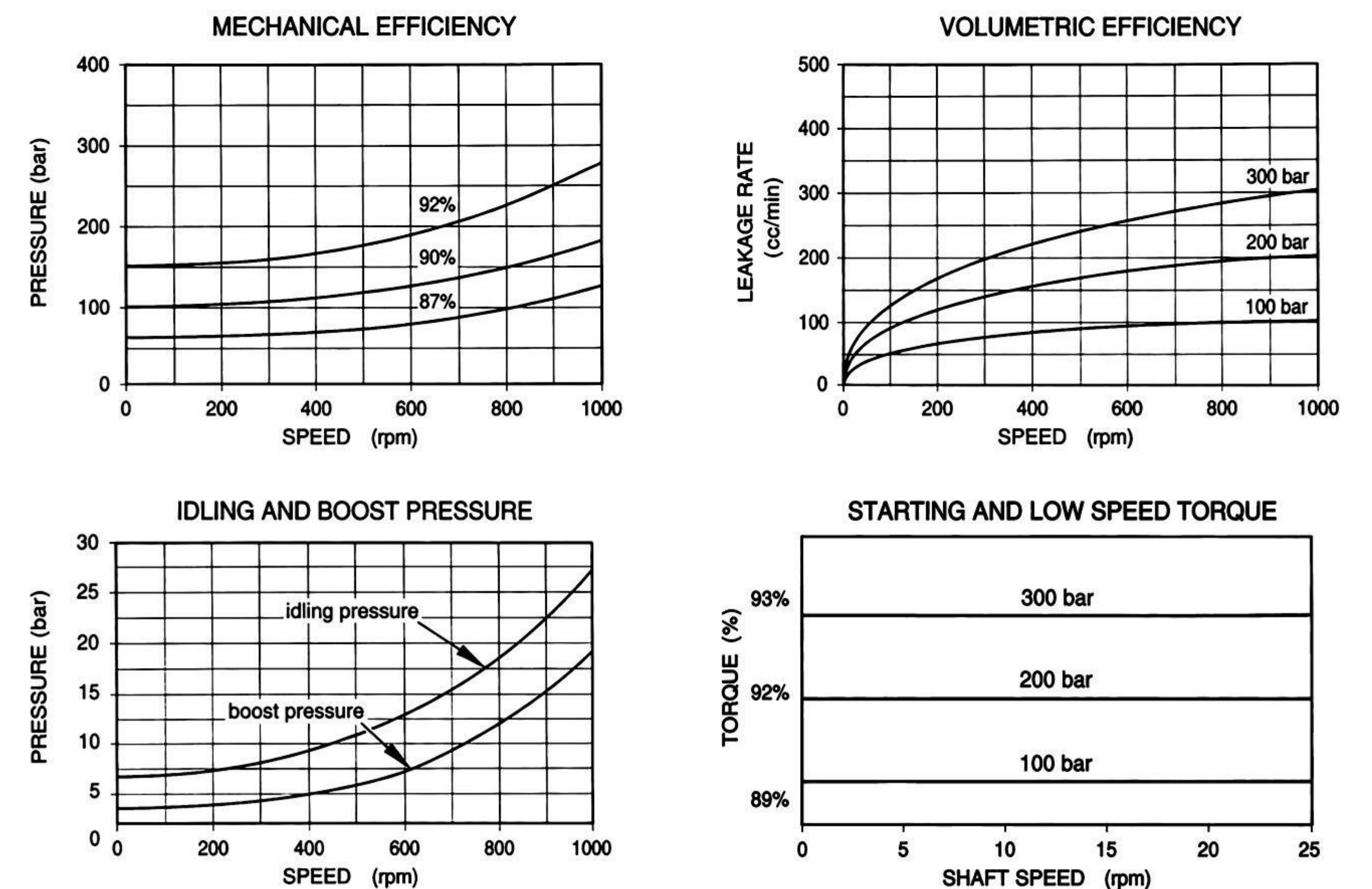
JNM2-200~630 Series Motor Technical Parameters

Technical Parameters	2-200	2-250	2-300	2-350	2-420	2-500	2-600	2-630
Theoretical Displacement (ml/r)	192	251	304	347	425	493	565	623
Rated Pressure (MPa)	25	25	25	25	25	25	25	25
Maximum Pressure (MPa)	42.5	42.5	40	37.5	35	35	30	28
Rated Torque (N·m)	750	980	1188	1355	1658	1923	2208	2433
Unit Theoretical Torque (N·m/MPa)	30	39.2	47.5	54.2	66.3	76.9	88.3	97.3
Continuous Speed (r/min)	0.7~550	0.7~550	0.7~500	0.7~500	0.7~450	0.7~450	0.7~450	0.7~400
Maximum Speed (r/min)	800	800	750	750	750	700	700	650
Motor Weight (Kg)	51	51	51	51	51	51	51	51

JNM Series Hydraulic Motors

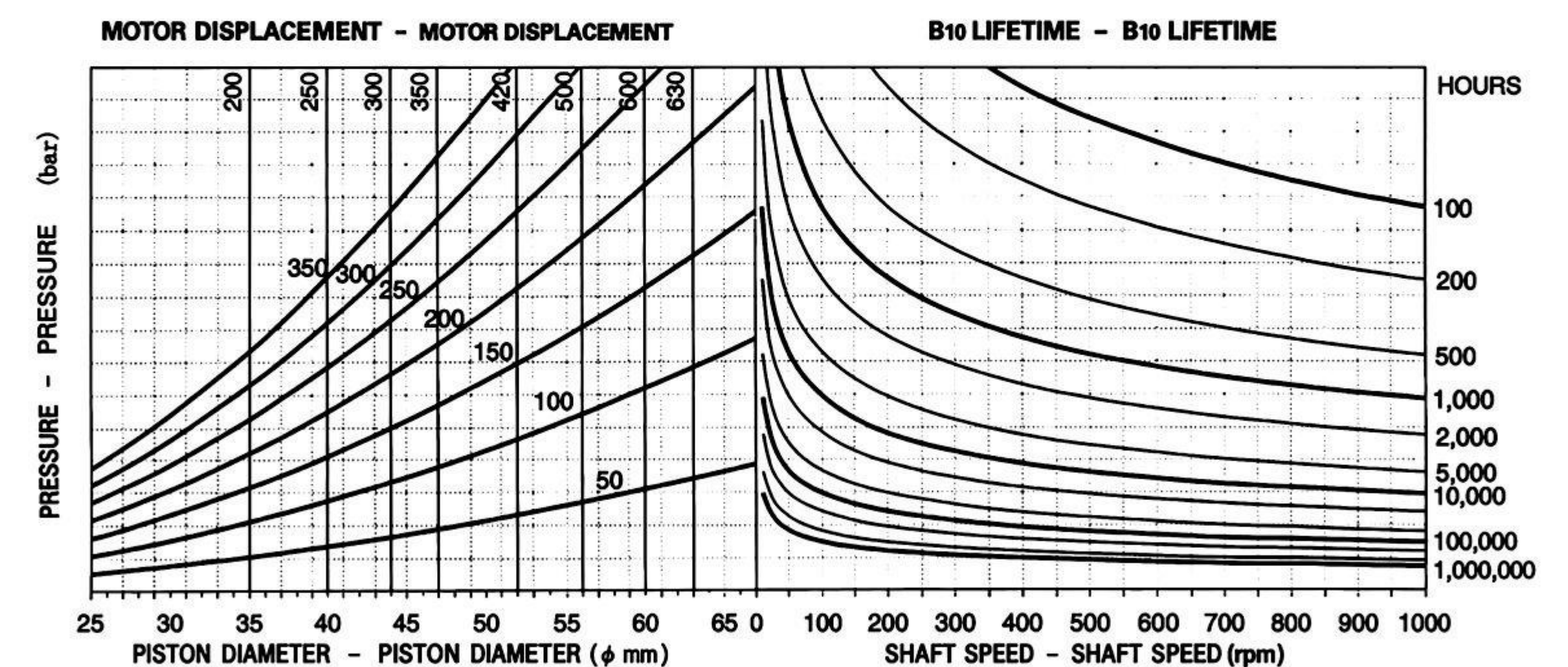
PERFORMANCE

The graphs indicate the typical performance characteristics of the 300cc motor operating with mineral oil with viscosity 40 cSt at 50 °C.

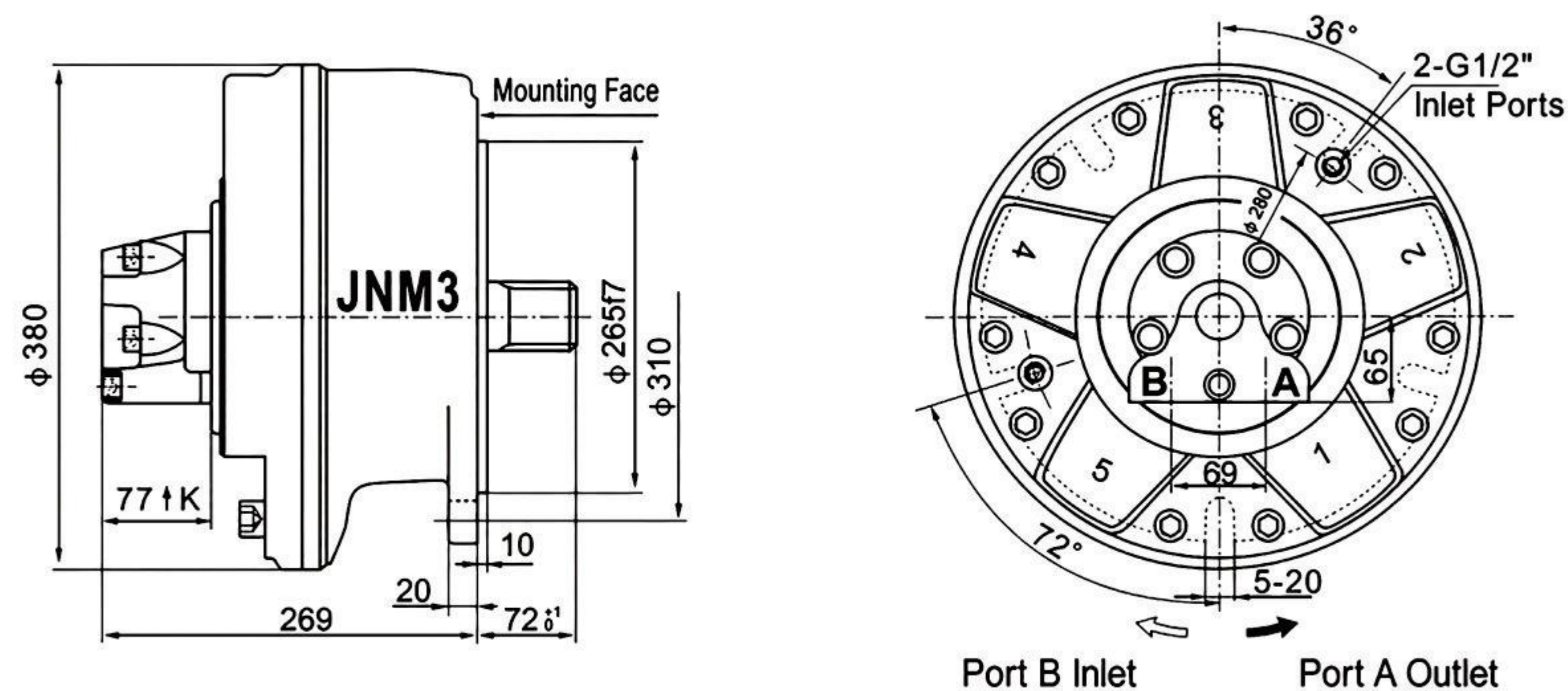


BEARING LIFETIME

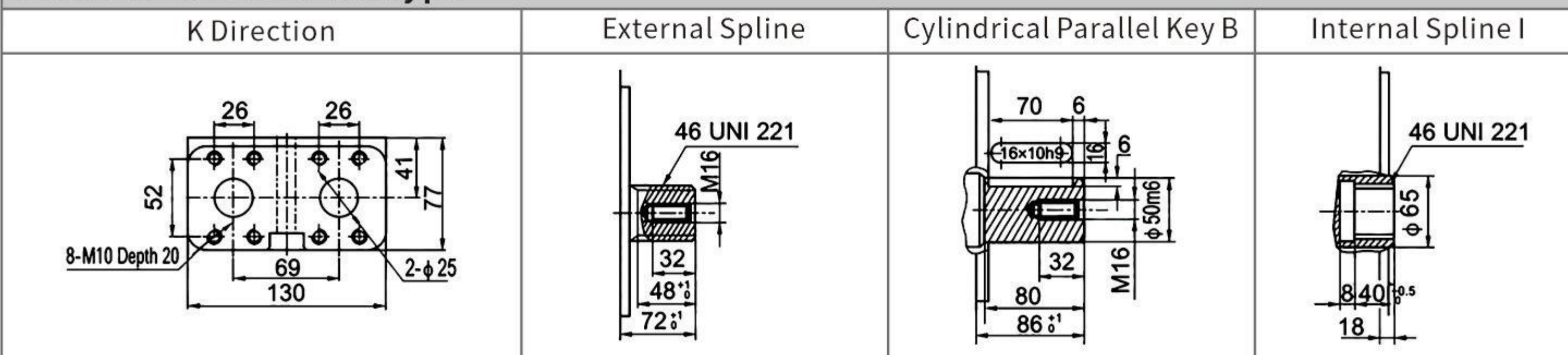
The graph refers to the motor with the standard roller bearings.
Note that the average lifetime of a bearing (B_{50} lifetime) is approximately 5 times the B_{10} lifetime.



JNM3 Hydraulic Motor Overall Dimensions and Technical Performance Table



JNM3 Shaft Extension Types



JNM3 Spline Parameters

40-3-12 DIN 5480		46 UNI 221(8-46-54) DIN 5463	
	d0	φ 36.0	
	d1	φ 40.0 ^{+0.620} / ₊₀ H14	d1 φ 46.0 ^{+0.030} / ₊₀ H7
	d2	φ 34.0 ^{+0.160} / ₊₀ H11	d2 φ 54.0 ^{+0.190} / ₊₀ H11
	A	φ 5.25	A 9.0 ^{+0.028} / _{+0.013} F7
	da	φ 28.964 H11	d3 φ 46.0 ^{-0.009} / _{-0.025} g6
	d3	φ 39.4 ⁻⁰ / _{-0.160} h11	d4 φ 54.0 ^{-0.100} / _{-0.290} d11
	d4	φ 33.4 ⁻⁰ / _{-0.620} h14	B 9.0 ^{-0.013} / _{-0.028} f7
	B	φ 6.0	
	db	φ 45.989 f8	

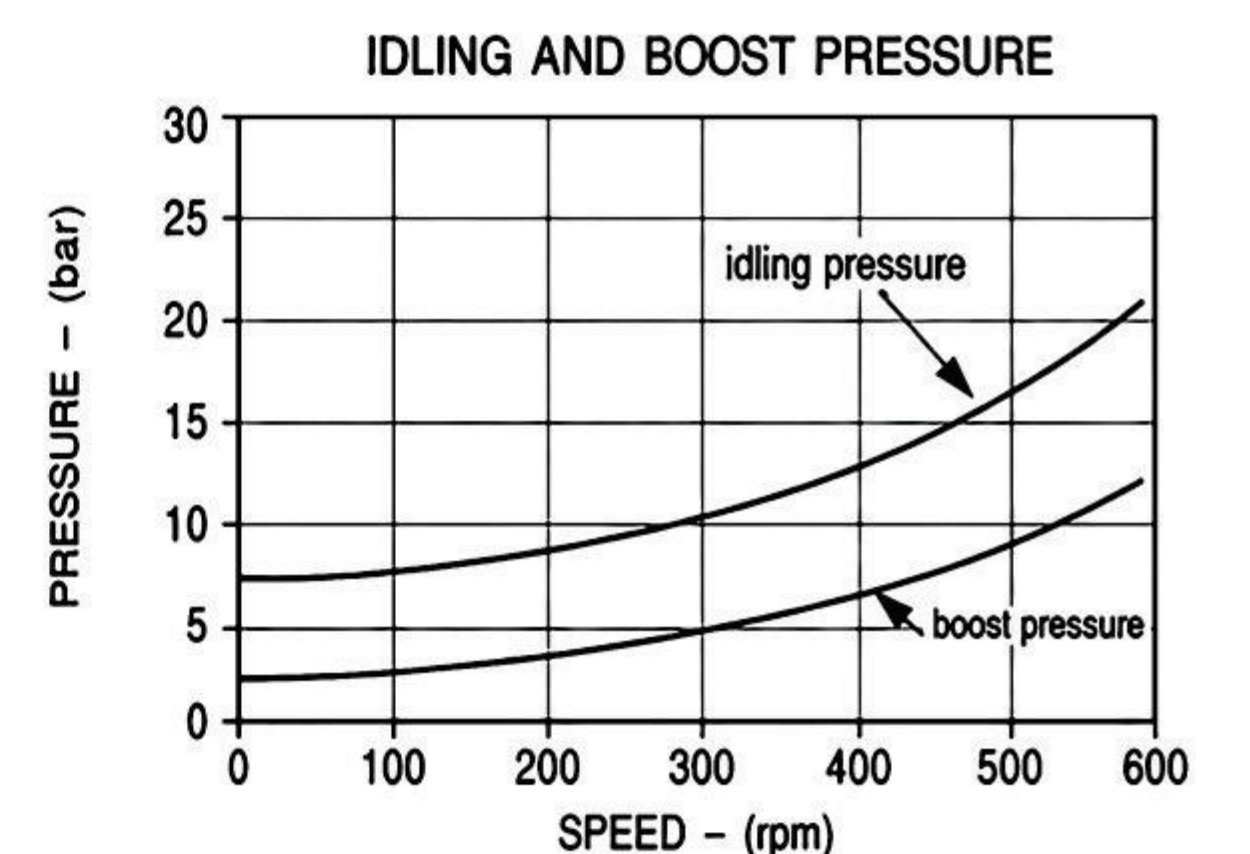
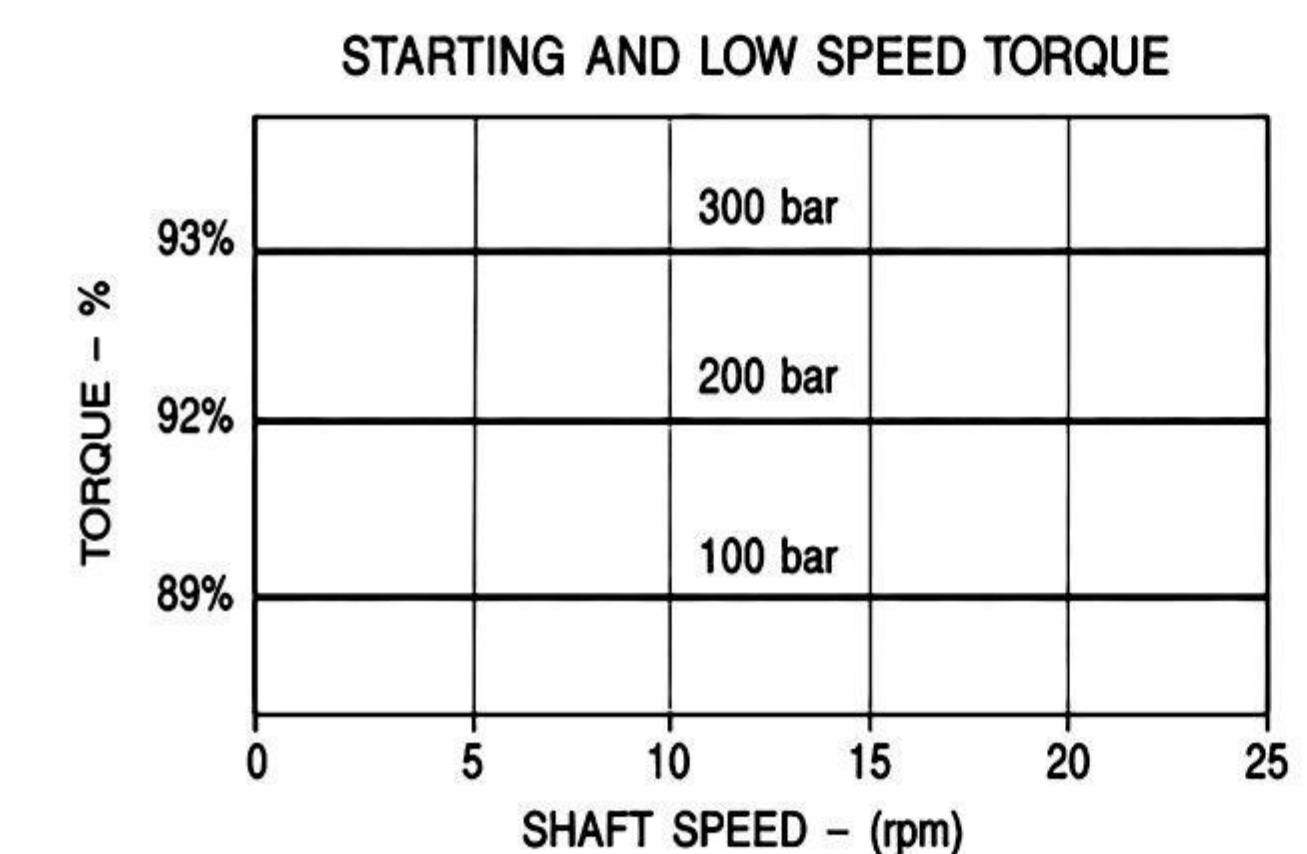
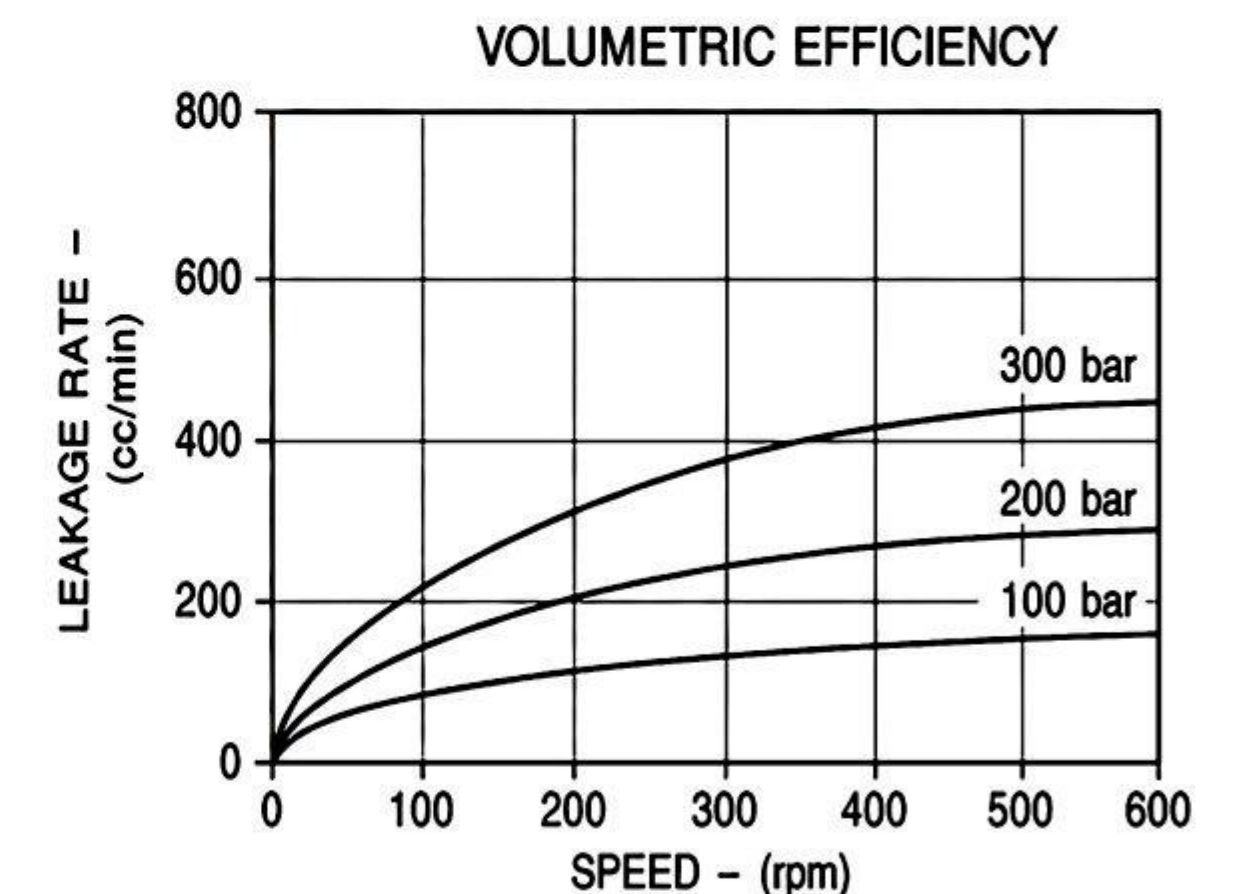
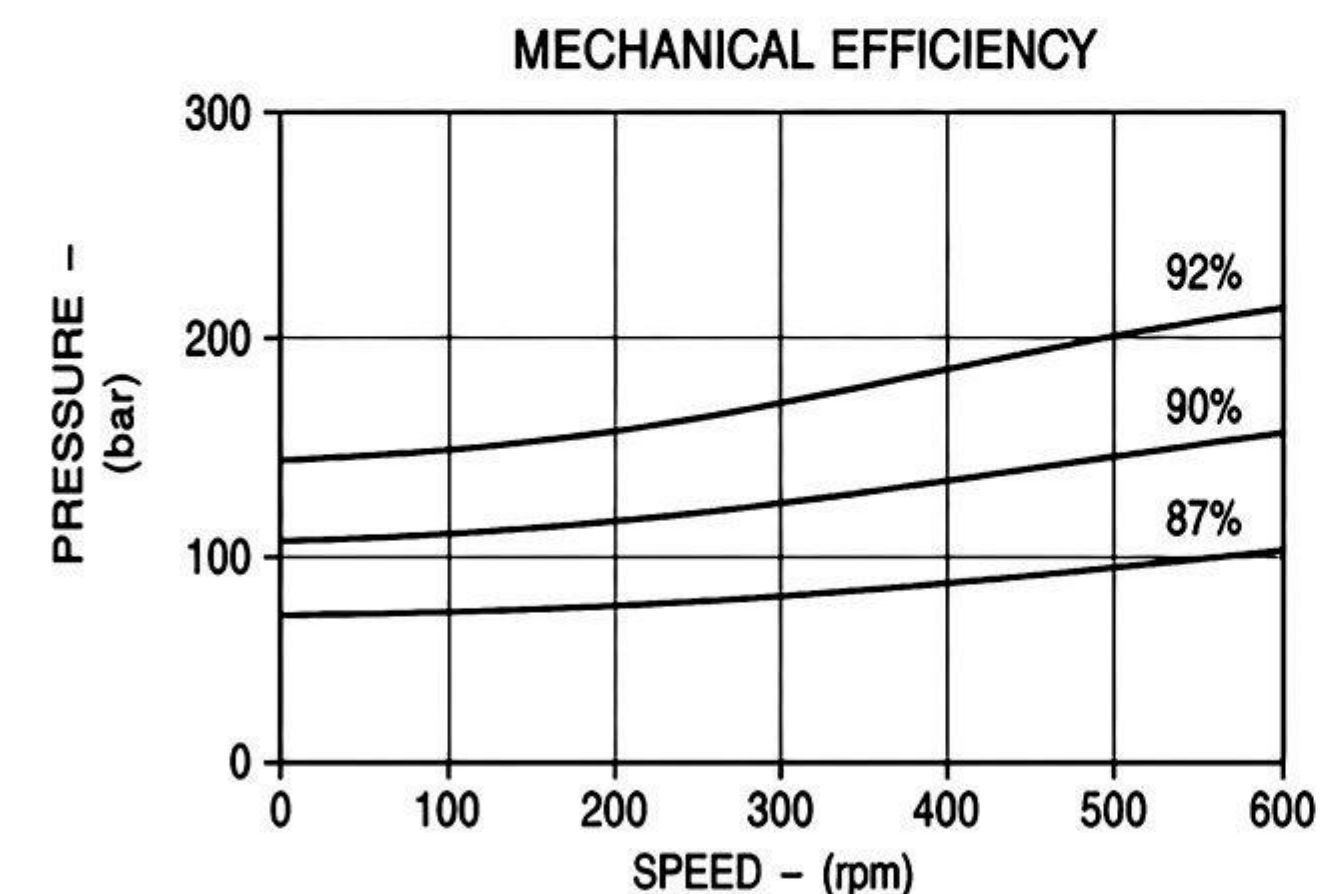
JNM3-425~1000 Series Motor Technical Parameters

Technical Parameters	3-425	3-500	3-600	3-700	3-800	3-900	3-1000
Theoretical Displacement (ml/r)	426	486	595	690	792	873	987
Rated Pressure (MPa)	25	25	25	25	25	25	25
Maximum Pressure (MPa)	42.5	42.5	40	35	35	35	28
Rated Torque (N.m)	1660	1895	2320	2700	3100	3400	3850
Unit Theoretical Torque (N.m/MPa)	66.4	75.8	92.8	108	124	136	154
Continuous Speed (r/min)	0.5~500	0.5~450	0.5~450	0.5~400	0.5~350	0.5~300	0.5~300
Maximum Speed (r/min)	650	600	575	500	500	400	350
Motor Weight (Kg)	87	87	87	87	87	87	87

JNM Series Hydraulic Motors

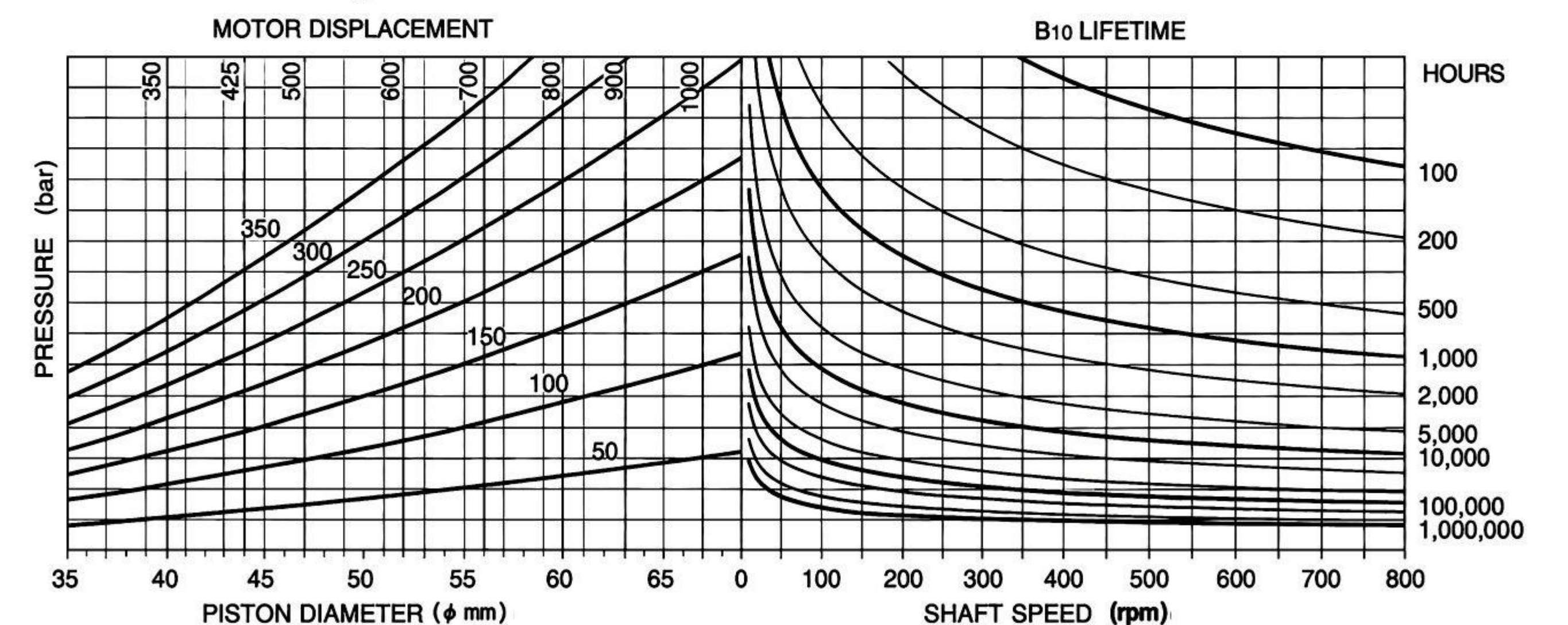
PERFORMANCE

The graphs indicate the typical performance characteristics of the 600cc motor operating with mineral oil with viscosity 40 cSt at 50 °C.

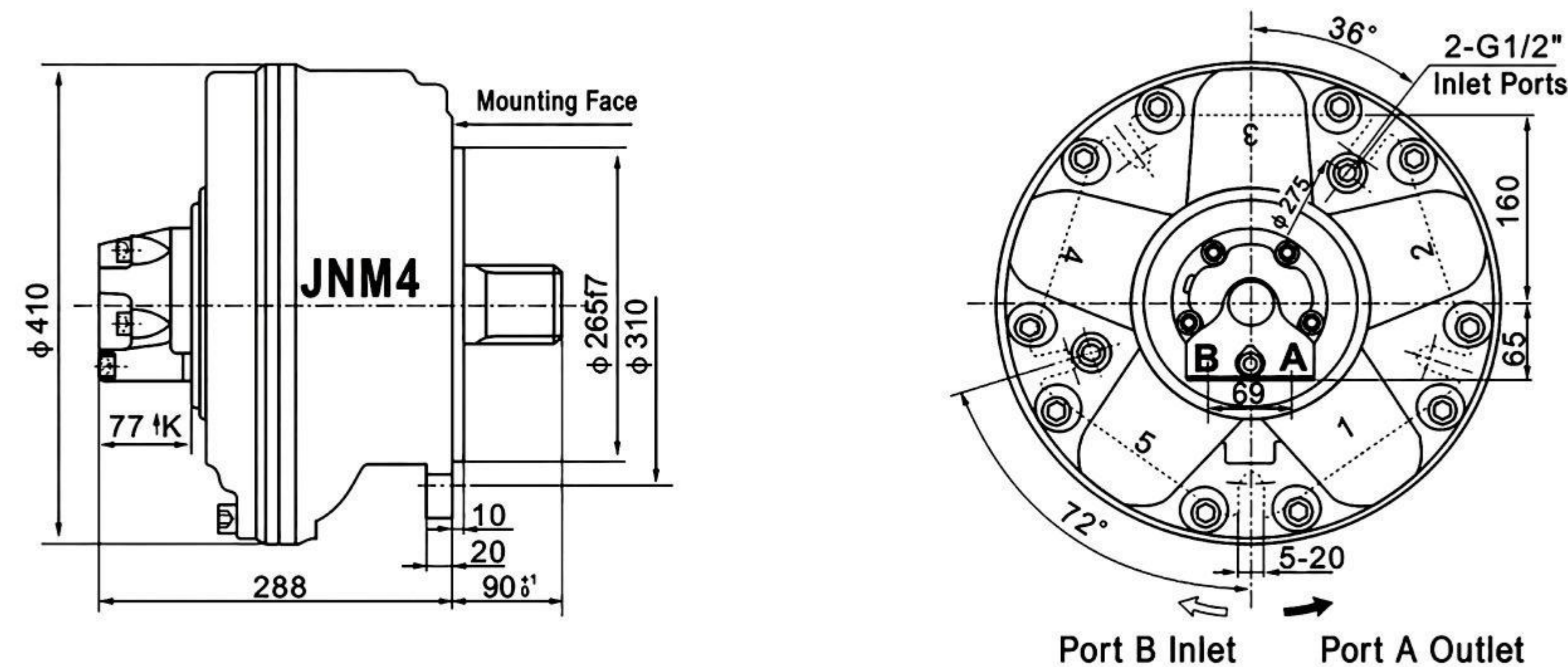


BEARING LIFETIME

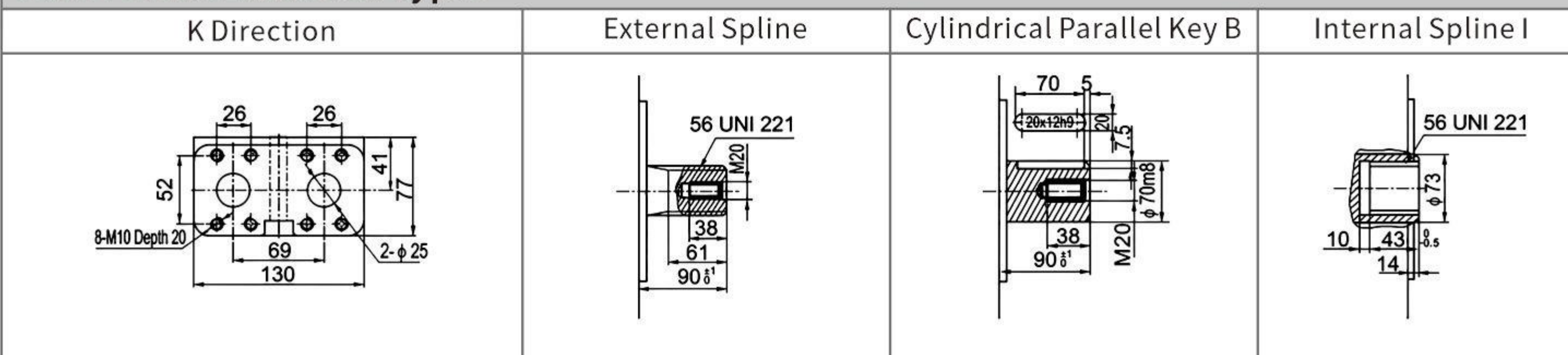
The graph refers to the motor with the standard roller bearings.
Note that the average lifetime of a bearing (B₅₀ lifetime) is approximately 5 times the B₁₀ lifetime.



JNM4 Hydraulic Motor Overall Dimensions and Technical Performance Table



JNM4 Shaft Extension Types



JNM4 Spline Parameters

65-3-20 DIN 5480		56 UNI221(8-56-65)	
	d0	φ 60.0	
	d1	φ 65.0 ^{+0.740} ₊₀ H14	
	d2	φ 59.0 ^{+0.190} ₊₀ H11	
	A	φ 5.25	
	da	φ 54.101 H11	
	d3	φ 64.4 ⁻⁰ _{-0.190} h11	
	d4	φ 58.4 ⁻⁰ _{-0.740} h14	
	B	φ 6.0	
	db	φ 70.999 f8	
	d1	φ 56.0 ^{+0.030} ₊₀ H7	
	d2	φ 65.0 ^{+0.190} ₊₀ H11	
	A	φ 10.0 ^{+0.028} _{+0.013} F7	
	d3	φ 56.0 ^{-0.010} _{-0.029} g6	
	d4	φ 65.0 ^{-0.100} _{-0.190} d11	
	B	10.0 ^{-0.028} _{-0.013} f7	

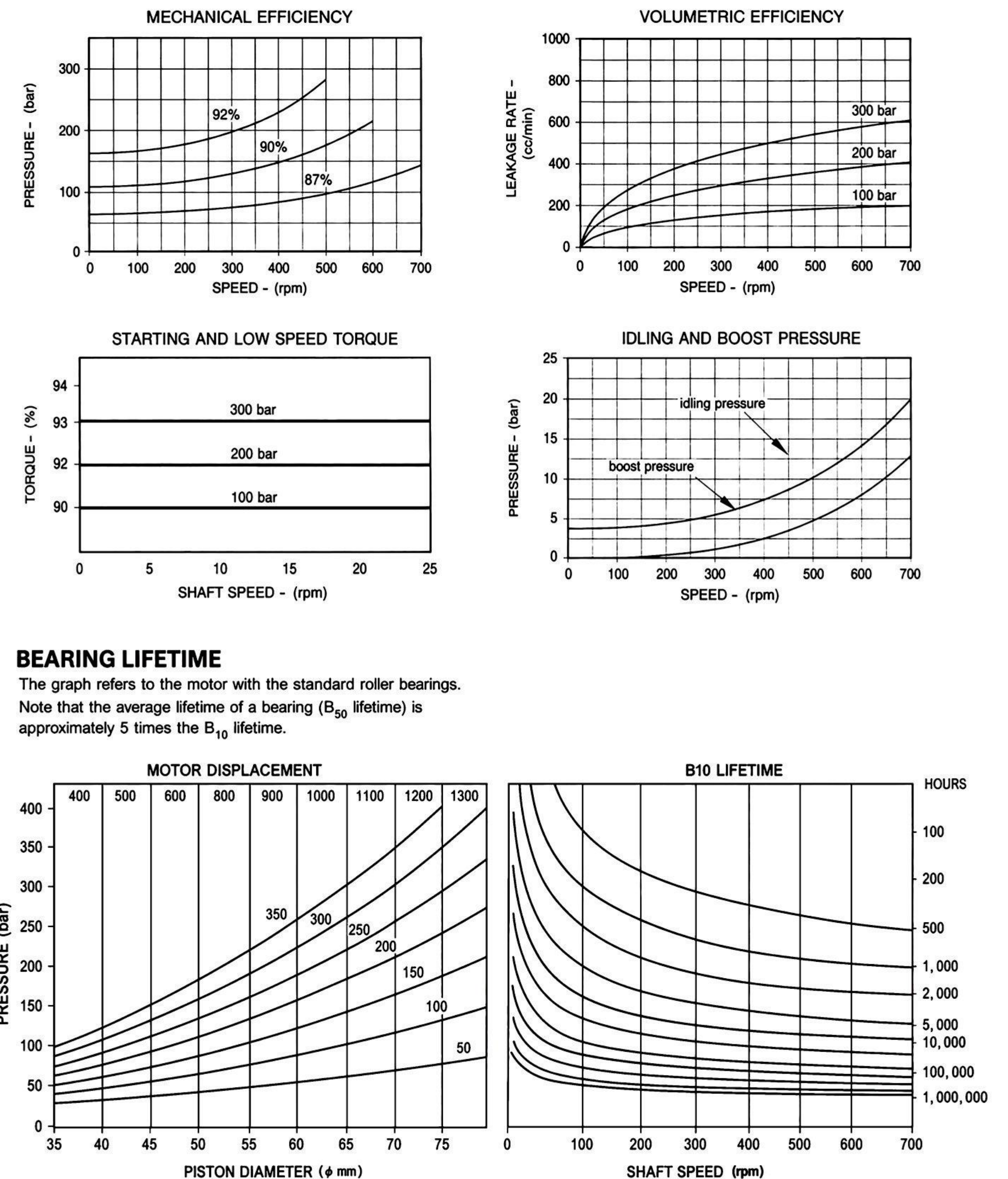
JNM4~600~1300 Series Motor Technical Parameters

Technical Parameters	4-600	4-800	4-900	4-1000	4-1100	4-1300
Theoretical Displacement (ml/r)	616	793	904	1022	1116	1316
Rated Pressure (MPa)	25	25	25	25	25	25
Maximum Pressure (MPa)	40	40	37.5	35	35	28
Rated Torque (N·m)	2403	3100	3525	4000	4350	5125
Unit Theoretical Torque (N·m/MPa)	96.1	124	141	160	174	205
Continuous Speed (r/min)	0.4~400	0.4~350	0.4~325	0.4~300	0.4~275	0.4~225
Maximum Speed (r/min)	550	550	450	400	400	350
Motor Weight (Kg)	120	120	120	120	120	120

JNM Series Hydraulic Motors

PERFORMANCE

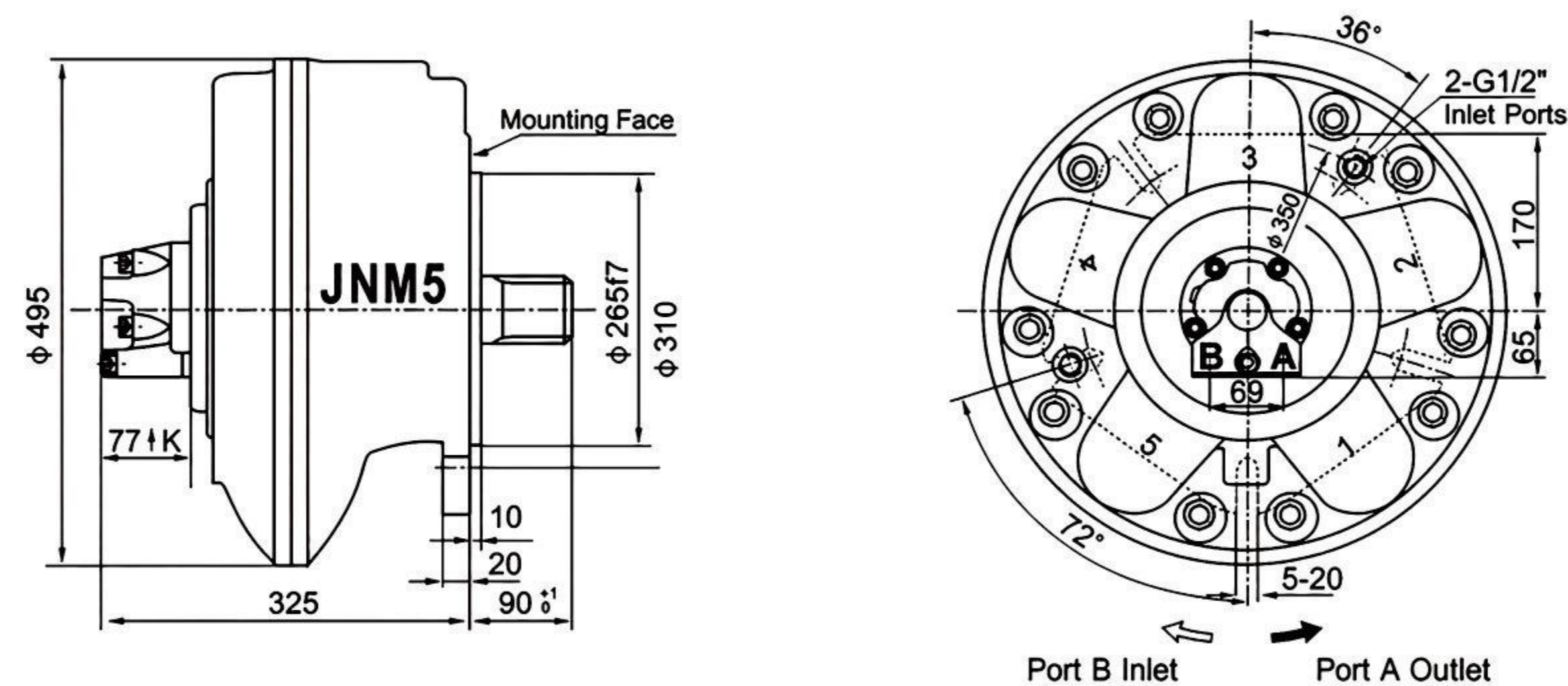
The graphs indicate the typical performance characteristics of the 900 cc motor operating with mineral oil with viscosity 40 cSt at 50 °C.



BEARING LIFETIME

The graph refers to the motor with the standard roller bearings. Note that the average lifetime of a bearing (B₅₀ lifetime) is approximately 5 times the B₁₀ lifetime.

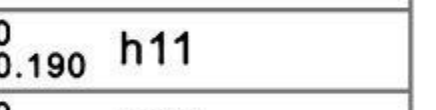
JNM5 Hydraulic Motor Overall Dimensions and Technical Performance Table



JNM5 Shaft Extension Types

K Direction	External Spline	Cylindrical Parallel Key B	Internal Spline I

JNM5 Spline Parameters

65-3-20 DIN 5480		56 UNI221(8-56-65)	
DIN 	d0	$\phi\ 60.0$	
	d1	$\phi\ 65.0^{+0.740}_{+0}\ H14$	
	d2	$\phi\ 59.0^{+0.190}_{+0}\ H11$	
	A	$\phi\ 5.25$	
	da	$\phi\ 54.101\ H11$	
	d3	$\phi\ 64.4^{-0}_{-0.190}\ h11$	
	d4	$\phi\ 58.4^{-0}_{-0.740}\ h14$	
	B	$\phi\ 6.0$	
	db	$\phi\ 70.999\ f8$	
	d1	$\phi\ 56.0^{+0.030}_{+0}\ H7$	
	d2	$\phi\ 65.0^{+0.190}_{+0}\ H11$	
	A	$\phi\ 10.0^{+0.028}_{+0.013}\ F7$	
	d3	$\phi\ 56.0^{-0.010}_{-0.029}\ g6$	
	d4	$\phi\ 65.0^{-0.100}_{-0.190}\ d11$	
	B	$10.0^{-0.028}_{-0.013}\ f7$	

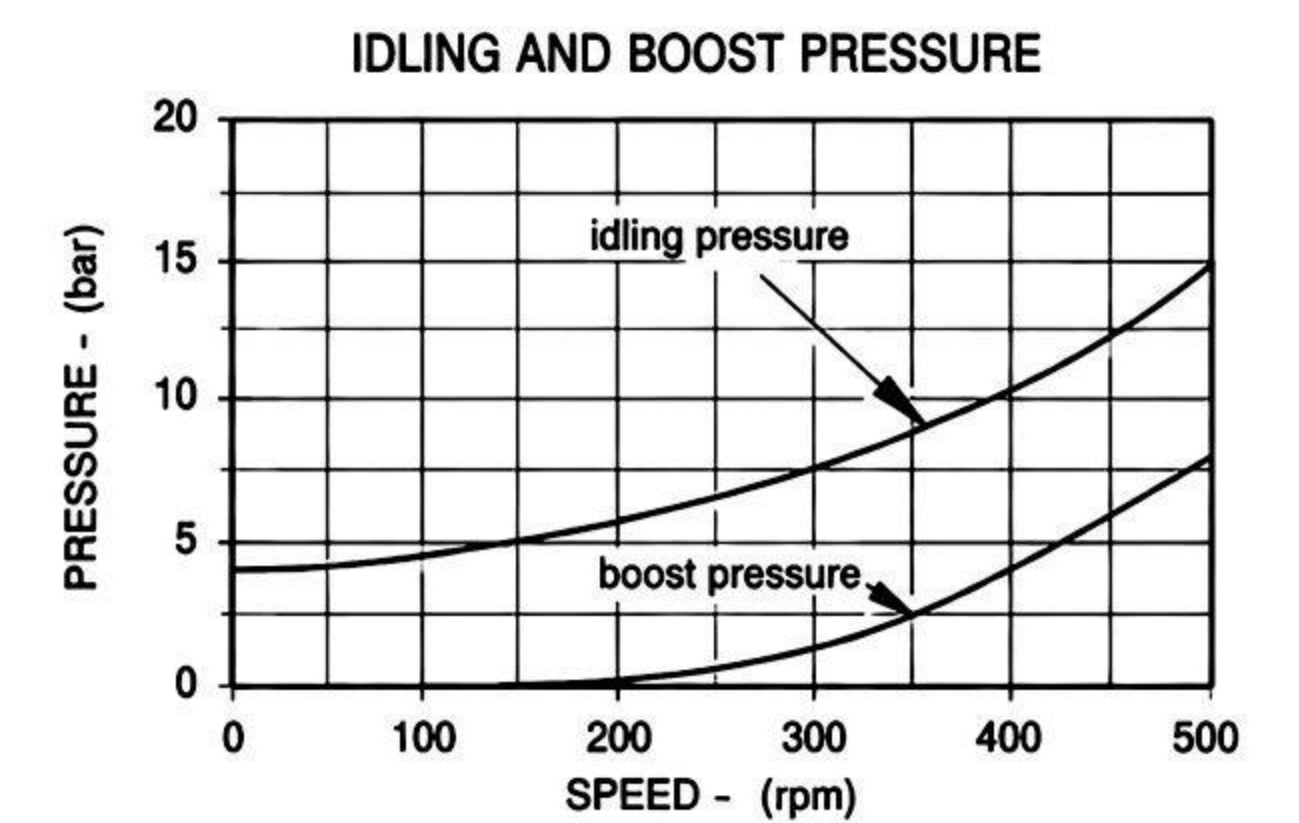
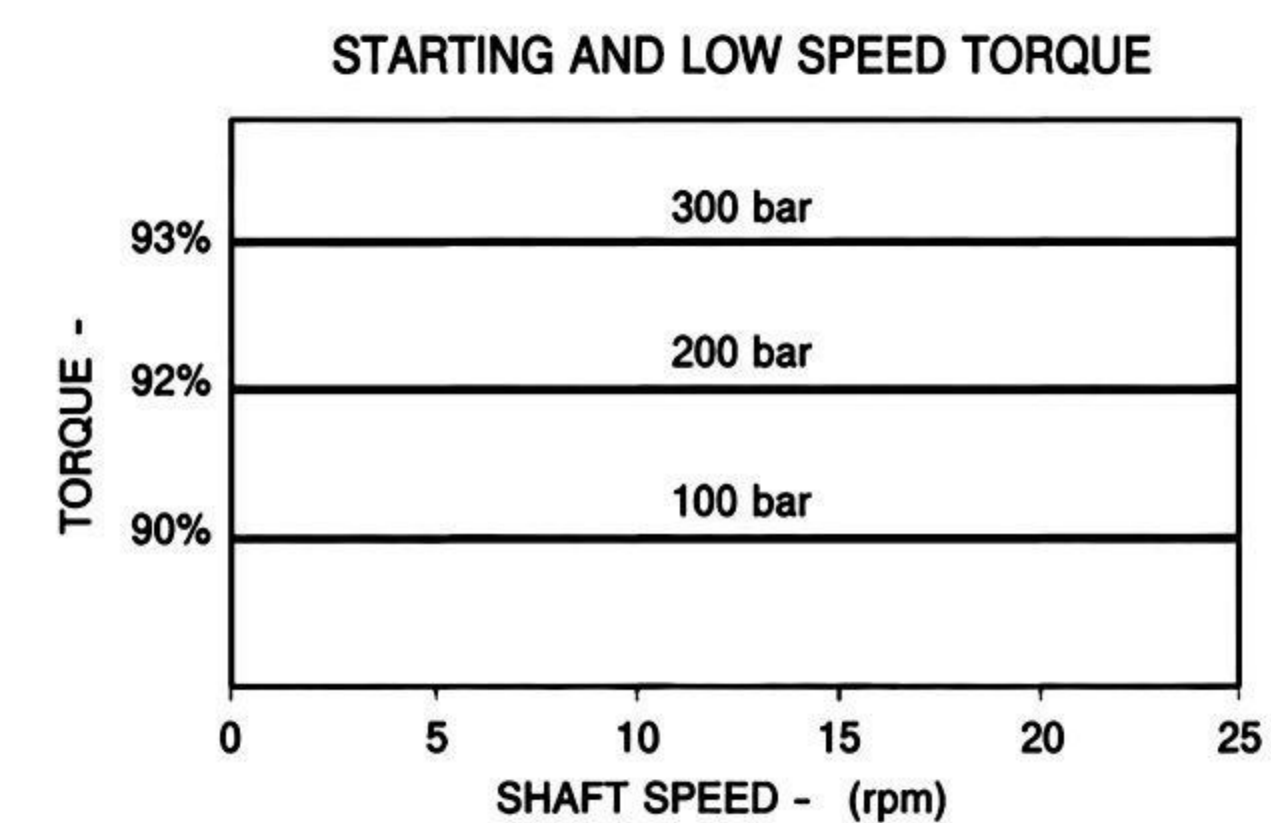
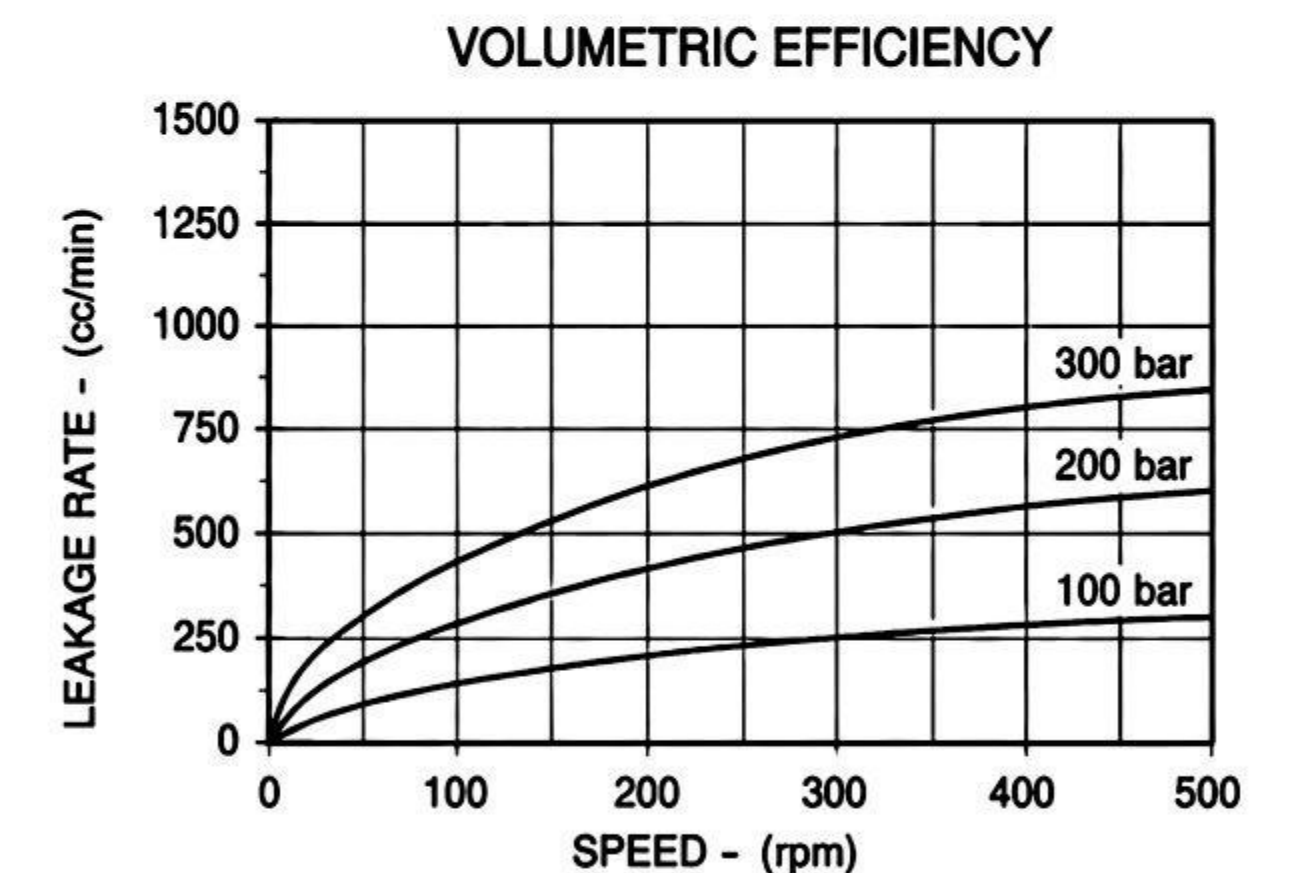
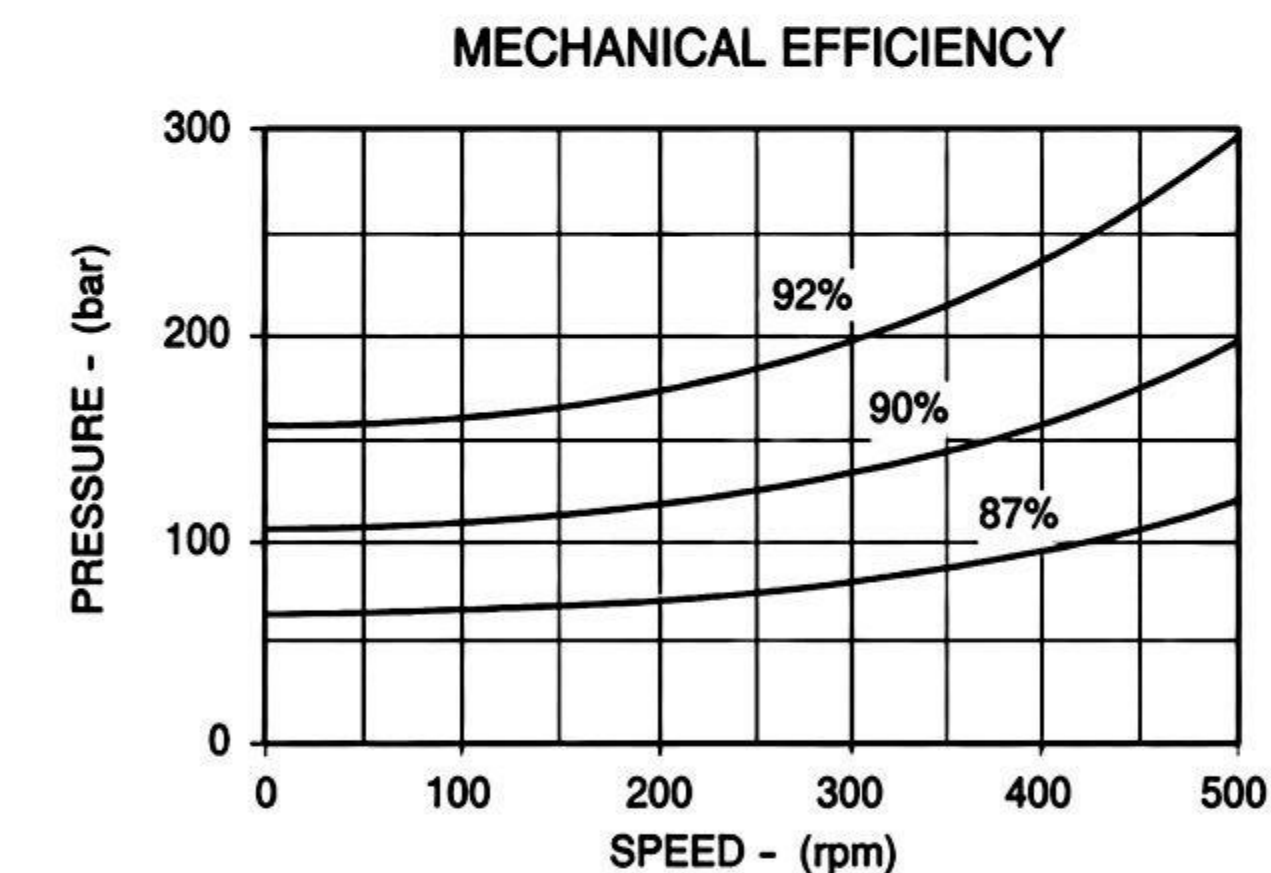
JNM5-800~2000 Series Motor Technical Parameters

Technical Parameters	5-800	5-1000	5-1200	5-1300	5-1450	5-1600	5-1800	5-2000
Theoretical Displacement (ml/r)	807	1039	1185	1340	1462	1634	1816	2007
Rated Pressure (MPa)	25	25	25	25	25	25	25	25
Maximum Pressure (MPa)	42.5	42.5	40	40	37.5	37.5	35	35
Rated Torque (N·m)	3150	4050	4625	5225	5700	6350	7075	7825
Unit Theoretical Torque (N·m/MPa)	126	162	185	209	228	254	283	313
Continuous Speed (r/min)	0.3~325	0.3~300	0.3~300	0.3~300	0.3~275	0.3~250	0.3~250	0.3~200
Maximum Speed (r/min)	450	450	400	400	350	300	300	250
Motor Weight (Kg)	175	175	175	175	175	175	175	175

JNM Series Hydraulic Motors

PERFORMANCE

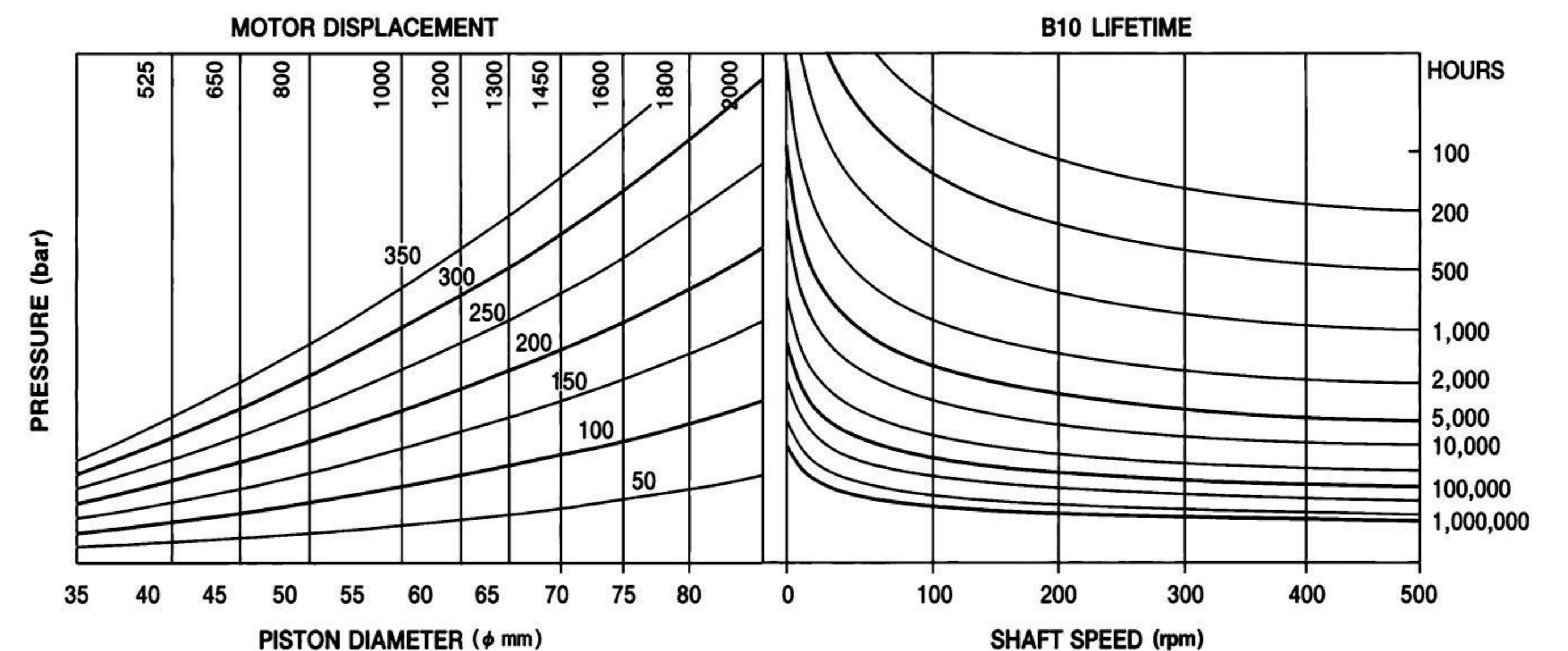
The graphs indicate the typical performance characteristics of the **1200cc** motor operating with mineral oil with viscosity 40 cSt at 50 °C.



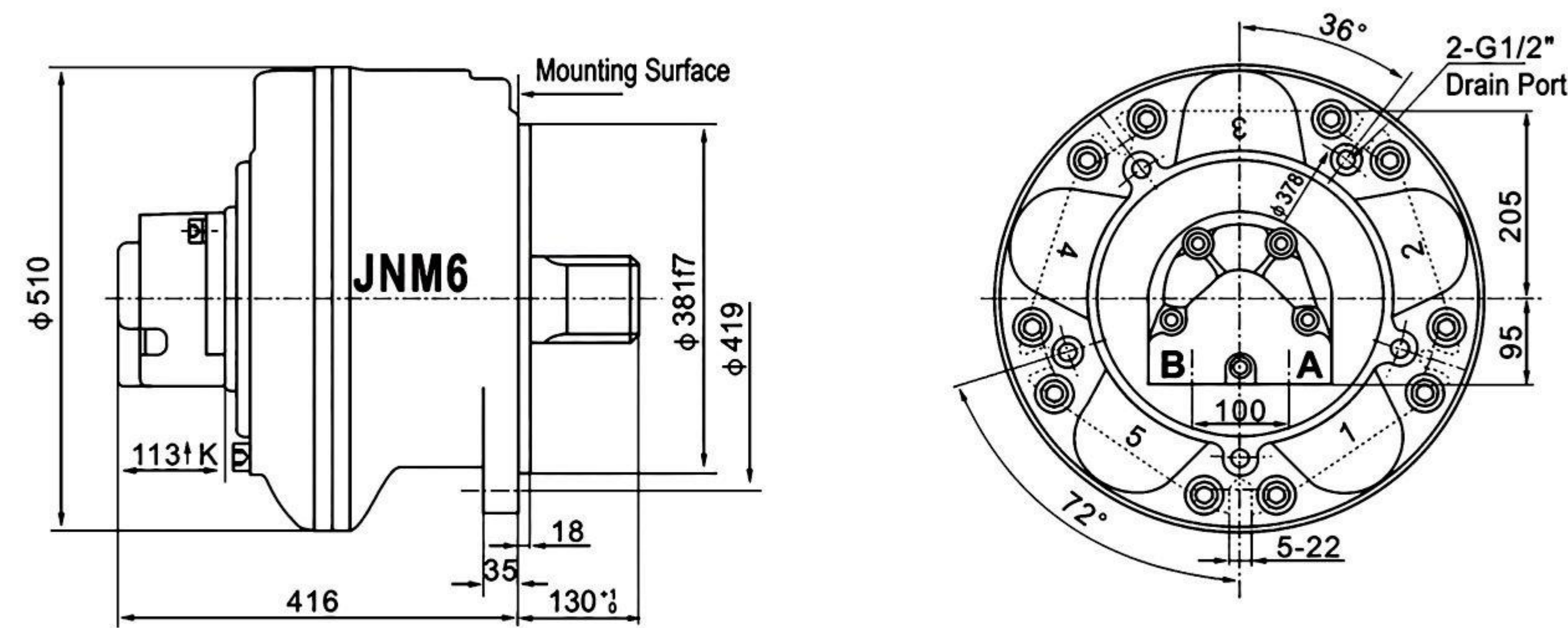
BEARING LIFETIME

The graph refers to the motor with the standard roller bearings.

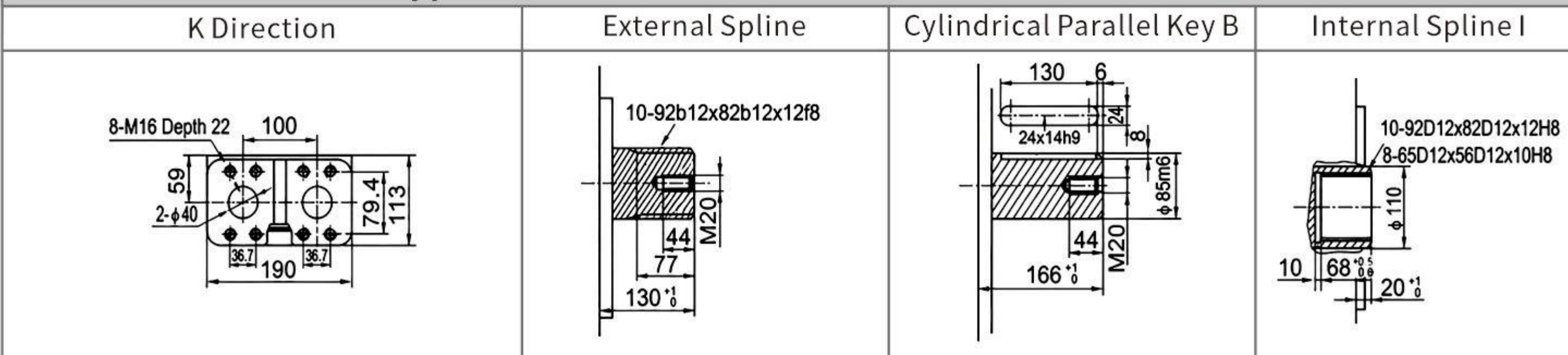
Note that the average lifetime of a bearing (B_{50} lifetime) is approximately 5 times the B_{10} lifetime.



JNM6 Hydraulic Motor Overall Dimensions and Technical Performance Table



JNM6 Shaft Extension Types



JNM6 Spline Parameters

DIN	A	B
80-3-25 DIN 5480		
do	φ 75.0	A φ 88.0 ^{+0.047} _{-0.170}
d1	φ 80.0 ^{+0.070} ₊₀ H14	B φ 84.6
d2	φ 74.0 ^{+0.190} ₊₀ H11	C φ 80.0 ^{+0.480} _{-0.070}
A	φ 5.25	D φ 97.0 ^{+0.082} _{+0.030}
da	φ 68.900 H9	E φ 8.12
d3	φ 79.4 ⁺⁰ _{-0.190} h11	
d4	φ 73.4 ⁺⁰ _{-0.070} h14	
B	φ 6.0	
db	φ 85.9 f8	

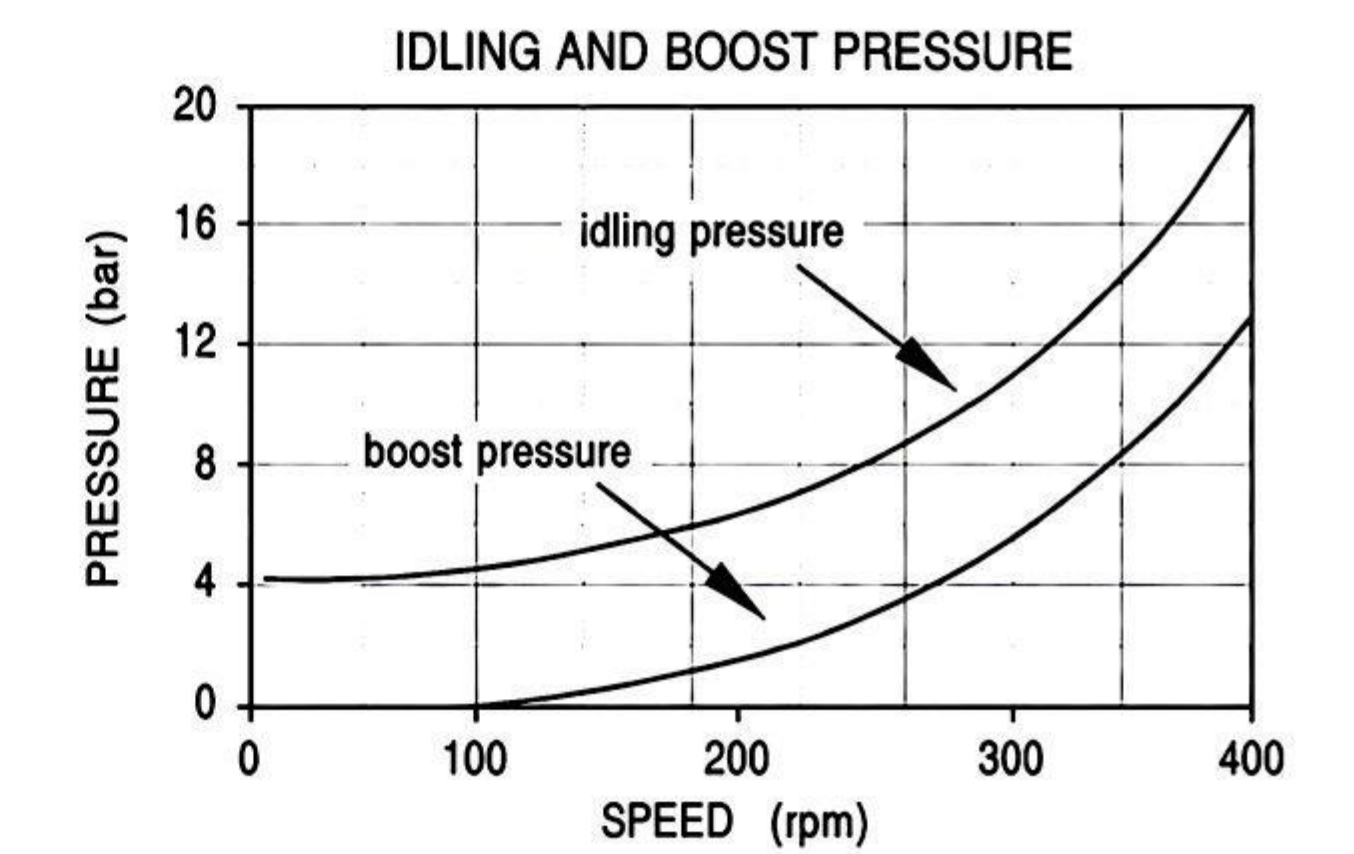
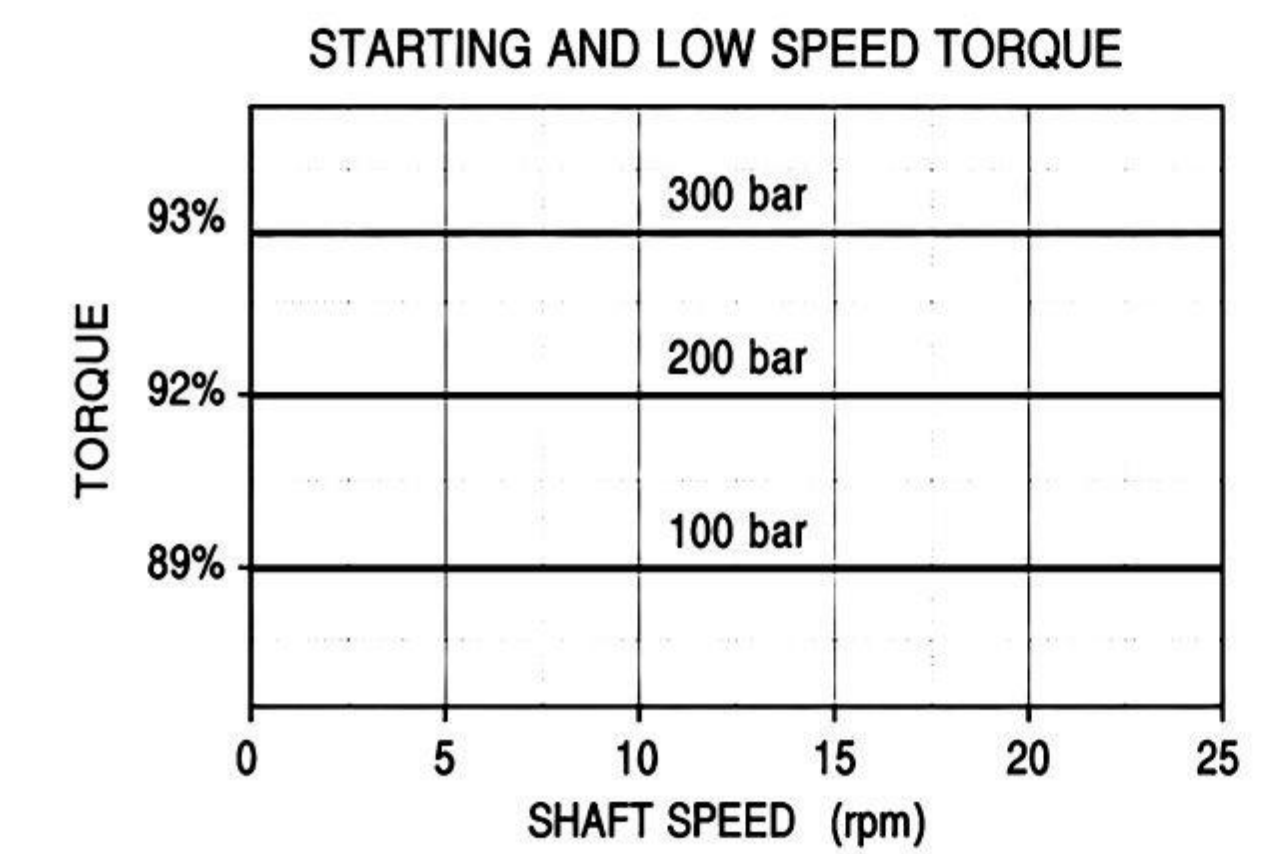
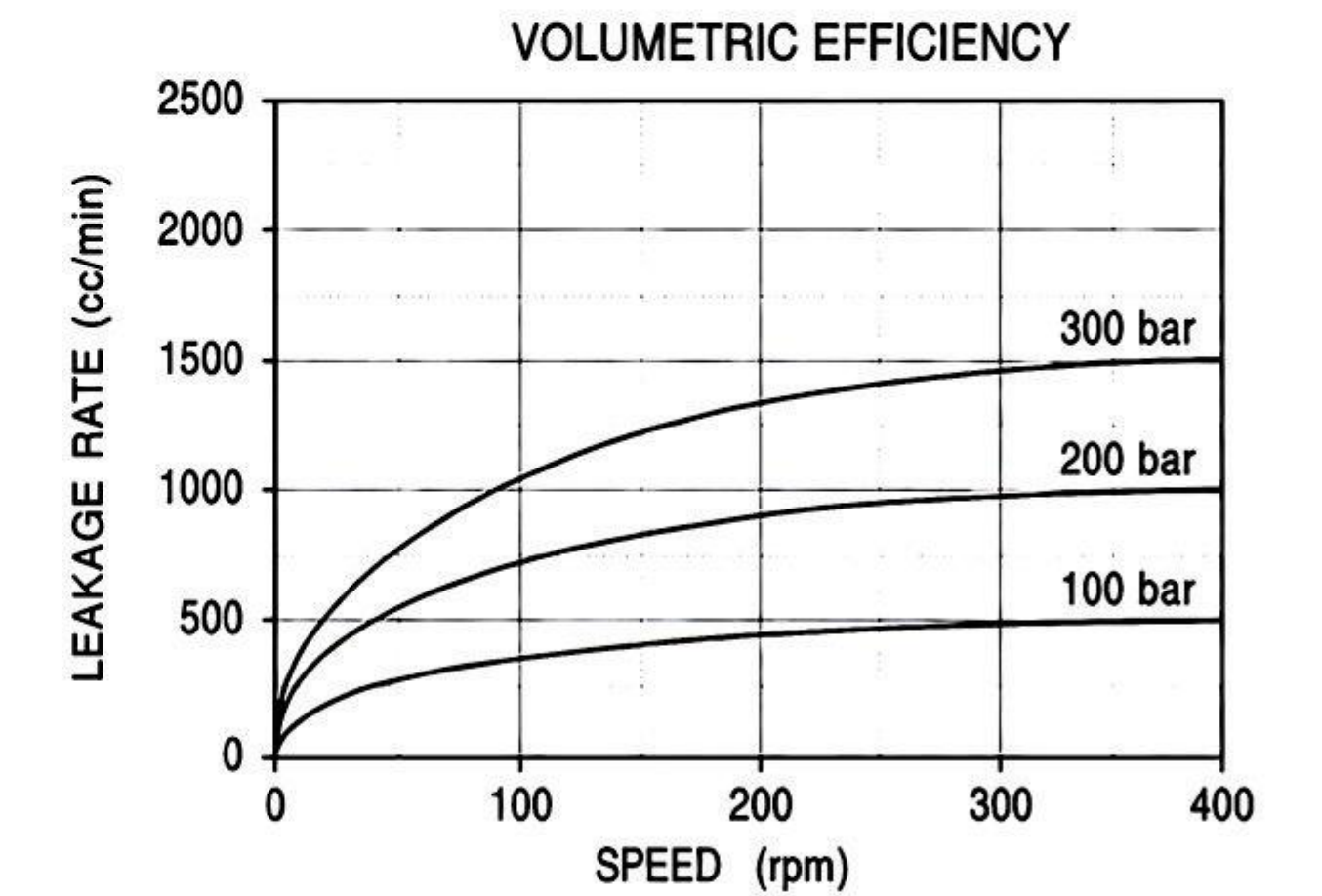
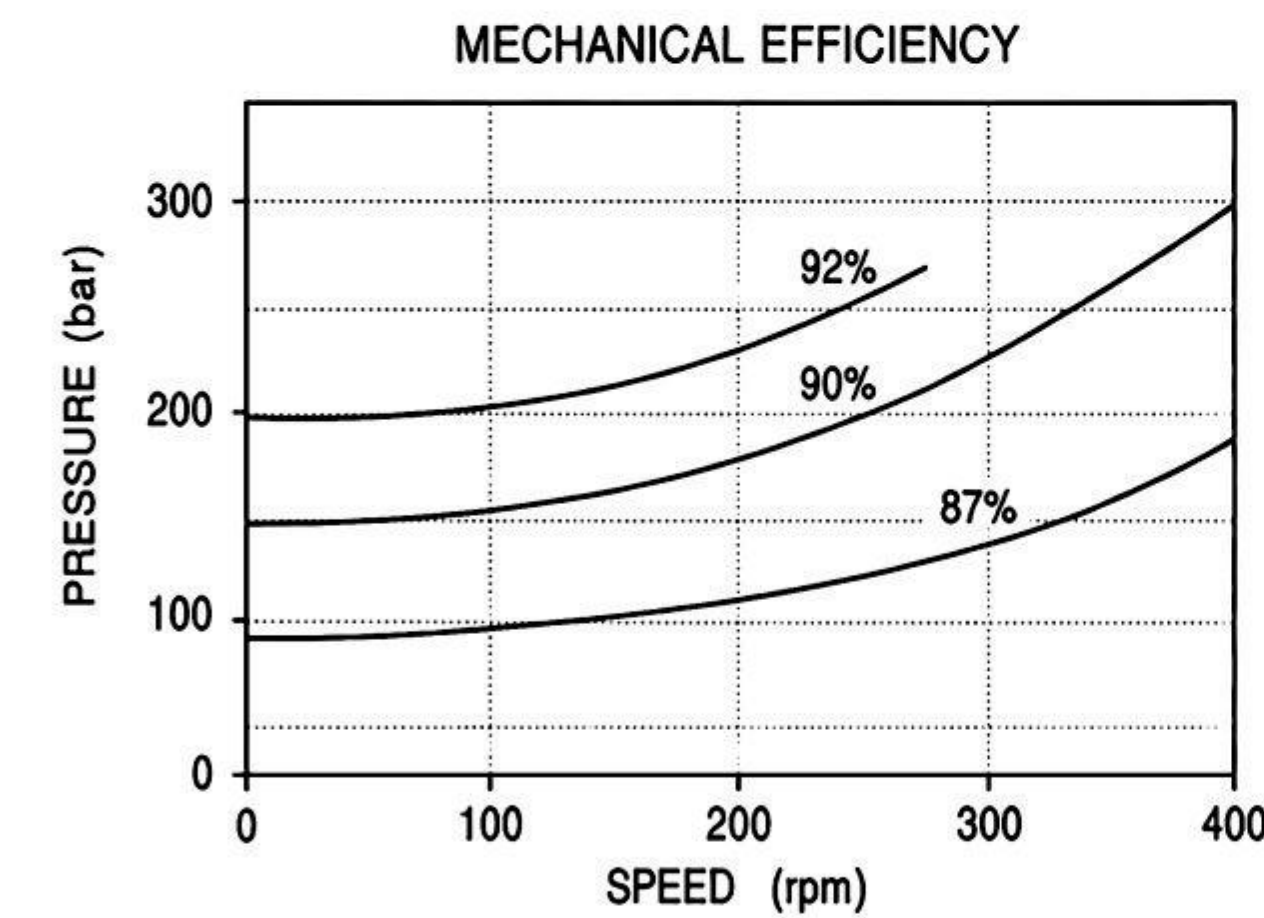
JNM6-1700~3000 Series Motor Technical Parameters

Technical Parameters	6-1700	6-2100	6-2500	6-3000
Theoretical Displacement (ml/r)	1690	2127	2513	3041
Rated Pressure (MPa)	25	25	25	25
Maximum Pressure (MPa)	45	40	35	30
Rated Torque (N·m)	6600	8300	9800	11875
Unit Theoretical Torque (N·m/MPa)	264	332	392	475
Continuous Speed (r/min)	0.25~250	0.25~225	0.2~200	0.2~175
Maximum Speed (r/min)	400	350	300	250
Motor Weight (Kg)	275	275	275	275

JNM Series Hydraulic Motors

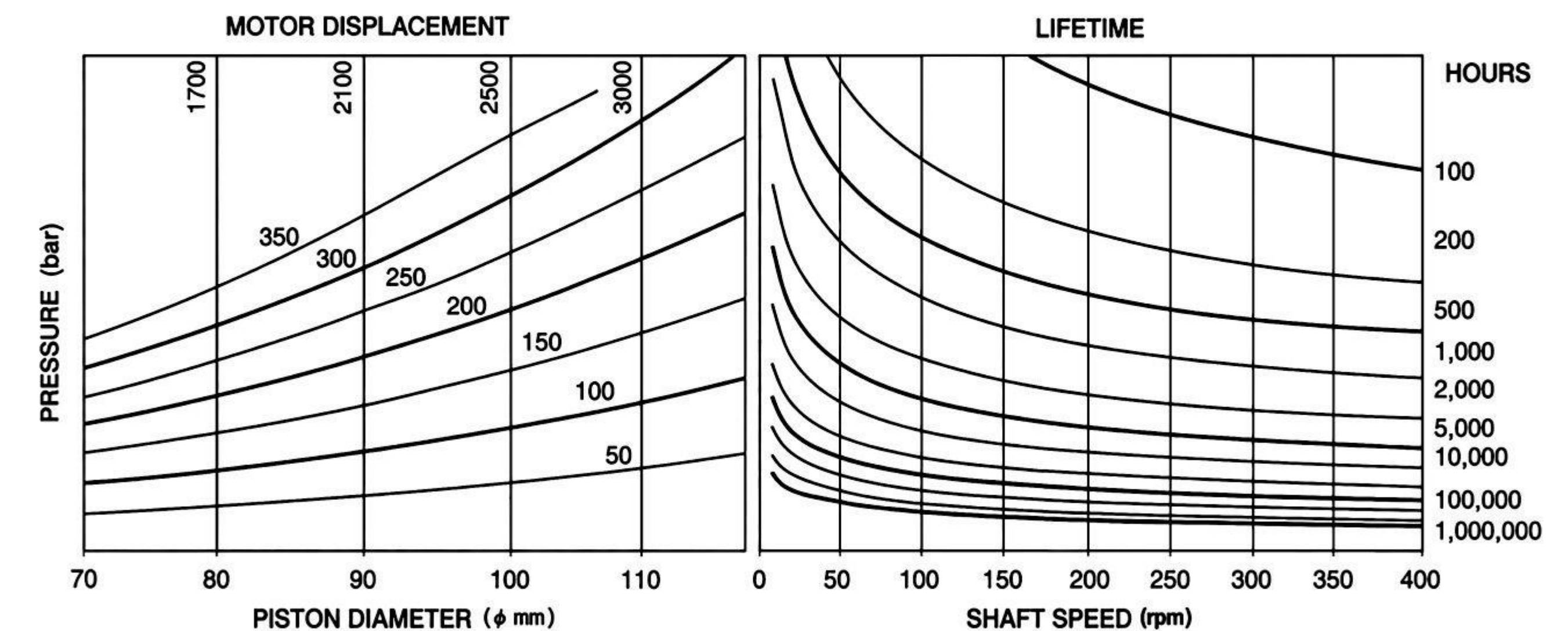
PERFORMANCE

The graphs indicate the typical performance characteristics of the 2500cc motor operating with mineral oil with viscosity 40 cSt at 50 °C.

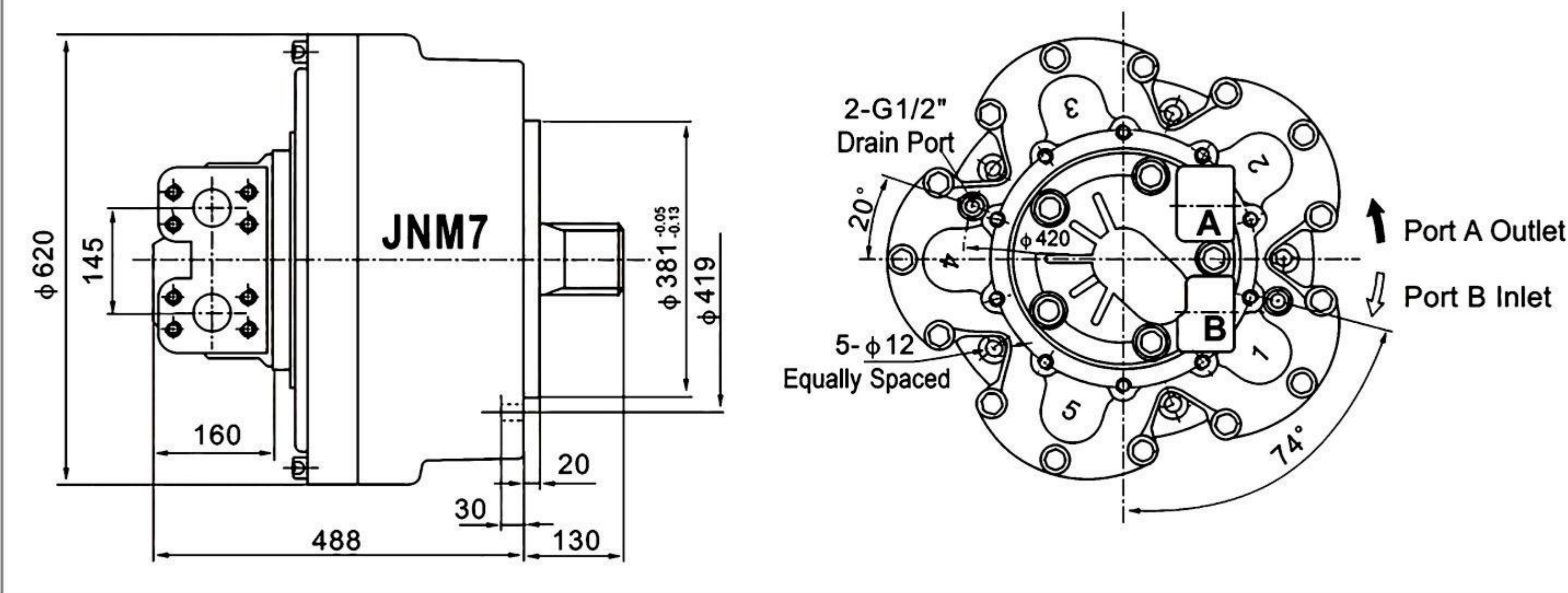


BEARING LIFETIME

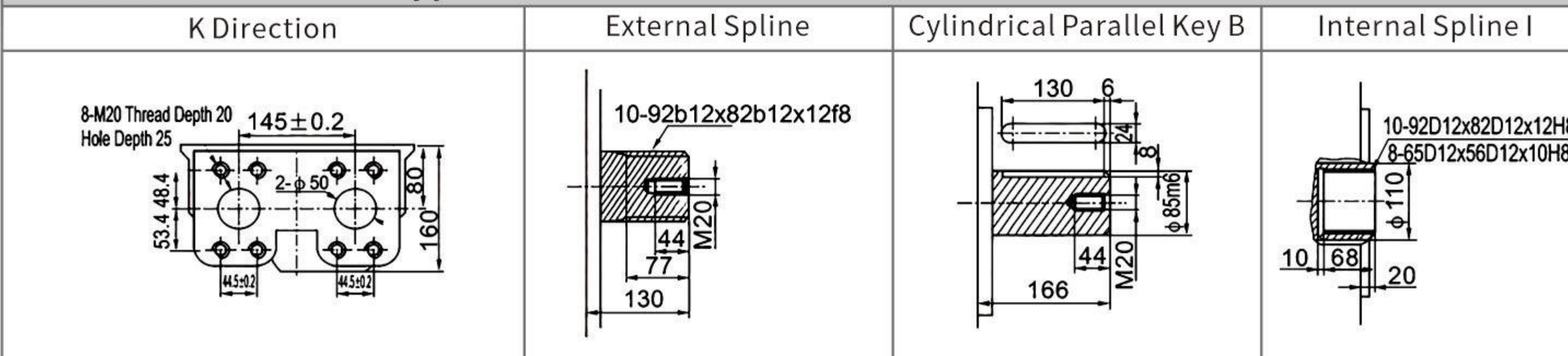
The graph refers to the motor with the standard spherical roller bearings.
Note that the average lifetime of a bearing (B₅₀ lifetime) is approximately 5 times the B₁₀ lifetime.



JNM7 Hydraulic Motor Overall Dimensions and Technical Performance Table



JNM7 Shaft Extension Types



JNM7 Spline Parameters

DIN	80-3-25 DIN 5480	Pitch 6/12 BS 3550
A	$\phi 75.0$	$\phi 88.0^{+0.047}_{-0.170}$
B	$\phi 80.0^{+0.070}_{+0}$ H14	$\phi 84.6$
C	$\phi 74.0^{+0.190}_{+0}$ H11	$\phi 80.0^{+0.480}_{-0.070}$
D	$\phi 5.25$	$\phi 97.0^{+0.082}_{+0.030}$
E	$\phi 68.900$ H9	$\phi 8.12$
d0	$\phi 79.4^{+0}_{-0.190}$ h11	
d1	$\phi 73.4^{+0}_{-0.870}$ h14	
d2	$\phi 6.0$	
d3	$\phi 85.9$ f8	
d4		
db		

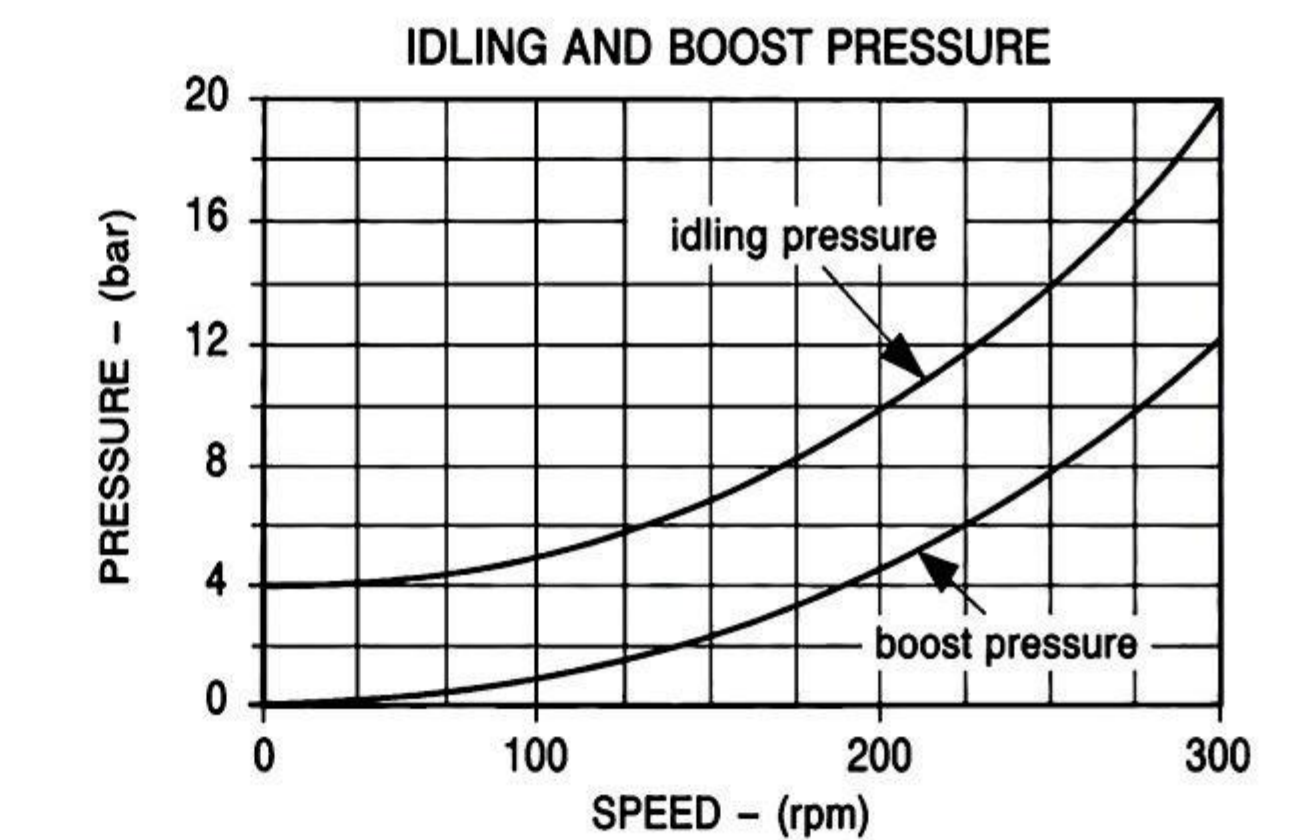
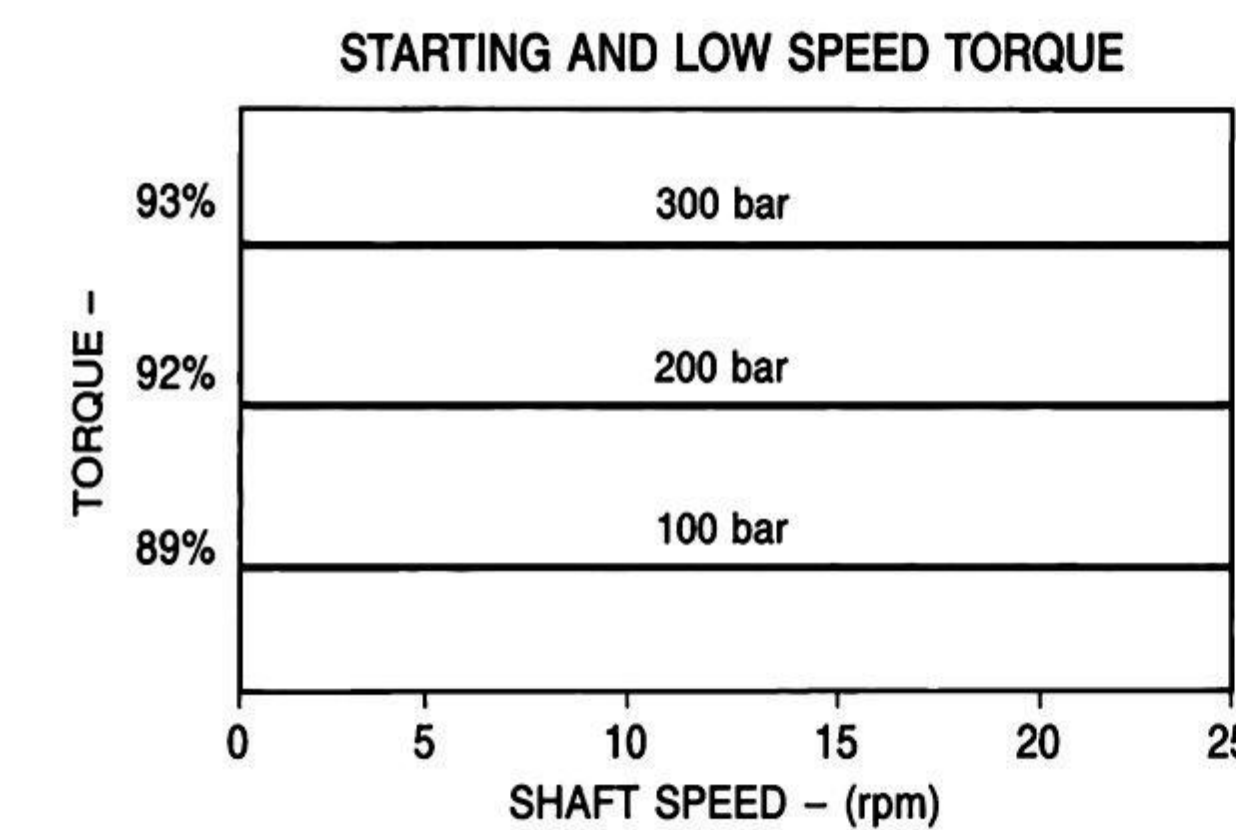
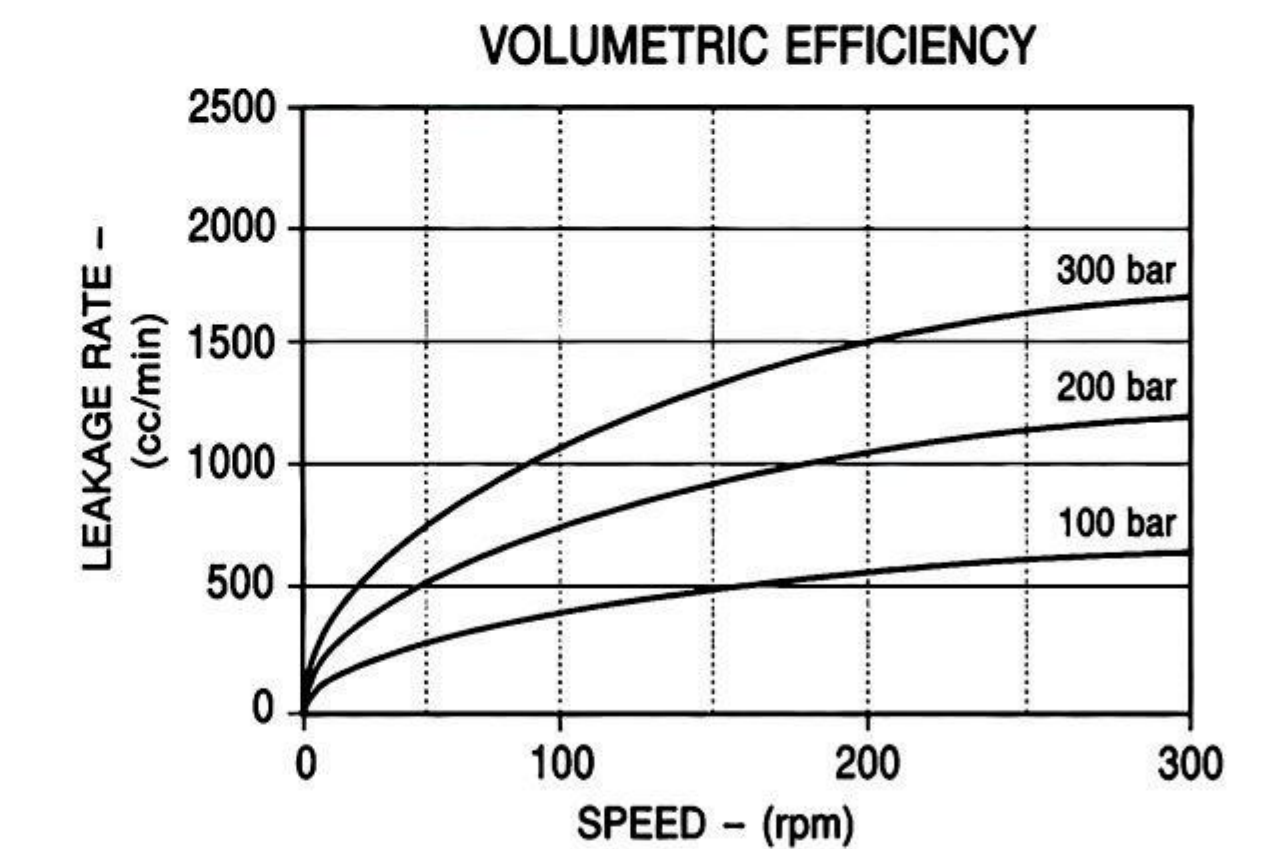
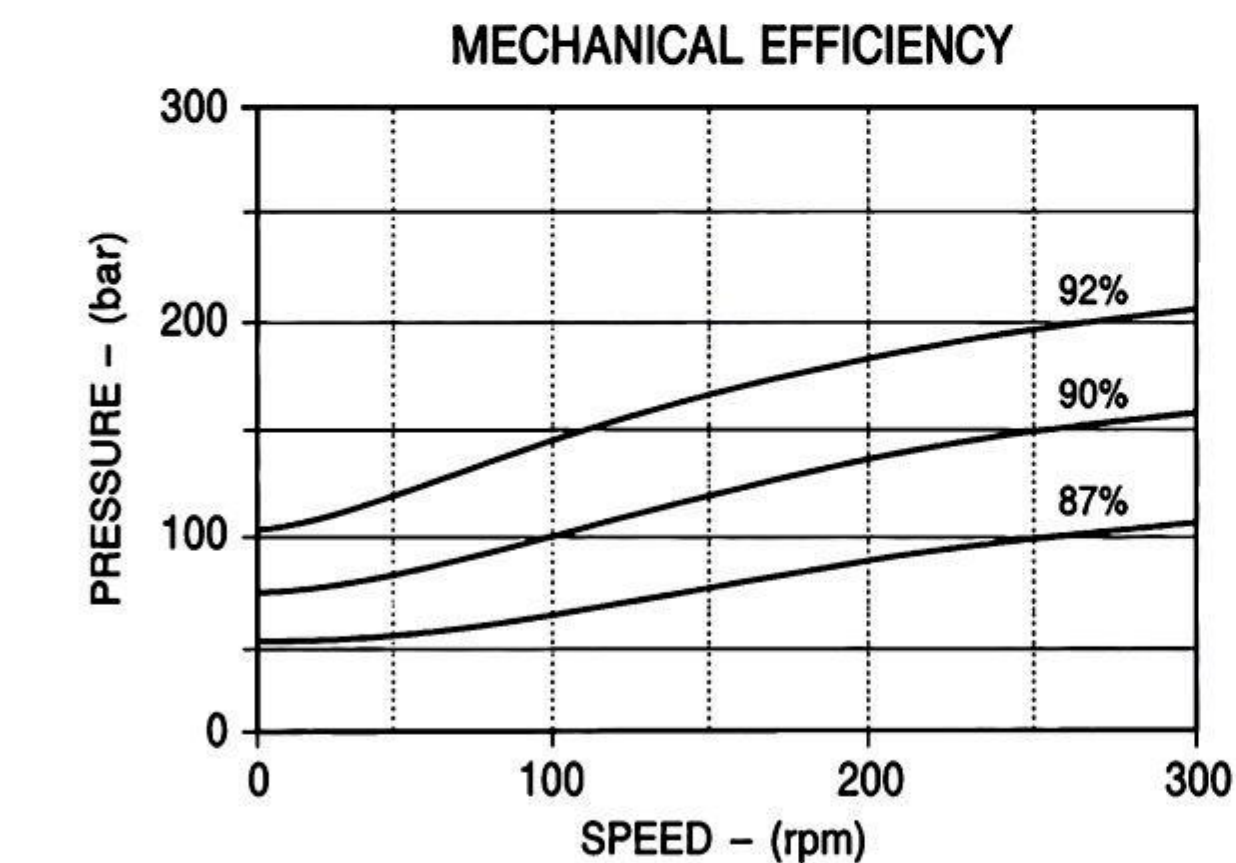
JNM7-2000~4300 Series Motor Technical Parameters

Technical Parameters	2000	2500	3000	3300	3600	4300
Theoretical Displacement (ml/r)	2007	2526	2985	3290	3611	4298
Rated Pressure (MPa)	25	25	25	25	25	25
Maximum Pressure (MPa)	32	32	32	32	32	32
Rated Torque (N·m)	7975	10050	11877	13075	14350	17100
Unit Theoretical Torque (N·m/MPa)	319	402	475	523	574	684
Continuous Speed (r/min)	210	210	210	210	210	210
Maximum Speed (r/min)	450	350	300	275	250	225
Motor Weight (Kg)	340	340	340	340	340	340

JNM Series Hydraulic Motors

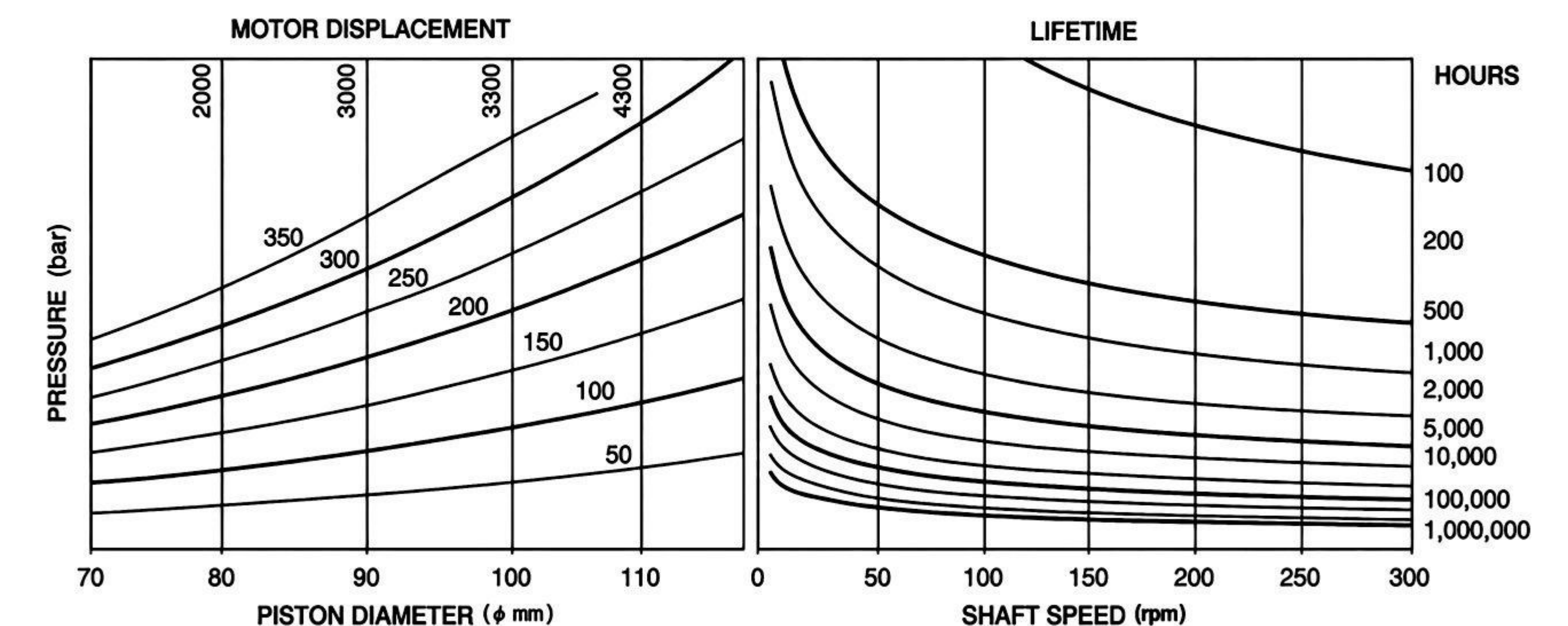
PERFORMANCE

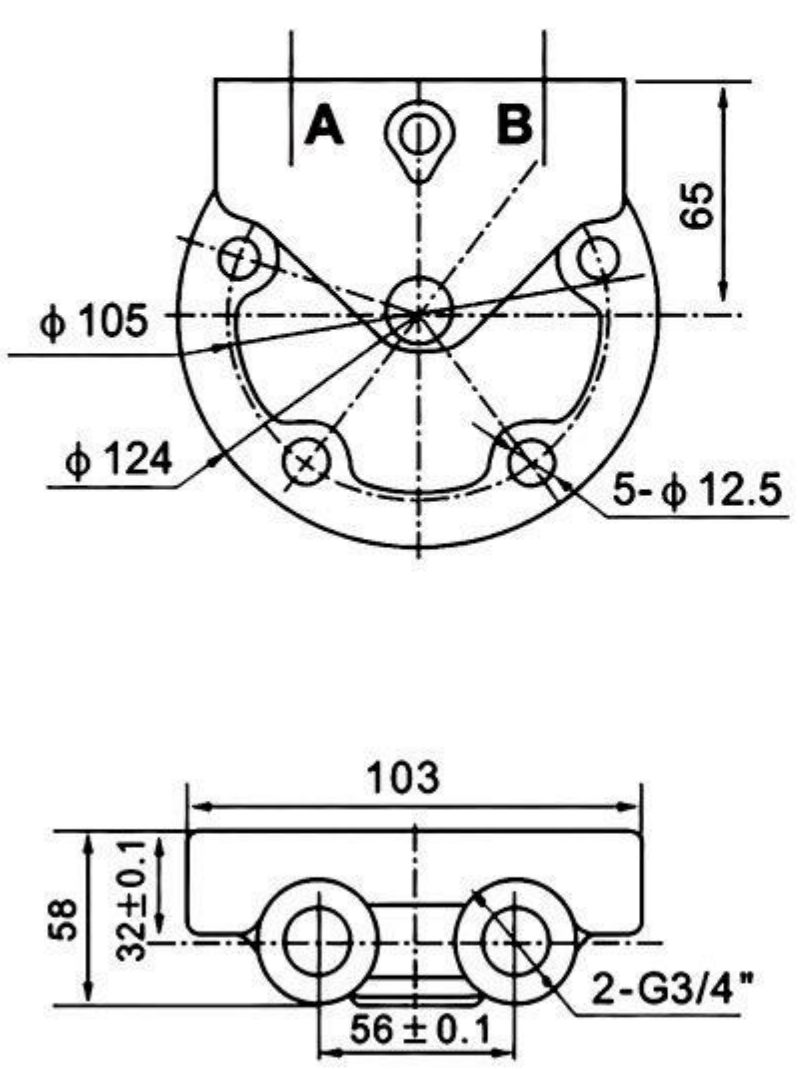
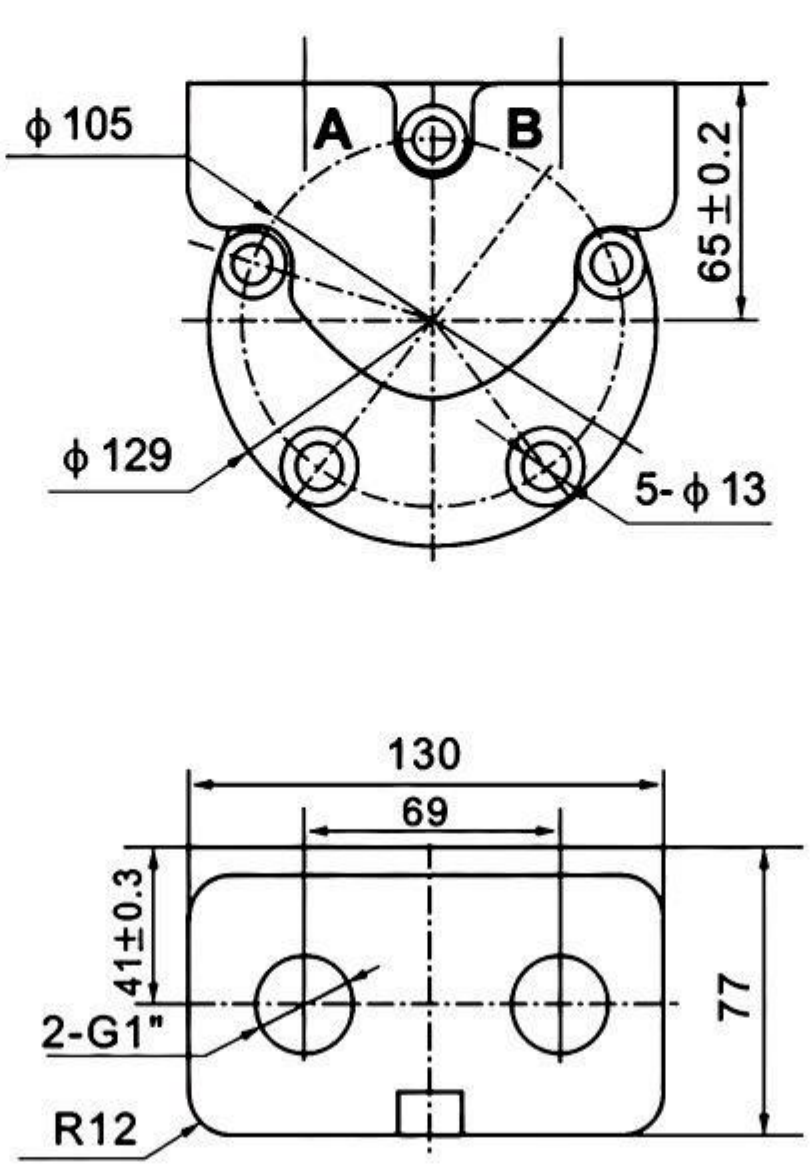
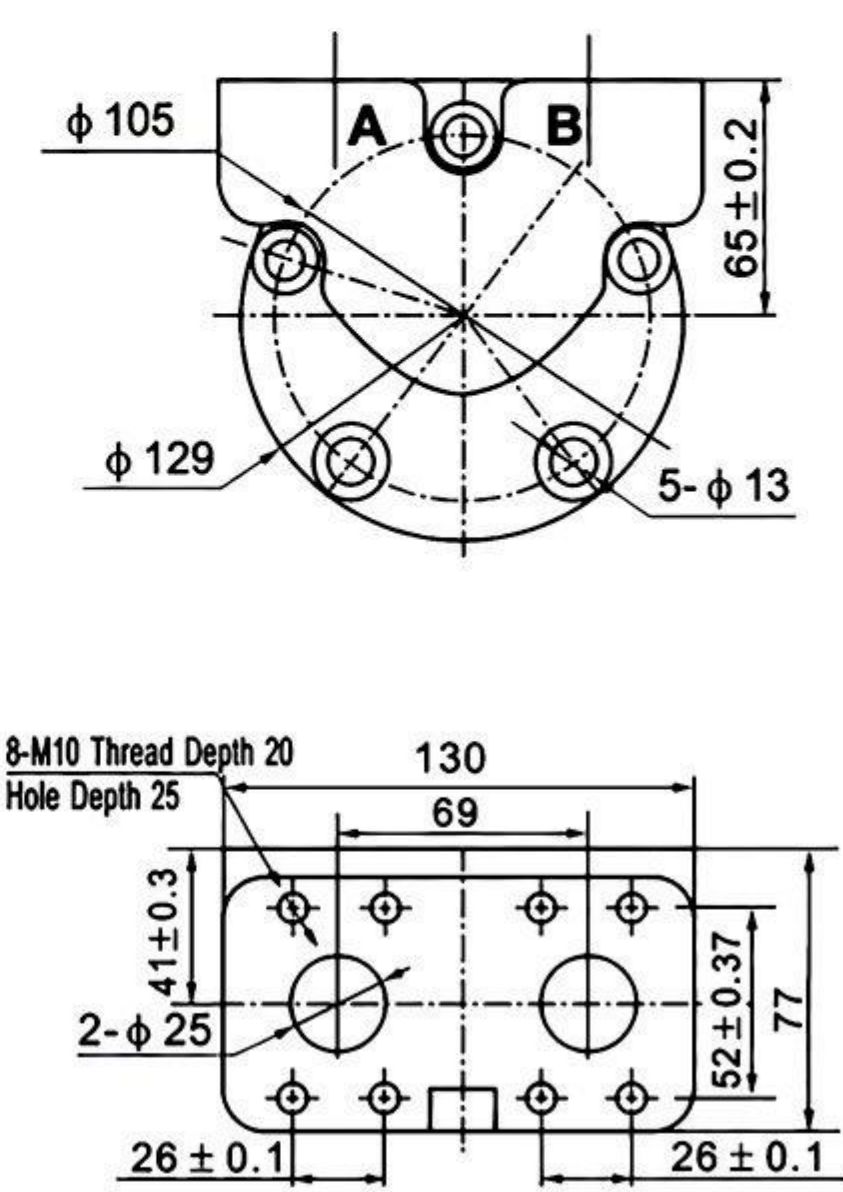
The graphs indicate the typical performance characteristics of the 3600cc motor operating with mineral oil with viscosity 40 cSt at 50 °C.

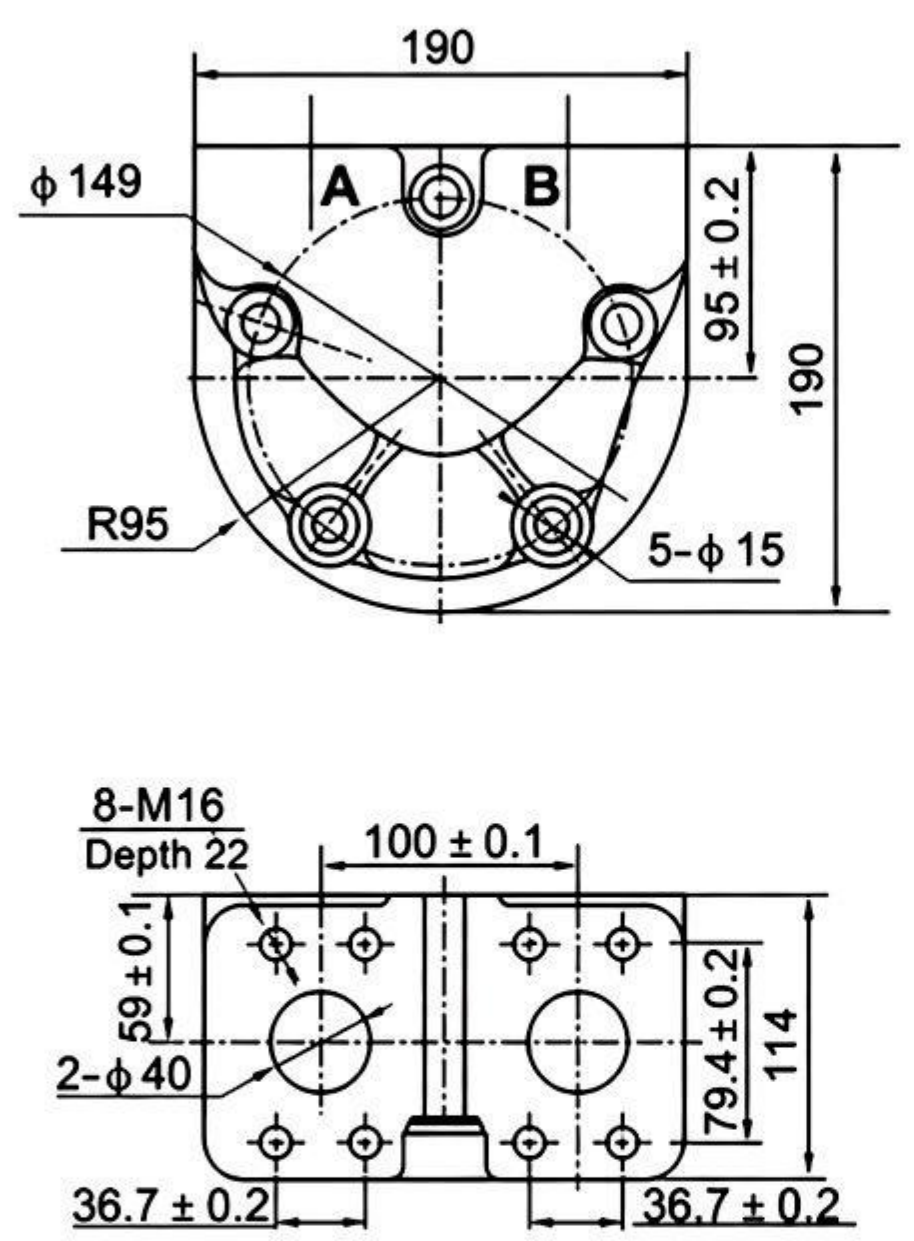
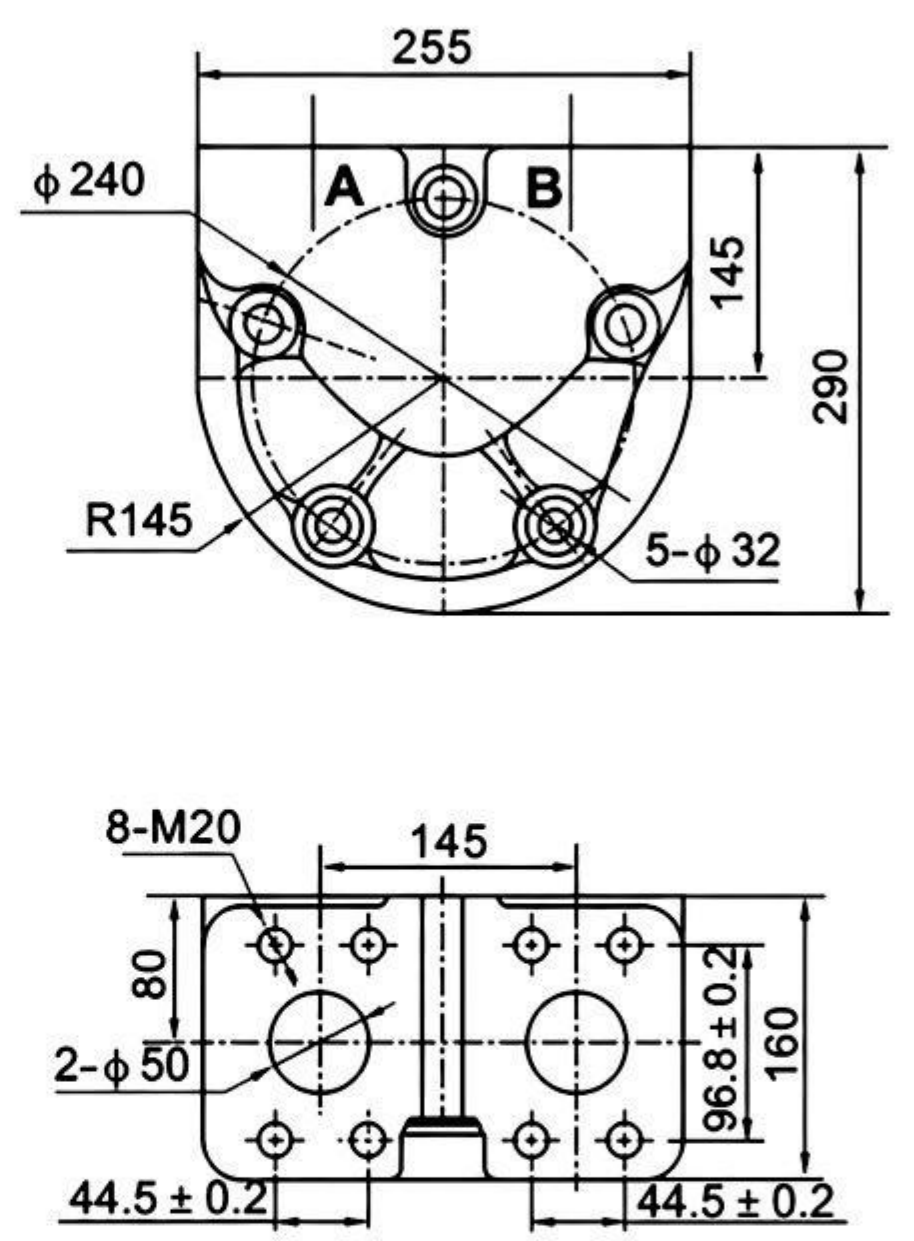


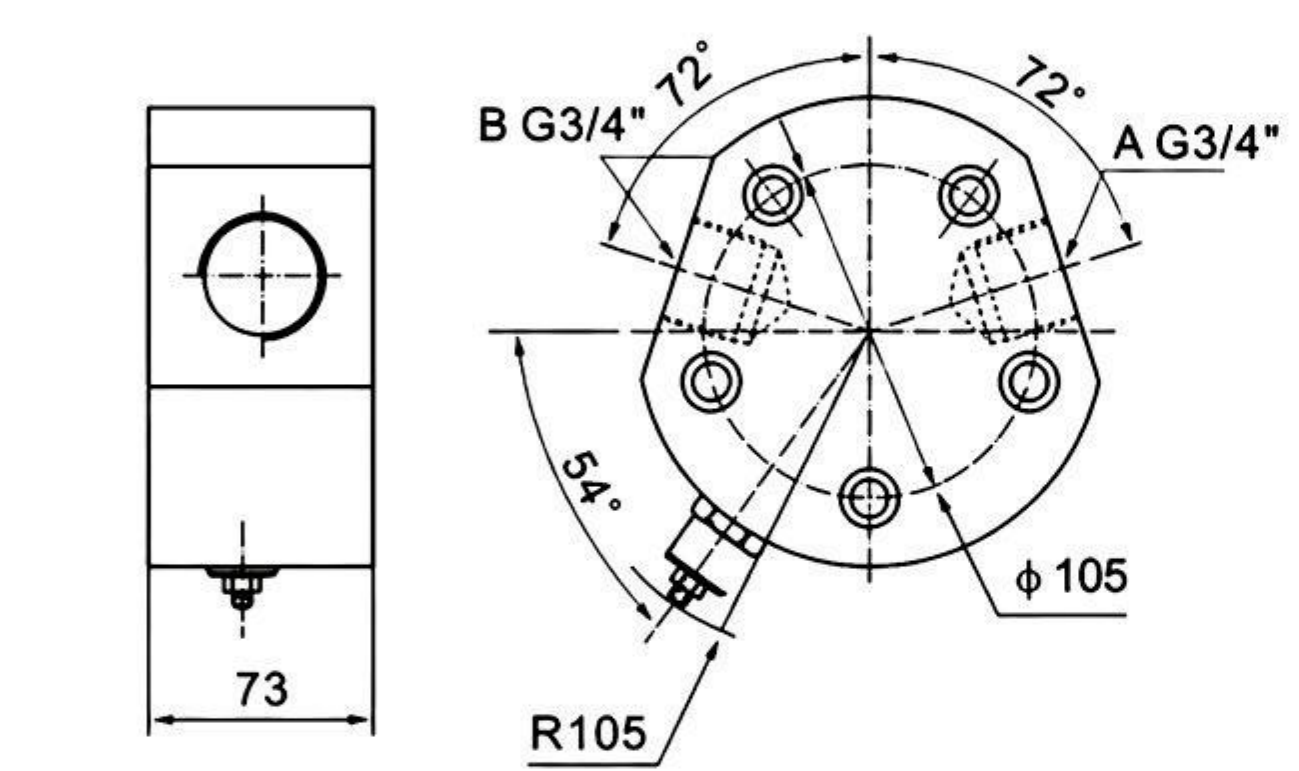
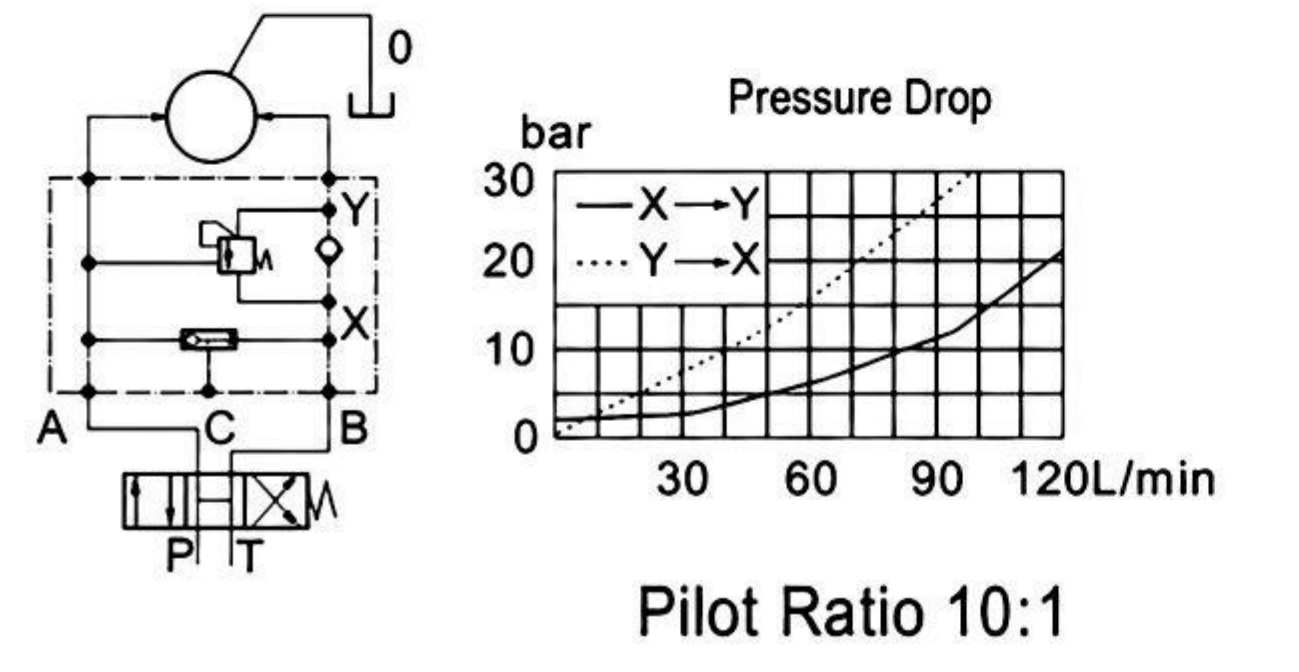
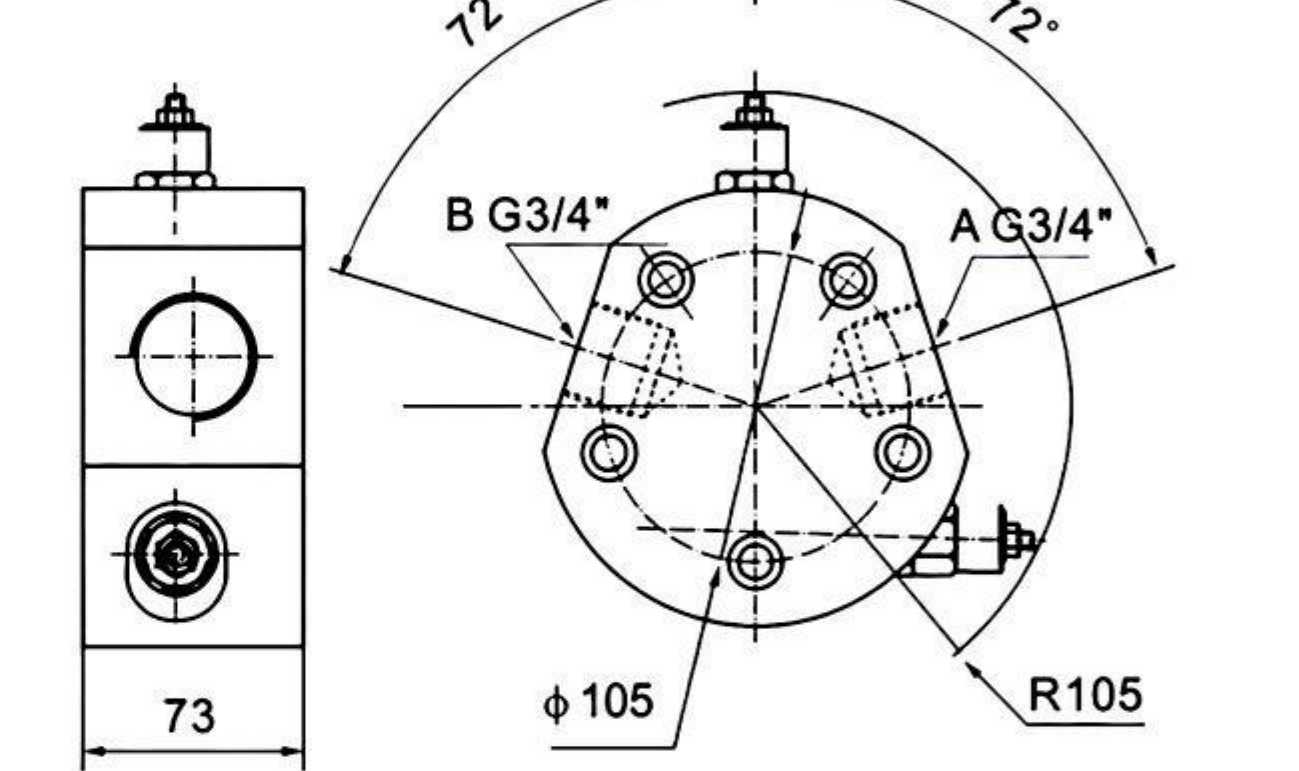
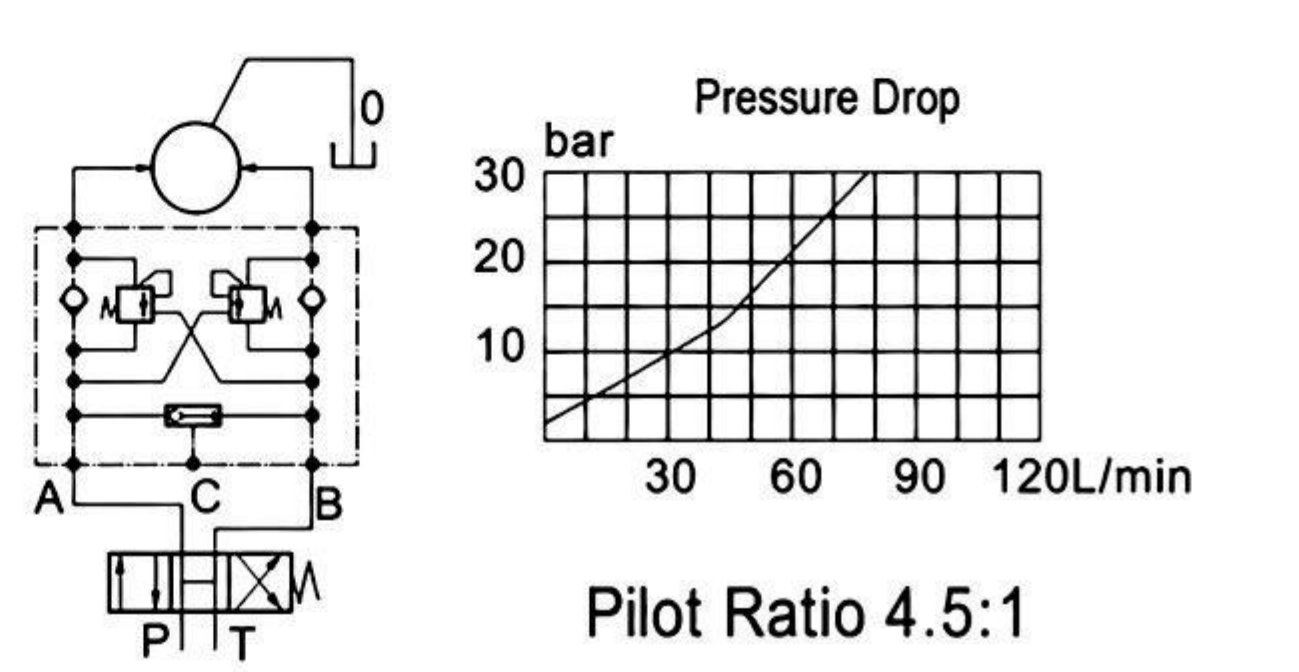
BEARING LIFETIME

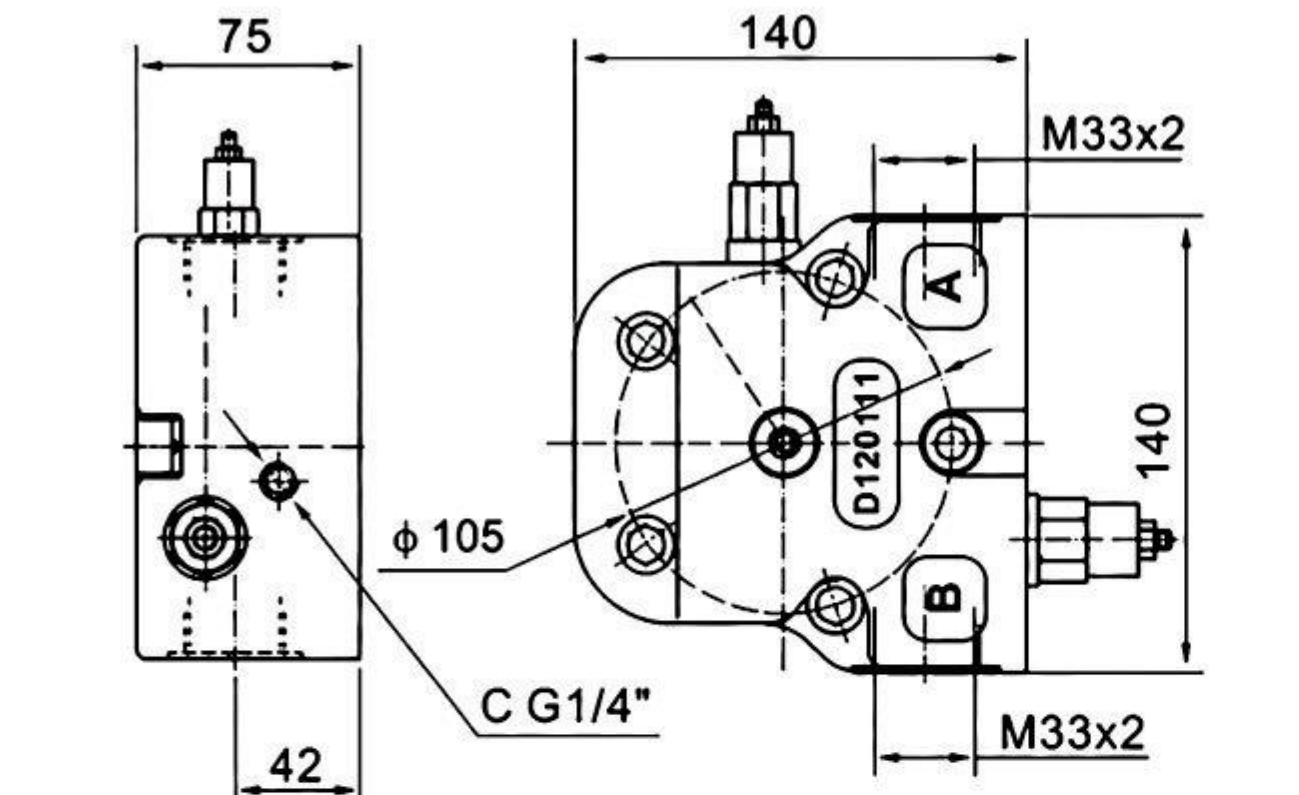
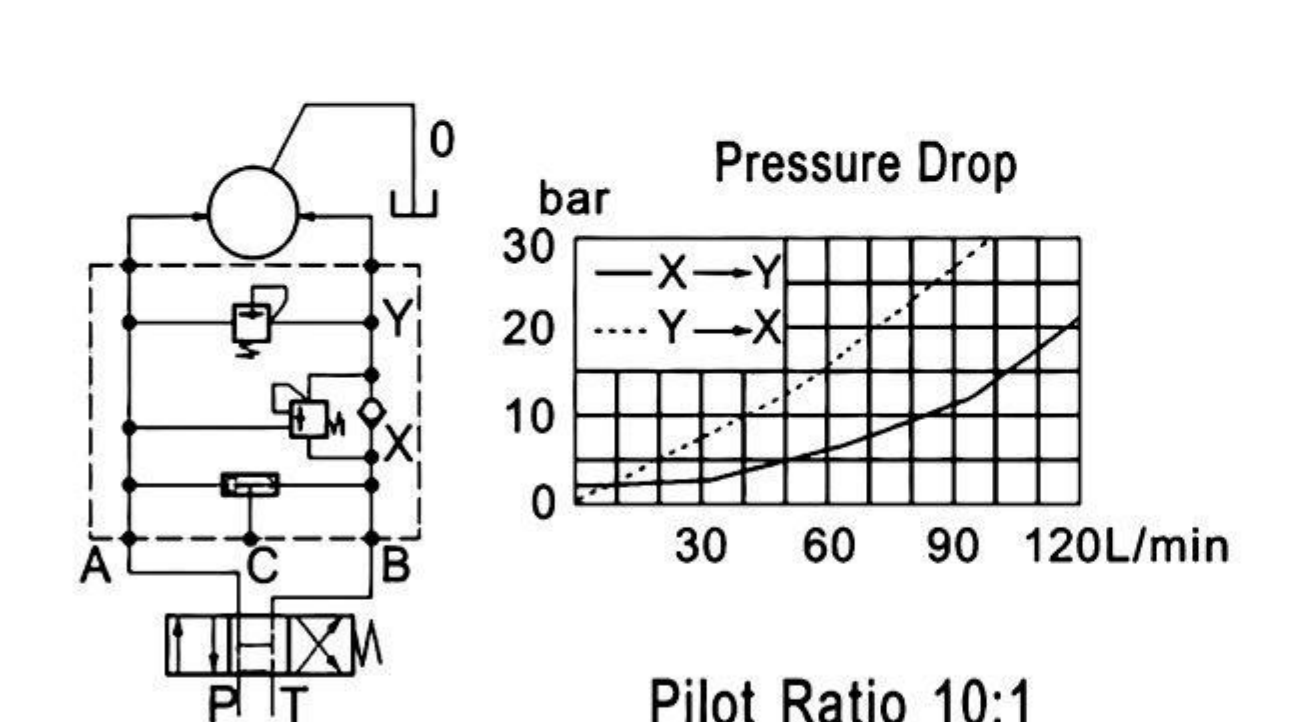
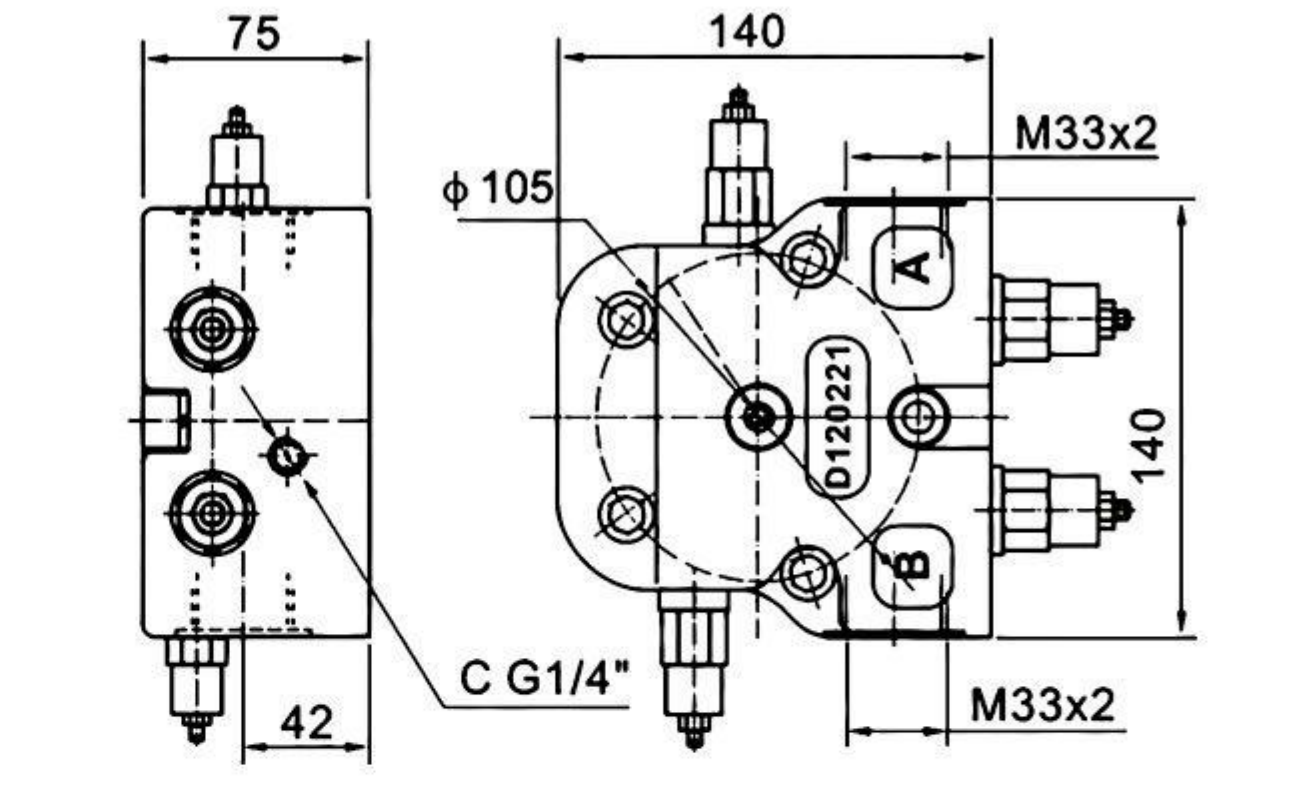
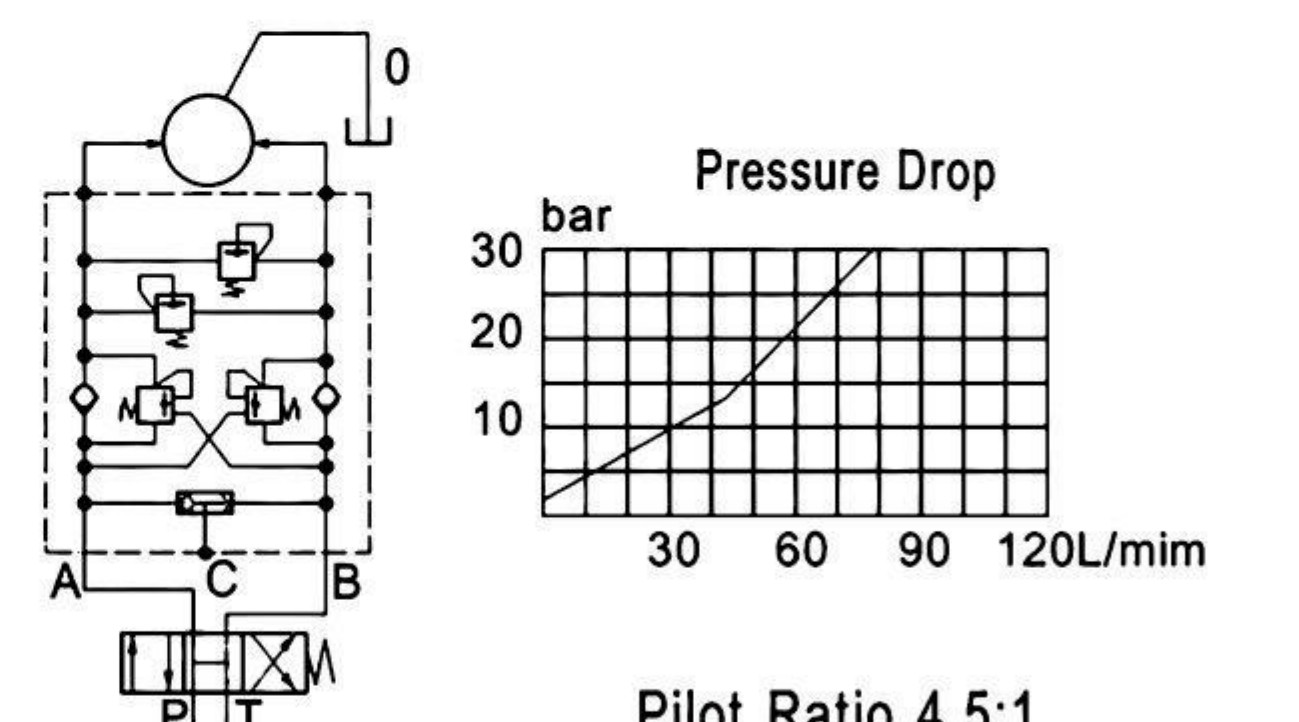
The graph refers to the motor with the standard spherical roller bearings. Note that the average lifetime of a bearing (B_{50} lifetime) is approximately 5 times the B_{10} lifetime.



Distributor Models		
Types of Valve Plates		
D31 Valve Plate	D40 Valve Plate	D47 Valve Plate
		
Weight: 3 Kg	Weight: 5 Kg	Weight: 6 Kg

Types of Valve Plates	
D90 Valve Plate	D250 Valve Plate
	
Weight: 14.5 kg	This is a High-Flow Valve Plate Weight: 25 kg

D120111 With Single-Direction Counterbalance Valve, Overload Valve and High-Pressure Shuttle Valve	D120221 With Bidirectional Counterbalance Valve, Overload Valve and High-Pressure Shuttle Valve
 	 

D120111 with Single Counterbalance Valve, Relief Valve and High-Pressure Shuttle Valve	D120221 with Bidirectional Counterbalance Valve, Relief Valve and High-Pressure Shuttle Valve
 	 

JHM Series Hydraulic Motors



JHM Series Hydraulic Motors

- High starting torque
- Smooth low-speed performance
- Low noise
- High volumetric efficiency
- Reversible rotation
- Compact and durable design

Potential applications:

- Winches
- Slewing drives
- Mining machinery
- Construction machinery
- Marine deck equipment
- Metallurgical equipment
- Drilling equipment
- Transport equipment
- Industrial machinery

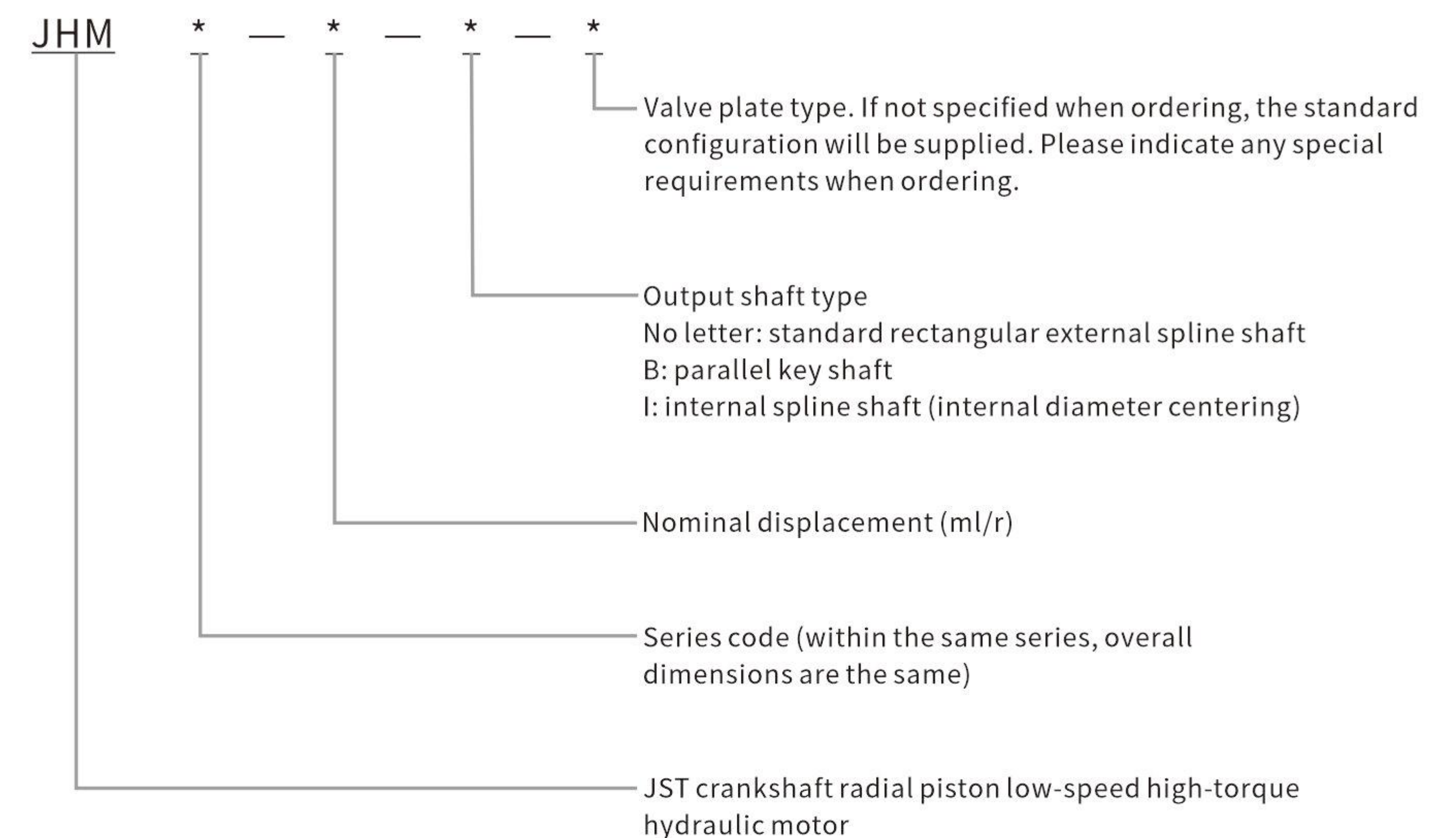
1. Overview

The JHM Series hydraulic motor is a low-speed, high-torque radial piston motor designed for heavy-duty hydraulic drive systems where smooth starting, stable low-speed control and reliable torque output are required.

Its crankshaft connecting-rod structure and five-piston radial design provide strong starting torque and smooth rotation at very low speeds. The optimized valve distribution and piston sealing structure help reduce internal leakage, improve volumetric efficiency and maintain stable performance under continuous working conditions.

With a compact housing, reversible rotation and the ability to withstand certain radial and axial loads on the output shaft, the JHM Series is suitable for demanding applications such as winches, slewing drives, mining machinery, construction equipment, marine deck machinery, drilling equipment and other industrial hydraulic systems.

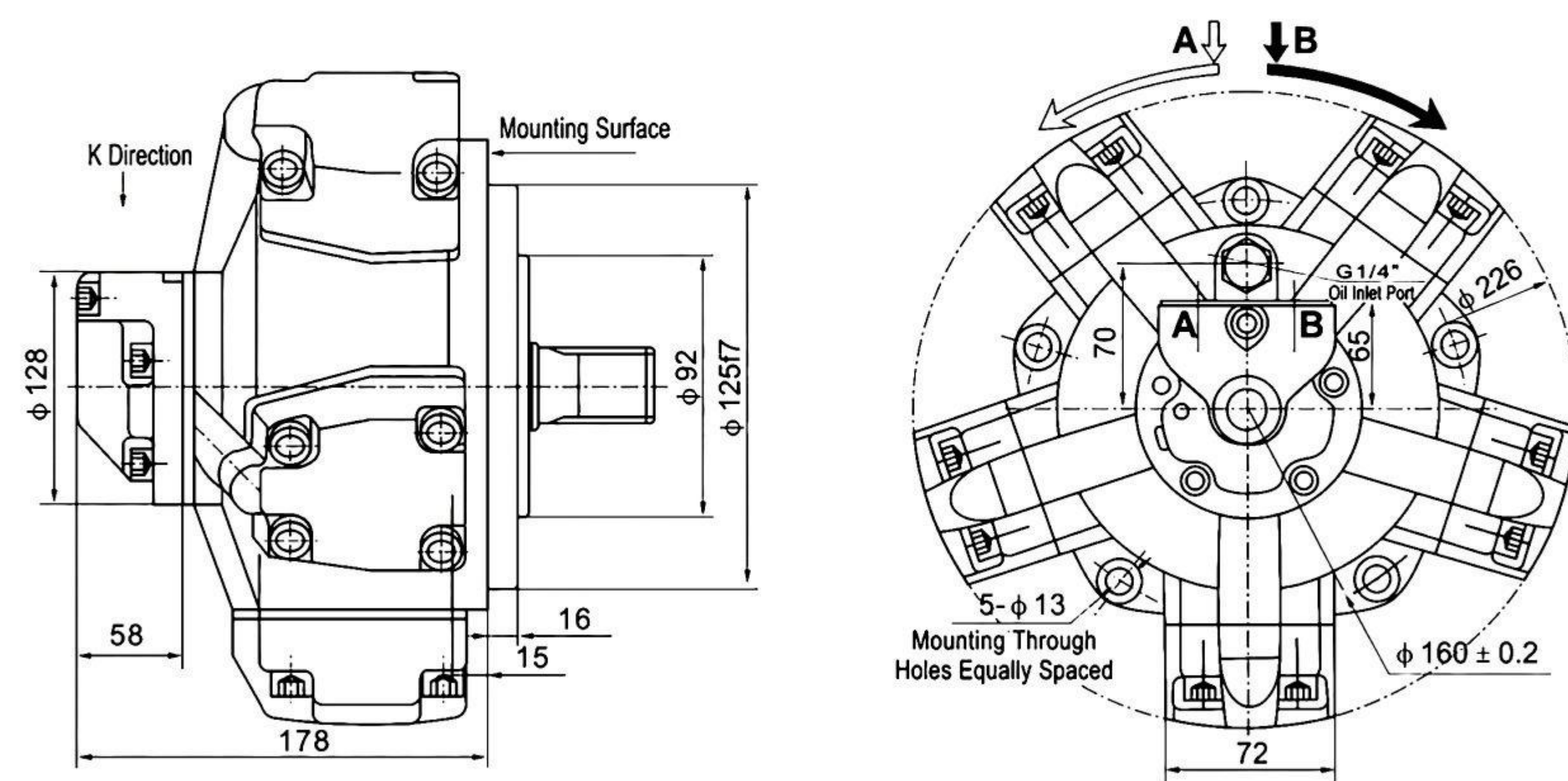
2. Model Code Description



3. Model Code Example

JHM2-400-B-D indicates a JHM hydraulic motor with series code 2, nominal displacement 400 ml/r, parallel key shaft, and valve plate type D.

JHM1-63~160 Mounting Connection Dimensions



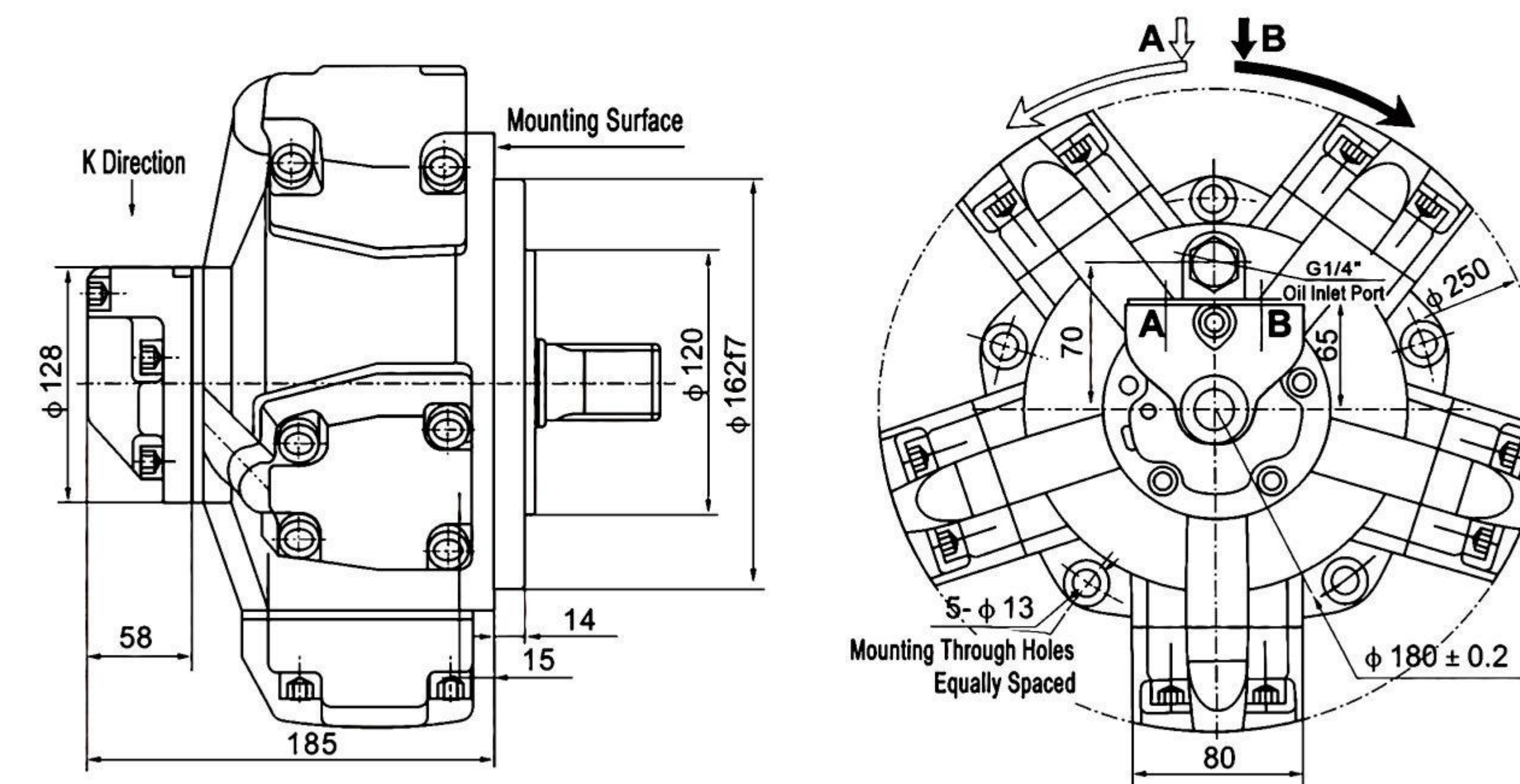
This series of motors is equipped with D31 standard valve plate. For specific mounting dimensions, see Hydraulic Motor Valve Plates (special requirements by agreement).

Rotation in K Direction	JHM1 - **	JHM1 - **B

JHM1-63~160 Series Motor Technical Parameters

Technical Parameters	1-63	1-80	1-100	1-125	1-160
Displacement (ml/r)	64	77	96.4	125.6	159
Rated Pressure (MPa)	25	25	25	20	20
Maximum Pressure (MPa)	31.5	31.5	31.5	25	25
Rated Torque (N.M)	253.75	305.7	383	399	505
Unit Theoretical Torque (N.m/MPa)	10.15	12	15.3	19.9	25.28
Maximum Power (KW)	15	15	15	15	15
Speed Range (r/min)	15~1500	15~1250	15~1000	15~1000	15~1000
Motor Weight (Kg)	20	20	20	20	20

JHM2-100~280 Mounting Connection Dimensions



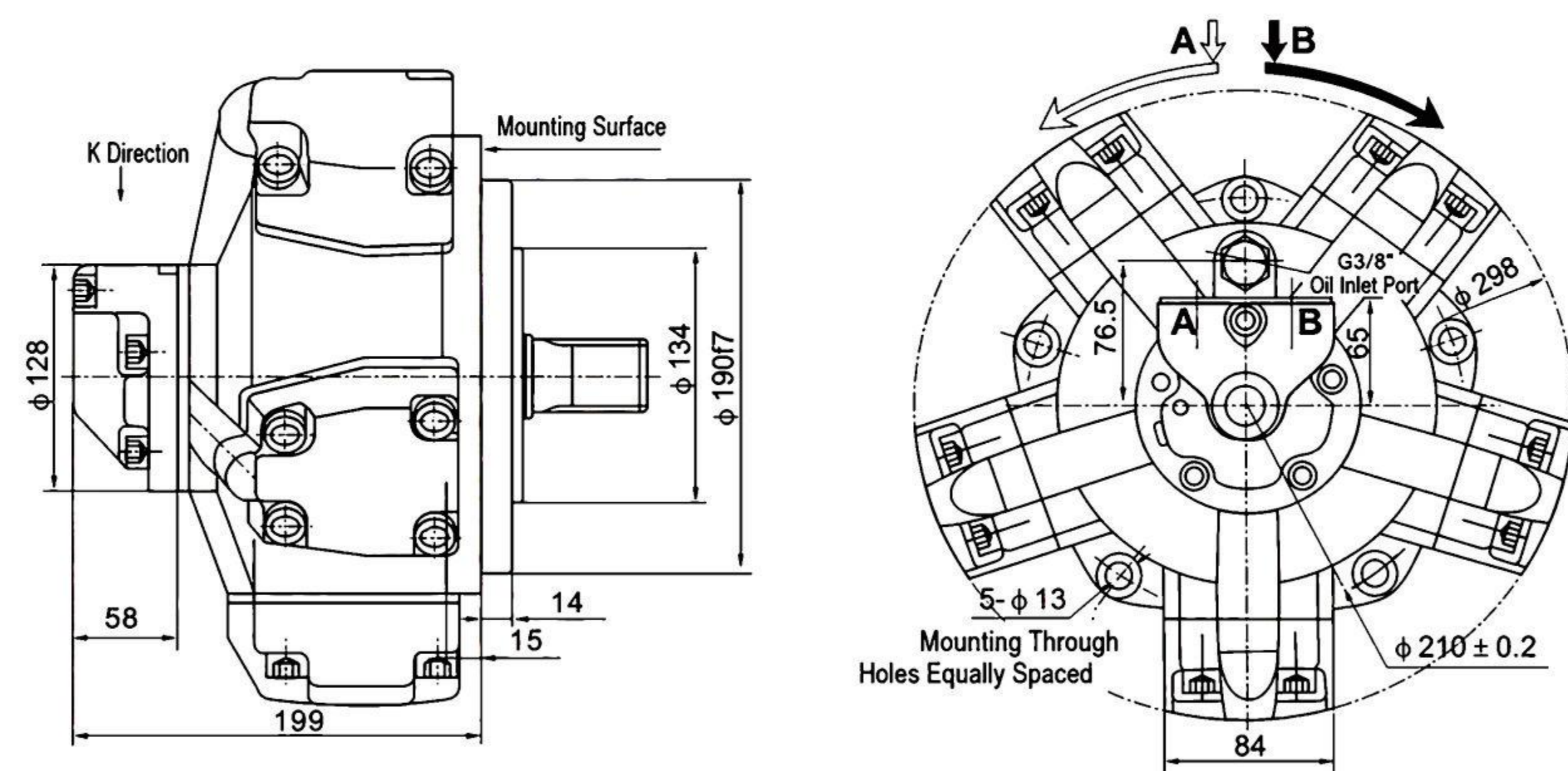
This series of motors is equipped with D31 standard valve plate. For specific mounting dimensions, see Hydraulic Motor Valve Plates (special requirements by agreement).

Rotation in K Direction	JHM2 - **	JHM2 - **B	JHM2 - **I

JHM2-100~280 Series Motor Technical Parameters

Technical Parameters	2-100	2-150	2-175	2-200	2-250	2-280
Displacement (ml/r)	113	159	180	206	235	276
Rated Pressure (MPa)	25	25	20	20	16	16
Maximum Pressure (MPa)	32	32	25	25	20	20
Rated Torque (N.M)	420	620	526	600	607	670
Unit Theoretical Torque (N.m/MPa)	18	25	28	32	40	44
Maximum Power (KW)	22	22	22	22	22	22
Speed Range (r/min)	15~1250	15~1000	15~1000	8~800	8~630	8~500
Motor Weight (Kg)	27	27	27	27	27	27

JHM3-175~400 Mounting Connection Dimensions



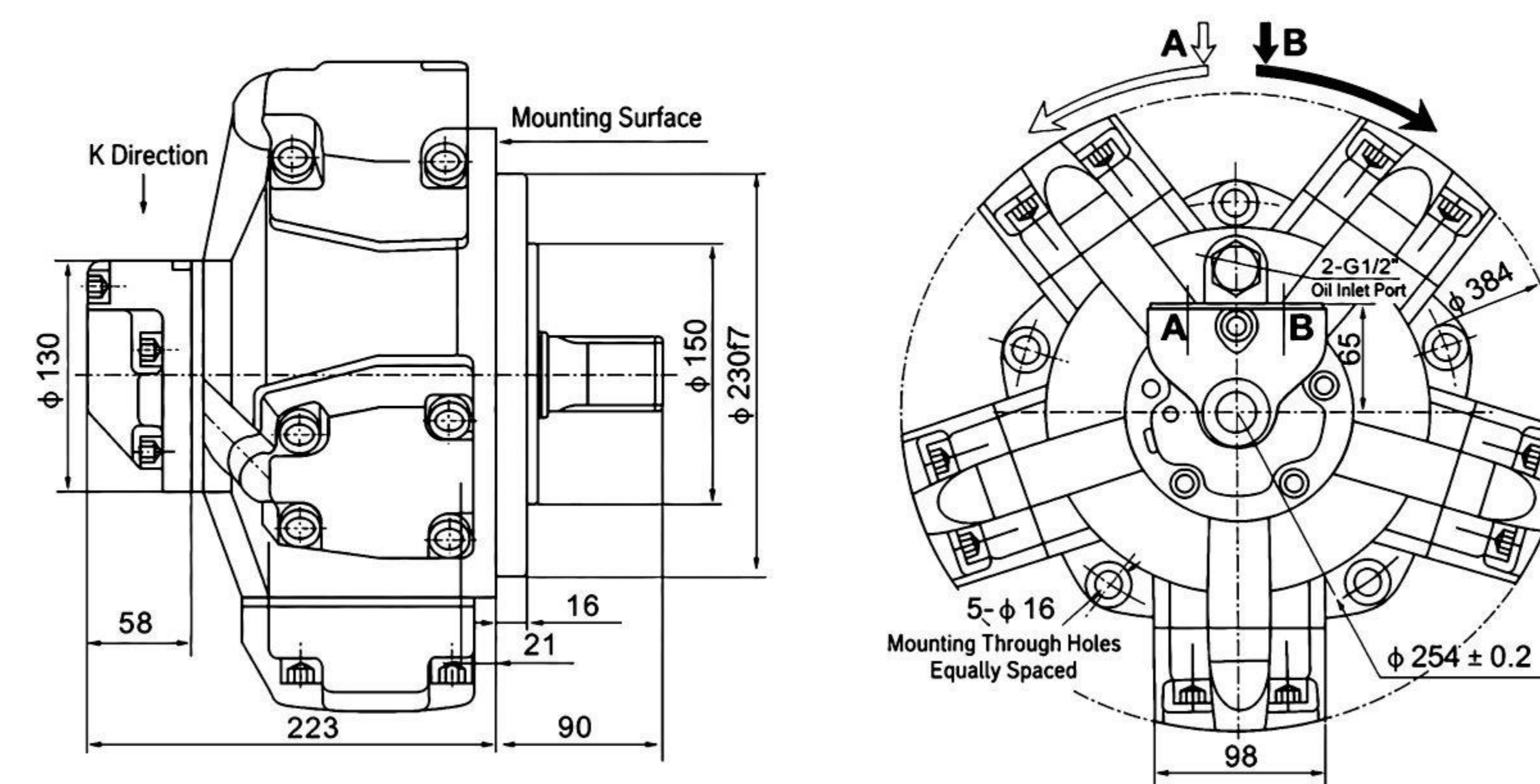
This series of motors is equipped with D31 and D47 valve plates. For specific mounting dimensions, see Hydraulic Motor Valve Plates

Rotation in K Direction	JHM3- **	JHM3- **B	JHM3- **I

JHM3-175~400 Series Motor Technical Parameters

Technical Parameters	3-175	3-200	3-250	3-300	3-350	3-400
Displacement (ml/r)	181	201	254	289	340	380
Rated Pressure (MPa)	25	25	25	20	20	16
Maximum Pressure (MPa)	32	32	32	25	25	20
Rated Torque (N.M)	710	800	949	864	1040	949
Unit Theoretical Torque (N.m/MPa)	28	32	40	46	55	63
Maximum Power (KW)	36	36	38	39	36	36
Speed Range (r/min)	8~800	8~700	8~600	8~500	8~420	6~350
Motor Weight (Kg)	35	35	35	35	35	35

JHM6-400~750 Mounting Connection Dimensions



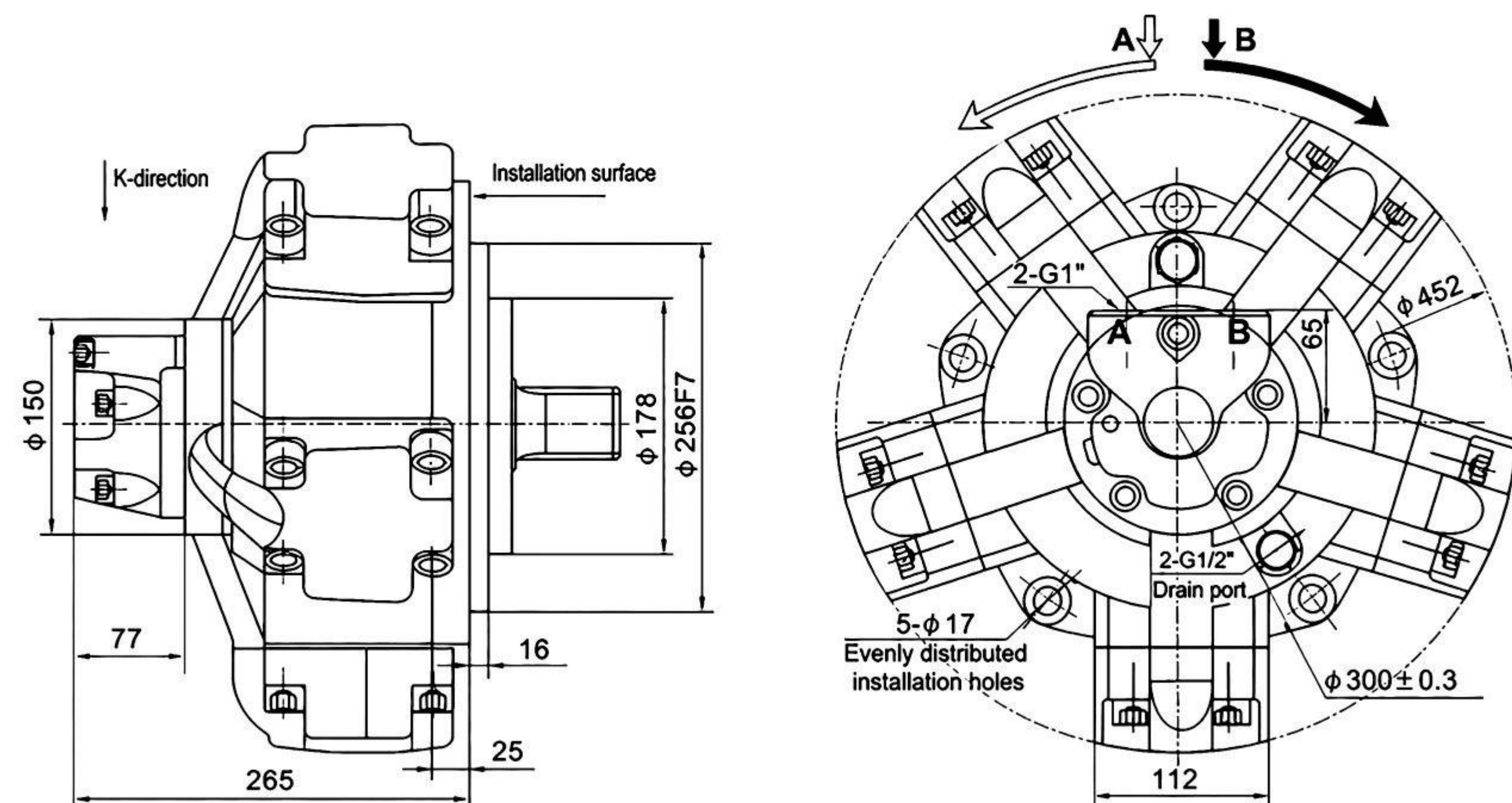
For this series, matched with D31, D47 standard oil distribution plate, the specific installation dimensions refer to the hydraulic motor distributor (special requirements are negotiated separately)

K-direction rotation	JHM6 - **	JHM6 - **B	JHM6 - **I

JHM6-400~750 Series Hydraulic Motor Technical Data

Technical Data	6-400	6-450	6-500	6-600	6-700	6-750
Theoretical displacement(ml/r)	397	452	491	594	683	754
Rated pressure(MPa)	25	25	20	20	18	16
Max. pressure(MPa)	32	32	25	25	20	20
Rated torque(N.M)	1483	1638	1483	1775	1833	1760
Unit theoretical torque(N.m/MPa)	63	72	78	94	103	110
Max. power(KW)	52	52	52	52	52	52
Speed range(r/min)	5~800	5~700	5~600	4~550	4~420	4~350
Motor weight(Kg)	57	57	57	57	57	57

JHM11-700~1300 Installation Connection Dimensions



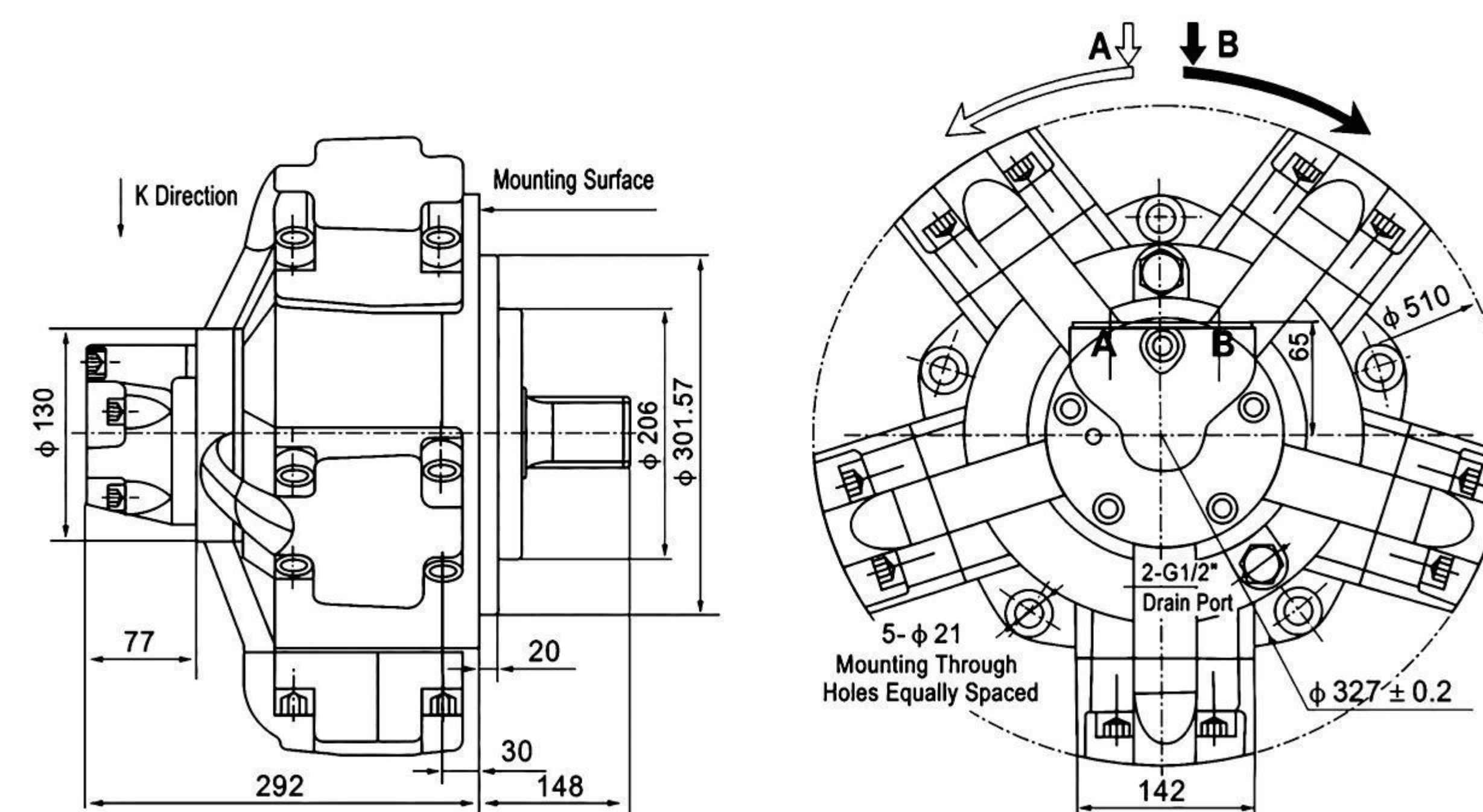
For this series, matched with D31, D47 standard oil distribution plate, the specific installation dimensions refer to the hydraulic motor distributor (special requirements are negotiated separately)

K-direction rotation	JHM11 - **	JHM11 - **B	JHM11 - **I

JHM11-700~1300 Series Motor Technical Parameters

Technical Parameters	11-700	11-800	11-900	11-1000	11-1100	11-1200	11-1300
Displacement (ml/r)	682	782	894	981	1104	1234	1301
Rated Pressure (MPa)	25	25	25	20	20	20	16
Maximum Pressure (MPa)	32	32	32	25	25	25	20
Rated Torque (N.M)	2667	2959	3480	2947	3336	3512	3080
Unit Theoretical Torque (N.m/MPa)	114	120	140	158	177	187	197
Maximum Power (KW)	78	78	80	82	80	78	78
Speed Range (r/min)	4~400	4~400	4~320	4~320	4~250	4~250	4~200
Motor Weight (Kg)	94	94	94	94	94	94	94

JHM16-1400~3000 Mounting Connection Dimensions



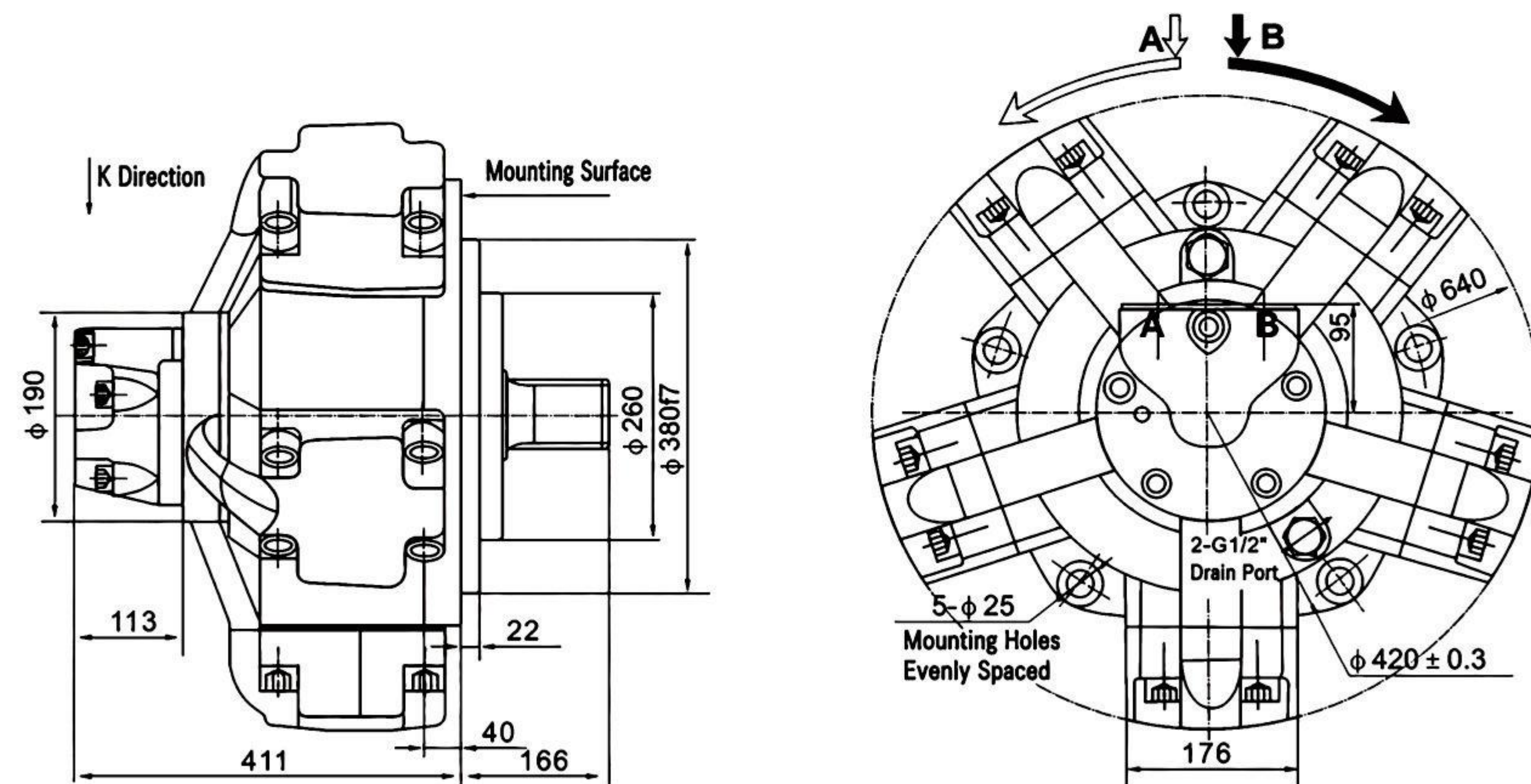
This series of motors is equipped with D47 and D90 valve plates. For specific mounting dimensions, see Hydraulic Motor Valve Plates

Rotation in K Direction	JHM16 - **	JHM16 - **B	JHM16 - **I

JHM16-1400~3000 Series Motor Technical Parameters

Technical Parameters	16-1400	16-1600	16-1800	16-2000	16-2400	16-3000
Theoretical Displacement (ml/r)	1413	1648	1814	2034	2267	3041
Rated Pressure (MPa)	25	25	20	20	16	16
Maximum Pressure (MPa)	32	32	25	25	20	20
Rated Torque (N.M)	5138	6158	5433	6030	5763	7326
Unit Theoretical Torque (N.m/MPa)	210	262	283	323	360	483
Maximum Power (KW)	92	103	103	100	92	100
Speed Range (r/min)	2~300	2~240	2~225	2~200	2~150	2~120
Motor Weight (Kg)	170	170	170	170	170	170

JHM31-2500~5000 Mounting Connection Dimensions



This series of motors is equipped with D90 and D250 valve plates. For specific mounting dimensions, see Hydraulic Motor Valve Plates

Rotation in K Direction	JHM31 - **	JHM31 - **B	JHM31 - **I

JHM31-2500~5000 Series Motor Technical Parameters

Technical Parameters	2500	2800	3000	3150	3500	4000	4500	5000
Displacement (ml/r)	2553	2683	3063	3218	3462	4155	4524	4828
Rated Pressure (MPa)	25	25	20	20	20	20	20	16
Maximum Pressure (MPa)	32	32	25	25	25	25	25	20
Rated Torque (N.M)	9523	10559	9135	9392	11220	12481	13508	12387
Unit Theoretical Torque (N.m/MPa)	405	443	485	500	544	665	720	825
Maximum Power (KW)	132	134	126	128	138	154	158	145
Speed Range (r/min)	2~250	1~200	1~200	1~160	1~120	1~118	1~112	1~112
Motor Weight (Kg)	298	298	298	298	298	298	298	298

QJM Series Hydraulic Motors



QJM Series Hydraulic Motors

- High starting torque
- Smooth low-speed operation
- Compact structure
- Reliable radial support design
- High load capacity
- Durable and long service life

Potential applications:

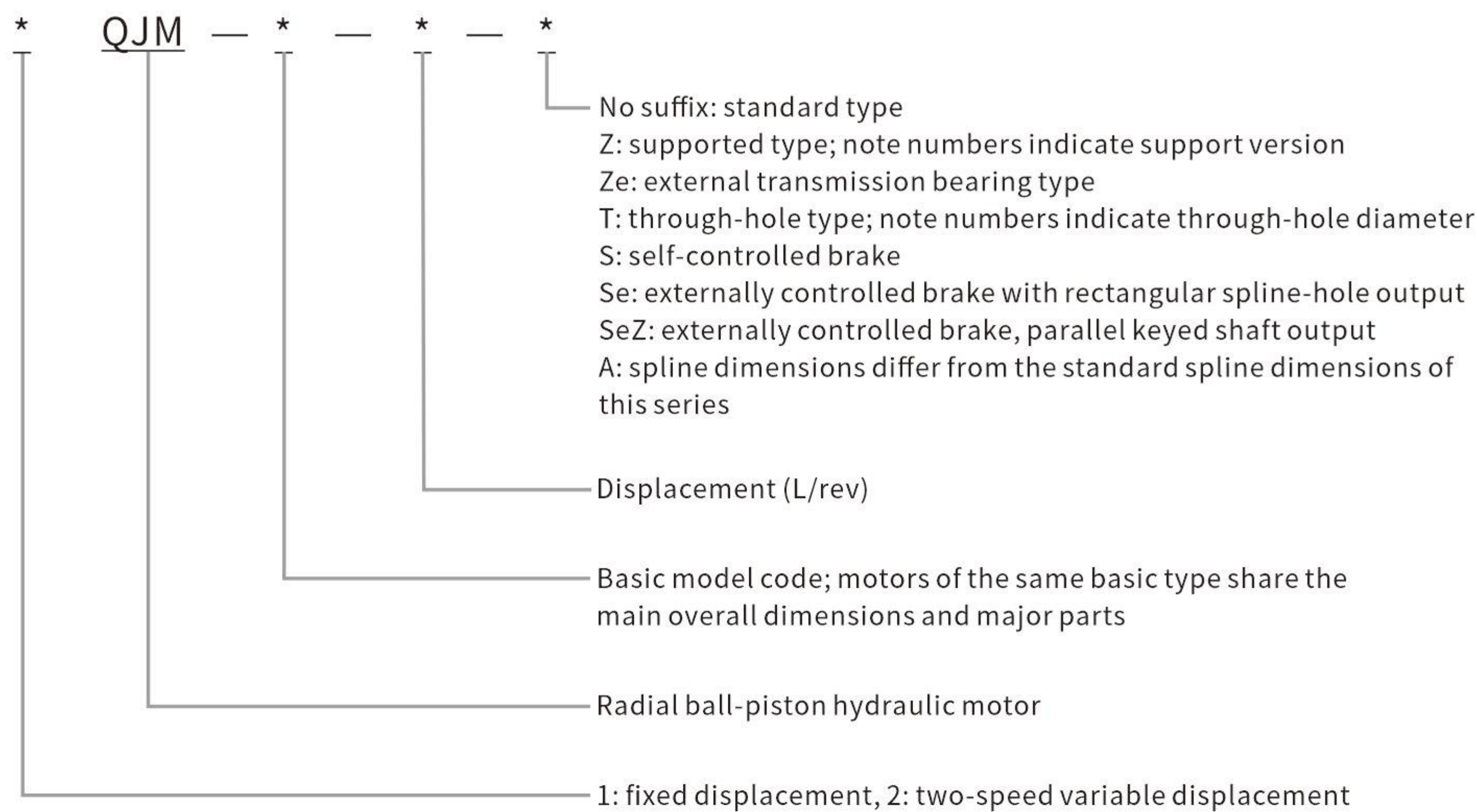
- Winches
- Slewing drives
- Mining machinery
- Construction machinery
- Marine equipment
- Metallurgical equipment
- Transport equipment
- Industrial machinery

1. Overview

The QJM series is a low-speed, high-torque radial ball-piston hydraulic motor designed for heavy-duty applications. The valve shaft is rigidly connected to the rear cover. The rotor is radially supported by the valve shaft, while the stator employs a spherical raceway with steel-ball axial support. The output shaft features an internal spline connection. The floating rotor structure enables stable operation, reliable commutation, and smooth performance under high loads.

QJM motors are widely used in winches, marine machinery, mining machinery, construction machinery, metallurgical equipment, and other hydraulic transmission systems, delivering durable and efficient power for a broad range of industrial and mobile applications.

2. Model Code Description



3. Model Code Example

2QJM21-0.63SZ indicates a two-speed variable-displacement radial ball-piston hydraulic motor, basic type 21, displacement 0.63 L/rev, with a self-controlled brake, supported structure, and parallel keyed shaft output.

Installation note: QJM motors can be installed in any direction. Because the rotor is in a floating state, the spline connection with the driven shaft should retain 2-3 mm axial clearance to ensure free axial movement and proper loose-fit alignment.

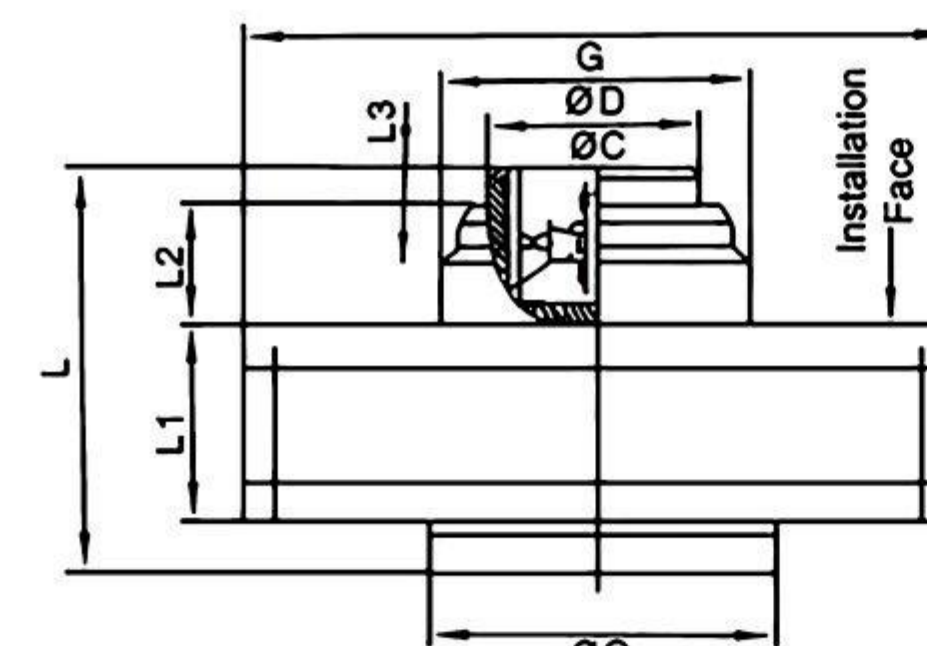
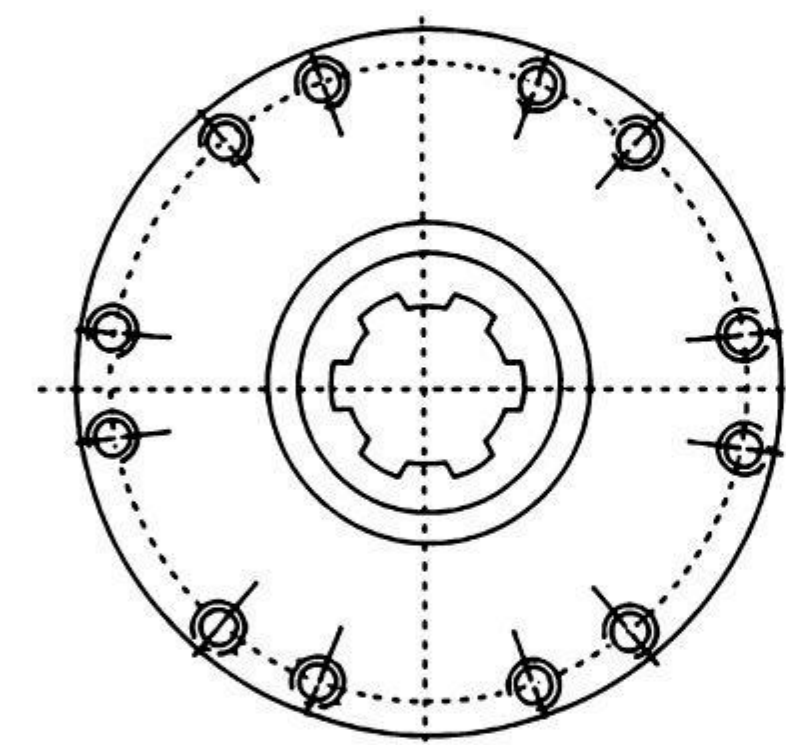
1QJM*—* Type Hydraulic Motor Technical Parameters

Model	Displacement (L/rev)	Pressure (MPa)		Speed Range (r/min)	Rated Torque (N.M)
		Rated	Peak		
1QJM001-0.063	0.064	10	16	8-600	95
1QJM001-0.08	0.083	10	16	8-500	123
1QJM001-0.10	0.104	10	16	8-400	154
1QJM01-0.1	0.10	10	16	8-400	148
1QJM01-0.16	0.163	10	16	8-350	241
1QJM01-0.2	0.203	10	16	8-320	300
1QJM02-0.32	0.326	10	16	5-320	483
1QJM02-0.4	0.406	10	16	5-320	600
1QJM11-0.32	0.339	10	16	5-400	468
1QJM11-0.4	0.404	10	16	5-400	598
1QJM11-0.5	0.496	10	16	5-320	734
1QJM11-0.63	0.664	10	16	4-250	983
1QJM12-0.8	0.808	10	16	4-250	1195
1QJM12-1.0	1.0	10	16	4-200	1480
1QJM12-1.25	1.33	10	16	4-160	1968
1QJM21-0.32	0.317	16	25	2-400	735
1QJM21-0.4	0.404	16	25	2-400	957
1QJM21-0.5	0.496	16	25	2-320	1175
1QJM21-0.63	0.664	16	25	2-250	1572
1QJM21-0.8	0.808	16	25	2-200	1913
1QJM21-1.0	1.01	10	16	2-160	1495
1QJM21-1.25	1.354	10	16	2-125	2004
1QJM21-1.6	1.65	10	16	2-100	2442
1QJM32-0.63	0.635	20	31.5	3-300	1880
1QJM32-0.8	0.808	20	31.5	3-250	2368
1QJM32-1.0	1.06	20	31.5	2-250	3138
1QJM32-1.25	1.295	20	31.5	2-200	3833
1QJM32-1.6	1.649	20	31.5	2-200	4881
1QJM32-2.0	2.03	16	25	2-200	4807
1QJM32-2.5	2.71	10	16	1-160	4011
1QJM32-3.2	3.3	10	16	1-125	4884
1QJM32-4.0	4.0	10	16	1-100	5920
1QJM42-2.0	2.11	20	31.5	1-250	6246
1QJM42-2.5	2.56	20	31.5	1-250	7578
1QJM42-3.2	3.24	10	16	1-200	4850
1QJM42-4.0	4.0	10	16	1-160	5920
1QJM42-4.5	4.6	10	16	1-125	6808
1QJM52-2.5	2.67	20	31.5	1-200	7903
1QJM52-3.2	3.24	20	31.5	1-200	9590
1QJM52-4.0	4.0	16	25	1-200	9472
1QJM52-5.0	5.23	10	16	1-160	7740
1QJM52-6.3	6.36	10	16	1-125	9413
1QJM62-4.0	4.0	20	31.5	0.5-150	11840
1QJM62-5.0	5.18	20	31.5	0.5-105	15333
1QJM62-6.3	6.27	16	25	0.5-125	14847
1QJM62-8.0	7.85	10	16	0.5-100	11618
1QJM62-10	10.15	10	16	0.5-80	15022

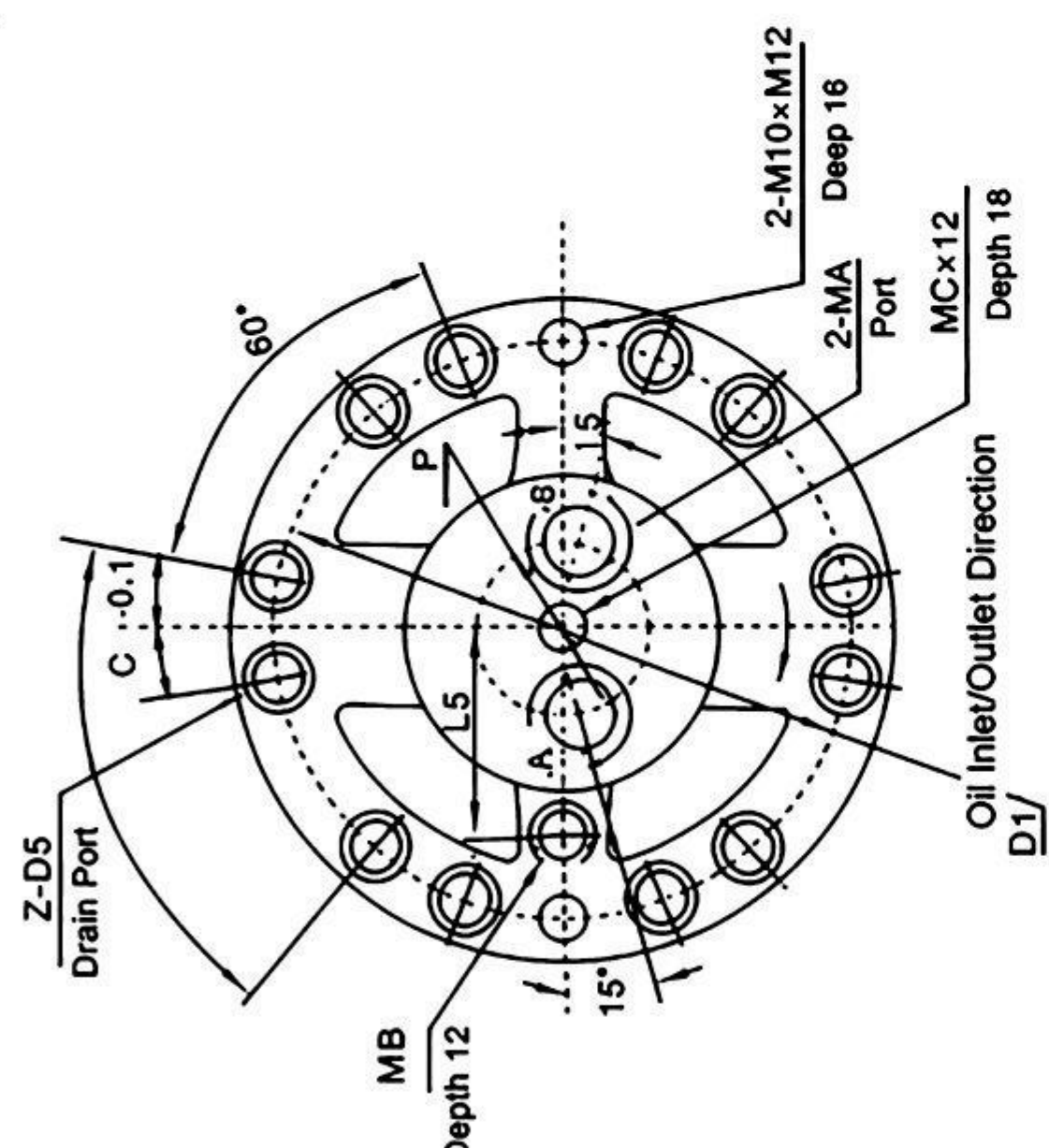
2QJM**-** Type Hydraulic Motor Technical Parameters

Model	Displacement (L/rev)		Pressure (MPa)		Speed Range (r/min)	Rated Torque (N.m)			
			Rated	Peak					
2QJM02-0.4	0.406	0.203	10	16	5-320	600	300		
2QJM11-0.4	0.404	0.202	10	16	5-400	598	299		
2QJM11-0.5	0.496	0.248	10	16	5-320	734	367		
2QJM11-0.63	0.664	0.332	10	16	4-250	938	492		
2QJM21-0.32	0.317	0.1585	16	25	2-320	751	376		
2QJM21-0.5	0.496	0.248	16	25	2-320	1175	588		
2QJM21-0.63	0.664	0.332	16	25	2-250	1572	786		
2QJM21-1.0	1.01	0.505	10	16	2-160	1495	748		
2QJM21-1.25	1.354	0.677	10	16	2-125	2004	1002		
2QJM21-1.6	1.65	0.825	10	16	2-100	2442	1221		
2QJM32-0.63	0.635	0.318	20	31.5	3-500	1880	940		
2QJM32-1.0	1.06	0.53	20	31.5	2-400	3138	1519		
2QJM32-1.25	1.295	0.648	20	31.5	2-320	3833	1917		
2QJM32-1.6	1.649	0.825	20	31.5	2-250	4881	2441		
2QJM32-1.6/0.4	1.6	0.4	20	31.5	2-250	4736	1184		
2QJM32-2.0	2.03	1.015	16	25	2-200	4807	2404		
2QJM32-2.5	2.71	1.355	10	16	1-160	4011	2006		
2QJM32-3.2	3.3	1.65	10	16	1-125	4844	2442		
2QJM32-4.0	4.0	2.0	10	16	1-100	5920	2960		
2QJM42-2.0	2.11	1.055	20	31.5	1-320	6246	3123		
2QJM42-2.5	2.56	1.28	20	31.5	1-250	7578	3789		
2QJM42-3.2	3.24	1.62	10	16	1-200	4850	2425		
2QJM42-4.0	4.0	2.0	10	16	1-160	5920	2960		
2QJM42-4.5	4.6	2.3	10	16	1-125	6808	3404		
2QJM52-2.5	2.67	1.335	20	31.5	1-320	7903	3952		
2QJM52-3.2	3.24	1.62	20	31.5	1-250	9590	4795		
2QJM52-4.0	4.0	2.0	16	25	1-200	9472	4736		
2QJM52-5.0	5.23	2.615	10	16	1-160	7740	3870		
2QJM52-6.3	6.36	3.18	10	16	1-125	9413	4707		
2QJM62-4.0	4.0	2.0	10	16	0.5-200	11840	5920		
2QJM62-5.0	5.18	2.59	20	31.5	0.5-160	15333	7667		
2QJM62-6.3	6.27	3.135	20	31.5	0.5-125	14847	7424		
2QJM62-8.0	7.85	3.925	16	25	0.5-100	11618	5809		
2QJM62-10	10.15	5.075	10	16	0.5-80	15022	7511		
3QJM32-1.25	1.295	0.648	0.324	20	31.5	2-320	3833	1917	959
3QJM32-1.6	1.649	0.825	0.413	20	31.5	2-250	4881	2441	1221

Outline Connection Dimensions



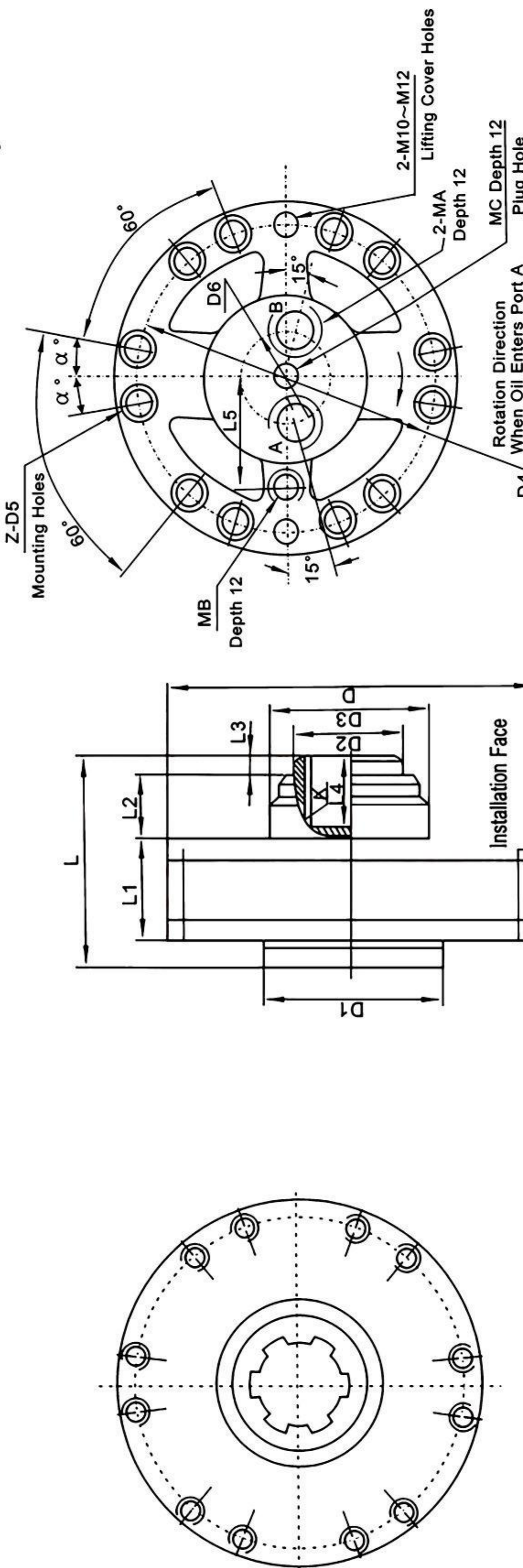
Outline Connection Dimensions



1 2 QJM**-** Z (Z3, Ze3) Type Hydraulic Motor Technical Parameters							
Model	Displacement (L/rev)		Pressure (MPa)		Speed Range (r/min)	Rated Torque (N.m)	
			Rated	Peak			
1QJM001-0.063Z	0.064		10	16	8-600	95	
1QJM001-0.08Z	0.083		10	16	8-500	123	
1QJM001-0.10Z	0.104		10	16	8-400	154	
1QJM002-0.2Z	0.2		10	16	5-320	295	
1QJM02-0.32Z	0.326		10	16	5-320	483	
1QJM02-0.4Z	0.406		10	16	5-320	600	
1QJM11-0.32Z	0.339		10	16	5-500	468	
1QJM11-0.4Z	0.404		10	16	5-400	598	
1QJM11-0.5Z	0.496		10	16	5-320	734	
1QJM11-0.63Z	0.664		10	16	4-250	983	
1QJM12-1.0Z	1.0		10	16	4-200	1480	
1QJM12-1.25Z	1.33		10	16	4-160	1968	
2QJM21-0.4Z3(Ze3)	0.4	0.2	16	25	2-400	957	479
1QJM21-0.5Z3(Ze3)	0.496	0.258	16	25	2-320	1175	588
2QJM21-0.63Z3(Ze3)	0.664	0.332	16	25	2-250	1572	786
1QJM21-0.8Z3(Ze3)	0.808	0.404	16	25	2-200	1913	957
2QJM21-1.0Z3(Ze3)	1.01	0.505	10	16	2-160	1495	748
1QJM21-1.25Z3(Ze3)	1.354	0.667	10	16	2-125	2004	1002
2QJM21-1.6Z3(Ze3)	1.65	0.825	10	16	2-100	2442	1221
2QJM32-0.63Z(Z3,Ze3)	0.635	0.318	20	31.5	3-300	1880	940
1QJM32-1.0Z(Z3,Ze3)	1.06	0.503	20	31.5	2-250	3138	1519
2QJM32-1.25Z(Z3,Ze3)	1.295	0.648	20	31.5	2-200	3833	1917
1QJM32-1.6Z(Z3,Ze3)	1.649	0.825	20	31.5	2-200	4881	2441
2QJM32-2.0Z(Z3,Ze3)	2.03	1.015	16	25	2-200	4807	2404
1QJM32-2.5Z(Z3,Ze3)	2.71	1.355	10	16	1-160	4011	2006
2QJM32-3.2Z(Z3,Ze3)	3.3	1.65	10	16	1-125	4884	2442
2QJM52-2.5Z	2.67	1.335	20	31.5	1-200	7903	3952
1QJM52-3.2Z	3.24	1.62	20	31.5	1-200	9590	4795
1QJM52-4.0Z	4.0	2.0	16	25	1-200	9472	4736
2QJM52-5.0Z	5.23	2.165	10	16	1-160	7740	3870
1QJM52-6.3Z	6.36	3.18	10	16	1-125	9413	4707
1QJM62-4.0Z	4.0	2.0	20	31.5	0.5-150	11840	5920
2QJM62-5.0Z	5.18	2.59	20	31.5	0.5-125	15333	7667
1QJM62-6.3Z	6.27	3.135	16	25	0.5-125	14847	7424
2QJM62-8.0Z	7.85	3.925	10	16	0.5-100	11618	5809
1QJM62-10Z	10.15	5.075	10	16	0.5-80	15022	7511

Outline Connection Dimensions

Mounting Holes When Screws Pass Through from the Rear End of the Hydraulic Motor



Model	L	L1	L2	L3	L4	L5	L6	D	D1	D2	Connection Pilot D3	D4	D5	D6	Inlet / Outlet Port MA	Drain Port MB	MC	α °	K	Weight (Kg)
1QJM001-0.063Z	101	68	28	5	26	43	20	φ 141	-	φ 60	φ 110g6	φ 128±0.3	12-φ 65	-	M18×1.5	M16×1.5	-	10°	48b12×42b12×129d9	7
1QJM001-0.08Z	130	80	38	3	30	62	20	φ 180	φ 100	φ 70	φ 130g7	φ 165±0.3	12-φ 9	φ 58	M27×2	M14×1.5	-	10°	48b12×42b12×129d9	15
1QJM001-0.10Z	155	99	38	5	30	62	20	φ 180	φ 100	φ 70	φ 130g7	φ 165±0.3	12-φ 9	φ 58	M27×2	M14×1.5	-	10°	48b12×42b12×129d9	20
1QJM002-0.2Z	136	82	33	3	32	87	18	φ 240	φ 150	φ 100	φ 160g7	φ 220±0.3	12-φ 11	φ 69	M33×2	M16×1.5	M12×1.5	10°	48b12×42b12×129d9	28
1QJM02-0.32Z	134	82	25	11	38	87	18	φ 240	φ 150	φ 60	φ 200g7	φ 220±0.3	12-φ 11	φ 69	M33×2	M16×1.5	-	10°	48b12×42b12×129d9	28
1QJM02-0.4Z	170	123	35	2	39	87	20	φ 240	φ 150	φ 110	φ 160g7	φ 220±0.3	12-φ 11	φ 69	M33×2	M16×1.5	M12×1.5	10°	48b12×42b12×129d9	39
1QJM11-0.32Z	170	123	35	2	39	87	20	φ 240	φ 150	φ 110	φ 160g7	φ 220±0.3	12-φ 11	φ 69	M33×2	M16×1.5	-	10°	48b12×42b12×129d9	39
1QJM11-0.4Z	168	99	29	14	38	100	20	φ 304	φ 150	φ 110	φ 160g7	φ 283±0.3	12-φ 11	φ 69	M33×2	M22×1.5	M12×1.5	10°	48b12×42b12×129d9	50
1QJM11-0.5Z	215	138	43	10	55	115	22	φ 322	φ 165	φ 120	φ 170g7	φ 298±0.3	12-φ 13	φ 79	M33×2	M22×1.5	M12×1.5	10°	48b12×42b12×129d9	80
1QJM11-0.63Z	209	160	16	12	35	124	22	φ 350	φ 190	φ 140	φ 200g7	φ 320±0.3	12-φ 13	φ 100	M42×2	M22×1.5	M12×1.5	10°	48b12×42b12×129d9	90
1QJM12-1.0Z	207	158	23	5	35	124	22	φ 340	φ 190	φ 120	φ 170g7	φ 320±0.3	12-φ 13	φ 100	M42×2	M22×1.5	-	10°	48b12×42b12×129d9	90
1QJM12-1.25Z	238	175	30	6	45	135	24	φ 420	φ 220	φ 120	φ 315g7	φ 360±0.3	6-φ 22	φ 110	M48×2	M22×1.5	M16×1.5	6°	48b12×42b12×129d9	150
1QJM12-1.5Z	264	182	29	11	45	165	24	φ 485	φ 255	φ 170	φ 395g7	φ 435±0.3	10-φ 22	φ 128	M48×2	M22×1.5	M16×1.5	6°	48b12×42b12×129d9	200

1 QJM※※——※※Z (Z3, Ze3) Hydraulic Motor Technical Parameters							
Model	Displacement (L/rev)		Pressure (MPa)		Speed Range (r/min)	Rated Torque (N.m)	
			Rated	Peak			
1QJM001-0.063Z	0.064		10	16	8-600	95	
1QJM001-0.08Z	0.083		10	16	8-500	123	
1QJM001-0.10Z	0.104		10	16	8-400	154	
1QJM002-0.2Z	0.2		10	16	5-320	295	
1QJM02-0.32Z	0.326		10	16	5-320	483	
1QJM02-0.4Z	0.406		10	16	5-320	600	
1QJM11-0.32Z	0.339		10	16	5-500	468	
1QJM11-0.4Z	0.404		10	16	5-400	598	
1QJM11-0.5Z	0.496		10	16	5-320	734	
1QJM11-0.63Z	0.664		10	16	4-250	983	
1QJM12-1.0Z	1.0		10	16	4-200	1480	
1QJM12-1.25Z	1.33		10	16	4-160	1968	
1QJM21-0.4Z3(Ze3)	0.4	0.2	16	25	2-400	957	479
1QJM21-0.5Z3(Ze3)	0.496	0.258	16	25	2-320	1175	588
1QJM21-0.63Z3(Ze3)	0.664	0.332	16	25	2-250	1572	786
1QJM21-0.8Z3(Ze3)	0.808	0.404	16	25	2-200	1913	957
1QJM21-1.0Z3(Ze3)	1.01	0.505	10	16	2-160	1495	748
1QJM21-1.25Z3(Ze3)	1.354	0.667	10	16	2-125	2004	1002
1QJM21-1.6Z3(Ze3)	1.65	0.825	10	16	2-100	2442	1221
1QJM32-0.63Z(Z3,Ze3)	0.635	0.318	20	31.5	3-300	1880	940
1QJM32-1.0Z(Z3,Ze3)	1.06	0.503	20	31.5	2-250	3138	1519
1QJM32-1.25Z(Z3,Ze3)	1.295	0.648	20	31.5	2-200	3833	1917
1QJM32-1.6Z(Z3,Ze3)	1.649	0.825	20	31.5	2-200	4881	2441
1QJM32-2.0Z(Z3,Ze3)	2.03	1.015	16	25	2-200	4807	2404
1QJM32-2.5Z(Z3,Ze3)	2.71	1.355	10	16	1-160	4011	2006
1QJM32-3.2Z(Z3,Ze3)	3.3	1.65	10	16	1-125	4884	2442
1QJM52-2.5Z	2.67	1.335	20	31.5	1-200	7903	3952
1QJM52-3.2Z	3.24	1.62	20	31.5	1-200	9590	4795
1QJM52-4.0Z	4.0	2.0	16	25	1-200	9472	4736
1QJM52-5.0Z	5.23	2.165	10	16	1-160	7740	3870
1QJM52-6.3Z	6.36	3.18	10	16	1-125	9413	4707
1QJM62-4.0Z	4.0	2.0	20	31.5	0.5-150	11840	5920
1QJM62-5.0Z	5.18	2.59	20	31.5	0.5-125	15333	7667
1QJM62-6.3Z	6.27	3.135	16	25	0.5-125	14847	7424
1QJM62-8.0Z	7.85	3.925	10	16	0.5-100	11618	5809
1QJM62-10Z	10.15	5.075	10	16	0.5-80	15022	7511

BM1 Gerotor Hydraulic Motor

1. Overview

BM1 motor is a small-size spool-valve gerotor hydraulic motor.

2. Features of BM1 Motor

1. Small size, light weight, and compact structure.
2. Wide speed range without the need for a speed-changing mechanism.
3. Low starting pressure and easy reversing.
4. It can be used in series or in parallel in hydraulic systems.
5. Reliable sealing control design allows the motor to withstand relatively high back pressure and ensures leak-free operation.
6. Multiple mounting connection options are available, including various flanges, output shafts, and oil ports.



3. Main Performance Parameters

Displacement ml/r		50	63	80	100	125	160	200
Flow L/min	Rated	45	45	57	57	57	57	57
	Max.	53	53	68	68	68	68	68
Speed r/min	Rated	870	692	684	547	475	353	276
	Max.	1020	816	824	659	560	364	290
Pressure MPa	Rated	12.4	12.4	12.4	12.4	12.4	11.5	11
	Max.	13.8	13.8	13.8	13.8	13.8	12.4	12.4
Torque Nm	Rated	78	99	126	158	197	234	280
	Max.	86	110	140	176	222	256	365
Reference Weight Kg		5.1	5.4	5.6	6.2	6.5	6.7	6.9

4. Notes

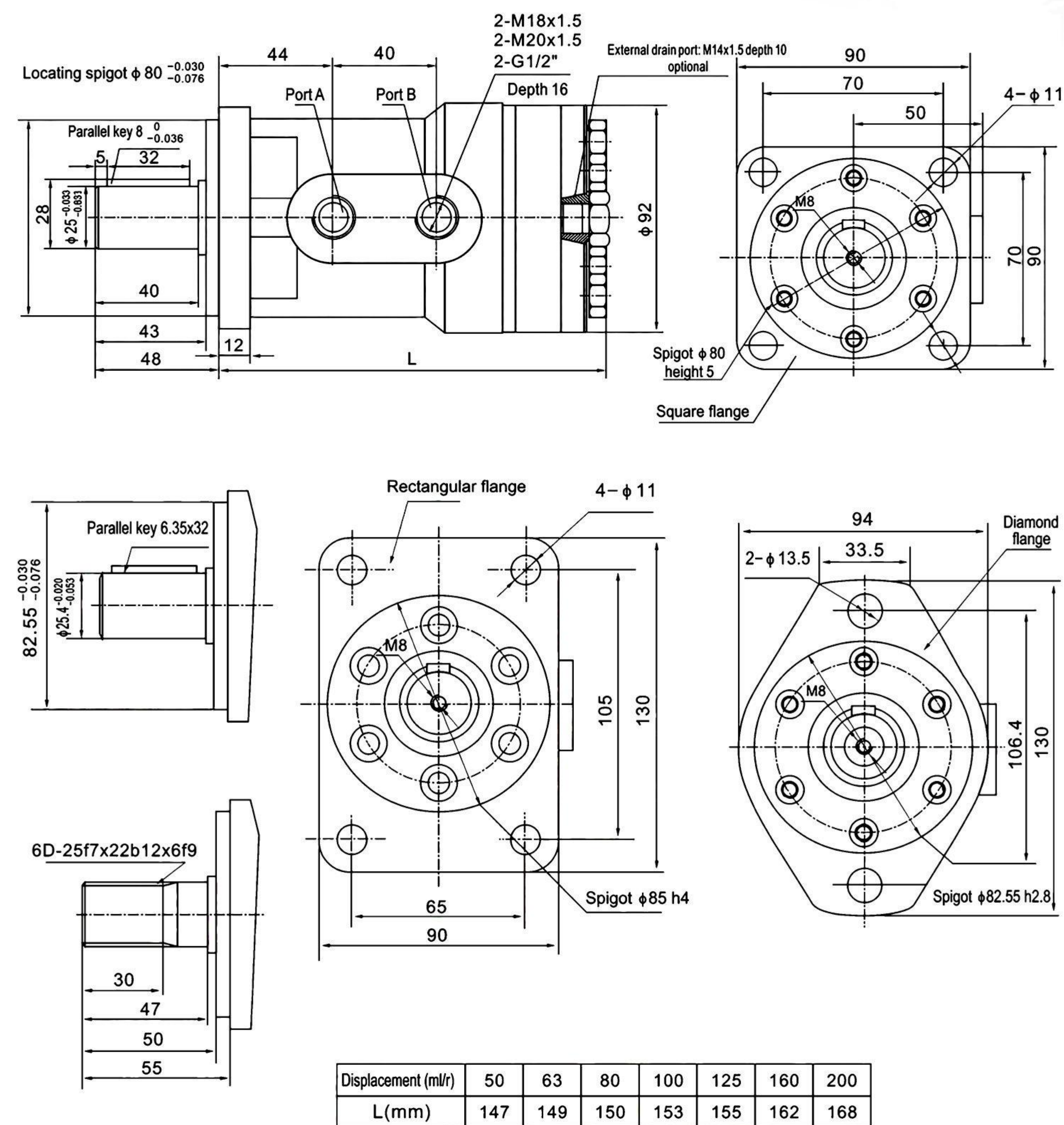
1. The maximum working pressure refers to the maximum allowable inlet pressure.
2. The rated working pressure refers to the working pressure differential.
3. The motor should not be operated at maximum speed and maximum pressure at the same time.
4. The maximum working condition is allowed for a continuous duration of no more than 6 seconds.
5. Recommended oil: anti-wear hydraulic oil, viscosity 37-73 cSt, oil cleanliness ISO 18/13.
6. Maximum working oil temperature: 80°C.
7. Before operating the motor at full load, it must be run in at 30% of the rated pressure for more than 1 hour.
8. With reliable sealing control design, the maximum allowable back pressure of the motor can reach 7 MPa. However, to achieve better service life and overall performance, it is recommended that the back pressure should not exceed 3.5 MPa. If it exceeds this value, an external drain line is recommended.

When connecting an external drain line, ensure that the motor is always completely filled with oil. The external drain line should have a certain throttling effect to maintain a back pressure above 0.35 MPa. In addition to maintaining a relatively low back pressure, the external drain line can also carry away wear contaminants generated inside the motor and provide a certain cooling effect.

5. Product Ordering Information

For ordering, please refer to the dimensions and outline drawings. Select the corresponding code from the table below according to the specific motor type chosen. If a special connection method is required, please contact JST Company.

Product Features			Displacement / Code No.						
Flange	Output Shaft	Port	50	63	80	100	160	200	125
Square flange, pilot $\phi 80$	$\phi 25$ straight shaft, parallel key 8	M18x1.5	310-0010	-0011	-0012	-0013	-0014	-0015	-0019
Square flange, pilot $\phi 80$	$\phi 25$ straight shaft, parallel key 8	M18x1.5 Drain port M14x1.5	310-0020	-0021	-0022	-0023	-0024	-0025	-0029
Diamond flange, pilot $\phi 82.55$	$\phi 25$ shaft, parallel key 8	M18x1.5	310-0030	-0031	-0032	-0033	-0034	-0035	-0039
Diamond flange, pilot $\phi 82.55$	$\phi 25$ shaft, parallel key 8	M18x1.5 Drain port M14x1.5	310-0040	-0041	-0042	-0043	-0044	-0045	-0049
Diamond flange, pilot $\phi 82.55$	$\phi 25$ shaft, parallel key 8	G1/2" Drain port M14x1.5	310-0080	-0081	-0082	-0083	-0084	-0085	-0089
Square flange, pilot $\phi 80$	Shaft 6D-25x22x6	M18x1.5 Drain port M14x1.5	310-1110	-1111	-1112	-1113	-1114	-1115	-1119
Rectangular flange, pilot $\phi 85$, with dust cover	Shaft 6D-25x22x6	M20x1.5 Drain port M14x1.5	310-1140	-1141	-1142	-1143	-1144	-1145	-1149
Diamond flange, pilot $\phi 82.55$	$\phi 25$ shaft, parallel key 8	G1/2"	310-0160	-0161	-0162	-0163	-0164	-0165	-0169
Square flange, pilot $\phi 80$	$\phi 25$ shaft, parallel key 8	G1/2"	310-0170	-0171	-0172	-0173	-0174	-0175	-0179
Diamond flange, pilot $\phi 82.55$	$\phi 25.4$ shaft, parallel key	G1/2"	310-0180	-0181	-0182	-0183	-0184	-0185	-0189
Square flange, pilot $\phi 80$, with dust cover	$\phi 25$ shaft, parallel key 8	M18x1.5 Drain port M14x1.5	310-0120	-0121	-0122	-0123	-0124	-0125	-0129
Diamond flange, pilot $\phi 82.55$, with dust cover	$\phi 25$ shaft, parallel key 8	M18x1.5 Drain port M14x1.5	310-0050	-0051	-0052	-0053	-0054	-0055	-0059
Diamond flange, pilot $\phi 82.55$, with dust cover	$\phi 25$ shaft, parallel key 8	G1/2" Drain port M14x1.5	310-0230	-0231	-0232	-0233	-0234	-0235	-0239



BM1 Motor Outline and Mounting Dimensions

Standard rotation: viewed from the output shaft side, when port A is the inlet and port B is the return port, the motor rotates clockwise.

BM2 Gerotor Hydraulic Motor

1. Overview

The BM2 motor is a spool-valve gerotor hydraulic motor, suitable for driving injection molding machines, small vehicles, and various machinery.

2. Features of BM2 Motor:

1. It adopts a gerotor gear-set design, providing smooth operation and long service life.
2. Low starting pressure and easy reversing.
3. It can be used in series or in parallel in hydraulic systems.
4. Reliable sealing control design allows the motor to withstand relatively high pressure and ensures leak-free operation.
5. Multiple mounting connection options are available, including various flanges, output shafts, and oil ports.
6. Small size and compact structure.



3. Main Performance Parameters

Displacement ml/r		80	100	160	200	250	315	400
Flow L/min	Rated	50	53	53	53	53	53	53
	Max.	57	57	57	57	57	57	57
Speed r/min	Rated	600	480	305	240	185	151	128
	Max.	650	520	330	270	210	180	140
Pressure MPa	Rated	13.8	13.8	12.4	12.4	12.4	10.3	9
	Max.	15.5	15.5	13.8	13.8	13.8	12.4	10.3
Torque Nm	Rated	150	189	259	315	385	408	435
	Max.	170	213	287	348	395	479	485
Reference Weight Kg		10	10.5	11	11.2	11.6	12	12.5

4. Notes

1. The maximum working pressure refers to the maximum allowable inlet pressure.
2. The rated working pressure refers to the working pressure differential.
3. The motor should not be operated at maximum speed and maximum pressure at the same time.
4. The maximum working condition is allowed for a continuous duration of no more than 6 seconds.
5. Recommended oil: anti-wear hydraulic oil, viscosity 37–73 cSt, oil cleanliness ISO 18/13.
6. Maximum working oil temperature: 80°C.
7. Before operating the motor at full load, it must be run in at 30% of the rated pressure for more than 1 hour.
8. With reliable dynamic sealing control design, the maximum allowable back pressure of the motor can reach 7 MPa. However, to achieve better service life and overall performance, it is recommended that the back pressure should not exceed 3.5 MPa. If it exceeds this value, an external drain line is recommended. When connecting an external drain line, ensure that the motor is always completely filled with oil. The external drain line should have a certain throttling effect to maintain a back pressure above 0.35 MPa. In addition to maintaining relatively low back pressure, the external drain line can also carry away wear contaminants generated inside the motor and provide a certain cooling effect.

Product Features			Displacement / Code No.							
Flange	Output Shaft	Ports	80	100	160	200	250	315	400	500
Small Square Flange Pilot Ø80	Ø25 Shaft, No Drain Port	Port M18x1.5	320-0012	-0013	-0014	-0015	-0016	-0017	-0018	-0019
Small Square Flange Pilot Ø80	Ø25 Shaft, Single Key 8	2-M18x1.5 / Drain Port M14x1.5	320-0022	-0023	-0024	-0025	-0026	-0027	-0028	-0029
Diamond Flange Pilot Ø82.55	Shaft Ø25, Single Key 8	2-M18x1.5 / No Drain Port	320-0032	-0033	-0034	-0035	-0036	-0037	-0038	-0039
Diamond Flange Pilot Ø82.55	Shaft Ø25, Single Key 8	2-M18x1.5 / Drain Port M14x1.5	320-0042	-0043	-0044	-0045	-0046	-0047	-0048	-0049
Diamond Flange Pilot Ø82.55	Shaft Ø25, Single Key 6.35	2-G1/2" / No Drain Port	320-0052	-0053	-0054	-0055	-0056	-0057	-0058	-0059
Diamond Flange Pilot Ø82.55	Shaft Ø25, Single Key 8	2-G1/2" / No Drain Port	320-0062	-0063	-0064	-0065	-0066	-0067	-0068	-0069
Diamond Flange Pilot Ø82.55	Shaft Ø25, Single Key 6.35	2-G1/2" / Drain Port M14x1.5	320-0072	-0073	-0074	-0075	-0076	-0077	-0078	-0079
Diamond Flange Pilot Ø82.55	Shaft Ø25, Single Key 8	2-G1/2" / Drain Port M14x1.5	320-0082	-0083	-0084	-0085	-0086	-0087	-0088	-0089
Large Square Flange Pilot Ø100	Output Shaft 6D-30x26x8	M22x1.5 / Drain Port M14x1.5	320-1092	-1093	-1094	-1095	-1096	-1097	-1098	-1099
Large Square Flange Pilot Ø100	Output Shaft 6D-30x26x6	M22x1.5 / Drain Port M14x1.5	320-1102	-1103	-1104	-1105	-1106	-1107	-1108	-1109
Large Square Flange Pilot Ø100	Shaft Ø25, Single Key 8	M22x1.5 / Drain Port M14x1.5	320-0112	-0113	-0114	-0115	-0116	-0117	-0118	-0119
Large Square Flange Pilot Ø100	Shaft Ø30, Single Key 8	M22x1.5 / Drain Port M14x1.5	320-0122	-0123	-0124	-0125	-0126	-0127	-0128	-0129
Large Square Flange Pilot Ø100	Output Shaft 6D-30x26x6	M22x1.5 / Center Distance 46, Internal Drain	320-1142	-1143	-1144	-1145	-1146	-1147	-1148	-1149

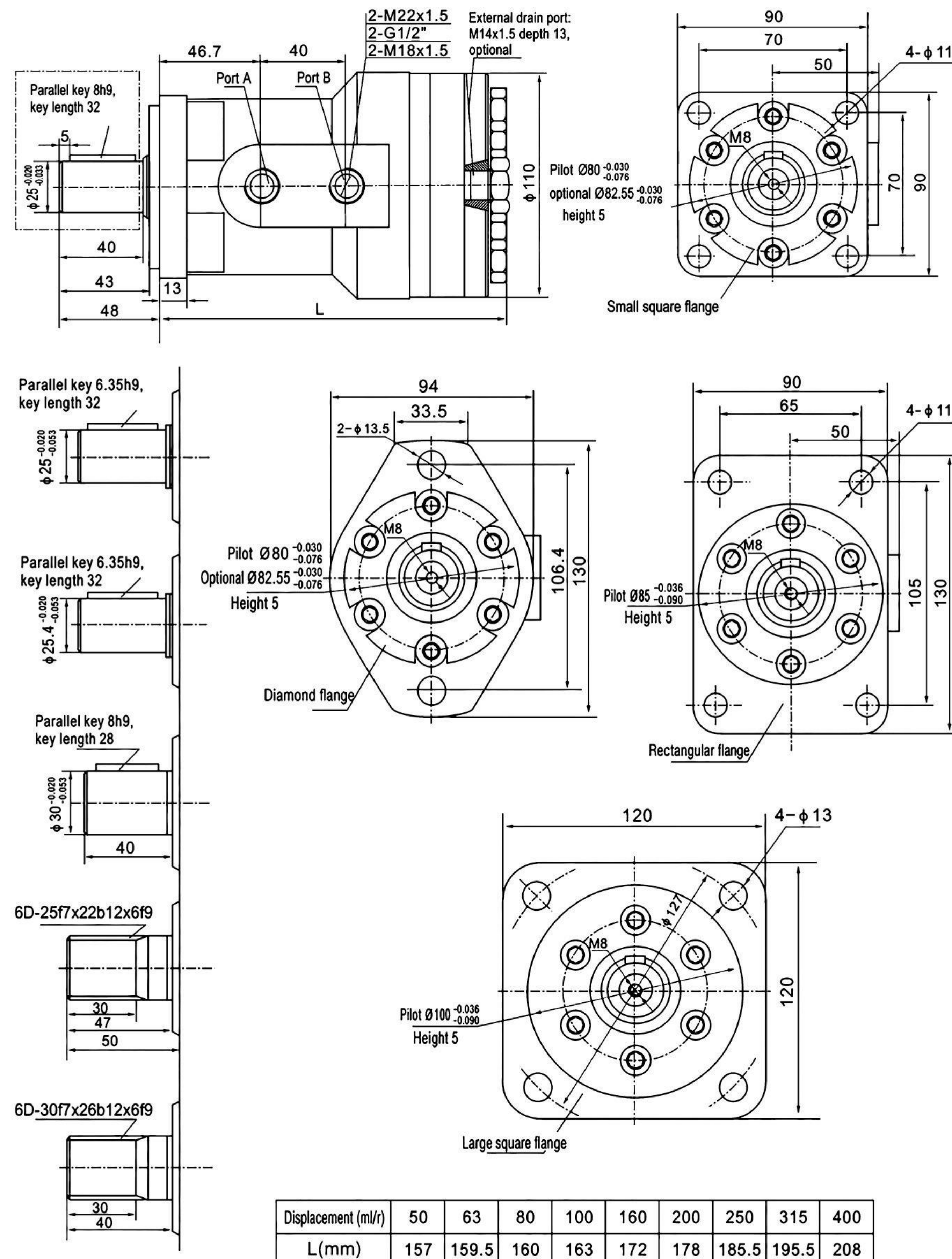
Rhombic flange Pilot dia. Ø82.55	Shaft Ø25.4, single key 6.35	2-G1/2" Drain port M14x1.5	320-0152	-0153	-0154	-0155	-0156	-0157	-0158	-0159
Rhombic flange Pilot dia. Ø82.55	Shaft Ø25.4, single key 6.35	2-G1/2" No drain port	320-0172	-0173	-0174	-0175	-0176	-0177	-0178	-0179
Large square flange Pilot dia. Ø100	Output shaft 6D-30x26x8	M22x1.5 No drain port	320-1182	-1183	-1184	-1185	-1186	-1187	-1188	-1189
Large square flange Pilot dia. Ø100	Output shaft 6D-30x26x6	M22x1.5 No drain port	320-1192	-1193	-1194	-1195	-1196	-1197	-1198	-1199
Large square flange Pilot dia. Ø100	Shaft Ø25, single key 8	Port 2-M22x1.5 No drain port	320-0202	-0203	-0204	-0205	-0206	-0207	-0208	-0209
Large square flange Pilot dia. Ø100	Shaft Ø30, single key 8	Port M22x1.5 No drain port	320-0212	-0213	-0214	-0215	-0216	-0217	-0218	-0219
Rectangular flange Pilot dia. Ø85	Output shaft 6D-25x22x6	Port M22x1.5	320-1242	-1243	-1244	-1245	-1246	-1247	-1248	-1249
Rhombic flange Pilot dia. Ø82.55	Output shaft 6D-25x22x6	Port G1/2" Drain port	320-1352	1353	-1354	-1355	-1356	-1357	-1358	-1359
Rhombic flange Pilot dia. Ø80	Shaft Ø30, single key 8	M22x1.5 No drain port	320-0512	-0513	-0514	-0515	-0516	-0517	-0518	-0519
Small square flange Pilot dia. Ø82.55	Shaft Ø25, single key 8	Port M18x1.5 No external drain port	320-0092	-0093	-0094	-0095	-0096	-0097	-0098	-0099

5. Product Ordering Information

For ordering, please refer to the dimensions and outline drawings. Select the corresponding code from the table below according to the specific motor type selected. If a special connection method is required, please contact JST Company.

BM2 Motor Outline and Mounting Dimensions

Standard rotation: viewed from the output shaft side, when port A is the inlet and port B is the return port, the motor rotates clockwise.



BM5 Gerotor Hydraulic Motor

1. Overview

The BM5 motor is an end-face distribution gerotor hydraulic motor with pressure compensation function. It adopts an advanced roller-type stator-rotor parameter design, with technical parameters and overall dimensions similar to the 2KJ/2KS series hydraulic motors. It is available in three types: standard motor, wheel motor, and bearingless motor.



2. Features of BM5 Motor

1. Advanced stator-rotor parameter design, low starting pressure, high efficiency, and stable low-speed operation.
2. Higher working pressure and high output torque.
3. Advanced shaft seal design with high back-pressure resistance.
4. Advanced and reliable drive shaft design, improving the service life of the motor.
5. Advanced distribution mechanism design, featuring high distribution accuracy and automatic wear compensation.
6. It can be used in series or in parallel in hydraulic systems. When used in series, an external drain line should be connected.
7. It adopts a tapered roller bearing design, providing high radial load capacity and allowing the motor to directly drive working mechanisms.

3. Main Performance Parameters

Displacement ml/r		80	100	125	160	200	250	315	400
Flow L/min	Continuous	75	75	75	75	75	75	75	75
	Intermittent	75	95	95	115	115	115	115	130
Speed r/min	Max. Continuous	799	742	576	477	385	308	226	191
	Intermittent	908	924	720	713	577	462	346	335
Pressure MPa	Continuous	20.5	20.5	20.5	20.5	20.5	20.5	20.5	15.5
	Intermittent	31	31	31	26	26	26	24	24
	Peak	31	31	31	31	31	31	31	22.5
Torque Nm	Continuous	235	295	385	455	540	660	781	775
	Intermittent	345	445	560	570	665	820	902	920
Reference Weight Kg		18	18.5	19	19.5	20.4	20.5	21	22

4. Notes

1. Avoid operating the motor at maximum speed and maximum pressure at the same time.
2. The torque values listed in the table apply to output shafts with a diameter of 32 mm and 1.25". For a 1" output shaft, the allowable maximum continuous torque and intermittent torque are 395 Nm and 485 Nm respectively.
3. When the allowable back pressure is exceeded, an external drain line should be connected, and the motor must always remain completely filled with hydraulic oil.
4. Peak pressure refers to the maximum inlet pressure. Continuous pressure and intermittent pressure are both return-line working pressure differentials, but the inlet pressure must not exceed the peak pressure.
5. Intermittent operation of the motor should not exceed 6 seconds, and peak operation should not exceed 0.6 seconds.
6. Maximum working oil temperature: 80°C.
7. Recommended oil: anti-wear hydraulic oil, viscosity 37-73 cSt, oil cleanliness ISO 18/13.
8. Before operating the motor at full load, it must be run in at 30% of the rated pressure for more than one hour.

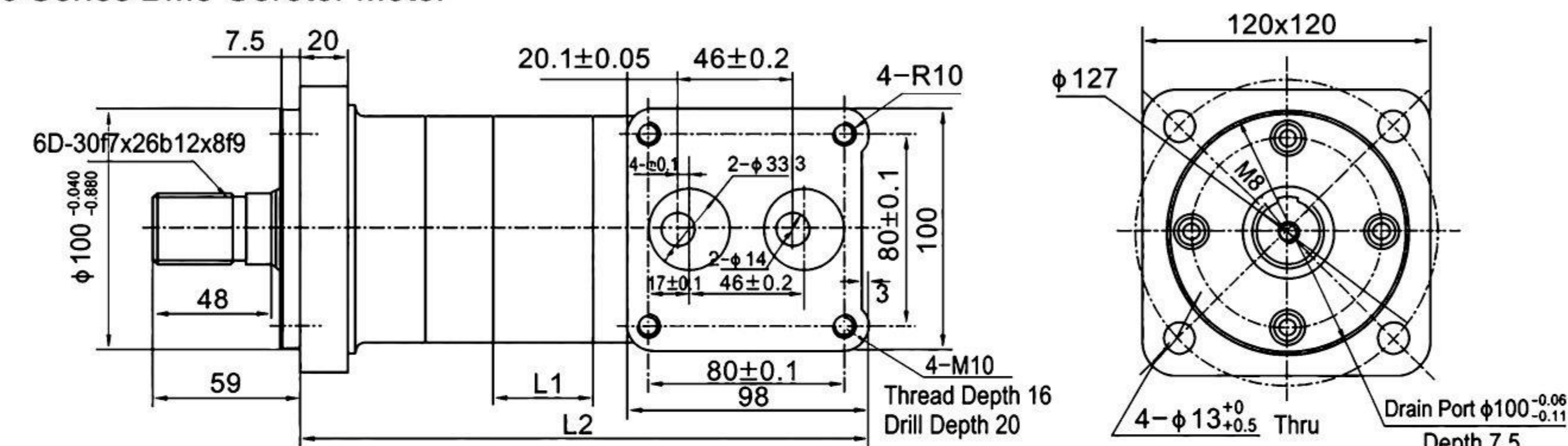
9. With reliable dynamic sealing control design, the maximum allowable back pressure of the motor can exceed 7 MPa. However, to obtain better service life and overall performance, it is recommended that the back pressure should not exceed 3.5 MPa. If it exceeds this value, an external drain line should be connected. When connecting an external drain line, ensure that the motor is always completely filled with oil. The external drain line should have a certain throttling effect to maintain a back pressure above 0.35 MPa. In addition to maintaining relatively low back pressure, the external drain line can also carry away wear contaminants generated inside the motor and provide a certain cooling effect.

5. Product Ordering Information

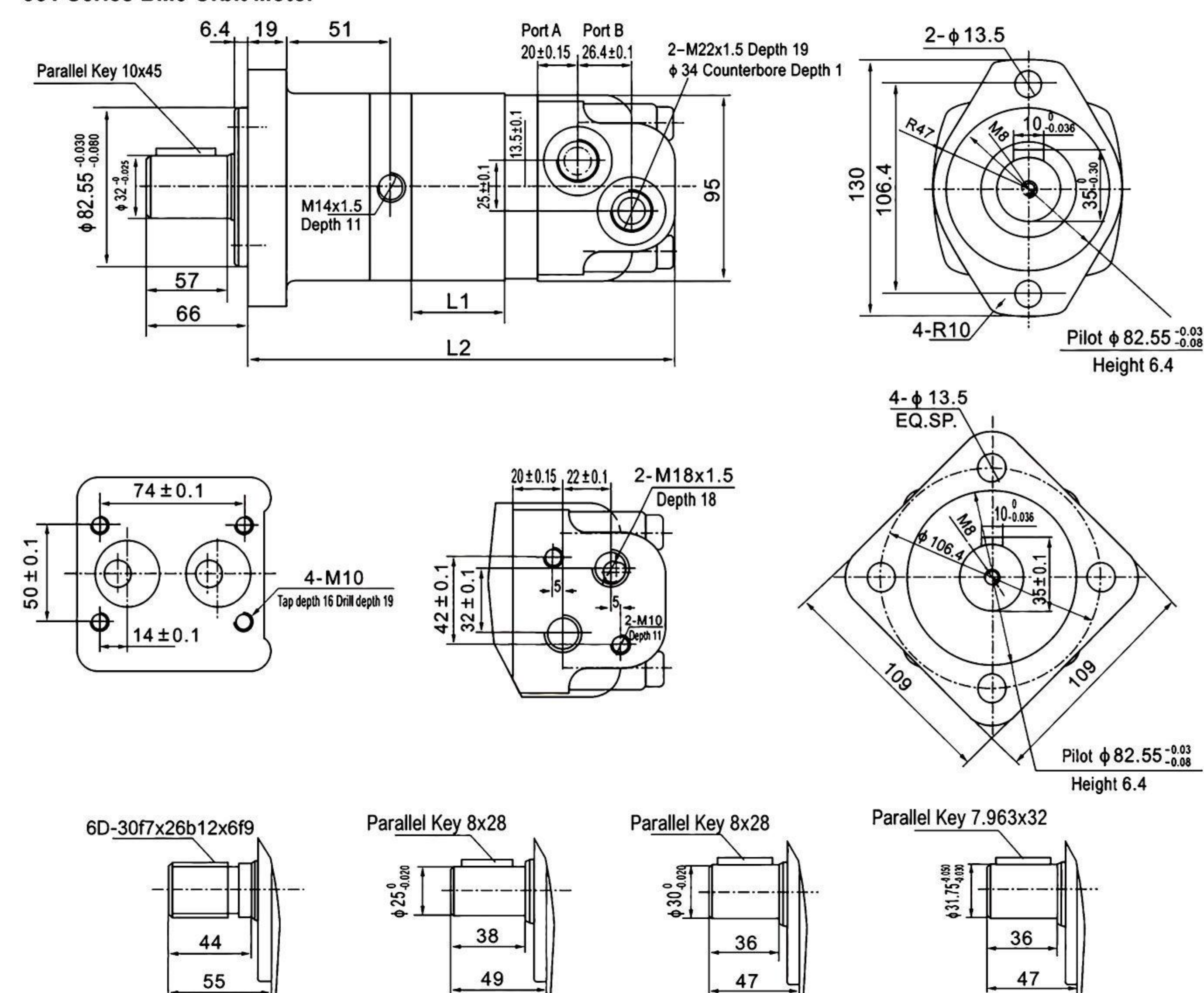
For ordering, please refer to the dimensions and outline drawings. Select the corresponding code from the table below according to the specific motor type selected. If a special connection method is required, please contact JST Company.

Product Features			Displacement / Code							
Flange	Output Shaft	Oil Port	80	100	125	160	200	250	315	400
Large square flange 120×120 / Pilot φ 100	Shaft 6D-30x26x8	M22x1.5 (manual reversing valve)	350-1021	-1022	-1023	-1024	-1025	-1026	-1027	-1028
Large square flange 120×120 / Pilot φ 100	Shaft 6D-30x26x6	M22x1.5 (manual reversing valve)	350-1041	-1042	-1043	-1044	-1045	-1046	-1047	-1048
Large square flange 120×120 / Pilot φ 100	φ 25 shaft, parallel key 8	M22x1.5 (manual reversing valve)	350-0061	-0062	-0063	-0064	-0065	-0066	-0067	-0068
Large square flange 120×120 / Pilot φ 100	φ 30 shaft, parallel key 8	M22x1.5 (manual reversing valve)	350-0081	-0082	-0083	-0084	-0085	-0086	-0087	-0088
Diamond flange / Pilot φ 82.55	φ 25 shaft, parallel key 8	M22x1.5 drain port M14x1.5	351-0021	-0022	-0023	-0024	-0025	-0026	-0027	-0028
Diamond flange / Pilot φ 82.55	φ 30 shaft, parallel key 8	M22x1.5 drain port M14x1.5	351-0031	-0032	-0033	-0034	-0035	-0036	-0037	-0038
Small square flange 109×109 / Pilot φ 82.55	φ 32 shaft, parallel key 10	G1/2" drain port G1/4"	351-0381	-0382	-0383	-0384	-0385	-0386	-0378	-0388
Small square flange 109×109 / Pilot φ 80	φ 25 shaft, parallel key 8	M18x1.5 drain port M14x1.5	351-0311	-0312	-0313	-0314	-0315	-0316	-0317	-0318
Small square flange 109×109 / Pilot φ 82.55	Shaft 6D-30x26x6	M22x1.5 drain port M14x1.5	351-1111	-1112	-1113	-1114	-1115	-1116	-1117	-1118
Diamond flange / Pilot φ 82.55	φ 32 shaft, parallel key 10	M22x1.5 drain port M14x1.5	351-0071	-0072	-0073	-0074	-0075	-0076	-0077	-0078
Diamond flange / Pilot φ 82.55	φ 1.25" shaft, parallel key 7.963	M22x1.5 drain port M14x1.5	351-0491	-0492	-0493	-0494	-0495	-0496	-0497	-0498
Diamond flange / Pilot φ 82.55	Shaft 6D-30x26x6	M22x1.5 drain port M14x1.5	351-1031	-1032	-1033	-1034	-1035	-1036	-1037	-1038
Small square flange 109×109 / Pilot φ 82.55	φ 32 shaft, parallel key 10	M22x1.5 drain port M14x1.5	351-0041	-0042	-0043	-0044	-0045	-0046	-0047	-0049
Large square flange 120×120 / Pilot φ 100	Shaft 6D-30x26x8	M22x1.5 (manual reversing valve)	350-1051	-1052	-1053	-1054	-1055	-1056	-1057	-1058
Large square flange 120×120 / Pilot φ 100	Shaft 6D-30x26x8	M22x1.5 drain port M14x1.5	350-1001	-1002	-1003	-1004	-1005	-1006	-1007	-1008
Wheel motor	φ 32 shaft, parallel key 10 shaft extension 104	M22x1.5 drain port M14x1.5	350-4371	-4372	-4373	-4374	-4375	-4376	-4377	-4378
	1.25" tapered shaft, slotted nut, shaft extension 104	plate connection 3-M10 drain port 7/16-20UNP	350-4391	-4392	-4393	-4394	-4395	-4396	-4397	-4398
Shaftless motor		M22x1.5 drain port M14x1.5	350-8181	-8182	-8183	-8184	-8185	-8186	-8187	-8188

350 Series BM5 Gerotor Motor



351 Series BM5 Orbit Motor



350 Series	Displacement (ml/r)	160	200	250	315	400
	L1	29	36	45	57	72
	L2	222.5	229.5	238.5	250.5	265.5

350 Series	Displacement (ml/r)	160	200	250	315	400
	L1	29	36	45	57	72
	L2	194	201	210	222	237

BM5 Motor Outline and Mounting Dimensions

Standard rotation: viewed from the output shaft side, when port A is the inlet and port B is the return port, the motor rotates clockwise.

BM6 Gerotor Hydraulic Motor

1. Overview

The BM6 motor is a disc-valve gerotor hydraulic motor with pressure compensation. It adopts an advanced roller-type stator design, providing high output torque, stable low-speed performance, and reliable operation under heavy radial loads. Its compact dimensions and high power density make it suitable for various hydraulic applications.

2. Features of BM6 Motor

1. Dual-bearing support structure, capable of withstanding high radial force.
2. Integrated flange and housing design, capable of withstanding frequent reversing impacts.
3. It adopts a gerotor gear-set design, providing smooth operation and long service life.
4. High working pressure capability.
5. Low starting pressure and easy reversing.
6. It can be used in series or in parallel in hydraulic systems.
7. Reliable sealing control design allows the motor to withstand relatively high pressure and ensures leak-free operation.



3. Main Performance Parameters

Displacement ml/r		195	245	310	395	490	625	800	985
Flow L/min	Continuous	150	150	150	150	150	150	150	150
	Intermittent	170	210	225	225	225	225	225	225
Speed r/min	Max. continuous	775	615	485	387	307	241	188	153
	Intermittent	866	834	689	570	454	355	282	230
Pressure MPa	Continuous	17	17	17	17	17	15	15	17
	Intermittent	27.5	27.5	27.5	27.5	24.0	17.0	17.0	17.0
Torque Nm	Continuous	575	735	930	1155	1445	1380	1370	1685
	Intermittent	860	1100	1355	1635	1885	1778	1713	1873
Reference Weight Kg		28.1	28.6	29.2	30	30.9	32.1	32.5	33.5

4. Notes

1. Avoid operating the motor at maximum speed and maximum pressure at the same time.
2. The torque values listed in the table apply to output shafts with a diameter of 32 mm and 1.75". For a 1.5" output shaft, the allowable maximum continuous torque and intermittent torque are 1325 Nm and 1650 Nm respectively.
3. When the allowable back pressure is exceeded, an external drain line should be connected, and the motor cavity must always remain completely filled with hydraulic oil.
4. The maximum inlet pressure is 31 MPa, but the working pressure differential should comply with the requirements listed in the table above.
5. Intermittent operation of the motor should not exceed 6 seconds, and peak operation should not exceed 0.6 seconds.

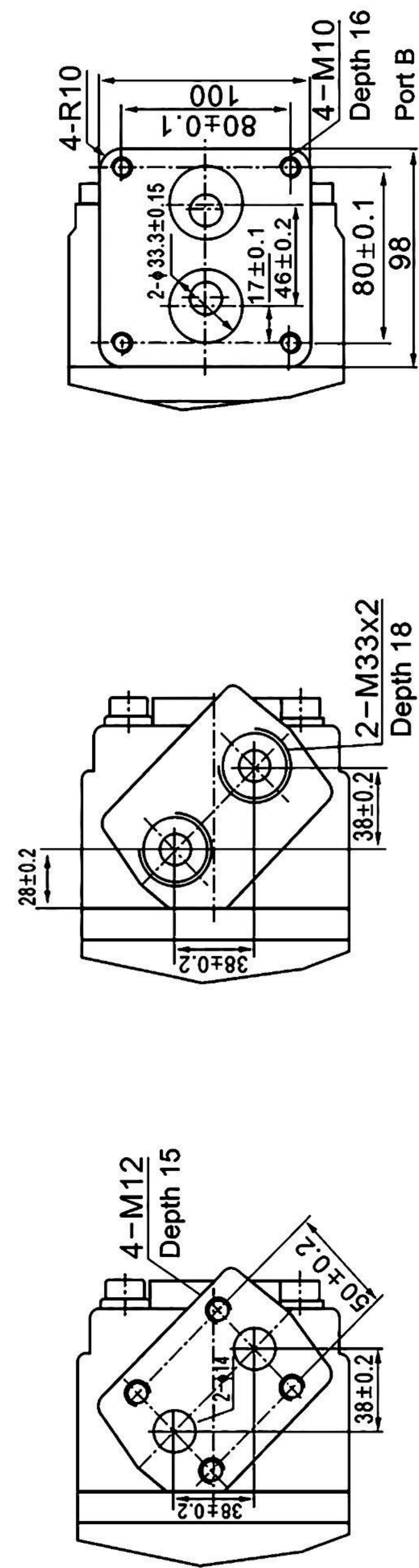
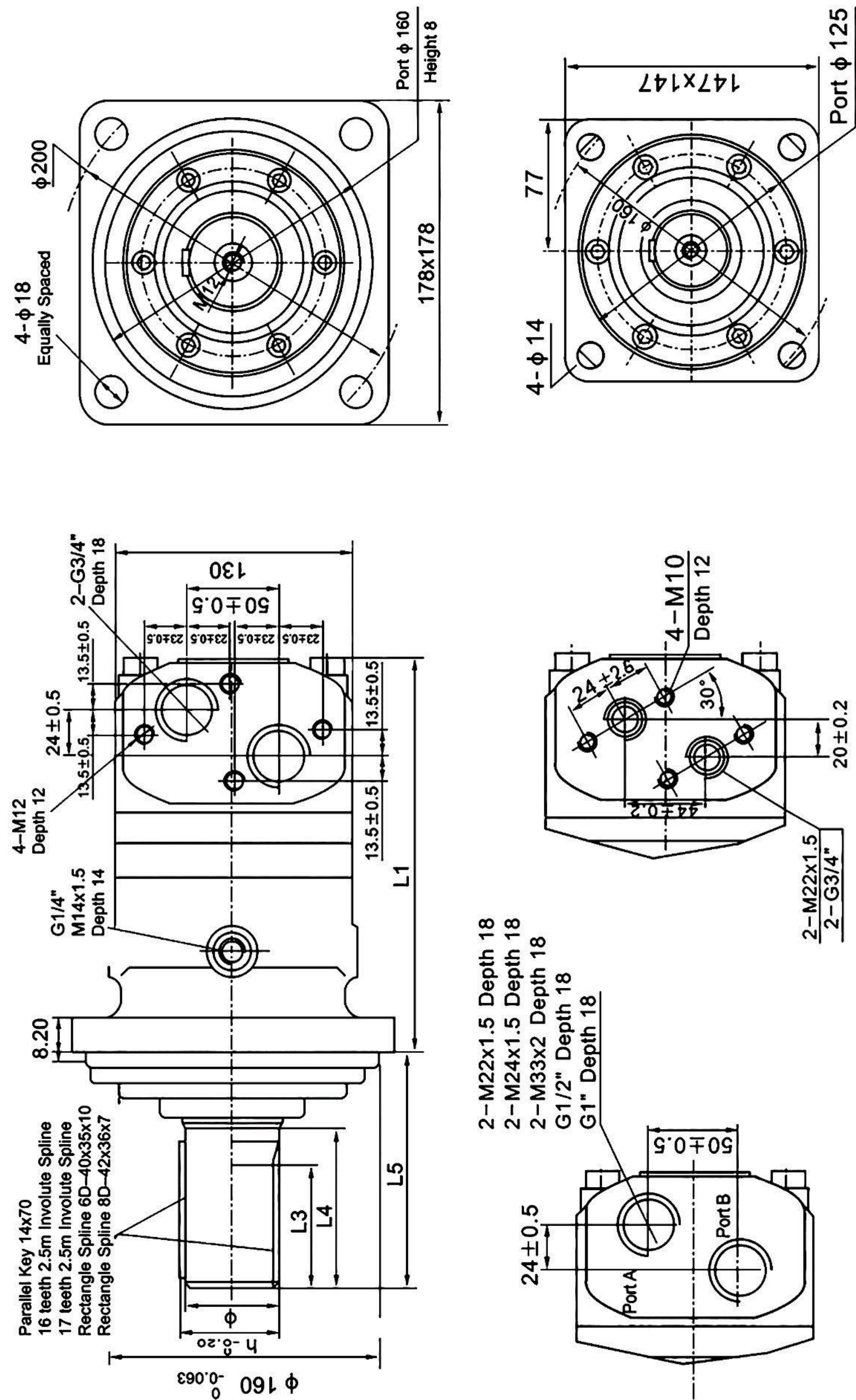
6. Maximum working oil temperature: 80°C.
7. Recommended oil: anti-wear hydraulic oil, viscosity 37–73 cSt, oil cleanliness ISO 18/13.
8. Before operating the motor at full load, it must be run in at 30% of the rated pressure for more than one hour.
9. With reliable dynamic sealing control design, the maximum allowable back pressure of the motor can exceed 7 MPa. However, to obtain better service life and overall performance, it is recommended that the back pressure should not exceed 3.5 MPa. If it exceeds this value, an external drain line should be connected. When connecting an external drain line, ensure that the motor is always completely filled with oil. The external drain line should have a certain throttling effect to maintain a back pressure above 0.35 MPa. In addition to maintaining relatively low back pressure, the external drain line can also carry away wear contaminants generated inside the motor and provide a certain cooling effect.

5. Product Ordering Information

For ordering, please refer to the dimensions and outline drawings. Select the corresponding code from the table below according to the specific motor type selected. If a special connection method is required, please contact JST Company.

Product Features			Displacement/Code							
Flange	Output Shaft	Port	195	245	310	395	490	625	985	800
Square Flange Port Φ 160	Involute Spline 17 teeth m=2.5	Port 2-G1/2 Drain Port G1/4	360-2101	-2102	-2103	-2104	-2105	-2106	-2107	-2108
Square Flange Port Φ 160	Φ 50 Straight Shaft Key 14	Port 2-M22x1.5 Drain Port M14x1.5	360-0061	-0062	-0063	-0064	-0065	-0066	-0067	-0068
Square Flange Port Φ 160	Involute Spline 16 teeth m=2.5	Port 2-M22x1.5 Drain Port M14x1.5	360-2151	-2152	-2153	-2154	-2155	-2156	-2157	-2158
Square Flange Port Φ 125	Φ 40 Straight Shaft Key 12x70	Port 2-M24x1.5 Drain Port M14x1.5	360-0011	-0012	-0013	-0014	-0015	-0016	-0017	-0018
Square Flange Port Φ 125	Φ 32 Straight Shaft Key 10	Port 2-M24x1.5 Drain Port M14x1.5	360-0161	-0162	-0163	-0164	-0165	-0166	-0167	-0168
Square Flange Port Φ 127	Φ 40 Straight Shaft Key 12x63	Port 2-M33x2 Drain Port M14x1.5	360-0021	-0022	-0023	-0024	-0025	-0026	-0027	-0028
Square Flange Port Φ 160	Involute Spline 17 teeth m=2.5	Port 2-G1 Drain Port G1/4	360-2201	-2202	-2203	-2204	-2205	-2206	-2207	-2208
Square Flange Port Φ 125	Φ 40 Straight Shaft Key 12x45	Port 2-M22x1.5 Drain Port M14x1.5	360-0031	-0032	-0033	-0034	-0035	-0036	-0037	-0038
Square Flange Port Φ 160	Rectangle Spline 6-40x35x10	Port 2-G1 Drain Port G1/4	360-1041	-1042	-1043	-1044	-1045	-1046	-1047	-1048
Square Flange Port Φ 127	Rectangle Spline 8-40x35x10	Port 2-M33x2 Drain Port M14x1.5	360-1031	-1032	-1033	-1034	-1035	-1036	-1037	-1038
Small Square Flange Pilot dia. Φ 127	Rectangular Spline Shaft 8-42x36x7	Ports 2-Φ 14 Plate Connection 4-M12	360-1021	-1022	-1023	-1024	-1025	-1026	-1027	-1028
Small Square Flange Pilot dia. Φ 125	Φ 40 Straight Shaft Single Key 12x45	2-G3/4 Plate Mount 4-M10 Drain Port G1/4	360-0041	-0042	-0043	-0044	-0045	-0046	-0047	-0048
Large Square Flange Pilot dia. Φ 160	Involute Spline Shaft 17 teeth m=2.5	Ports 2-M22x1.5 Drain Port G1/4	360-2301	-2302	-2303	-2304	-2305	-2306	-2307	-2308
Large Square Flange Pilot dia. Φ 160	Rectangular Spline Shaft 8-42x36x7	Ports 2-Φ 14 4-M10 Reversing Valve Mount	360-1011	-1012	-1013	-1014	-1015	-1016	-1017	-1018
Small Square Flange Pilot dia. Φ 125	Φ 40 Straight Shaft Single Key 12x63	Ports 2-M33x2 Drain Port M14x1.5	360-0151	-0152	-0153	-0154	-0155	-0156	-0157	-0158
Small Square Flange Pilot dia. Φ 127	Rectangular Spline Shaft 8-42x36x7	Ports 2-M33x2 Drain Port M14x1.5	360-1051	-1052	-1053	-1054	-1055	-1056	-1057	-1058
Small Square Flange Pilot dia. Φ 127	Φ 40 Straight Shaft Single Key 12x45	Ports 2-Φ 14 Plate Connection 4-M12	360-0091	-0092	-0093	-0094	-0095	-0096	-0097	-0098
Wheel Motor	1.75" Tapered Shaft	M33x2, Drain Port M14x1.5 Standard Port Face	360-4121	-4122	-4123	-4124	-4125	-4126	-4127	-4128
Wheel Motor	Φ 40 Straight Shaft Single Key 12	G1" Drain Port G1/4* Standard Port Face	360-1082	-1083	-1084	-1085	-1086	-1100		

BM6 Motor Outline and Mounting Dimensions



Large Flange Connection Types and Dimensions	ϕ	h	L3	L4	L5
16-tooth 2.5m involute spline	$\phi 14^{+0}_{-0.10}$	/	56	79	119
17-tooth 2.5m involute spline	$\phi 45^{+0}_{-0.10}$	/	40	62	102
Rectangular spline 6D-40x35x10	$\phi 40^{+0.025}_{-0.050}$	/	55	79	119
Rectangular spline 8D-42x36x7	$\phi 42^{+0.025}_{-0.050}$	/	48	68	108
Straight shaft $\phi_{key} 14 \times 70$	$\phi 50^{+0}_{-0.05}$	53 5	/	79	119

Small Flange Connection Types and Dimensions	φ 80 Pilot	φ'	h'	D	L3'	L4'	L5'	L6'
Parallel key 10x36	Yes	$\phi 32_{-0.025}^0$	35	$\phi 125$	/	46	71	9
Parallel key 12x45	No	$\phi 40_{-0.053}^{-0.025}$	43	$\phi 125$	/	58	76.2	13.2
Parallel key 12x45	No	$\phi 40_{-0.053}^{-0.025}$	43	$\phi 127$	/	58	76.2	13.2
Parallel key 12x63	No	$\phi 40_{-0.025}^0$	43	$\phi 127$	/	75	93.2	13.2
Parallel key 12x70	Yes	$\phi 40_{-0.025}^0$	43	$\phi 125$	/	79	104	9
Rectangular spline 8D-40x35x10	Yes	$\phi 40_{-0.050}^{-0.025}$	/	$\phi 127$	40	52	77	9
Rectangular spline 8D-42x35x7	No	$\phi 42_{-0.025}^0$	/	$\phi 127$	40.3	58	76.2	13.2

Displacement (m/ft)	195	245	310	395	490	625	800	985
L1(mm)	227.3	232.9	240.1	250.6	260	274.6	295.6	314.4
L2(mm)	247.7	253.3	260.5	271	280.4	295	316	334.8

Standard rotation: Facing the output shaft, when oil enters port A and returns from port B, the motor rotates clockwise.

