

BM1/BMP/OMP

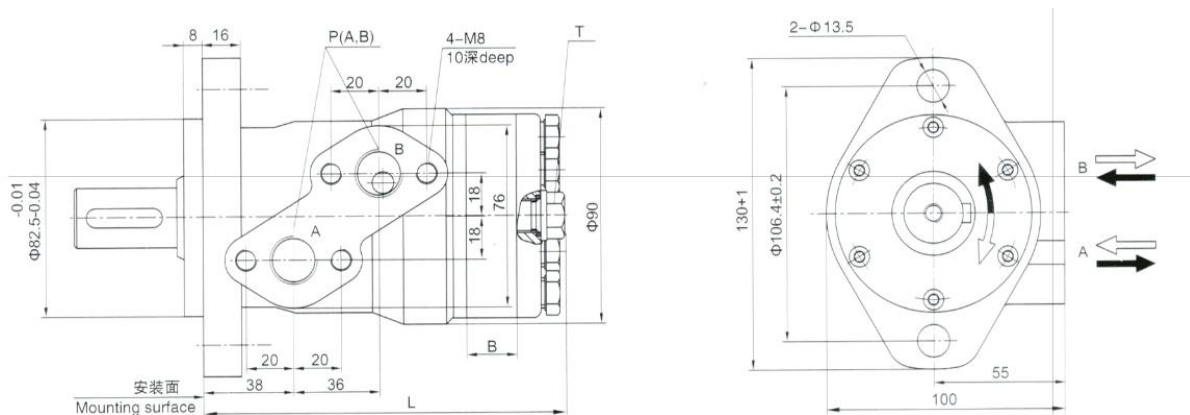
Hydraulic Orbital Motor

BM1/BMP/OMP series hydraulic orbital motor are small volume, economical type, which is designed with shaft distribution flow, which adapt the gerotor gear set design and provide compact volume, high power and low weight.



Characteristic Features:

1. Advanced manufacturing devices for the gerotor gear set, which provide small volume, high efficiency and long life.
2. Shaft seal can bear high pressure of motor of which can be used in parallel or series.
3. Advanced construction design, high power and low weight.

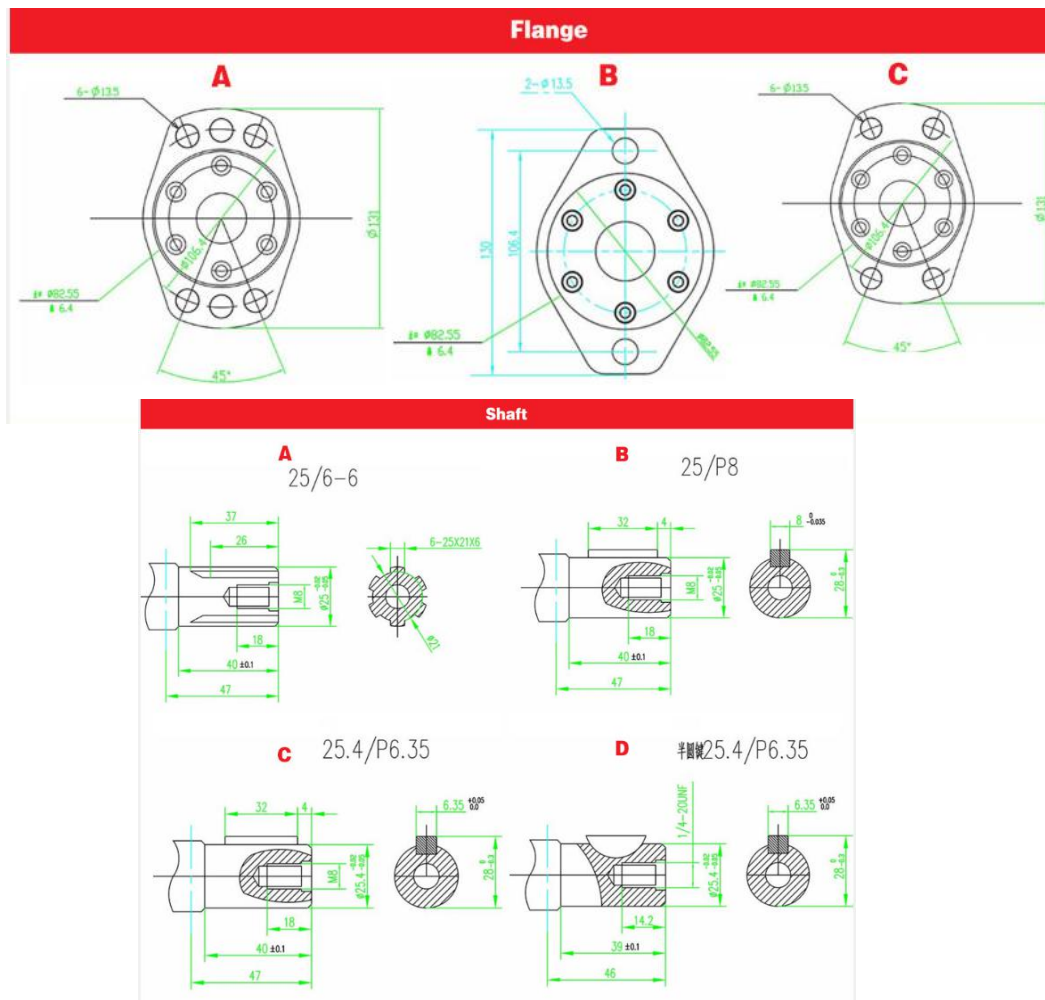


BM1/BMP/OMP series hydraulic orbital motor Specific parameter value

Type		BM1	BM1	BM1	BM1	BM1	BM1	BM1	BM1	BM1	BM1
		BMP	BMP	BMP	BMP	BMP	BMP	BMP	BMP	BMP	BMP
Displacement(ml/r)		50	63	80	100	125	160	200	250	315	400
Flow (LPM)	Continuous	45	45	60	60	60	60	60	60	60	60
	Intermittent	50	50	75	75	75	75	75	75	75	75
Speed (RPM)	Continuous	879	720	740	589	475	370	296	237	189	149
	Intermittent	975	755	827	673	594	463	370	297	236	185
Pressure (MPa)	Continuous	12.5	12.5	12.5	12.5	12.5	12.5	11	11	11	10
	Intermittent	16.5	16.5	16.5	16.5	16.5	16.5	16.5	14	12.5	10.5
Torque (N*.m)	Continuous	81	101	129	161	202	245	286	360	406	435
	Intermittent	108	134	171	213	268	342	390	456	505	533

1. Continuous pressure:Max.value of operating motor continuously.
2. Intermittent pressure:Max.value of operating motor in 6 seconds per minute .
3. Peak pressure:Max.value of operating motor in 0.6 second per minute.
4. The optimum operating situation should be at the 1/3-2/3 of the continuous operating situation.

Mounting Flange & Shaft



BM2/BMR/OMR

Hydraulic Orbital Motor

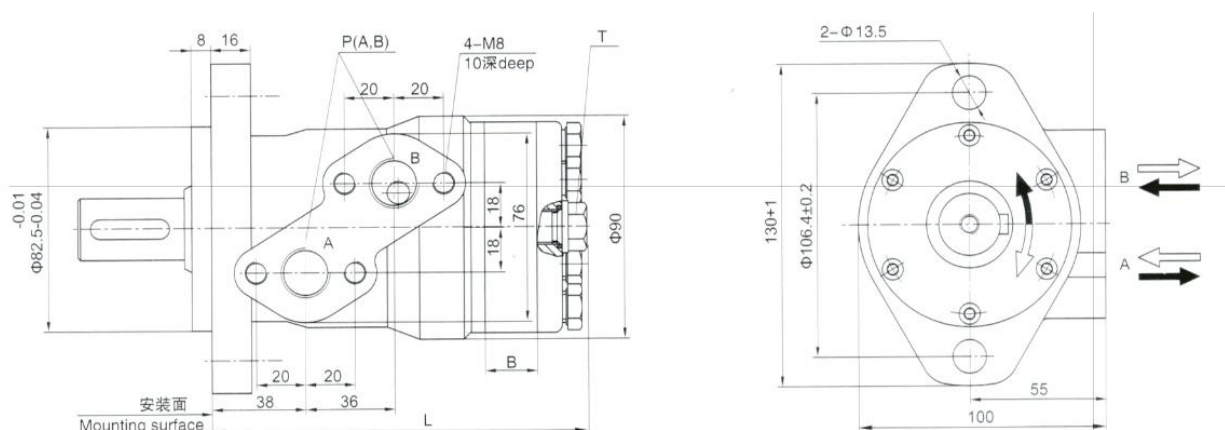


BMR series motor adapt the advanced gerotor gear set design with shaft distribution flow, which can automatically compensate in operating with high pressure , provide reliable and smooth operation, high efficiency and long life.

BM2/BMR/OMR series hydraulic orbital motor Specific parameter value

TYPE		BM2	BM2	BM2	BM2	BM2	BM2	BM2	BM2	BM2	BM2	BM2
		BMR	BMR	BMR	BMR	BMR	BMR	BMR	BMR	BMR	BMR	BMR
Displacement(ml/r)		50	63	80	100	125	160	200	250	315	400	500
Flow (LPM)	Continuous	40	40	60	60	60	60	60	60	60	60	60
	Intermittent	50	50	75	75	75	75	75	75	75	75	75
Speed (RPM)	Continuous	755	630	750	600	475	375	300	240	190	160	110
	Intermittent	970	790	940	750	600	470	375	300	240	200	128
Pressure (MPA)	Continuous	14	14	17.5	17.5	17.5	16.5	13	11	8.5	8.5	8
	Intermittent	17.5	17.5	20	20	20	20	17.5	14	11.5	11.5	9
Torque (N*.m)	Continuous	100	124	190	240	292	363	358	352	360	420	464
	Intermittent	126	156	220	280	340	430	448	470	470	548	580

BMR Installation



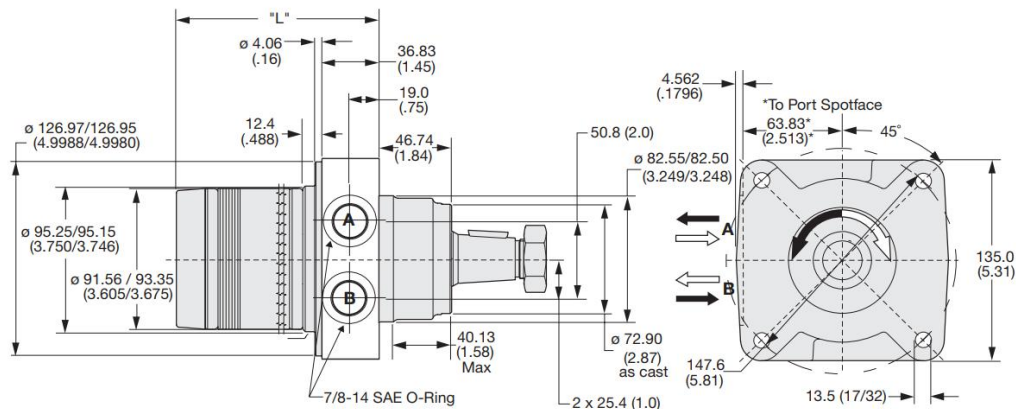
BMJ

Hydraulic Orbital Motor



The **BMJ** Series Hydraulic Wheel Motor marries drive train a larger, heavier duty roller bearing and shaft. This compact, economical wheel motor has intermittent pressures to 2750 psi and torques to 5700 lb-in.

Fei Yue **BMJ** Orbital motor replacement for PARKER TG-475cc Hydraulic Wheel Motor, quality very good and price much more excellent.



Mounting Flange

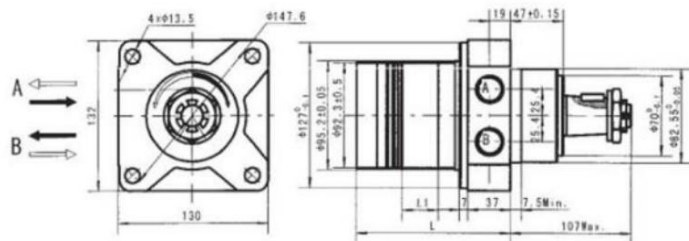
BMJ 安装连接尺寸

车轮安装

代号: WS 油口 A、B 7/8-14 O-Ring

代号: WD 油口 A、B G1/2

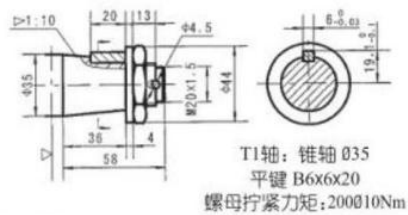
代号: WM 油口 A、B M22x1.5



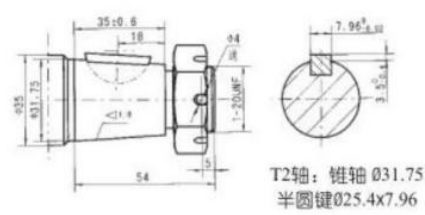
排量 (cm ³ /rev.)	65	80	100	125	160	200	230	250	295	315	375
L1(mm)	13	16	20	25	30.5	38.1	44	50	56	62	74
L(mm)	115	118	122	127	132.5	140	146	152	158	164	176
重量(kg)	9	9.1	10.4	10.6	10.9	11.3	11.8	12.2	12.6	12.9	13.4

Mounting Shaft

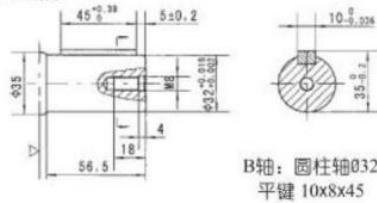
T1 型轴



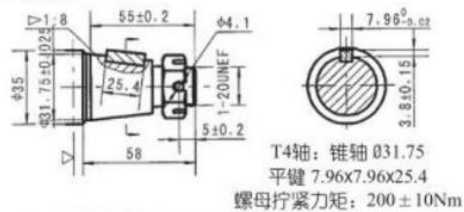
T2 型轴(1:8)



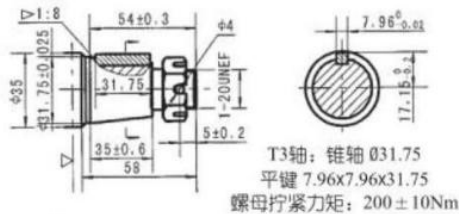
B 型轴



T4 型轴



T3 型轴



Specifications sheet

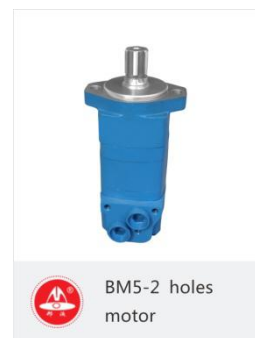
Pos.1	2	3	4	5
结构代码	排量	法兰、止口、油口	轴伸	旋向工况
无	65 80 100 125 160 200 230 250 295 315 375	WS 4-Ø13.5 车轮法兰, 止口 Ø82.55 × 7, 油口 7/8-14 O-ring WD 4-Ø13.5 车轮法兰, 止口 Ø82.55 × 7, 油口 G1/2 WM 4-Ø13.5 车轮法兰, 止口 Ø82.55 × 7, 油口 M22x1.5	T1 Ø35锥轴,平键 B6 × 6 × 20 T2 Ø31.75锥轴,半圆键 Ø25.4 × 7.96 T3 Ø31.75锥轴,平键 7.96 × 7.96 × 31.75 T4 Ø31.75锥轴,平键 7.96 × 7.96 × 25.4 B Ø32直轴,平键 10 × 8 × 45	无 R 标准 反向

Application:
winches
crane drives
wheel motors for military vehicles
self-driven cranes
excavators
conveyor and feeder drives
mixer and agitator drives
roll mills
drum drives for digesters etc..

BM5/BMS

Hydraulic Orbital Motor

BM5/BMS-2 holes motors



BM5/BMS series motor adapt the advanced Gerotor gear set design with disc distribution flow and high pressure. The unit can be supplied the individual variant in operating multifunction in accordance with requirement of applications.

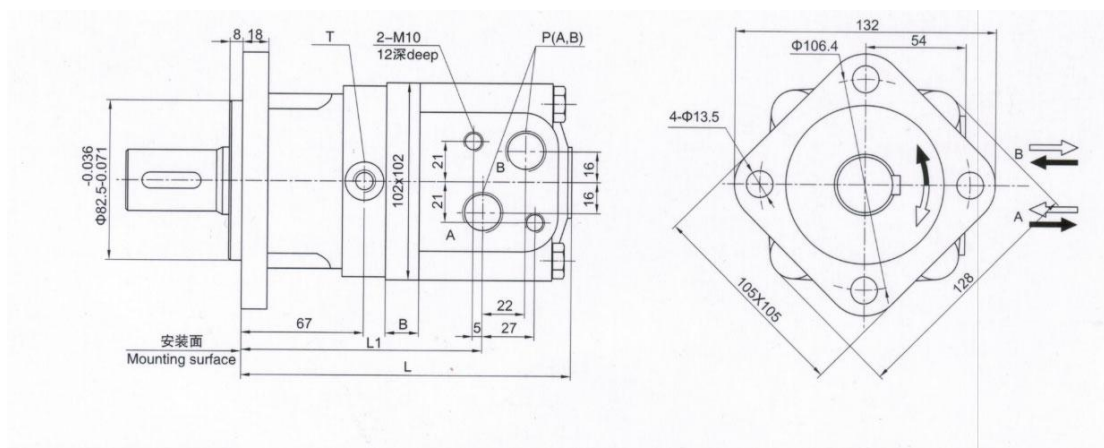
BM5/BMS Main specification

TYPE		BM5	BM5	BM5	BM5	BM5	BM5	BM5	BM5	BM5	BM5
		BMS	BMS	BMS	BMS	BMS	BMS	BMS	BMS	BMS	BMS
Displacement(ml/r)		80	100	125	160	200	250	280	305	400	500
Flow (LPM)	Continuous	75	75	75	75	75	75	75	75	75	75
	Intermittent	75	95	95	115	115	115	115	115	115	115
Speed (RPM)	Continuous	799	742	576	460	365	294	270	246	183	148
	Intermittent	908	924	720	713	577	462	420	365	287	230
Pressure (MPa)	Continuous	21	21	21	21	21	20	20	20	16	12
	Intermittent	30	30	30	26	26	26	24	24	17	14
	Peak	30	30	30	30	30	30	30	30	20	17
Torque (N*.m)	Continuous	235	295	385	460	550	650	720	750	800	830
	Intermittent	320	380	540	570	660	820	888	870	920	940
	Peak	320	380	540	635	765	957	962	1000	1020	1057

Note:

1. Continuous Data: The Max. Value of operation motor continuously.
2. Intermittent Data: The Max. Value of operation motor in 6 seconds per minute.
3. A simultaneous max, RPM and max. pressure is not recommended.
4. The optimum operating situation should be at the 1/3-2/3 of the continuous operating situation.

BM5/BMS Installation



BMV/BMVE



Hydraulic Orbital Motor

BMV/BMVE series hydraulic motor is a kind of advanced hydraulic motor with planar flow distribution structure. The series of motors use inlaid column rotary stator pair. It has the characteristics of high working pressure, good efficiency and long working life. On the basis of the standard structure, the deformation design can be carried out according to the user's needs. Characteristic features:

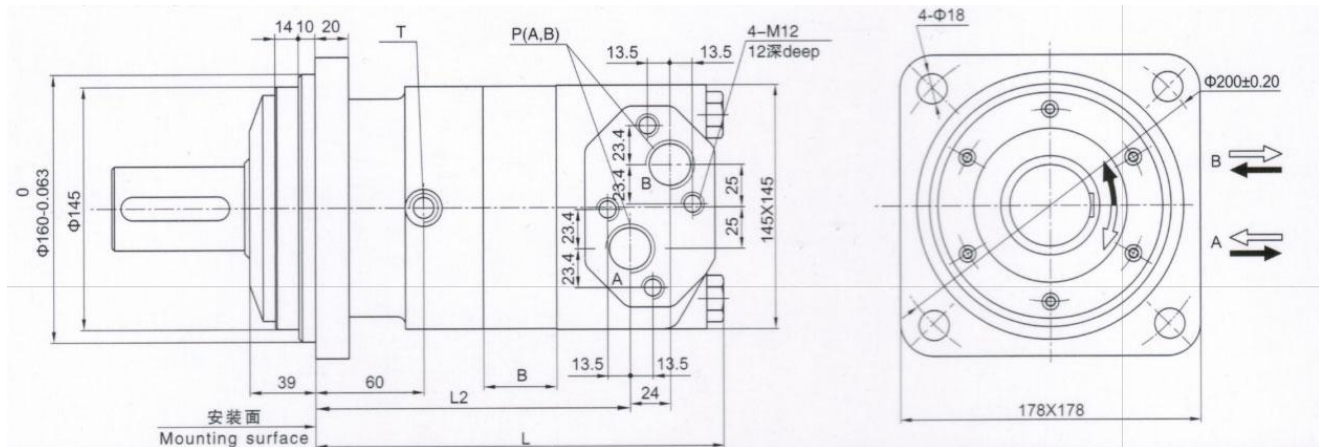
1. Advanced design of stator parameters, low starting pressure, high efficiency and good retention.
2. High working pressure and high output torque. Tapered roller bearing structure, strong ability to bearing shaft and radial load, so that the motor can directly drive the working mechanism, expand the scope of use.
3. Advanced planar flow distribution structure ensures high accuracy of motor flow distribution, strong automatic compensation function after wear, high volume efficiency, long life of motor, stable speed of motor and stable load speed characteristics.

Type		BMV BMVE 315	BMV BMVE 400	BMV BMVE 500	BMV BMVE 630	BMV BMVE 800	BMV BMVE 1000
Displacement(cm3/rev.)		333	419	518	666	801	990
Speed (rpm)	Rated	335	270	215	170	140	105
	Continuous	510	500	400	320	250	200
	Intermittent	630	600	480	380	300	240
Torque (N.m)	Rated	730	1020	1210	1422	1590	2015
	Continuous	920	1180	1460	166	1880	2015
	Intermittent	1110	1410	1760	1940	2110	2280
	Peak value	1290	1640	2050	2210	2470	2400
Output power(kW)	Continuous	38	47	47	40	33	28.6
	Intermittent	46	56	56	56	44	40
Max.inlet pressure (MPa)	Rated	16	16	16	16	14	14
	Continuous	20	20	20	18	16	14
	Intermittent	24	24	24	21	18	16
	Peak value	28	28	28	24	21	18
Flow (L/min)	Rated	110	110	110	110	110	110
	Continuous	160	200	200	200	200	200
	Intermittent	200	240	240	240	240	240
Inlet pressure (MPa)	Rated	21	21	21	21	21	21
	Continuous	21	21	21	21	21	21
	Intermittent	25	25	25	25	25	25
	Peak value	30	30	30	30	30	30
Weight(kg)		31.8	32.6	33.5	34.9	36.5	38.6

Note:

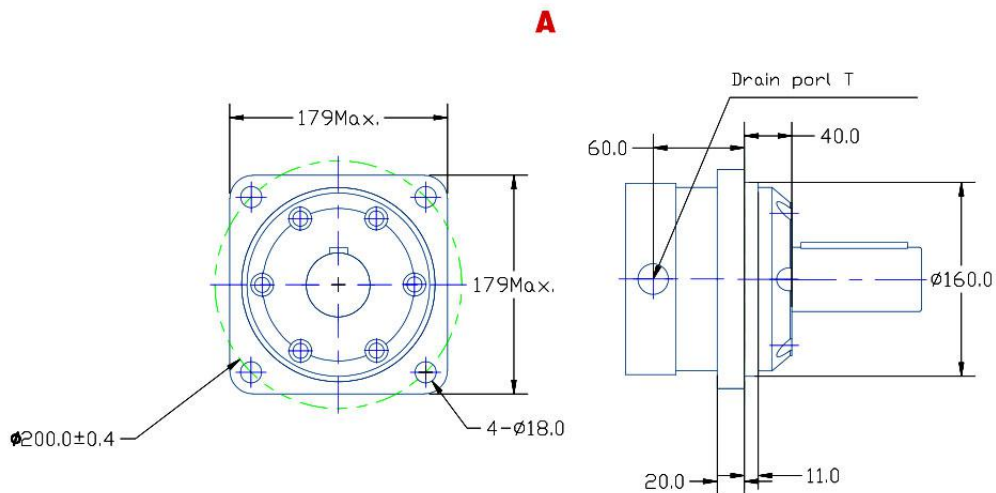
1. Rated speed and torque refer to the output value under rated flow and pressure.
2. Continuous value refers to the maximum value that the displacement motor can work continuously.
3. Intermittent value refers to the maximum value of the displacement motor working for 6 seconds in a minute.
4. Peak value is the maximum of 0.6 seconds in a minute for the displacement motor.

BMV/BMVE Installation



Mounting Flange

Flange



BMT

Hydraulic Orbital Motor

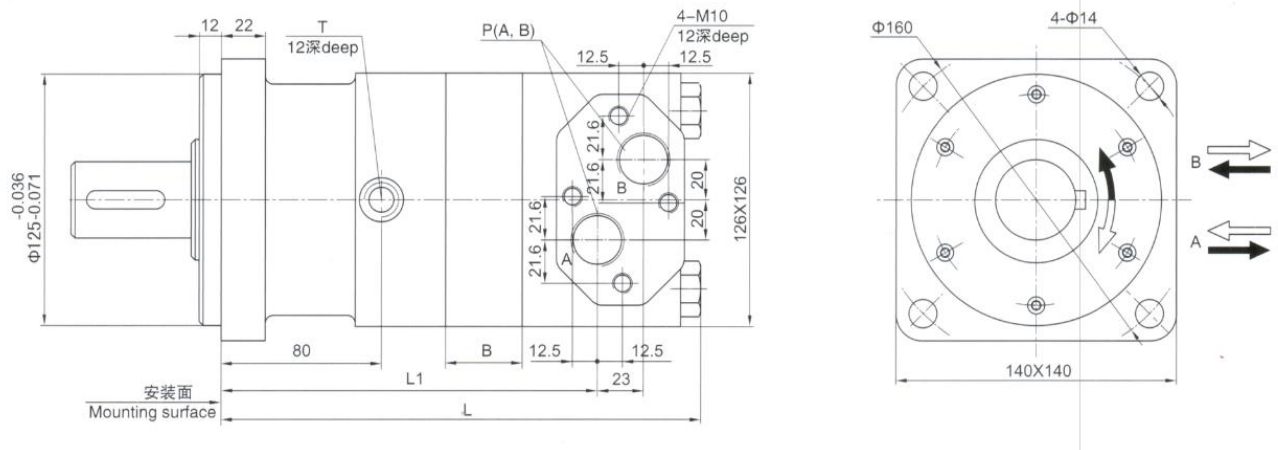


BMT series motor adapt the advanced gerloer gear set design with disv distribution flow and high pressure. The unit can be supplied the individual variant in operating multifunction in accordance with requirement of applications.

Characteristic feature:

1. Advanced manufacturing devices for the geroler gear set, which use low pressure of start-up, provide smooth and reliable operation and high efficiency.
2. Advanced design in distribution flow, which can automatically compensate in operating with high volume efficiency and long life, provide smooth and reliable operation.

BMT Installation



BMT Main Specification

Type		BMT 160	BMT 2 00	BMT 230	BMT 250	BMT 315	BMT 400	BMT 500	BMT 630	BMT 800
Geometric displacement(cm3/rev.)		161.1	201.4	232.5	251.8	326.3	410.9	523.6	629.1	801.8
Max.speed (rpm)	Rated	470	475	412	381	294	228	183	150	121
	Continuous	625	625	536	500	380	305	240	196	154
	Intermittent	780	750	643	600	460	365	285	233	185
Max.torque(N.m)	Rated	379	471	530	582	758	896	1063	1156	1207
	Continuous	470	590	670	730	950	1080	1220	1318	1464
	Intermittent	560	710	821	880	1140	1260	1370	1498	1520
	Peak value	669	838	958	1036	1346.3	1450.3	1643.8	1618.8	1665
Max.output(KW)	Rated	18.7	23.4	23.2	23.2	23.2	21.4	20.4	18.2	15.3
	Continuous	27.7	34.9	34.7	34.5	34.9	31.2	28.8	25.3	22.2
	Intermittent	32	40	40	40	40	35	35	27.5	26.8
Max.pressure difference(Mpa)	Rated	16	16	16	16	16	15	14	12	10.5
	Continuous	20	20	20	20	20	18	16	14	12.5
	Intermittent	24	24	24	24	24	21	18	16	13
	Peak value	28	28	28	28	28	24	21	19	16
Max.inlet(L/min)	Rated	80	100	100	100	100	100	100	100	100
	Continuous	100	125	125	125	125	125	125	125	125
	Intermittent	125	150	150	150	150	150	150	150	150
Max.inlet pressure(MPa)	Rated	21	21	21	21	21	21	21	21	21
	Continuous	21	21	21	21	21	21	21	21	21
	Intermittent	25	25	25	25	25	25	25	25	25
	Peak value	30	30	30	30	30	30	30	30	30
Weight(Kg)		19.5	20	20.4	20.5	21	22	23	24	25

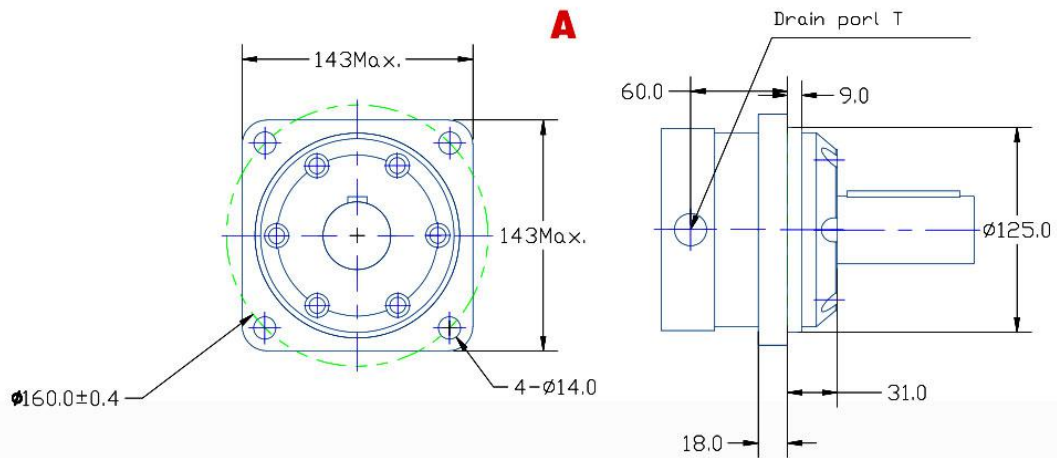
NOTE:

- 1.Continuous pressure: Max.value of operating motor continuously
- 2.Intermittent pressure: Max.value of operating motor in 6 seconds perminute.
- 3.Peak pressure : Max.value of operating motor in 0.6 second per minute.

BMT Mounting Flange & Shaft

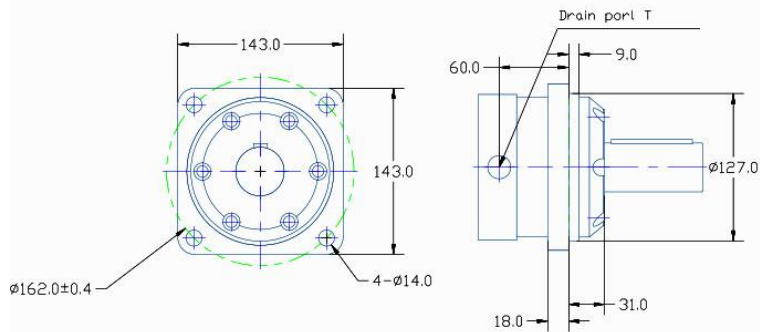
Flange

Flange 4



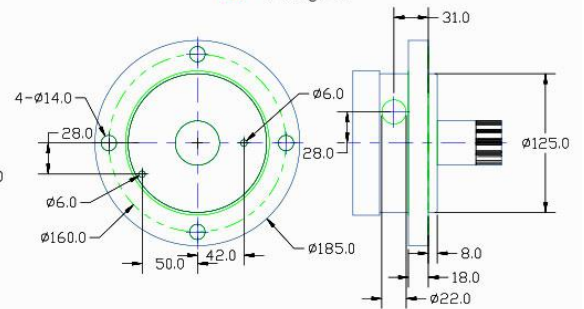
B

Flange K6



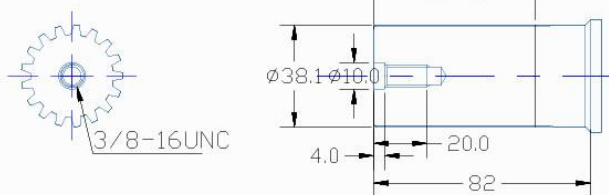
C

Flange D



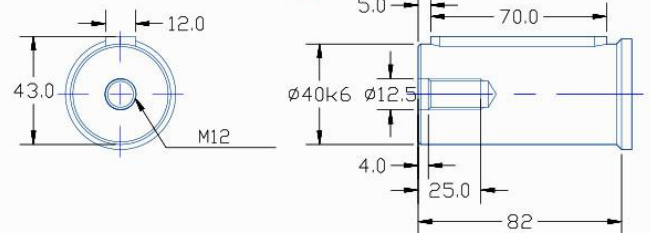
Shaft

A



shaft F: Splined 17-DP12/24

B



Shaft M: Cylindrical shaft $\phi 40$
Parallel key 12x8x70

BMM/OMM

Hydraulic Orbital Motor



BMM

The BMM/OMM series orbital hydraulic motor is a micro shaft distribution motor that can be installed in a small space. It adopts integral rotary stator, 4/5 tooth structure, compact structure, light weight and high power density. Its characteristics:

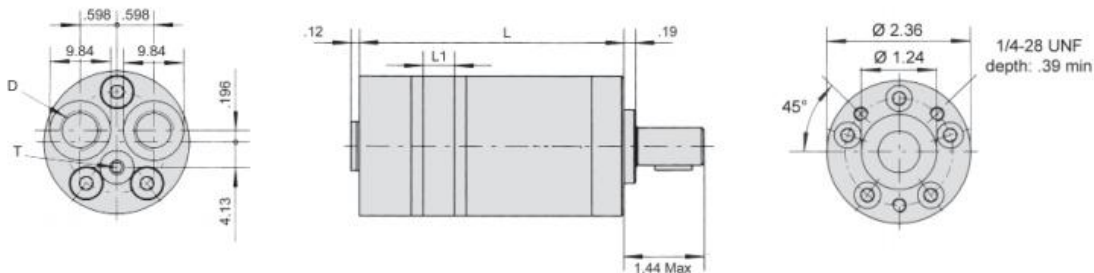
The whole type of rotary stator adopts the world's most advanced processing technology to ensure the small size, high efficiency, high speed and long life.

The shaft seal can bear high pressure and can be used in series or in parallel.

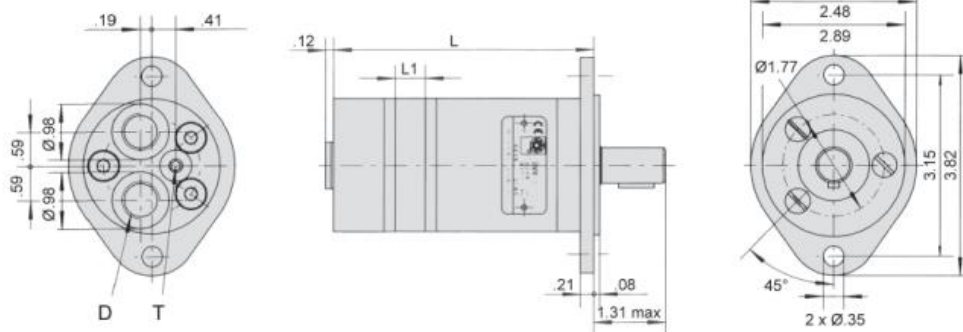
Advanced structural design and high power density.

BMM/OMM Installation

U - Circle Flange



F - 2-Bolt

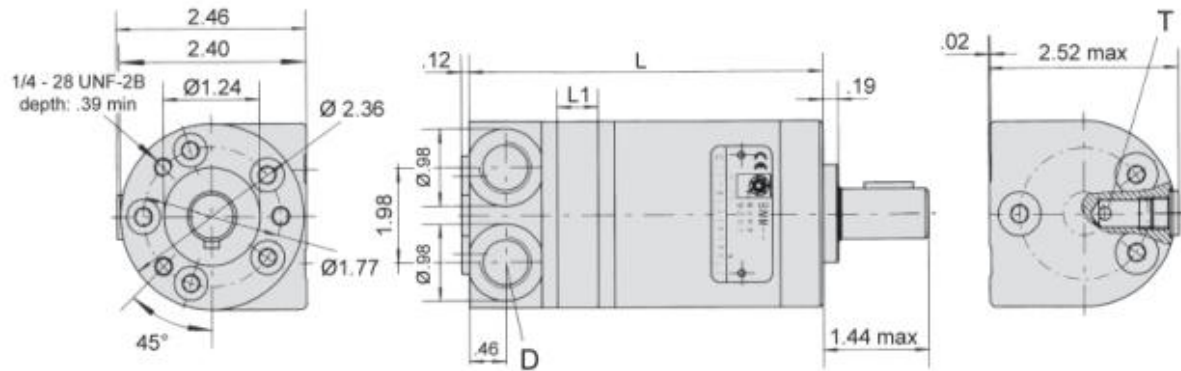


MODEL	U Mount		F Mount	
	L	L1	L	L1
BMM 8	4.09"	.13"	4.21"	.13"
BMM 12.5	4.17"	.21"	4.29"	.21"
BMM 20	4.29"	.33"	4.40"	.33"
BMM 32	4.48"	.53"	4.62"	.53"
BMM 40	4.64"	.67"	4.76"	.67"
BMM 50	4.80"	.84"	4.92"	.84"

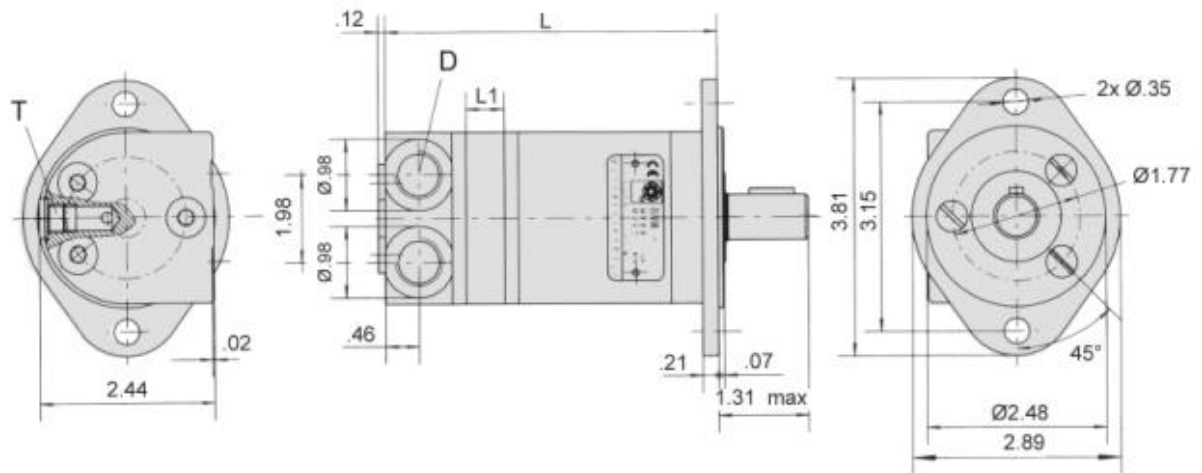
Port Sizes	U Mount	F Mount
D	9/16 - 18 SAE	9/16 - 18 SAE
T	3/8 - 24 SAE	3/8 - 24 SAE

BMM/OMM Side Port Installation Data

U - Circle Flange



F - 2-Bolt



MODEL	U Mount		F Mount	
	L	L1	L	L1
BMM 8	4.13"	.13"	4.29"	.13"
BMM 12.5	4.21"	.21"	4.37"	.21"
BMM 20	4.33"	.33"	4.48"	.33"
BMM 32	4.52"	.53"	4.68"	.53"
BMM 40	4.64"	.67"	4.80"	.67"
BMM 50	4.84"	.84"	5.00"	.84"

Ports	U Mount	F Mount
D	9/16 - 18 SAE	9/16 - 18 SAE
T	3/8 - 24 SAE	3/8 - 24 SAE

BMER



Hydraulic Orbital Motor

BMER series orbital hydraulic motor is an advanced hydraulic motor with high-speed distribution structure. The series of motors use inlaid-column rotary stator . It has the characteristics of high working pressure, high working efficiency, good stability at low speed, high volume efficiency, good efficiency and long working life. On the basis of the standard structure, the multi-functional variant design can be designed according to the user's needs. Its characteristics are:

The advanced design of rotor stator parameters has the advantages of low starting pressure, high efficiency and good retention.

High working pressure and high output torque. With needle roller bearing structure, bearing axle and strong radial load capacity, the motor can directly drive the working mechanism and expand the scope of use.

Advanced high-speed flow distribution structure ensures high accuracy of motor flow distribution, strong automatic compensation ability after wear, high volume efficiency, long life of motor, stable speed of motor and stable load speed characteristics.

The valve distribution system has the characteristics of low leakage. The rotating speed of the valve plate is six times of the output speed, which makes the motor have high flow distribution accuracy, strong automatic compensation ability after wear and tear, and ensures high volume efficiency. The motor has the characteristics of smooth movement at low speed.

BMER Main Specification

Type		BMER 160	BMER 200	BMER 250	BMER 300	BMER 350	BMER 475	BMER 750
Displacement		156	196	257	296	345	462	745
Max.Speed (rpm)	Continuous	375	330	290	250	220	160	100
	Intermittent	470	425	350	315	270	195	120
Max.Torque (N.m)	Continuous	450	530	700	810	905	1085	1050
	Intermittent	525	600	790	930	1035	1180	1180
	Peak value	590	750	980	1120	1285	1260	1370
Max.Power (KW)	Continuous	15.0	15.5	17.5	18.0	17.5	14.5	8.0
	Intermittent	17.5	18.0	20.0	21.0	20.0	16.5	10.0
Max.Pressure (Mpa)	Continuous	20.5	20.5	20.5	20.5	20.5	17.5	10.5
	Intermittent	24	24	24	24	24	19	12
	Peak value	27.6	27.6	27.6	27.6	27.6	20.5	14
Max.Flow (L/min)	Continuous	60	70	75	80	80	75	75
	Intermittent	75	85	90	95	95	90	90

1. Rated speed and torque refer to the output value under rated flow and pressure.
2. Continuous value refers to the maximum value that the displacement motor can work continuously.
3. Intermittent value refers to the maximum value of the displacement motor working for 6 seconds in a minute.
4. Peak value is the maximum of 0.6 seconds in a minute for the displacement motor.

BMER Installation

BMER-2 安装连接尺寸

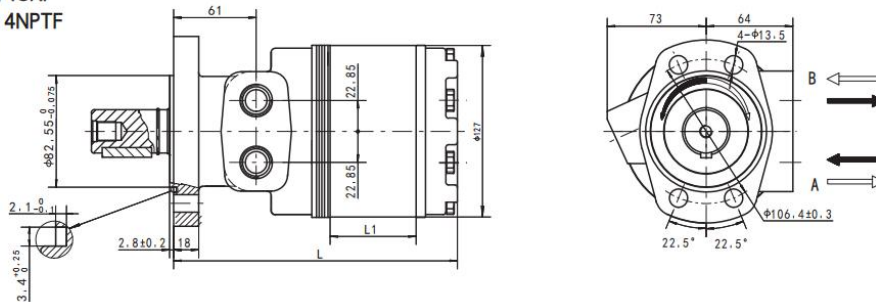
4 孔腰型法兰

Code: Port A, B

MS 7/8-14UNF

MP 1/2-14NPTF

MD G1/2

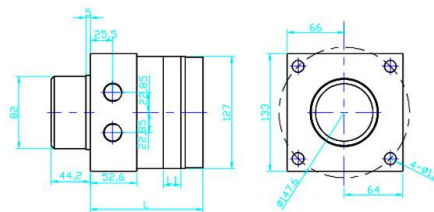


BMT Mounting Flange & Shaft

Flange

Wheel Mount
Code: Port A, B
TS 7/8-14UNF
TP 1/2-14NPTF
TD G1/2

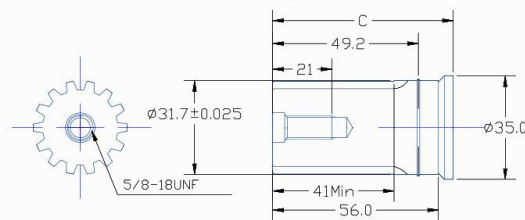
A



Shaft

Shaft FD1

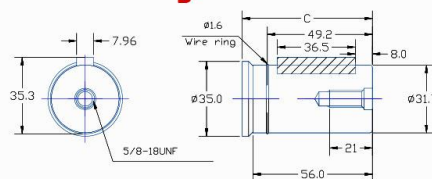
A



Shaft FD1: Splined 14-DP12/24
Flat root side fit
to fit ANSI B92.1 1996

Shaft G2

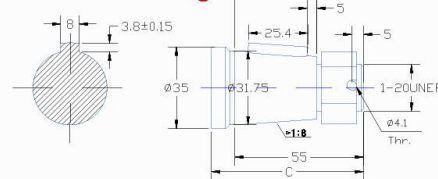
B



Shaft G2: Cylindrical shaft $\phi 31.75$
Parallel key 7.96 \times 7 \times 36.5

Shaft T4

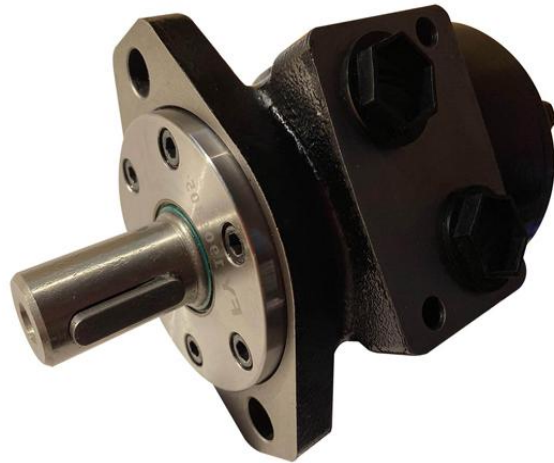
C



Shaft T4: Cone-shaft $\phi 31.75$
Parallel key 7.96 \times 7.96 \times 25.4
Tightening torque: 200 \pm 10 Nm

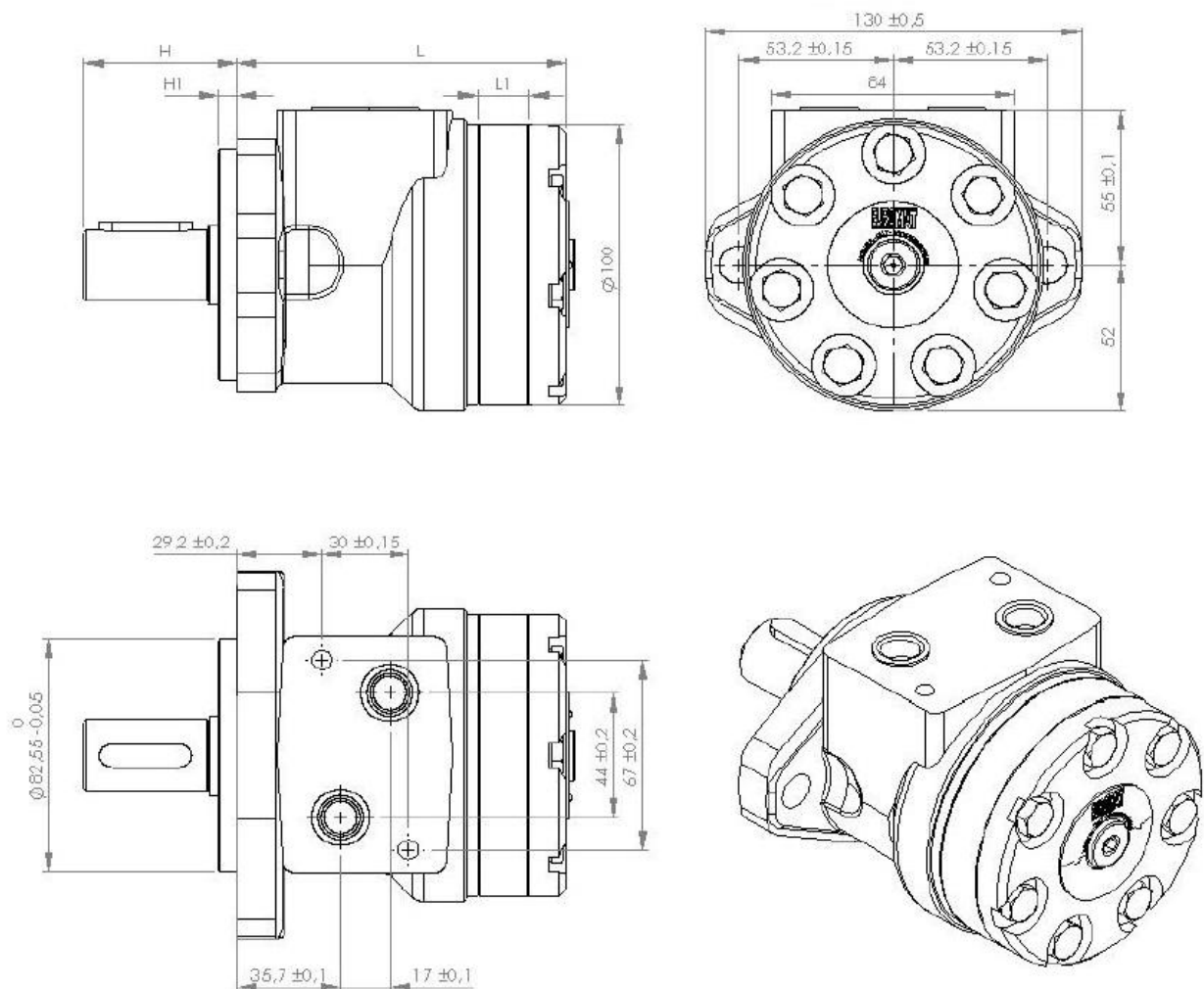
OK

Hydraulic Orbital Motor



Hydraulic Motor OK series are small volume, economical type, which is designed with shaft distribution flow, which adapt the Gerotor gear set design and provide compact volume, high power and low weight.

OK Installation



OK Main Specification

TYPE		OK 50	OK 80	OK 100	OK 125	OK 160	OK 200	OK 250	OK 300	OK 400
Displacement(ml/r)		51.5	80.30	99.8	125.5	159.6	199.80	250.10	315.70	397
Flow (LPM)	Continuous	40	60	60	60	60	60	60	60	60
	Picco-Peak	50	75	75	75	75	75	75	75	75
Speed (RPM)	Continuous	775	750	600	475	375	300	240	190	150
	Intermittent	970	940	750	600	470	375	300	240	185
Output (KW)	Continuous	9	10.4	10.8	10.8	10.4	8.8	8.1	7.4	6.2
	Intermittent	10.4	12.6	12.8	12.5	11.5	10.2	9.4	7.8	7.1
Pressure (MPA)	Continuous	140	140	140	140	140	125	110	90	75
	Intermittent	175	175	175	175	175	155	140	125	90
	Picco-Peak	225	225	225	225	225	225	200	150	120
Torque (N*.m)	Continuous	10	15.7	19.8	25	32	34	40	40	40
	Intermittent	13	19.5	24	30	39	42	47	50	50
	Picco-Peak	17	27	32	37	46	56	64	65	65
Intermittent operation:the permisssiblevalues may occur for max.10% of every minute										

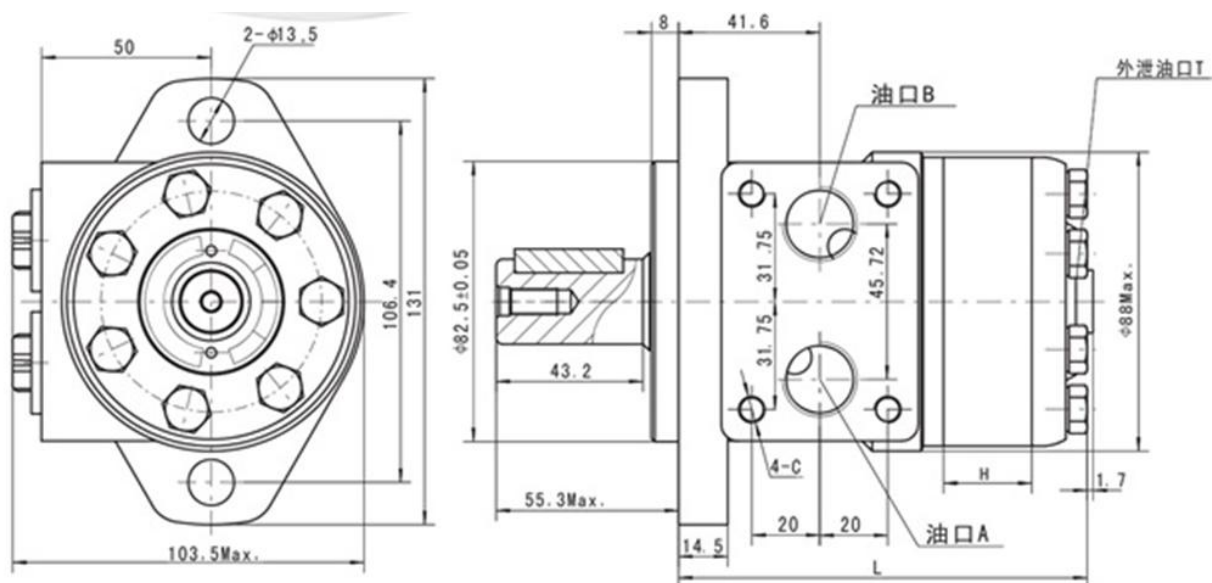
OZ

Hydraulic Orbital Motor

OZ series Hydraulic motor are small volume, economical type, which is designed with shaft distribution flow, which adapt the Gerotor gear set design and provide compact volume, high power and low weight.



OK Installation



OK Main Specification

TYPE		OZ 36	OZ 50	OZ 80	OZ 100	OZ 125	OZ 160	OZ 200	OZ 250	OZ 315	OZ 400
Displacement(ml/r)		37	51.7	77.7	96.2	117.90	155.50	189.90	231	311.70	386.20
Flow (LPM)	Continuous	40	40	40	40	40	40	40	40	40	40
Speed (RPM)	Continuous	1081	774	515	416	339	257	211	173	128	104
Output (KW)	Continuous	5.2	5.2	5.2	5.2	5.2	5.2	5.2	4.6	3.4	3.4
	Intermittent	8.6	8.6	8.6	8.6	8.6	8.6	8.6	7	5.8	5.8
Pressure (MPA)	Continuous	10.5	10.5	10.5	10.5	10.5	10.5	10.5	9	7	7
	Intermittent	14	14	14	14	14	14	14	11.5	10.5	10.5
Torque (N*.m)	Continuous	51	73	106	140	162	216	264	281	312	392
	Intermittent	68	96	143	178	218	288	351	351	433	582
Intermittent operation:the permississiblevalues may occur for max.10% of every minute											