

HT 03 / CR / 0223 / E

Orbit Motors

Technical Catalogue





INDEX



SPOOL VALVE HYDRAULIC MOTORS

APPENDIX	115
Hydraulic Motors Series OTM6	109
Hydraulic Motors Series OTM5	98
Hydraulic Motors Series OTM4	87
Hydraulic Motors Series OTM3Y	72
DISK VALVE HYDRAULIC MOTORS	
Hydraulic Motors Series OTMPH	67
Hydraulic Motors Series OTH	63
Hydraulic Motors Series OTMP	50
Hydraulic Motors Series OTMH	42
Hydraulic Motors Series OTS	38
Hydraulic Motors Series OTMR	14
Hydraulic Motors Series OTMM	8

HYDRAULIC MOTORS WITH BRAKEHydraulic Motors Series ZOTMR116Hydraulic Motors Series ZOTMR/N117Hydraulic Motors Series ZOTM119

HYDRAULIC VALVES FOR MOTORS Overcenter Valves 122









INTRODUCTION



This series of motor, with its shell made of ductile cast iron of adequate intenty, can be applied to situations with less load and interval operation, widely to agriculture, forestry, plastics, machine tools and minmachines etc.

■ CHARACTERISTICS

- 1. With the axial oil distribution structur, it is of smaller, high efficiency and long life.
- 2. Shaft seal can bear high pressure of motor of which can be used in parallel or in series.

■ TECHNICAL DATA

Туре		ОТММ-8	OTMM-12.5	OTMM-20	OTMM-32	OTMM-40	OTMM-50
Displacement.(ml/r)	8.2	12.9	19.9	31.6	39.8	50.3
	cont.	10	10	10	10	9	7
Max.Pressure. Drop (Mpa)	int.	14	14	14	14	14	14
	peak.	20	20	20	16	16	16
	cont.	11	16	25	40	45	46
Max.torque (Nm)	int.	15	23	35	57	70	88
	peak.	21	33	51	64	82	100
Speed.Range(cont.)	(r/min)	1950	1550	1005	630	500	395
Max.Flow(cont.)(L/r	nin)	16	20	20	20	20	20
Max.Output.Power(cont.)		1.8	2.4	2.4	2.4	2.2	1.8
Weight(Kg)		1.9	2	2.1	2.2	2.3	2.4

Intermittent operation the permissible values may occur for max.10% of every minute, Peak load:the permissible values may occur for max.1% of every minute.



■ PERFORMANCE DATA

		Pressu	re(Mpa)		Max.cont.		Max.int.
		3.5	5	7	10	12	14
		3	5	8	10	12	14
	2	228	218	206	156	111	58
Flow(L/min)		3	5	7	11	13	15
Ę	4	474	471	463	426	391	331
×	8	3	5	7	11	13	15
윤	Lů	953	946	926	884	855	816
67.59	12	2	5	7	10	13	15
	12	1444	1426	1402	1360	1324	1288
Max.cont.	16		4	7	10	12	14
Max.com.			1912	1900	1861	1833	1780
Max.int.	20			6	10	11	14
MONING				2395	2350	2328	2281

		OTMM Pressur		•	Max.cont		Max.int
		3.5	5	7	10	12	14_
1	2	6 140	8 136	11 119	15 68	19 35	\$
<u>=</u>	4	6 296	8 2 8 9	12 274	16 229	19 200	23 145
Flow(L/min)	8	5 6 05	8 596	12 58 3	16 5 43	20 514	24 4 6 9
Ę	12	5 912	8 905	11 89 5	16 859	20 83 4	24 784
	15	5 1152	7 1144	11 1136	16 1102	19 1078	23 10 3 6
Max.cont.	20	3 1542	7 1532	10 1521	15 1500	19 1482	22 1437
Max.int.	25	2 1910	6 1891	9 1878	14 1848	18 1828	22 1788

OTMM 20(19.9ml/r)

		Pressu	re(Mpa	a)		Max.cont		Max.int.
		1.7	3.5	5	7	10	12	14
						_		and the
	2	4	9	14	19	24	30	
		99	96	89	74	42	21	
	4	4	9	14	19	24	31	36
<u>:</u>	4	197	191	182	178	134	112	74
Ę	8	4	9	13	19	25	31	36
Flow(L/min)	°	398	395	391	377	340	319	288
윤	12	3	8	13	18	25	31	37
		596	594	588	579	545	523	493
		3	8	12	17	25	30	36
	13	745	741	738	728	695	684	660
Max.cont.	t. 20	1	6	11	19	24	29	35
wax.com.		998	995	991	985	962	916	885
Max.int.	25		4	9	14	23	28	33
IVIGA IIIL	25		1247	1245	1242	1189	1180	1176

OTMM	320	31	6ml/r)

		Pressu		Max.cont		Max.int.		
		2	7	10	12	14		
		7	15	21	28	39		
	2	61	57	52	47	16		
		7	15	21	29	40	48	57
<u>=</u>	4	126	121	114	106	82	67	49
Ę	Flow(L/min)	7	15	21	29	40	49	58
N.		250	244	239	231	207	194	167
윤	12	6	13	20	28	40	48	58
	'2	378	374	369	362	338	3 22	297
	15	4	12	18	27	39	47	57
	15	474	472	468	462	441	429	406
Max.cont.	. 20	3	10	17	25	37	46	55
Wida_cont_	_20	631	630	627	619	601	585	5 6 6
Max.int.	25	1	8	15	23	35	43	52
IVICA, III.		791	789	787	783	766	753	732

OTMM 40(39.8ml/r)

		,								
		Pressu	Pressure(Mpa) Max.cont.							
		3	5	7	9	10	12			
	2	16	27	36	44	51				
	لـكــا	45	40	34	28	17				
	4	16	27	37	45	52	62			
Flow(L/min)	4	96	93	8 5	79	65	52			
٤	8	15	26	36	45	52	63			
× ×	l°	197	195	182	176	166	154			
Ê	12	14	25	35	43	51	62			
_		293	287	282	277	268	257			
	45	13	24	34	42	50	62			
	15	371	365	360	355	347	338			
	00	10	21	31	39	48	59			
Max.cont.	20	497	492	487	480	472	463			
	OF	7	19	29	37	44	56			
Max.int.	25	622	617	612	607	600	591			
		/ G8				1				

OTMM50(50.3ml/r)

		Pressu	Pressure(Mpa) Max.cont.								
	1.5 3 5 7										
	_	30									
	2	9	18	32	45						
	لـــُــا	37	33	27	22						
1	4	9	19	33	46	64					
<u>:</u>	"	76	73	68	63	55					
٤ ا	8	9	19	33	46	64					
× –		157	154	149	145	137					
Flow(L/min)	12	9	18	32	46	63					
_		237	234	231	226	218					
	15	8	17	31	42	62					
	15	296	295	294	288	282					
	20	6	13	27	40	59					
Max.cont.	20	395	395	393	390	381					
	25	4	11	25	37	58					
Max.int.		497	496	494	490	484					

(Torque): 44Nm (Speed): 600r/min

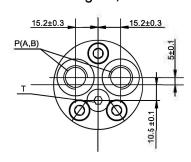
Cont.



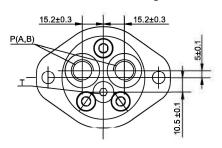
OTMM Installation

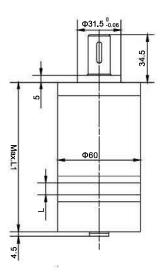
Y*(End port Y*)

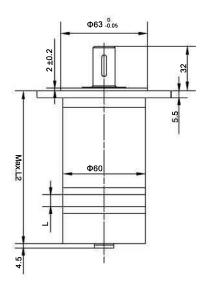
lange C,C1

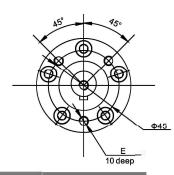


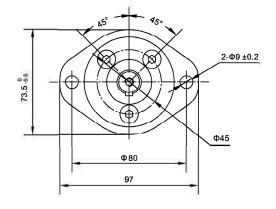
All 2-hole oval flange All











Flange	Е
С	3–M6
C1	3-1/4-28UNF

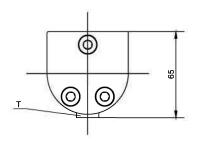
Туре	OTMM-8	OTMM-12.5	OTMM-20	OTMM-32	OTMM-40	OTMM-50
L	3.5	5.5	8.5	13.5	17	21.5
L1	104.5	106.5	109.5	114.5	118	122.5
L2	107	109	112	117	120.5	125

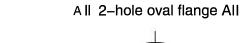


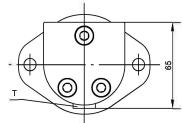
OTMM Installation

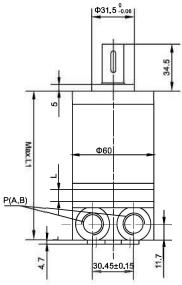
S*(Side port S*)

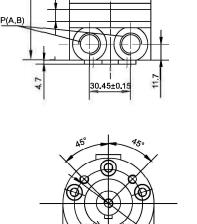
lange C,C1



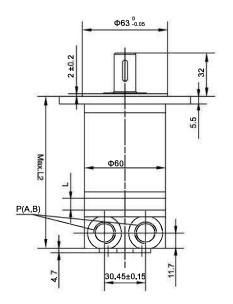


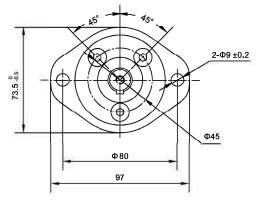






Flange	E
С	3-M6
C1	3-1/4-28UNF





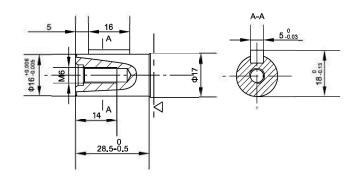
Туре	OTMM-8	OTMM-12.5	OTMM-20	OTMM-32	OTMM-40	OTMM-50
L	3.5	5.5	8.5	13.5	17	21.5
L1	106	108	111	116	119.5	124
L2	108.5	110.5	113.5	118.5	122	126.5

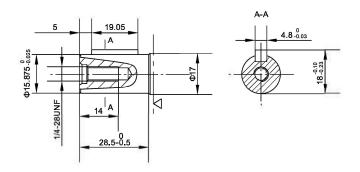


■ SHAFT VERSION

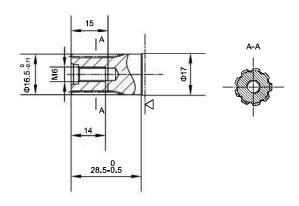
P1: Φ 16 Cylindrical shaft, parallel key5 × 5 × 16

P2: Φ 15.875Cylindrical shaft, parallel key4.8 × 4.8 × 19.05





K1: Φ 16.5involute splined shaft B17 × 14 DIN5482

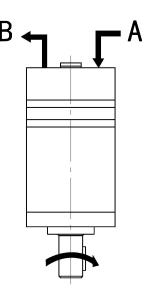


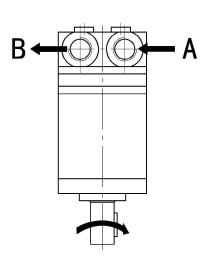
: Motor mounting surface

■ DIRECTION OF SHAFT ROTATION: STANDARD

Direction of shaft ration: Standard

When facing shaft end of motor, shaft to rotate: Clockwise when port "A" is pressurized. Counter-clockwise port "B" is pressurized.







■ ORDERING CODE

1		2	3	4	5	6		7
ОТММ	-					1	_	

Pos.1	2		3		4
Series	Disp		Output		Flange
	8 12.5	P1	Φ 16 Cylindrical shaft, parallel key5 × 5 × 16	С	3-M6 Flange, pilotΦ31.5
ОТММ	20 32	P2	Φ15.875 Cylindrical shaft,parallel key4.8 × 4.8 × 19.05	C1	3–1/4–28UNF Fange, pilotΦ Φ31.5
	40 50 K1		Φ16.5 involute splined shaft, B17 x 14 DIN5482	ΑII	2-Φ9 Oval fange, pilotΦΦ63

	5		6	7			
	Ports			Rotation			
Code	Ports(A,B)(deep) Drain port T(deep)	Sp	ecial features		ection		
	(End port Y★)						
Y1	G3/8(12),G1/8(8)	Omit	Standard	Omit	Standard		
Y2	9/16-18UNF(12),3/8-24UNF(8)	ĺ					
	S*(Side port S*)						
S1	G3/8(12),G1/8(8)			L	Opposite		
S2	9/16-18UNF(12),3/8-24UNF(8)						



■ OTMR INTRODUCTION



This series of motor, with its shell made of ductile cast iron of adequate intensity, can be applied to situations with less load and interbval operation, widely to agriculture, forestry, plastics, machine tools and min machines, such as the mould height adjustment of the injection molding machine, the cleaner, the sawmill the worktable etc.

■ OTMR CHARACTERISTICS

- 1. The output shaft, with the deep groove ball bearing, can bear certain axial force and radial force.
- 2. With the axial oil distrbution structur, it is of smaller size and less weight.
- 3. With two inner check valves, no drain connection.
- 4. With cycoid group with the roller, it has a small friction and high mechanical efficiency.

■ OTMR TECHNICAL DATA

Туре		OTMR OTMRW OTMRS OTMRE 50	OTMR OTMRW OTMRS OTMRE 80	OTMR OTMRW OTMRS OTMRE 100	OTMR OTMRW OTMRS OTMRE 125	OTMR OTMRW OTMRS OTMRE 160	OTMR OTMRW OTMRS OTMRE 200	OTMR OTMRW OTMRS OTMRE 250	OTMR OTMRW OTMRS OTMRE 315	OTMR OTMRW OTMRS OTMRE 400
Displacement.(ml/r)		51.7	80.5	100.5	126.3	160.8	200.9	252.6	321.5	401.9
	cont.	14	14	14	14	14	14	11	9	7
Max.Pressure. Drop (Mpa)	int.	17.5	17.5	17.5	17.5	17.5	17.5	14	11	9
,	peak.	20	20	20	20	20	20	16	13	11
	cont.	93	152	194	237	310	369	380	380	380
Max.torque (Nm)	int.	118	189	236	296	378	450	470	470	470
	peak.	135	216	270	338	433	509	540	540	540
Max.Speed(cont	.)(r/min)	770	745	595	475	370	295	235	185	150
Max.Flow(cont.)(L/	min)	40	60	60	60	60	60	60	60	60
Max.Output.Power	(cont.)(Kw) 7	10	10	10	10	8	6	5	4
Weight(Kg)		6.5	6.9	7.0	7.3	7.5	8.0	8.5	9.0	11

Intermittent operation the permissible values may occur for max.10% of every minute, Peak load:the permissible values may occur for max.1% of every minute.



■ OTMRY TECHNICAL DATA

Туре		OTMRY 50	OTMRY 80	OTMRY 100	OTMRY 125	OTMRY 160	OTMRY 200	OTMRY 250	OTMRY 315	OTMRY 400
Displacement.(ml/r)		51.7	80.5	100.5	126.3	160.8	200.9	252.6	321.5	401.9
	cont.	17.5	17.5	17.5	17.5	17.5	17.5	14	12	10
Max.Pressure. Drop (Mpa)	int.	20	20	20	20	20	19	16	14	12
	peak.	22	22	22	22	22	20	18	15	14
	cont.	110	189	236	296	378	450	470	485	500
Max.torque (Nm)	int.	135	216	270	338	433	486	540	573	614
	peak.	144	225	281	353	450	511	579	614	710
Max.Speed(cont	.)(r/min)	770	745	595	475	370	295	235	185	150
Max.Flow(cont.)(L/	min)	40	60	60	60	60	60	60	60	60
Max.Output.Power	(cont.) (Kw) 7.5	12	12	12	12	11	9.5	7.5	6.5
Weight(Kg)		6.9	7.3	7.4	7.7	7.9	8.4	8.9	9.4	11.4

Intermittent operation the permissible values may occur for max.10% of every minute, Peak load:the permissible values may occur for max.1% of every minute.

■ OTMR PERFORMANCE DATA

		OTMR ! Pressur				Max.cont		Max.int.		
		5	7	9	10	12	14	16	17.5	
	5	34	44	58	65	75	88			
	,	94	85	77	77	72	50			
	10	35	45	61	68	79	94	107	119	
2	10	188	179	167	163	154	137	119	98	
Ē	15	34	48	62	72	87	100	108	122	
Flow(L/min)	15	285	279	271	263	252	232	213	187	
	20	34	46	60	68	82	95	109	125	
		379	377	367	363	348	332	304	272	
	30	32	43	59	66	79	94	107	121	
	30	578	571	563	556	544	533	502	467	
Max.cont.	40	30	40	57	65	78	91	105	120	
Wax.com.	40	762	760	755	752	740	726	702	672	
	45	29	39	56	64	77	89	104	120	
	40	858	855	851	847	837	817	798	772	
	50	25	36	52	59	72	84	98	113	
Max.int.	50	952	942	927	908	882	854	834	803	

		Pressui	e (Mpa))			Max.cont.		Max.int.
		5	7	9	10	12	14	16	17.5
1	5	48	58	84	106	129			
	5	61	58	52	46	40			
	40	50	74	96	106	126	145	170	
	10	122	116	112	108	106	99	60	
	20	54	76	100	109	131	152	174	193
How	20	243	239	231	219	206	192	176	152
	20	50	72	96	104	128	148	172	191
	30	362	358	356	350	349	335	325	300
	40	45	70	95	104	125	146	171	188
	40	484	480	478	476	470	468	440	438
	FO	41	68	91	101	122	145	168	186
	50	610	608	606	603	600	598	550	520
	60	35	65	88	96	120	142	164	182
.cont.	60	726	723	720	718	710	700	698	680
- 1	70	30	58	81	93	114	136	158	175
	70	845	834	820	802	789	767	754	730
int.	75	19	48	76	88	108	132	151	168
int.	75	910	895	881	867	852	830	806	787



■ OTMR PERFORMANCE DATA

		TMR 10 Pressur	•	-			Max.cont.		Max.int.
		5	7	9	10	12	14	16	17.5
	5	64 49	90 48	118 46	134 42	154 38			
	10	65 96	93 94	122 93	134 91	155 80	183 60	210 48	
Flow(L/min)	20	62 192	93 188	121 184	135 178	153 171	184 168	208 158	236 146
	30	61 296	90 294	118 290	130 290	150 288	180 282	200 270	232 258
	40	55 387	86 380	115 369	126 361	146 356	181 348	206 338	228 320
	50	46 484	77 479	108 472	121 463	146 452	181 445	200 428	221 410
Max.cont.	60	34 583	62 567	98 569	110 555	136 540	170 536	186 528	199 516
	70	30 680	63 672	97 662	110 650	138 640	170 635	190 620	210 606
Max.int.	75	20 728	54 720	90 710	106 695	130 681	165 667	188 650	200 634

		OTMR Pressur	-	-					
							Max.cont.		Max.int.
		<u>5</u>	<u>7</u>	<u>9</u>	<u>10</u>	12	14	16	17.5
15	5	74	106	140	163				
		37	32	27	21				
	10	81	114	152	172	200	220	250	
	10	78	77	74	59	45	29	20	
_	20	80	114	150	170	200	221	254	292
Flow(L/min)	20	157	156	154	151	146	142	120	114
	30 40	78	112	149	169	198	220	252	290
Ĕ.		232	230	228	222	220	218	199	170
1		77	111	147	168	196	218	250	288
		312	311	307	300	298	284	270	252
9	50	62	105	143	165	195	223	254	287
	50	391	388	384	380	372	362	346	330
	60	52	98	136	160	191	220	250	282
Max.cont.	60	470	468	464	459	448	434	412	405
	70	41	90	130	156	187	215	242	278
	/0	548	544	540	541	538	535	530	496
Max.int.	75	32	79	126	148	180	208	234	262
iviax.ifit.	75	586	583	578	570	560	546	532	520

17.5

	OTMR 160[160.8ml/r] Pressure (Mpa) Max.co						May cont		Max.int.			OTMR : Pressur	-						
		$\overline{}$		-	1	- 40			ī	Î							Max.cont.		M
		5	7	9	10	12	14	16	17.5			<u>5</u>	<u>7</u>	9	<u>10</u>	12	14	16	
	5	100 29	142 26	188 21	207 19					5	129	176	230	256				Ī	
	10	104 62	146 60	191 58	211 49	245 45	282 32	330 25			10	133	22 182	18 236	13 261	310	352	400	-
3	20	102	148	194	218	251	290	338	368			49	47	45	43	38	33	24	L
2	20	124	120	118	114	109	104	99	94		20	131 99	181 97	232 94	256 92	308 88	354 83	400 74	
-low(L/min)	30	96 183	141 181	186 179	215 176	248 166	288 158	335 144	364 132	-low(L/min)	30	126	176	299	252	308	353	400	
Ę	-	87	136	180	206	248	286	330	358	low(l		149	147	144	141	135	126	113	L
	40	246	242	240	235	231	219	200	181	ш	40	112	168	224	248	304	350	393	
	70 126 172 198 238 278 320 350	\vdash	200 94	197 154	194 220	191 243	185 294	174 343	160 384	H									
	30	309	307	300	295	287	278	262	247	1	50	252	249	246	243	238	228	212	
Max.cont.	60	58	111	168	191	232	271	312	342	Max.cont.	60	78	144	213	236	287	339	382	Ī
à		371	367 104	359	354 190	346 228	338 267	323 301	306 338		00	304	301	298	294	286	276	262	
	70	435	430	421	415	403	393	381	365		70	67	135	206	228	277	336	375	
Max.int.	75	34	91	150	180	221	261	291	328	Max int		355 58	353 125	349 197	340 220	329 270	316 321	300 360	H
wax.in.		470	463	450	441	431	420	405	389	wax.irit.	75	382	379	373	362	350	337	322	
(Torque) : 150Nm (Speed) : 450r/min								Cont.											



■ OTMR PERFORMANCE DATA

		Pressur	e (Mpa)			Max.cont.		Max.int.
		5	7	9	10	11	12	14
Ì	5	172	240	300	338	352		
	э	20	19	18	16	15		
10 20 30	10	173	242	308	340	351	405	462
	10	42	38	36	33	33	28	22
	20	170	238	301	339	350	402	460
	20	79	77	75	72	71	69	61
J)W	30	160	231	298	330	347	398	455
윤	30	117	114	111	109	108	103	95
	40	141	221	298	327	342	394	445
	40	157	155	153	150	148	146	135
	50	122	206	287	321	332	382	438
	50	196	193	190	177	175	170	163
	60	101	190	278	312	328	369	424
/lax.cont.	00	236	233	230	227	225	221	208
- 1	70	86	176	262	298	302	353	416
	, 0	276	273	270	266	264	255	245
	75	60	163	254	286	291	345	410
Max.int.	73	297	294	290	286	282	277	266

	OTMR 315[321.5ml/r] Pressure (Mpa) Max.cont. Max.int.										
		3	5	7	9	10	11				
	5	110 14	199 12								
	10	108 31	190 30	272 29	360 28	400 26	451 25				
(uin	20	110 61	196 60	279 59	356 57	398 55	448 53				
Flow(L/min)	30	106 91	186 90	270 89	355 86	390 84	442 82				
	40	100 123	179 122	262 120	350 117	382 112	436 110				
	50	92 154	169 153	252 151	342 147	373 140	432 136				
Max.cont.	60	86 185	159 184	241 182	339 177	369 172	428 170				
	70	77 217	146 216	235 213	324 208	342 201	412 200				
Max.int.	75	66 232	132 231	212 228	303 222	332 216	402 214				

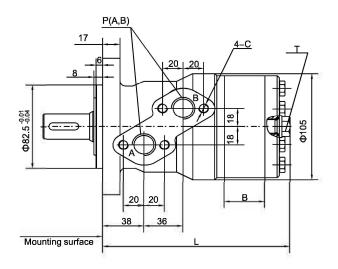
		OTMR 4	-	-			
		i iessui	e (ivipa)		Max.cont.	2 = 3	Max.int.
		3	4	6	7	8	9
	5	152 12					
	10	154 24	205 21	308 18	349 17		
0	20	150 49	201 48	302 47	340 46	392 44	441 41
-low(L/min)	30	146 73	198 74	296 73	331 72	387 70	438 67
Ē	40	140 98	191 97	290 96	321 95	381 94	421 92
	50	132 122	182 121	281 118	315 115	376 112	402 110
Max₌cont.	60	128 146	176 145	272 143	312 140	362 138	389 132
	70	110 170	171 168	259 166	301 162	341 160	379 154
Max₌int.	75	98 182	162 180	232 178	292 176	320 174	356 170

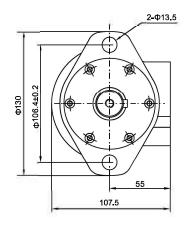
(Torque) : 232Nm (Speed) : 178r/min Cont. Int.



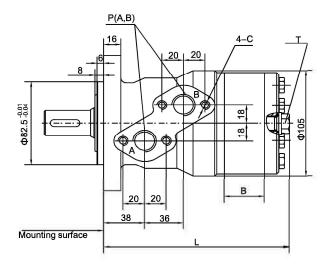
■ OTMR, OTMRE Installation

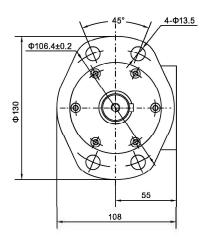
2-hole oval flange A II



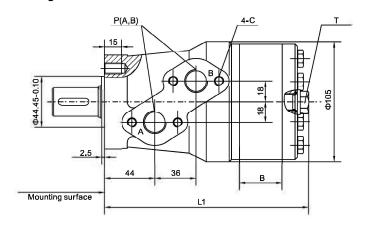


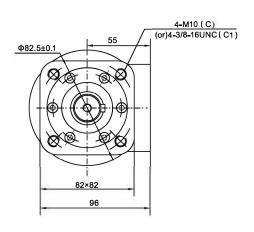
4-hole oval flange A IV





Square flange C, C1



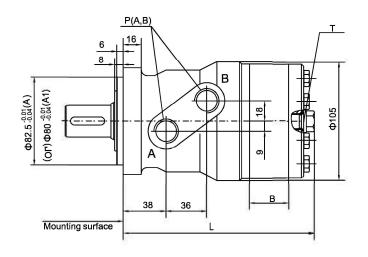


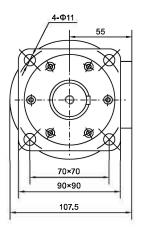
Note: C, C1 mounting are assembling to BMRS shaft



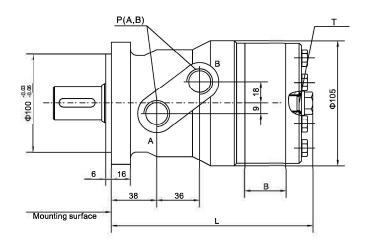
■ OTMR, OTMRE Installation

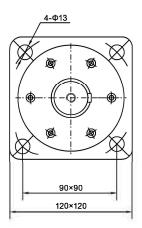
Square flange A, A1





Square flange A2 III





Туре	OTMR - 50	OTMR - 80	OTMR - 100	OTMR - 125	OTMR - 160	OTMR - 200	OTMR-250	OTMR-315	OTMR-400
L	143	148	151.5	156	162	169	178	190	204
L1	151	156	159.5	164	170	177	186	198	212
В	9	14	17.5	22	28	35	44	56	70

■ OTMRY Installtion

Туре	OTMRY - 50	OTMRY - 80	OTMRY - 100	OTMRY - 125	OTMRY- 160	OTMRY - 200	OTMRY-250	OTMRY-315	OTMRY-400
L	150	155	158.5	163	169	176	185	197	211
L1	158	163	166.5	171	177	184	193	205	219
В	9	14	17.5	22	28	35	44	56	70



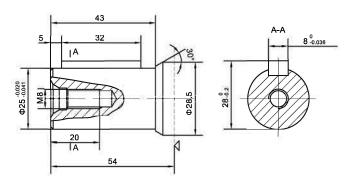
■ OTMR,TMRE PORTS CODE

Ports Code	P(A、B)(⊯eep)	C (deep)	T (deep)
Υ	G1/2 (15)	M8 (13)	M14 × 1.5 (12)
Y1	M18 × 1.5 (15)	M8 (13)	M14×1.5 (12)
Y2	M22 × 1.5 (15)	M8 (13)	M14 × 1.5 (12)
Y4	ZG3/8 (15)	M8 (13)	M14×1.5 (12)
Y5	7/8-14UNF (15)	·—	M14×1.5 (12)
Y7	ZG1/2 (15)	M8 (13)	M14 × 1.5 (12)
Y8	NPT1/2 (15)	M8 (13)	M14 × 1.5 (12)
Y9	NPTF1/2 (15)	5/16-18UNC (13)	7/16-20UNF (12)
Y10	G1/2 (15)	M8 (13)	G1/4 (12)
Y15	7/8-14UNF (15)	5/16-18UNC (13)	7/16-20UNF (12)

Note:P(A, B)--Ports, C--Mounting Thread (-Indicates no this thread), T--Drain connection

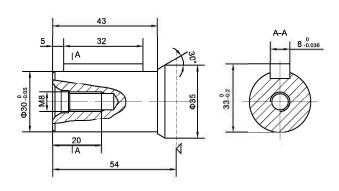
■ OTMR, OTMRE — SHAFT VERSION

P1: Φ 25 Cylindrical shaft, parallel key8 \times 7 \times 32

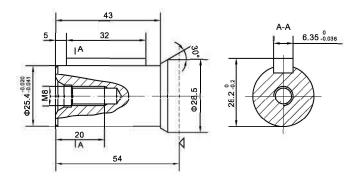


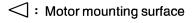
P3: Φ 25.4 Cylindrical shaft, parallel key6.35 \times 6.35 \times 32

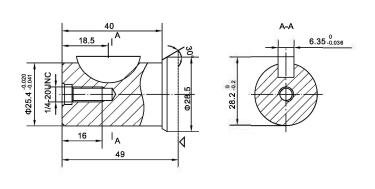
P2: Φ 30 Cylindrical shaft, parallel key8 \times 7 \times 32



P4: Φ 25.4 Cylindrical shaft, Woodruff key Φ 25.4 × 6.35







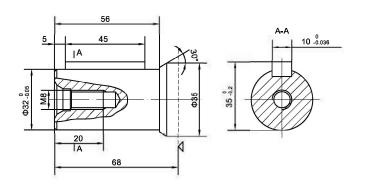


■ OTMR, OTMRE — SHAFT VERSION

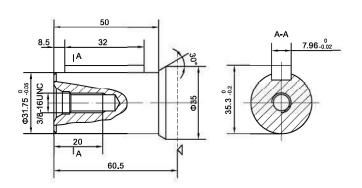
P5: Φ 32 Cylindrical shaft, parallel key10 \times 8 \times 45

56 45 10 -0.036

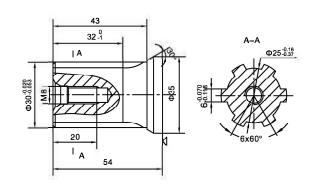
P52: Φ 32 Cylindrical shaft, parallel key10 × 8 × 45



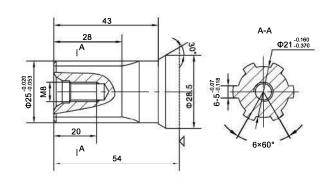
P6: Φ 31.75 Cylindrical shaft, parallel key7.96 × 7.96 × 32



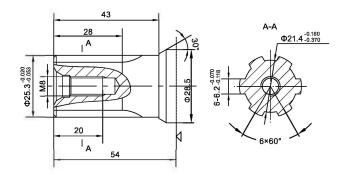
H1: Φ 30 Splined shaft, $6-30 \times 25 \times 6$



H2: Φ 25 Splined shaft, 6-25 × 21 × 5



H3: Φ 25.3 Splined shaft, $6-25.3 \times 21.4 \times 6.2$

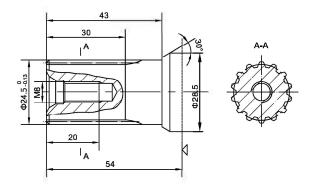


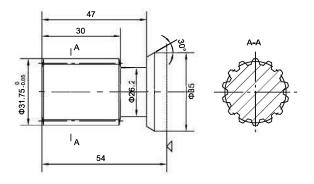
✓ : Motor mounting surface



■ OTMR,TMRE — SHAFT VERSION

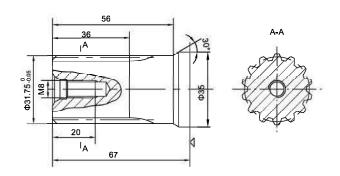
K4: Φ 24.5 involute splined shaft B25 \times 22 DIN5482 m: 1.6 Z:14 K10: Φ 31.75 involve splined shaft 14–DP12/24 a=30°

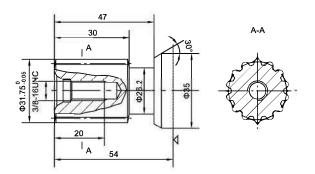




K13: Φ31.75 involute splined shaft 14-DP12/24 a=30°

K14: Φ31.75 involute splined shaft 14–DP12/24 a=30°





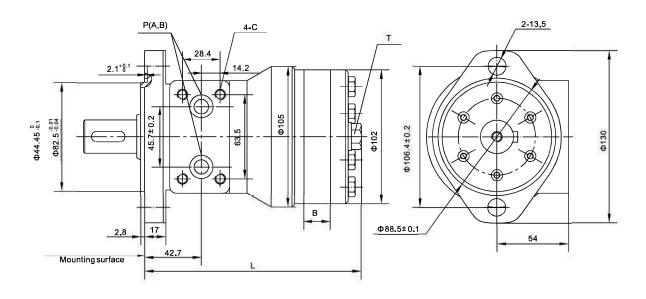
Note: OTMRE series motors don't include the following output shafts: P2, P5, P52, P6, H1, K4, K10, K13, K14.

✓ : Motor mounting surface

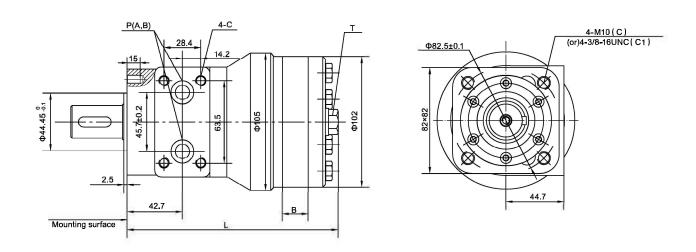


■ OTMRS Installation

2-hole oval flange AII



C,C1 Square flange



Туре	OTMRS-50	OTMRS-80	OTMRS-100	OTMRS-125	OTMRS-160	OTMRS-200	OTMRS-250	OTMRS-315	OTMRS-400
L	151	156	159.5	164	170	177	186	198	212
В	9	14	17.5	22	28	35	44	56	70



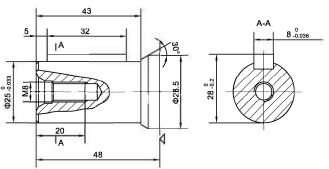
■ OTMRS PORTS CODE

Ports Code	P(A、B)(deep)	C (deep)	T (deep)
Υ	G1/2 (15)		M14 × 1.5(12)
Y5	7/8-14UNF(15)	1_	7/16-20UNF(12)
Y7	ZG1/2(15)	_	G1/4(12)
Y9	NPTF1/2(15)	=	7/16-20UNF(12)
Y10	G1/2(15)	:	G1/4(12)
Y17	3/4-16UNF(15)	.—	7/16-20UNF(12)
Y19	Ф11(15)	5/16-18UNC(13)	7/16-20UNF(12)
Y20	M18 × 1.5(15)	M8 (13)	G1/4(12)

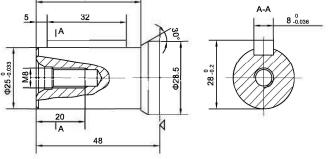
P(A, B)—Ports, C—Mounting Thread (—Indicates no this thread) , T—Drain connection

■ OTMRS SHAFT VERSION

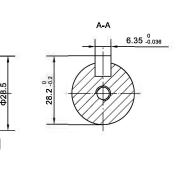
P1: Φ 25 Cylindrical shaft, parallel key8 \times 7 \times 32

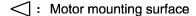


P4: Φ 25.4 Cylindrical shaft, Woodruff key Φ 25.4 × 6.35



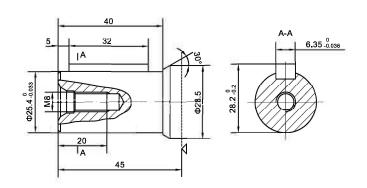
P33: Φ 25.4 Cylindrical shaft, parallel key6.35 \times 6.35 \times 32



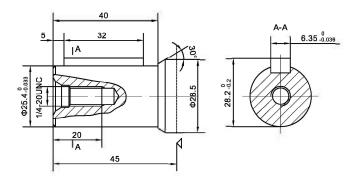


 I_A

18.5±0.1



P3: Φ 25.4 Cylindrical shaft, parallel key6.35 × 6.35 × 32

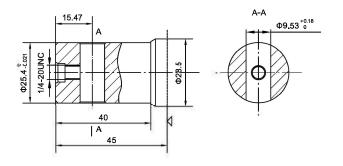


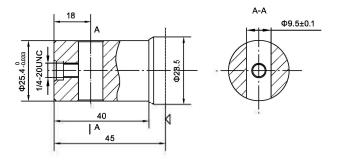


■ OTMRS SHAFT VERSION

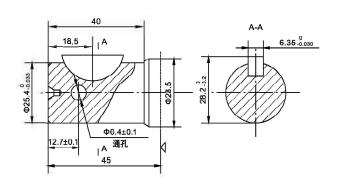
P89: Φ 25.4Cylindrical shaft pin hole Φ 9.53

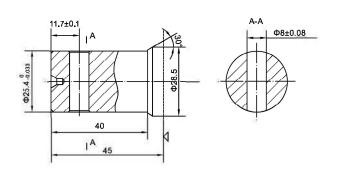
P93: Φ25.4Cylindrical shaft pin hole Φ9.5





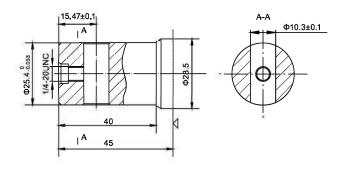
 $P95: \Phi 25.4 \text{Cylindrical shaft pin hole } \Phi 6.4\text{,} \quad Woodruff key \\ \Phi 25.4 \times 6.35 \quad P96: \Phi 25.4 \text{Cylindrical shaft pin hole } \Phi 8.4 \times 6.35 \\ \quad P96: \Phi 25.4 \text{Cylindrical shaft pin hole } \Phi 8.4 \times 6.35 \\ \quad P96: \Phi 25.4 \text{Cylindrical shaft pin hole } \Phi 8.4 \times 6.35 \\ \quad P96: \Phi 25.4 \text{Cylindrical shaft pin hole } \Phi 8.4 \times 6.35 \\ \quad P96: \Phi 25.4 \text{Cylindrical shaft pin hole } \Phi 8.4 \times 6.35 \\ \quad P96: \Phi 25.4 \text{Cylindrical shaft pin hole } \Phi 8.4 \times 6.35 \\ \quad P96: \Phi 25.4 \times 6.35 \\ \quad P96: \Phi 25.4$

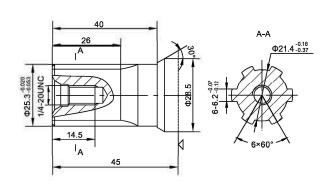




P97: Φ25.4Cylindrical shaft pin hole Φ10.3

H4: Φ 25.3 Splined shaft, 6–25.3 × 21.4 × 6.2



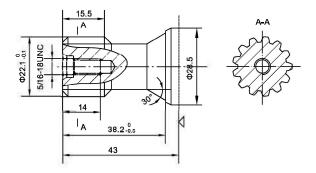


: Motor mounting surface



■ OTMRS SHAFT VERSION

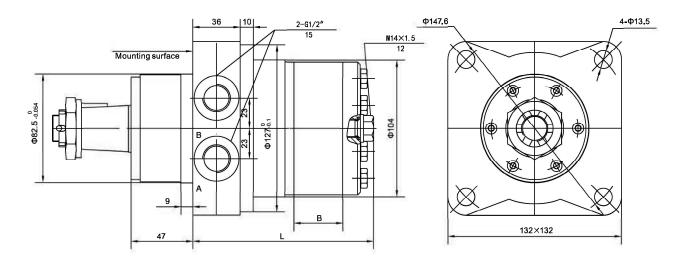
K8: Φ22.1 involute splined shaft, 13-DP16/32



: Motor mounting surface



■ OTMRW Installation



Type	OTMRW-50	OTMRW-80	OTMRW-100	OTMRW-125	OTMRW- 160	OTMRW-200	OTMRW-250	OTMRW- 315	OTMRW-400
L	108	113	117	121	127	134	143	155	169
В	9	14	17.5	22	28	35	44	56	70

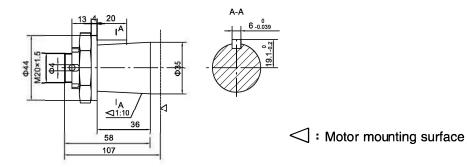
■ OTMRW PORTS CODE

Ports	P(A、B)(deep)	C (deep)	T (deep)		
Υ	G1/2 (15)	-	M14 × 1.5(12)		

 $P(A,\ B)--Ports,\ C--Mounting\ Thread\ \ (\ --Indicates\ no\ this\ thread\)\ ,\ T--Drain\ connection$

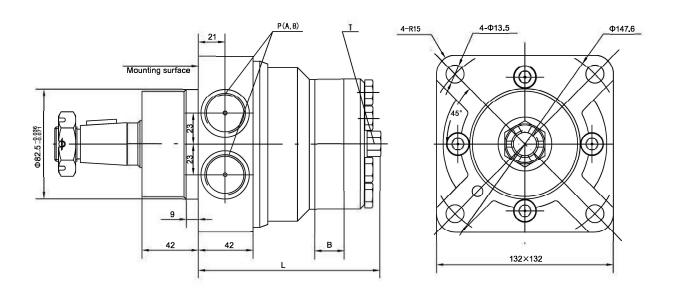
■ OTMRW

Z: Φ 35 Tapered shaft, taper1:10, parallel key B6 \times 6 \times 20





■ OTMRW1Installation



Туре	OTMRW1-50	OTMRW1-80	OTMRW1-100	OTMRW1-125	5 OTMRW1-160	OTMRW1-200	OTMRW1-250	OTMRW1-315	OTMRW1-400
L	125	130	134	138	144	151	160	172	186
В	9	14	17.5	22	28	35	44	56	70

■ OTMRW1PORTS CODE

Ports Code	P(A、B)(deep)	C (deep)	T (deep)
Υ	G1/2 (15)	-	M14 × 1.5(12)
Y 5	7/8-14UNF(15)	-	M14 × 1.5(12)
Y10	G1/2 (15)	-	G1/4 (12)

 $P(A,\;B)--Ports,\;C--Mounting\;Thread\;\;(\;-Indicates\;no\;this\;thread\;)\;\;,\;\;T--Drain\;connection$

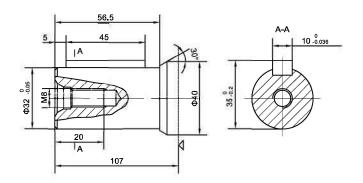


■ OTMRW1SHAFT VERSION

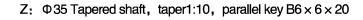
P1: Φ 25 Cylindrical shaft, Parallel key $8 \times 7 \times 45$

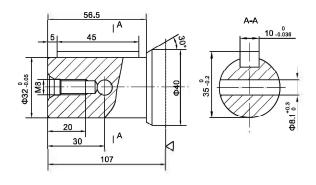
52 3 45 1A 8-0.036 87 87 87 97

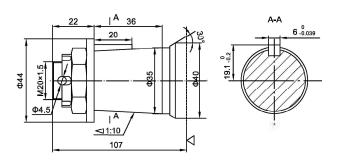
P5: Φ32 Cylindrical shaft, parallel key 10 × 8 × 45



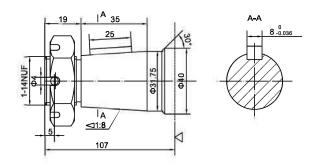
P6: Φ 32 Cylindrical shaft, Cylindrical shaft pin hole Φ 8.1, parallel key $10\times8\times45$







Z1: Φ 31.75 Tapered shaft, taper1:8, parallel key $8 \times 7 \times 25$



: Motor mounting surface

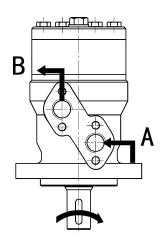


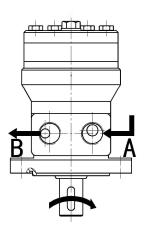
OTMR、OTMRS、OTMRW Series Motor

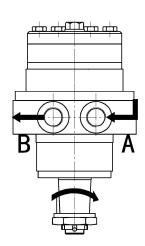
■ OTMR、OTMRS、OTMRW Series Motor

Direction of shaft ration: Standard

When facing shaft end of motor, shaft to rotate: Clockwise when port "A" is pressurized. Counter-clockwise port "B" is pressurized.

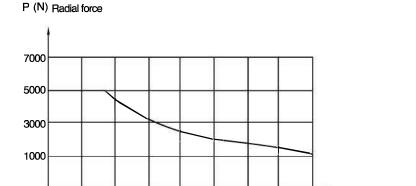




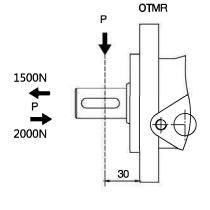


■ OTMR,OTMRW PERMISSIBLE SHAFT LOADS

400



600



P(N) Radial force

160000

120000

8000

4000

0

20

40

60

80

100

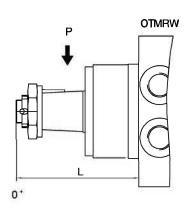
L(mm)

200

A:n=50 r/min B:n=200 r/min C:n=800 r/min

800

Speed(r/min)

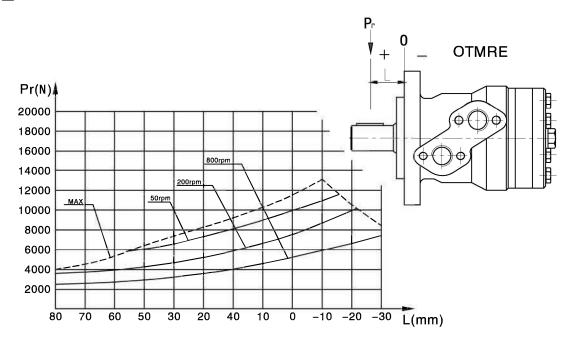


0



OTMR、OTMRS、OTMRW Series Motor

■ OTMRE PERMISSIBLE SHAFT LOADS





OTMR、OTMRS、OTMRW Series Mortor

■ OTMR、OTMRE、OTMRS、OTMRW ORDERING CODE

1		2	3	4	5		6		7
OTMR/ OTMRE	_				.,	/		_	

Pos.1	2		3		4
Series	Disp		Output		Flange
	50	P1	Φ 25 Cylindrical shaft, parallel key8 \times 7 \times 32		
		P2	$\Phi 30$ Cylindrical shaft, parallel key8 $\times 7 \times 32$	ΑII	2-Φ13.5 Oval flange, pilotΦ82.5×6
	80	РЗ	Φ 25.4 Cylindrical shaft, parallel key6.35 × 6.35 × 32		
		P4	Φ 25.4 Cylindrical shaft, Woodruff key Φ 25.4 × 6.35	AIV	4-Φ13.5 Oval flange, pilotΦ82.5 x 6
	100	P5	Φ32 Cylindrical shaft, parallel key10×8×45		
	125	P52	Φ32 Cylindrical shaft, parallel key10 × 8 × 45	С	4-M10 Square flange, pilot Φ44.45 × 2.5
OTMR/ OTMRE		P6	Φ 31.75 Cylindrical shaft, parallel key7.96 × 7.96 × 32		
	160	H1	Φ 30 Splined shaft, $6-30\times25\times6$	C1	4–3/8–16UNC Square flange, pilot Φ44.45 \times 2.5
		H2	Φ 25 Splined shaft, 6–25×21×5		
	200	нз	Φ 25.3 Splined shaft, 6–25.3 × 21.4 × 6.2	A	4-Φ11Square flange, pilotΦ82.5×6
		K4	Φ 24.5 involute splined shaft, B25 × 22 DIN5482		
	250	K10	Φ31.75 involute splined shaft, 14–DP12/24 a=30°	A1	4-Φ11 Square flange, pilotΦ80×6
	315	K13	Φ31.75 involute splined shaft, 14-DP12/24 a=30°		
		K14	Φ31.75 involute splined shaft, 14-DP12/24 a=30°	A2	4-Φ13 Square flange, pilotΦ100×6
	400	Z1	Φ 28.56 Tapered shaft, taper1:10, parallel key $5 \times 5 \times 14$		

OTMRE series motors don't include the following output shafts:P2、P5、P52、P6、H1、K4、K10、K13、K14



	Į.	5		6		7
Code		orts	Sp	ecial features		otation
	Ports(A,B)(deep)	Drain port T(deep)	·	Ī	dir	ection
Y	G1/2(15)	M14×1.5(12)				
Y1	M18 × 1.5(15)	M14 × 1.5(12)				
Y2	M22 × 1.5(15)	M14 × 1.5(12)				
Y4	ZG3/8(15)	M14 × 1.5(12)	Omit	Standard	Omit	Standard
Y5	7/8–14UNF(15)	M14 × 1.5(12)	Т7	With dustproof ring	L	Opposite
Y7	ZG1/2(15)	M14 × 1.5(12)	T10	With high pressure seals		
Y8	NPT1/2(15)	M14×1.5(12)				
Y9	NPTF1/2(15)	7/16–20UNF(12)				
Y10	G1/2(15)	G1/4(12)				
Y15	7/8–14UNF(15)	7/16–20UNF(12)				



OTMR、OTMRS、OTMRW Series Motor

■ OTMR, OTMRS, OTMRW ORDERING CODE

1		2	3	4	5	6	7
OTMRS	_					/	

Pos.1	2		3		4		
Series	Disp		Output		Flange		
	50	P1	Φ 25 Cylindrical shaft, parallel key8 \times 7 \times 32				
	80	P3			2-Φ13.5 Oval flange, pilotΦ82.5×2.8		
	100	P4					
	100	P33	Φ 25.4 Cylindrical shaft, parallel key6.35×6.35×32				
	125	P89	Φ 25.4 Cylindrical shaft pin hole Φ 9.53				
OTMRS	160	P93	Φ25.4 Cylindrical shaft pin hole Φ 9.5	С	4–M10 Square flange, pilot Φ44.45 × 2.8		
	200	P95	$Φ25.4$ Cylindrical shaft pin hole $Φ6.4$, Woodruff key $Φ25.4 \times 6.35$				
	250	P96	Φ25.4 Cylindrical shaft pin hole Φ8				
		P97	Φ25.4 Cylindrical shaft pin hole Φ10.3	C1	4–3/8–16UNC Square flange, pilotΦ44.45 × 2.8		
	315	H4	Φ25.3 Splined shaft, 6-25.3 × 21.4 × 6.2				
	400	K8	Φ22.1 involute splined shaft, 13–DP16/32				



	5			6		7	
Code	Por Ports(A,B)(deep)	ts Drain port T(deep)	Sn	ecial features	Rotation		
-	T Orts(A,D)(deep)	Drain port T(deep)	Эр	eciai ieatures	dir	ection	
Y	G1/2(15)	M14 × 1.5(12)					
Y5	7/8–14UNF(15)	7/16–20UNF(12)					
Y7	ZG1/2(15)	G1/4(12)	Omit	Standard	Omit	Standard	
Y9	NPTF1/2(15)	7/16–20UNF(12)	T21	No case drain	L	Opposite	
Y10	G1/2(15)	G1/4(12)					
Y17	3/4-16UNF(15)	7/16–20UNF(12)					
Y19	Ф 11(15)	7/16–20UNF(12)					
Y20	M18×1.5(15)	G1/4(12)					



OTMR、OTMRS、OTMRW Series Mortor

■ OTMR、OTMRS、OTMRW ORDERING CODE

1		2	3	4	5	6	7
OTMRW	_	0			[]	/	

Pos.1	2		3	4		
Series	Disp		Output	Flange		
OTMRW	50 80 100 125 160 250 315 400 200	z	Φ 35 Tapered shaft, taper1:10, parallel key B6 \times 6 \times 20	А	4-Φ13.5 Square flange, pilotΦ82.5×9	

	5			6	7			
	Ports	3			Rotation			
Code	Ports(A,B)(deep)	Drain port T(deep)	Sp	ecial features	direction			
Υ	G1/2(15)	M14 × 1.5(12)	Omit	Standard	Omit	Standard		
					L	Opposite		



1		2	3	4	5	6	7
OTMRW1	_					/	

Pos.1	2		3		4		
Series	Disp		Output	Flange			
	50	P1	Φ 25 Cylindrical shaft,parallel key $8 \times 7 \times 45$				
	100	P5	Φ 32 Cylindrical shaft, parallel key $10 \times 8 \times 45$				
OTMRW1	125 160 200	P6	Φ32 Cylindrical shaft, Cylindrical shaft pin hole Φ8.1, parallel key $10 \times 8 \times 45$	A	4-Φ13.5 Square flange, pilotΦ82.5×9		
	250 315	z	Φ 35Tapered shaft, taper1:10, parallel key B6 × 6 × 20				
	400	Z1	Φ 31.75Tapered shaft, taper1:8, parallel key $8 \times 7 \times 25$				

	!	5		6	7		
	Po	orts			Rotation		
Code	Ports(A,B)(deep)	Drain port T(deep)	Sp	ecial features	direction		
Y	G1/2(15)	M14 × 1.5(12)					
Y5	7/8–14UNF(15)	M14 × 1.5(12)	Omit T7	Standard With dustproof ring		Standard	
Y10	G1/2(15)	G1/4(12)	, , ,	vviin dustproof filig	_	Opposite	



OTSINTRODUCTION



This series of motor is with spool valve design, with the advanced geroler gear set and ductile iron of adequate intensity. It can be applied to the situation with less load and interval operation, and widely to agricultural machines, forestry machinery, plastic injection machinery, mining machines, metal working machines, conveyors etc.

■ OTS CHARACTERISTICS

- 1, Compact volume, easy installation, especially for limited space working condition.
- 2. Using geroler gear set design, with the function of low friction, low starting pressure, high efficiency, smooth working and longer working life.
- 3, Spool valve design with less side and weight.
- 4. With two inner check valves, drain line can be closed.
- 5. With high pressure seal, the motor can be used in parallel or in series.

■ OTS TECHNICAL DATA

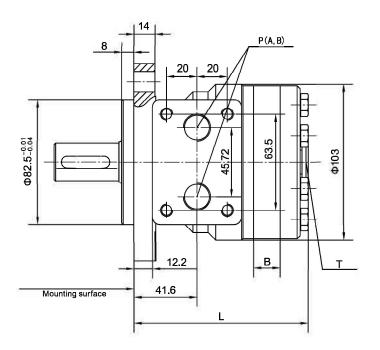
ТҮРЕ		OTS-50	OTS-80	OTS-100	OTS-125	OTS-160	OTS-200	OTS-250	OTS-315	OTS-400
Displacement(ml/r)		51.7	80.5	100.5	126.3	160.8	200.9	252.6	321.5	401.9
	cont.	14	14	14	14	14	12.5	11	9	7
Max.Pressure.Drop (Mpa)	int.	17.5	17.5	17.5	17.5	17.5	15.5	14	11	9
	peak.	20	20	20	20	20	18	16	13	11
	cont.	93	152	194	237	310	320	380	380	380
Max.torque (N.m)	int.	118	189	236	296	378	398	470	470	470
	peak.	135	216	270	338	433	460	540	540	540
Max.Speed(cont.)(r/min)		770	745	595	475	370	295	235	185	150
Max.Flow(L/min)		40	60	60	60	60	60	60	60	60
Max.Output.Power(cont.)(Kw)		7	10	10	10	10	7	6	5	4

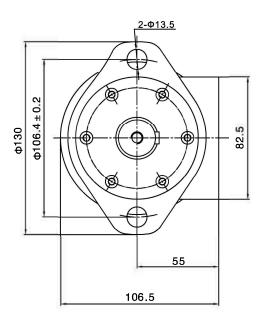
Intermittent operation the permissible values may occur for max. 10% of every minute Peak load: the permissible values may occur for max. 1% of every minute



■ OTS INSTALLATION

2-ø13.5hole oval flange AII





TYPE	OTS-50	OTS-80	OTS-100	OTS-125	OTS-160	OTS-200	OTS-250	OTS-315	OTS-400
L	107	112	115.5	120	126	133	142	154	168
В	9	14	17.5	22	28	35	44	56	70

OTS Ports Code

Ports Code	P(A, B) (deep)	C (deep)	T (deep)
Υ	G1/2 (15)	M8 (13)	M14x1.5 (12)
Y1	M18x1.5 (15)	M8 (13)	M14x1.5 (12)
Y2	M22x1.5 (15)	M8 (13)	M14x1.5 (12)
Y9	NPTF1/2 (15)	5/6-18UNC (13)	7/16–20UNF (12)
Y10	G1/2 (15)	M8 (13)	G1/4 (12)
Y15	7/8–14UNF (15)	5/6-18UNC (13)	7/16–20UNF (12)

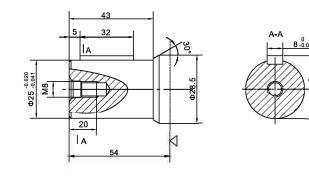
 $Note: P(A,\ B) -- Ports,\ C-- Mounting\ Thread\ \ (\ -- Indicates\ no\ this\ thread\)\ ,\ T-- Drain\ connection$

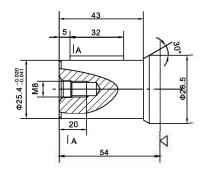


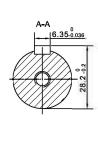
■ OTS SHAFT VERSION

P1: Ф25 Cylindrical shaft,parallel key 8x7x32

P3: Φ25.4 Cylindrical shaft,parallel key 6.35x6.35x32

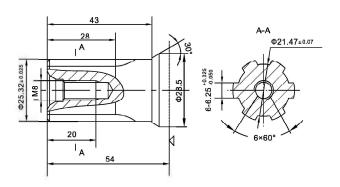


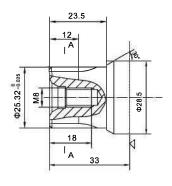


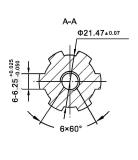


H3: Φ25.3 Splined shaft, 6-25.32x21.47x6.25

H5: Φ25.3 Splined shaft, 6-25.32x21.47x6.25







Motor mounting surface



OTS							
1		2	3	4	5	6	7
ots	_					1	

Pos.1	2	3			4				
Series	Series Disp Output Shaft		Flange						
33	50 80 100 125 160 200 250 315 400	P1	Φ 25Cylindrical shaft, parallel key 8x7x32						
ОТС		125 F 160 – 200 F 250 – 315	125 160 200	125 160 200	125 160 200	Р3	Φ 25.4 Cylindrical shaft, parallel key 6.35x6.35x32		
						200	нз	Ф25.3Splined shaft,6-25.32x21.47x6.25	AII
			H5	Φ25.3Splined shaft,6–25.32x21.47x6.25					

	5			6	7		
	Ports				Rotation		
Code Ports(A,B)(deep)		Drain port T(deep)	Sp	ecial features		rection	
Υ	G1/2 (15)	M14x1.5(12)					
Y1	M18x1.5 (15)	M14x1.5 (12)					
Y2	M22x1.5 (15)	M14x1.5 (12)		Standard			
Y9	NPTF1/2 (15)	7/16–20UNF (12)	Omit		Omit	Standard	
Y10	G1/2 (15)	G1/4 (12)			L	Opposite	
Y15	7/8-14UNF (15)	7/16-20UNF (12)					



OTMH INTRODUCTION



This series of motor, with its shell made of ductile cast iron of adequate intensity, can be applied to situations with less load and interbval operation, widely to agriculture, forestry, plastics, machine tools and min machines, such as the mould height adjustment of the injection molding machine, the cleaner, the sawmill the worktable etc.

■ OTMH CHARACTERISTICS

- 1. The output shaft, with the deep groove ball bearing, can bear certain axial force and radial force.
- 2. With the axial oil distrbution structur, it is of smaller size and less weight.
- 3. With two inner check valves, no drain connection.
- 4. With cycoid group with the roller, it has a small friction and high mechanical efficiency.

■ OTMH TECHNICAL DATA

TYPE		ОТМН-200	OTMH-250	OTMH-315	OTMH – 400	OTMH-500
Displacement(ml/r)	Displacement(ml/r)		253.7	318.9	405.9	471.1
Max.Pressure.Drop	cont.	16	16	15	14	12
(Mpa)	int.	19	19	18	17	15
	peak.	22	22	21	20	18
Man taurus	cont.	425	530	610	825	720
Max.torque (N.m)	int.	510	635	750	900	910
	peak.	590	735	875	1055	1090
Max. Cont. Speed (r/n	nin)	365	295	235	180	155
Max.Flow(cont.)(L/min)		75	75	75	75	75
Max.Output.Power(cont.)(Kw) Weight(kg)		13.8	13.8	12.5	11.5	9.8
		10.5	11	11.5	12.5	13

Intermittent operation the permissible values may occur for max. 10% of every minute Peak load: the permissible values may occur for max. 1% of every minute



■ OTMHPERFORMANCE DATA

OTMH 2	200(203ml/r)
Pressure	(Mna)

		Pressu	re (Mpa		Max.cont. Max.int.			
		3.5	7	10.5	14	16	19	
		91	192	284				
	5	25	24	23				
	10	92	191	282	344	440	520	
	ш	48	47	48	44	42	38	
	20	90	188	280	342	438	516	
	كعا	96	95	94	92	90	88	
Flow(L/min)	30	88	181	278	388	435	511	
5		144	143	139	130	114	101	
) M	40	86	172	270	384	432	506	
윤		193	192	191	188	186	171	
	50	83	168	264	380	428	498	
		241	240	238	234	230	228	
	60	80	156	258	375	420	492	
	۳	290	289	287	284	271	264	
	70	75	149	249	362	419	489	
	Ľ	334	333	331	329	324	320	
Max.cont.	75	69	132	240	351	408	478	
wax.com.	۳	362	360	359	358	351	342	
	80	53	124	231	338	395	453	
		382	381	360	374	365	360	
Max.int.	90	41	119	228	324	387	446	
wax.irit.		434	433	431	429	418	411	

OTMH 315(318.9ml/r)

Pressure (Mpa) Max.cont. Max.int.

	3.5	7.5	10	15	18
	=				
10	148	312	416	650	
10	31	30	28	23	
20	142	308	411	645	765
20	61	60	58	51	46
30	140	301	402	639	751
30	91	90	89	86	78
40	131	294	398	631	732
40	122	121	120	117	107
50	128	289	391	623	715
50	152	151	149	144	135
60	121	281	382	611	703
60	183	181	179	174	170
70	110	273	372	600	692
70	215	214	211	207	200
75	98	261	357	586	679
/3	228	226	224	221	214
80	72	258	346	571	666
60	243	240	237	233	222
90	62	243	332	559	643
90	274	272	270	263	252

OTMH500(471.1ml/r) Pressure (Mpa)

Max.cont.

Max.int.

		Pressur	e (Ivipa)	Max.cont.	Max.int.		
		2.5	4	6	8.5	12	15
	10	153 21	249 20				
	20	152 42	242 41	370 40	650 34	755 29	940 23
ਵ	30	150 62	236 61	361 60	645 55	742 49	931 45
Flow(L/min)	40	147 82	230 81	352 80	640 74	731 69	922 65
Ε	50	145 104	224 102	340 100	637 96	720 90	911 84
	60	142 124	212 122	331 120	632 114	703 110	899 104
	70	140 146	202 143	328 140	621 136	689 13 1	887 125
Max.cont.	75	130 154	197 152	324 150	612 142	682 136	879 130
	80	121 165	183 163	310 161	601 150	661 142	865 138
Max₌int.	90	110 185	172 184	294 182	583 172	654 167	848 161

OTMH 250(253,7ml/r) Pressure (Mpa)

		Pressu	re (ivipa		Max cont. Max int.		
		3.5	7	10.5	14	16	19
	5	118 19	242 19	311 18			
	10	126 38	251 37	326 38	421 34	550 30	
	20	124 85	250 84	325 83	414 81	542 78	640 71
Flow(L/min)	30	118 115	243 113	321 111	410 105	538 95	634 84
	40	111 153	238 152	315 150	402 143	530 139	629 132
ш	50	106 190	231 188	310 187	395 186	523 1 83	621 172
	60	101 230	223 229	302 227	390 224	518 217	613 209
	70	96 268	218 267	294 266	381 262	512 257	602 241
Max.cont.	75	84 287	210 285	284 284	375 280	506 275	596 270
	80	76 306	201 305	271 303	368 301	497 297	581 286
Max.int.	90	56 347	182 345	268 341	351 337	481 333	562 328

OTMH 400(405.9ml/r)

		Pressur	e (Mpa)		Max.cont.	Max.int.	
		3.5	5.5	7	10.5	14	17
	10	186	284	370			1
	'0	24	22	20			
	20	184	282	365	541	760	920
	20	48	47	45	41	34	28
	30	182	280	361	538	751	911
Flow(L/min)	30	72	71	70	64	59	48
	40	178	274	356	532	740	899
	40	96	95	93	91	85	78
	50	175	270	351	530	731	882
_	30	119	118	116	111	106	99
	60	171	261	342	522	712	870
	00	143	141	138	135	129	116
	70	164	248	338	513	703	857
	/0	167	165	161	158	152	146
ax.cont.	75	152	240	332	510	689	841
.x.oom	/5	179	177	175	171	166	159
	80	141	223	330	497	670	823
	60	193	192	190	187	181	172
ax.int.	90	120	218	320	480	645	800
	30	217	215	211	208	202	185

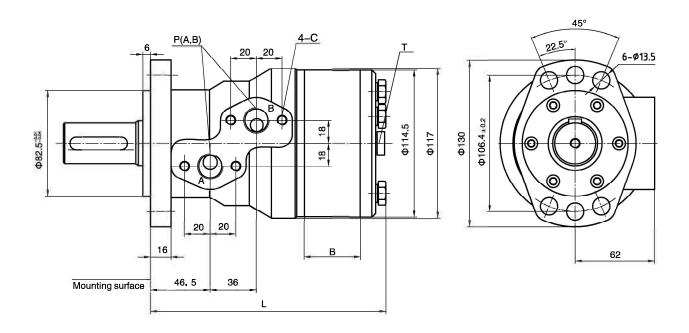
(Torque): 320Nm (Speed) : 211r/min

Cont. Int.



OTMH Installation

6-hole oval flange $\mbox{A\sc IV}$



TYPE	ОТМН-200	OTMH-250	OTMH-315	OTMH-400	OTMH-500
L	168	175	184	196	205
В	28	35	44	56	65

■ OTMH PORTS CODE

Ports Code	P(A、B)(deep)	C (deep)	T (deep)
Υ	G1/2 (15)	M8 (13)	G1/4 (12)
Y5	7/8-14UNF (15)	3/8-16UNC (13)	7/16-20UNF (12)
Y8	NPT1/2 (15)	5/16-18UNC (13)	7/16-20UNF (12)
Y25	7/8-14UNF (15)	M8 (13)	7/16-20UNF (12)

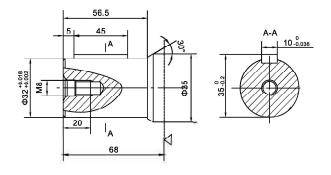
 $Note: P(A,\ B) -- Ports,\ C-- Mounting\ Thread\ (\ -- Indicates\ no\ this\ thread\)\ ,\ T-- Drain\ connection$

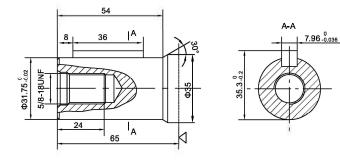


■ OTMH SHAFT VERSION

P1: Φ 32Cylindrical shaft, parallel key10 \times 8 \times 45

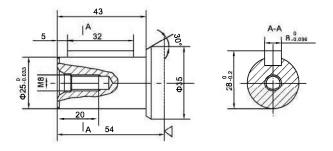
P2: Φ 31.75Cylindrical shaft, parallel key7.96 \times 7.96 \times 36

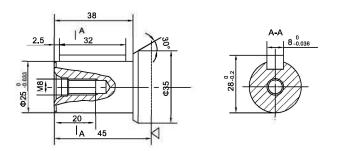




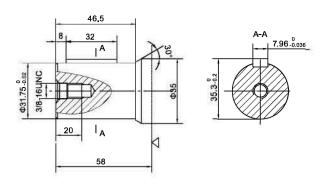
P3: Φ 25Cylindrical shaft, parallel key8 \times 7 \times 32

P4: Φ 25Cylindrical shaft, parallel key8 \times 7 \times 32





P5: Φ 31.75 Cylindrical shaft, parallel key7.96 × 7.96 × 32

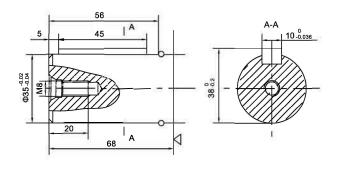


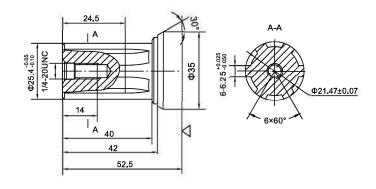


■ OTMH SHAFT VERSION

P7: Φ 35Cylindrical shaft, parallel key10 × 8 × 45

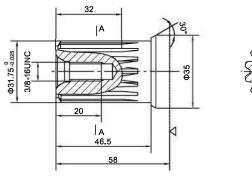
H3: Φ 25.4 Splined shaft, 6-25.4 × 21.47 × 6.25



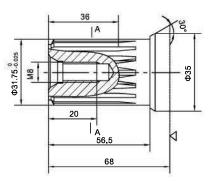


K1: Φ31.75 involve splined shaft 14–DP12/24 a=30°

K2: Φ31.75 involve splined shaft 14-DP12/24 a=30°

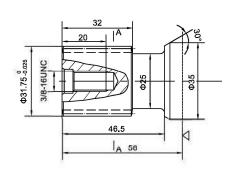








K11: Φ31.75 involute splined shaft 14–DP12/24 a=30°



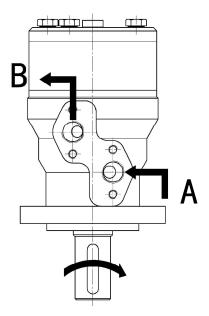




■ OTMH Series Motor

Direction of shaft ration: Standard

When facing shaft end of motor, shaft to rotate: Clockwise when port "A" is pressurized. Counter-clockwise port "B" is pressurized.





■ OTMH ORDERING CODE

7.0	1		2	3	4	5	int and	6		7	
	ОТМН	_					/		_		

Pos.1	2		3		4			
Series	Disp		Output	Flange				
		P1	Φ 32 Cylindrical shaft, parallel key10 \times 8 \times 45					
		P2	Φ 31.75 Cylindrical shaft, parallel key7.96 × 7.96 × 36					
	200	РЗ	Φ 25 Cylindrical shaft, parallel key8 \times 7 \times 32					
	250	P4	Φ 25 Cylindrical shaft, parallel key8 \times 7 \times 32					
		P5	Φ31.75 Cylindrical shaft, parallel key7.96 × 7.96 × 32					
отмн	315	P6	Φ 32 Cylindrical shaft, parallel key10 \times 8 \times 45		6-Φ13.5 Oval flange, pilotΦ82.5×6			
		P7 Φ35 Cylindrical shaft, parallel key10 × 8 × 45						
	400	НЗ	Φ 25.4 Splined shaft, 6–25.4 × 21.47 × 6.25					
	500	K1	Φ31.75 involute splined shaft, 14-DP12/24 a=30°					
		K2	Φ31.75 involute splined shaft, 14-DP12/24 a=30°					
		K11	Φ31.75 involute splined shaft, 14-DP12/24 a=30°					



	5			6	7		
	Por		Sp	ecial features	Rotation		
Code	Ports(A,B)(deep)	Drain port T(deep)			direction		
Y	G1/2(15)	G1/4(12)					
Y5	7/8–14UNF(15)	7/16–20UNF(12)	Omit	Standard	Omit	Standard	
Y8	NPTF1/2(15)	7/16–20UNF(12)			L	Opposite	
Y25	7/8–14UNF(15)	7/16–20UNF(12)					



■ INTRODUCTION



This series of motor are small volume, economical type, which is designed with Spool Valve, which adapt the gerotor gear set design and provide compact volume, high power and low weight.

■ CHARACTERISTICS

- 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 in series.
- 3 Advanced construction design, high power and low weight.

■ OTMP TECHNICAL DATA

ТҮРЕ		OTMP 50	OTMP 80	ОТМР 100	OTMP 125	OTMP 160	OTMP 200	OTMP 250	OTMP 315	OTMP 400
Displacement(ml/r)		52.9	79.3	98.2	120.9	158.7	196.4	241.8	317.3	392.9
	cont.	14	14	14	14	14	14	12	10	8
Max.Pressure.Drop (Mpa)	int.	17.5	17.5	17.5	17.5	17.5	17.5	14	12	10
	peak.	22	22	22	22	22	22	20	15	13
	cont.	97	148	183	229	295	364	369	404	416
Max.torque (N.m)	int.	125	189	238	292	382	470	444	501	531
	peak.	149	222	276	340	445	532	568	555	596
Max.Speed(cont.)(r/	min)	755	750	610	490	375	305	245	185	150
Max.Flow(cont.)(L/min)		40	60	60	60	60	60	60	60	60
Max.Output.Power(cont.)(Kw)		6.5	10	10	10	10	10	8	7	5.7
Weight (kg)		5.6	5.7	5.9	6	6.2	6.4	6.6	6.9	7.4

Intermittent operation the permissible values may occur for max. 10% of every minute

Peak load: the permissible values may occur for max. 1% of every minute



■ OTMP PERFORMANCE DATA

OTMP 50(52.9ml/r)

		Pressu	ire (Mp	a)		Max.cont.			Max.int.
		3	6	8	10	12.5	14	16	17.5
34	_	_							
	8	18	38	55	69	87	100	115	
	L	148	140	123	102	83	61	42	
	15	19	39	56	70	87	102	116	128
	15	277	264	251	242	233	219	202	188
<u> </u>	20	19	39	54	69	89	100	115	127
Flow(L/min)	20	370	359	348	337	328	320	301	282
٧(٦	20	18	38	53	68	88	98	114	126
<u>6</u>	30	556	541	529	516	509	500	487	461
_	25	17	37	52	67	86	97	113	125
	35	649	629	619	608	601	595	578	559
ľ	40	16	36	50	66	85	96	111	123
	40	741	725	718	710	695	688	673	627
	E0.	13	31	47	59	81	94	104	115
Max.cont.	50	927	919	910	900	888	874	856	837
May int	60	9	25	42	50	76	90	98	106
Max.int.	60	1122	1101	1094	1082	1075	1064	1042	1011
10)									

OTMP 80(79.3ml/r)

		Press	ure (r	ира)		Max.cont.			Max int.
		3	6	8	10	12.5	14	16	17.5
5	$\overline{}$	00	00	04	400	400	440	470	_
	8	33	60	81	103	133	148	172	
ě		99	91	79	67	56	42	32	
1	15	36	61	82	104	133	149	173	192
	التا	185	172	163	152	134	125	117	94
1	20	34	62	83	105	134	150	174	192
Ē	20	247	238	230	220	205	197	189	172
٤	30	33	60	82	104	133	149	172	190
×		370	363	355	342	327	316	302	285
Flow(L/min)	35	32	59	80	102	131	148	170	189
_	33	433	417	406	398	390	384	367	365
1	40	30	57	78	101	129	147	169	188
	40	494	484	478	471	461	453	443	411
	50	29	56	77	100	128	145	168	186
- 5	30	617	604	597	590	578	571	558	519
Max.cont.	60	28	55	76	99	127	144	167	184
Max.com.	60	741	726	718	710	700	686	673	624
Max.int.	75	22	48	71	93	120	134	160	175
iviaiII.	75	926	906	896	887	867	857	838	779

OTMP 100(98.2ml/r)

				•					
		Press	ure (I	Mpa)			Max.con	t.	Max.int.
		3	6	8	10	12.5	14	16	17.5
- 1		37	73	98	128	164	186		
	8	80	68	59	50	163	33		
	15	38	74	99	129	165	187	218	240
13	150	139	129	117	102	96	87	69	
	20	39	75	100	130	166	188	219	241
ᇎᅵ	20	200	189	180	171	159	150	136	119
How(L/min) 35	37	73	98	127	163	185	216	239	
	299	286	279	270	259	250	234	219	
<u> </u>	35	36	71	97	126	161	183	214	238
ш	35	349	338	333	329	318	309	299	281
	40	35	70	96	124	160	182	213	236
	40	399	391	387	383	375	370	363	338
	50	34	69	95	123	159	181	211	235
	30	499	489	484	479	468	463	453	423
.cont.	60	33	68	94	122	158	180	210	233
.corit.	00	599	587	580	574	562	556	544	507
int	75	27	61	86	111	149	168	198	202
x.int. 75	748	733	726	718	703	695	680	634	

OTMP 125(120.9ml/r)

OTMP 200(196.4ml/r)

Pressure (Mpa)

Pressure (Mpa)

Max.cont.

Max.int.

Cont.

Int.

Max.cont.

	Press	sure (wpa)			Max.con	Max int	
	3	6	8	10	12.5	14	16	17.5
8	44	90	123	158	205	231		
	65	61	51	44	36	30		
15	45	91	124	159	206	232	265	294
13	122	118	112	105	99	91	79	61
20	46	90	125	160	206	233	266	295
20	165	152	143	133	126	112	106	98
30	45	88	123	158	204	230	264	293
30	243	238	236	231	224	217	206	191
35	43	86	121	156	202	229	263	292
33	284	278	275	272	266	263	258	240
40	42	85	120	154	200	226	262	290
40	342	323	314	311	304	301	294	274
50	41	84	118	152	197	223	261	288
30	405	397	393	389	380	376	368	343
60	40	83	116	150	195	221	259	286
. [60]	486	476	470	465	465	452	441	412
75	31	78	107	139	187	211	241	272
75	608	596	589	583	571	564	552	515

OTMP 160(158.7ml/r) Pressure (Mpa)

Max.ir

			E E	150			max.con	ı.	max.int.	
		3	6	8	10	12.5	14	16	17.5	
	8	57	117	160	206	261			F	
	°	49	46	41	34	29	£5 }			
		58	118	161	207	262	298	349	385	
	15	93	84	79	72	64	58	50	41	
	20	59	119	162	208	263	299	350	386	
<u>=</u>	20	123	118	115	111	104	99	93	82	
Œ	30	58	117	160	205	261	298	348	384	
₹	30	185	181	177	173	168	165	159	148	
Flow(L/min)	35	57	115	159	203	260	295	346	382	
ш.	33	216	211	209	207	202	200	196	183	
	40	55	114	156	201	259	293	344	380	

=	امدا	5/	115	159	203	260	295	346	382
-	35	216	211	209	207	202	200	196	183
	40	55	114	156	201	259	293	344	380
	40	247	241	238	236	231	228	220	207
		53	111	154	199	258	292	342	378
	50	309	302	299	296	289	286	280	261
ont.	60	52	109	152	197	256	290	340	376
Ont.	В	370	363	359	355	348	344	336	314
nt.		43	101	143	190	249	282	322	358
nt.	75	463	453	448	444	430	420	410	383
-				1					

(Torque): 143Nm (Speed): 448r/min

	3	6	8	10	12.5	14	16	17.5
$\overline{}$	1 00	140	100	-				
8	69	140	193	248				
Ľ.	40	33	29	25		ė.		
15	70	141	194	249	324	366	428	
	75	70	64	58	50	41	32	
30	71	142	195	250	325	367	428	472
20	100	92	83	75	69	58	52	47
20	70	141	193	248	323	366	426	471
30	150	140	136	129	120	112	101	93
75	69	140	191	247	321	364	425	470
35	175	170	164	160	154	148	140	129
40	67	138	190	246	320	362	423	468
40	199	194	191	188	183	179	171	159
	66	136	189	244	318	361	422	466
50	249	244	241	239	234	230	226	211
	65	135	187	243	316	359	420	465
60	299	293	290	287	281	278	255	238
	58	127	179	234	308	348	408	456
75	374	366	362	358	351	347	339	317

Max.int.

Max.cont.



■ OTMP PERFORMANCE DATA

OTMP 250(241.8ml/r) Pressure (Mpa)

						Max.cont	Max int
		3	6	8	10	12	14
		86	172	234			1
	8	32	30	26			
	15	87	173	235	297	368	443
	15	61	59	54	49	40	33
	20	88	174	236	298	369	444
<u>=</u>	20	81	78	73	68	62	56
Flow(L/min)	30	86	173	235	297	368	443
N(30	123	120	118	116	112	103
윤	35	85	171	234	296	366	442
_	33	142	138	132	125	117	108
	40	83	169	232	294	364	440
	40	162	159	154	150	144	135
	50	82	167	230	293	362	438
	50	203	198	195	193	191	186
Max.cont.	60	81	166	228	292	360	437
viax.com.	00	243	238	236	233	230	221
Max.int.	75	74	153	212	281	349	423
IVIQA-IIIL	13	304	297	294	291	288	277

OTMP 400(392.9ml/r) Pressure (Mpa)

						Max.cont.	Max.int.
		3	4	5	7	8	10
		155	204			Î	
	8	20	18				
7	15	156	205	262	366	428	544
	L 15	37	34	31	27	24	19
	20	157	208	264	368	434	549
Ē	_20_	50	47	44	39	37	32
Flow(L/min)	30	152	204	258	362	424	540
× –	30	75	72	69	66	64	60
은	35	148	198	252	356	416	531
	35	87	84	81	77	74	69
1	40	142	193	246	348	406	523
	40	100	97	94	90	88	84
	50	136	186	238	341	398	515
	50	125	122	120	117	115	111
Max.cont.	60	131	180	231	333	390	506
viax.com.	_ 00	150	148	146	142	140	137
Max int.	75	123	168	215	312	371	492
IVICA,IIIC	_′3	187	183	179	172	169	162

(Torque): 312Nm (Speed): 172r/min

OTMP 315(317.3ml/r) Pressure (Mpa)

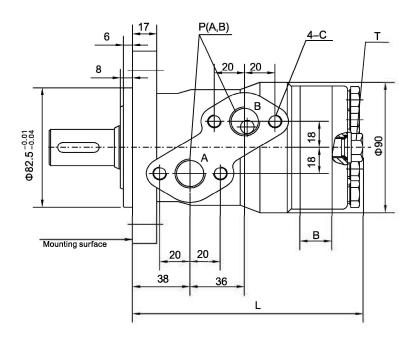
						Max.cont	Max int.
		3	5	7	9	10	12
	$\overline{}$	114	191	270	E //		
	8	25	22	19			
		115	192	271	355	403	500
	15	46	42	38	34	29	21
3	20	116	193	272	356	404	501
<u>:</u>	20	62	59	55	51	45	40
Flow(L/min)	30	114	191	270	354	403	499
× ×		93	90	86	80	76	65
은	35	112	189	268	352	400	497
	55	108	105	103	101	100	95
Ī	40	110	187	266	350	398	495
	40	123	121	119	116	114	109
	50	108	184	264	348	396	493
	50	154	151	148	144	142	137
Max.cont.	60	106	182	262	346	394	491
wax.com.		185	181	179	176	174	171
Max₌int.	75	100	175	156	339	387	482
THE ABILITY	,,,	231	226	222	219	215	209

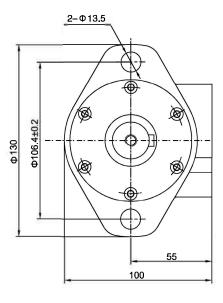
Cont.



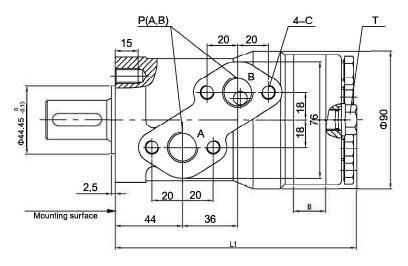
OTMP Installation

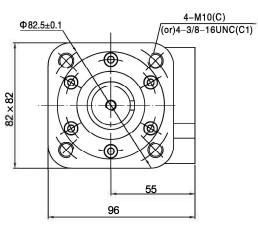
2-hole oval flange A ${\rm I\hspace{-.1em}I}$





Square flange C,C1





Note: C、C1 mounting are assembling to OTMPH shaft.

TYPE	OTMP-50	OTMP-80	OTMP-100	OTMP-125	OTMP-160	OTMP-200	OTMP-250	OTMP-315	OTMP-400
L	143.5	145	147	150	155	160	166	176	186
L1	151.5	153	155	158	163	168	174	184	194
В	7	11	13	16	21	26	32	42	52



■ OTMP PORTS CODE

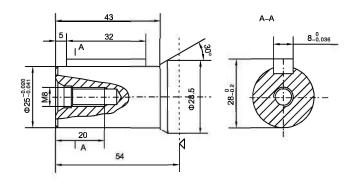
Ports Code	P(A、B)(deep)	C (deep)	T(deep)	
Υ	G1/2 (15)	M8 (10)	M14 × 1.5 (12)	
Y1	M18×1.5 (15)	M8 (10)	M14 × 1.5 (12)	
Y2	M22 × 1.5 (15)	M8 (10)	M14 × 1.5 (12)	
Y4	ZG3/8 (15)	M8 (10)	M14 × 1.5 (12)	
Y 5	7/8-14UNF (15)	2	M14 × 1.5 (12)	
Y7	ZG1/2 (15)	M8 (10)	M14 × 1.5 (12)	
Y8	NPT1/2 (15)	M8 (10)	M14 × 1.5 (12)	
Y 9	NPTF1/2 (15)	5/16-18 UNC(10)	7/16 - 20UNF(12)	
Y10	G1/2 (15)	M8 (10)	G1/4 (12)	
Y15	7/8-14UNF (15)	5/16-18UNC (10)	7/16–20UNF (12)	

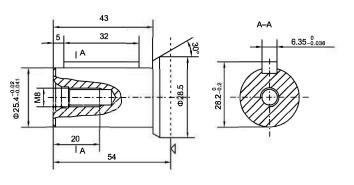
Note:P(A、B)--Ports, C--Mounting Thread (-Indicates no this thread) , T--Drain connettion

■ OTMP SHAFT VERSION

P1: Φ 25 Cylindrical shaft, parallel key8 \times 7 \times 32

P3: Φ 25.4 Cylindrical shaft, parallel key6.35 × 6.35 × 32



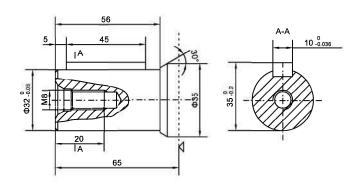


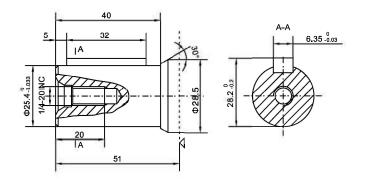


■ OTMP SHAFT VERSION

P5: Φ 32 Cylindrical shaft, parallel key $10 \times 8 \times 45$

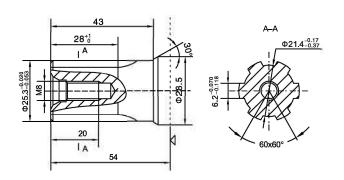
P33: Φ 25.4 Cylindrical shaft, parallel key6.35 × 6.35 × 32

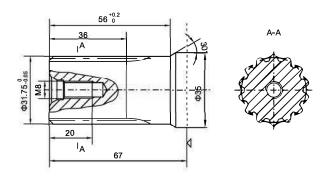




H3: Φ 25.3Splined shaft, $6-25.3 \times 21.4 \times 6.2$

K13: Φ31.75 involute splined shaft 14–DP12/24 a=30°

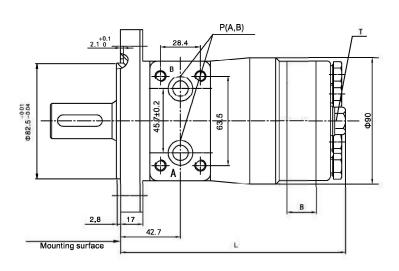


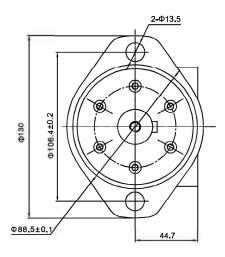




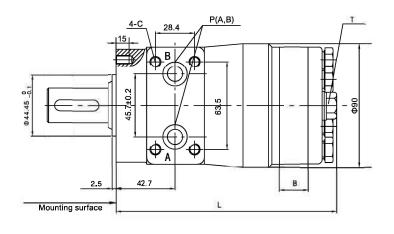
■ OTMPH Installation

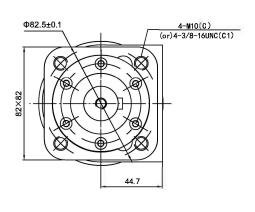
2-hole oval flange A ${\rm I\hspace{-.1em}I}$





Square flange C,C1





TYPE	ОТМРН-50	OTMPH-80	ОТМРН-100	ОТМРН- 125	OTMPH-160	OTMPH-200	OTMPH-250	OTMPH- 315	ОТМРН- 400
L	151.5	153	155	158	163	168	174	184	194
В	7	11	13	16	21	26	32	42	52



■ OTMPH PORTS CODE

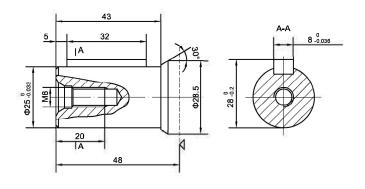
Ports Code	P(A、B)(deep)	C (deep)	T (deep)		
Υ	G1/2 (15)	-	M14 × 1.5(12)		
Y5	7/8-14UNF(15)	-	7/16-20UNF(12)		
Y7	ZG1/2(15)	9 — 1	G1/4(12)		
Y9	NPTF1/2(15)	-	7/16-20UNF(12)		
Y10	G1/2(15)	30	G1/4(12)		
Y17	3/4-16UNF(15)	()	7/16-20UNF(12)		
Y19	Ф11(15)	5/16-18UNC(13)	7/16-20UNF(12)		
Y20	M18 × 1.5(15)	M8 (13)	G1/4(12)		

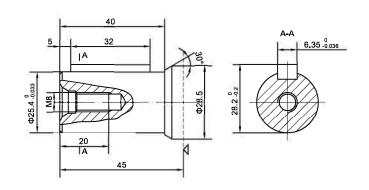
P(A、B)--Ports, C--Mounting Thread (-Indicates no this thread) , T--Drain connettion

■ OTMPH SHAFT VERSION

P1: Φ 25 Cylindrical shaft, parallel key8 \times 7 \times 32

P3: $\Phi\,25.4$ Cylindrical shaft, parallel key6.35 $\times\,6.35\times32$



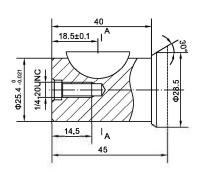


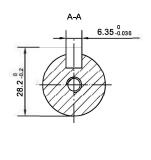


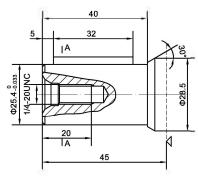
■ OTMPH SHAFT VERSION

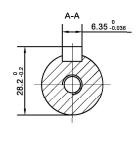
P4: Φ 25.4 Cylindrical shaft, Woodruff key Φ 25.4 × 6.35

P33: Φ 25.4 Cylindrical shaft, parallel key6.35 × 6.35 × 32

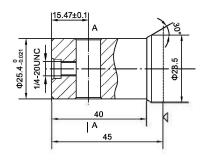


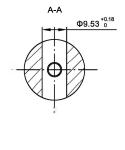




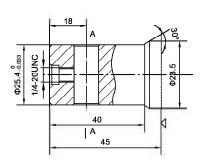


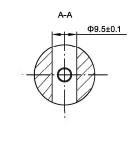
P89: Φ25.4Cylindrical shaft pin hole Φ9.53





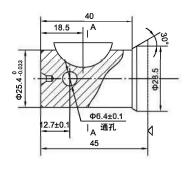
P93: Φ 25.4Cylindrical shaft pin hole Φ 9.5

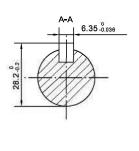


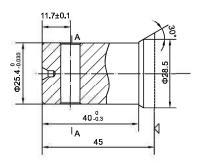


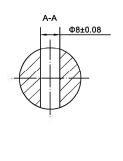
P95: Φ 25.4Cylindrical shaft pin hole Φ 6.4, Woodruff $key \Phi 25.4 \times 6.35$

P96: Φ 25.4Cylindrical shaft pin hole Φ 8







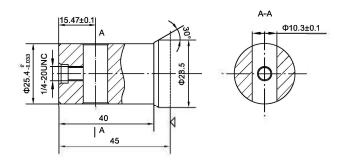


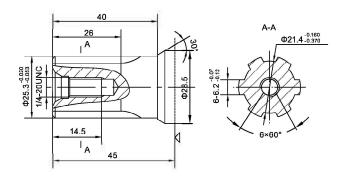


■ OTMPH SHAFT VERSION

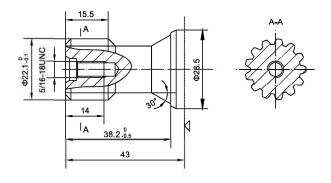
P97: Φ 25.4Cylindrical shaft pin hole Φ 10.3

H4: Φ 25.3 Splined shaft, 6–25.3 × 21.4 × 6.2





K8: Φ22.1 involve splined shaft 13-DP16/32



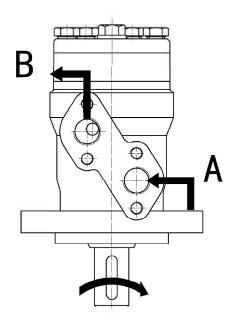


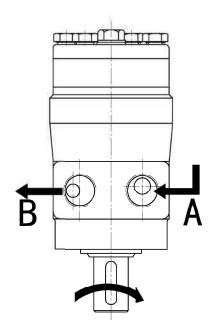
OTMP, OTMPH Series Motor

■ OTMP、OTMPH Series Motor

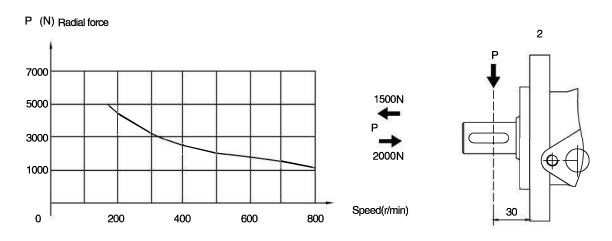
Direction of shaft ration: Standard

When facing shaft end of motor, shaft to rotate: Clockwise when port "A" is pressurized. Counter-clockwise port "B" is pressurized.





■ PERMISSIBLE SHAFT LOADS





OTMP, OTMPH ORDERING CODE

■ OTMP OTMPH ORDERING CODE

1		2	3	4	5	6	7
ОТМР	_					/	

Pos.1	2		3		4	
Series	Disp		Output	Flange		
	50	P1	Φ25 Cylindrical shaft, parallel key8 × 7 × 32			
	80	P3	Φ25.4 Cylindrical shaft, parallel key6.35 × 6.35 × 32	ΑII	2-Φ13.5 Oval flange, pilotΦ82.5×8	
	100	P5	Φ32 Cylindrical shaft, parallel key10×8×45			
OTMP	160	P33	Φ25.4 Cylindrical shaft, parallel key6.35 × 6.35 × 32	С	4-M10 Square flange, pilotΦ44.45 × 2.5	
	200	НЗ	Φ25.3 Splined shaft,6-25.3 × 21.4 × 6.2			
	315	H33	Φ25.3 Splined shaft, 6-25.3 × 21.4 × 6.2	C1	4–3/8–16UNC Square flange, pilotΦ44.45 × 2.5	
	400	K13	Φ31.75 involute splined shaft,14-DP12/24 a=30°			

	5			6	7		
1	Ports				Rotation		
Code	Ports(A,B)(deep)	Drain port T(deep)	Sp	ecial features	direction		
Υ	G1/2(15)	M14 × 1.5(12)					
Y1	M18 × 1.5(15)	M14 × 1.5(12)					
Y2	M22 × 1.5(15)	M14 × 1.5(12)	Omit	Standard	Omit	Standard	
Y4	ZG3/8(15)	M14 × 1.5(12)					
Y5	7/8-14UNF(15)	M14 × 1.5(12)	T7	With dustproof ring	L	Opposite	
Y7	ZG1/2(15)	M14 × 1.5(12)	4				
Y8	NPT1/2(15)	M14 × 1.5(12)		VACULA Initialization and a second			
Y9	NPTF1/2(15)	7/16-20UNF(12)	T10	With high pressure seals			
Y10	G1/2(15)	G1/4(12)					
Y15	7/8-14UNF(15)	7/16-20UNF(12)					

Note: C, C1 mounting are assembling to OTMPH shaft.



OTMP、OTMPH ORDERING CODE

■ OTMP, OTMPH ORDERING CODE

1		2	. 3	4	5	6	7
ОТМРН	_					/	

Pos.1	2		3		4			
Series	Disp				Flange			
	50	P1	Φ25 Cylindrical shaft, parallel key8×7×32					
	80	P3	Φ25.4 Cylindrical shaft, parallel key6.35 × 6.35 × 32	ΑII	2-Φ13.5 Oval flange, pilotΦ82.5 × 2.8			
	400	P4	Φ25.4 Cylindrical shaft, Woodruff key Φ25.4 × 6.35					
	100	P33	Φ25.4 Cylindrical shaft, parallel key6.35 × 6.35 × 32					
	125	P89	Φ25.4 Cylindrical shaft pin hole Φ9.53					
	160	P93	Φ25.4 Cylindrical shaft pin hole Φ9.5	С	4-M10 Square flange, pilotΦ44.45×2.8			
ОТМРН	200	P95	Φ25.4 Cylindrical shaft pin hole Φ6.4, Woodruff key Φ25.4 \times 6.35					
	250	P96	Φ25.4 Cylindrical shaft pin hole Φ8					
	250	P97	Φ25.4 Cylindrical shaft pin hole Φ10.3					
	315	H4	Φ25.3 Splined shaft, 6-25.3 × 21.4 × 6.2	C1	4-3/8-16UNC Square flange, pilot Φ44.45 × 2.8			
	400	K8	Φ22.1 involute splined shaft, 13-DP16/32					

	5			6		7
	Ports				Bo	otation
Code	Ports(A,B)(deep)	Drain port T(deep)	Special features		direction	
Y	G1/2(15)	M14 × 1.5(12)				
Y5	7/8-14UNF(15)	7/16–20UNF(12)				
Y7	ZG1/2(15)	G1/4(12)				
Y9	NPTF1/2(15)	7/16–20UNF(12)	Omit	Standard	Omit	Standard
Y10	G1/2(15)	G1/4(12)	T21	No case drain	L	Opposite
Y17	3/4-16UNF(15)	7/16–20UNF(12)				
Y19	Ф11(15)	7/16–20UNF(12)				
Y20	M18 × 1.5(15)	G1/4(12)				



■ OTH INTRODUCTION



This seriees of motor, with its shell made of ductile cast iron of adequate intenty, can be applied to situations with less load and interval operation, widely to agriculture, forestry, plastics, machine tools and minmachines etc.

■ OTH CHARACTERISTICS

- 1. With the axial oil distribution structur, it is of smaller, high efficiency and long life.
- 2, shaft seal can bear high pressure of motor of which can be used in parallel or in series.

OTH TECHNICAL DATA

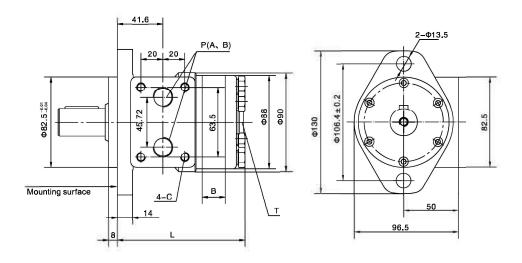
ТҮРЕ		ОТН-50	ОТН-80	OTH-100	OTH-125	OTH-160	OTH-200	OTH-250	OTH-315	OTH-400
Displacement(ml/r)		49.3	76.6	95.8	120.4	153.2	191.6	240.8	306.5	383.1
Max.Pressure.Drop	cont.	10.5	10.5	10.5	10.5	10.5	10.5	9	7	7
(Mpa)	int.	14	14	14	14	14	14	11.5	10.5	9
	peak.	18	18	18	18	18	18	15	14	11
Max.torque	cont.	65	105	130	160	205	255	275	305	335
(N.m)	int.	90	140	175	220	280	350	360	410	429
	peak.	115	180	225	285	365	455	475	560	550
Max.Speed (cont.)(r/min)		810	520	415	330	260	205	165	125	100
Max.Flow(L/min)		40	40	40	40	40	40	40	40	40
Max.Output.Power(co	nt.)(Kw)	4.5	4.8	4.8	4.8	4.8	4.6	4	3.5	3

Intermittent operation the permissible values may occur for max. 10% of every minute

Peak load: the permissible values may occur for max. 1% of every minute



■ OTH INSTALLATION



TYPE	OTH-50	OTH-80	OTH-100	OTH-125	OTH-160	OTH-200	OTH-250	OTH-315	TH-400
L	107	112	115.5	120	126	133	142	154	168
В	9	14	17.5	22	28	35	44	56	70

■ OTHPORTS CODE

Ports Code	P(A, B) (deep)	C (deep)	T (deep)
Υ	G1/2 (15)	M8 (13)	M14x1.5 (12)
Y1	M18x1.5 (15)	M8 (13)	M14x1.5 (12)
Y2	M22x1.5 (15)	M8 (13)	M14x1.5 (12)
Y9	NPTF1/2 (15)	5/16-18UNC (13)	7/16-20UNF (12)
Y10	G1/2 (15)	M8 (13)	G1/4 (12)
Y15	7/8-14UNF (15)	5/16-18UNC (13)	7/16-20UNF (12)

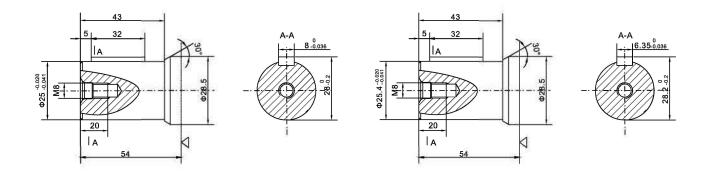
 $Note: P(A,\ B) -- Ports,\ C-- Mounting\ Thread\ \ (\ -- Indicates\ no\ this\ thread\)\ ,\ T-- Drain\ connection$



■ OTH SHAFT VERSION

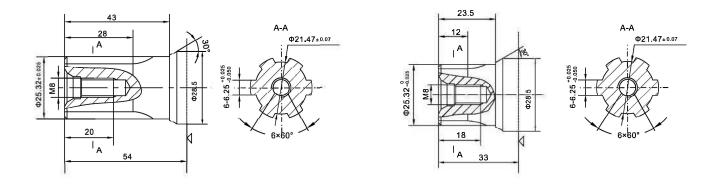
P1: Φ25 Cylindrical shaft,parallel key 8x7x32

P3: Φ25.4 Cylindrical shaft,parallel key 6.35x6.35x32



H3: Φ 25.3 Splined shaft, 6-25.32x21.47x6.25

H5: Φ 25.3 Splined shaft, 6-25.32x21.47x6.25





■ OTH ORDERING CODE

	1		2	3	4	5	6	7
ĺ	отн	_					/	

Pos.1	2		3		4			
Series	Disp		Output Shaft	Flange				
	50 80	P1	Φ 25Cylindrical shaft, parallel key 8x7x32					
ОТН	100 125 160	P3	Φ 25.4 Cylindrical shaft, parallel key 6.35x6.35x32					
	200 250	НЗ	Ф25.3Splined shaft,6-25.32x21.47x6.25	ΑII	2-Φ13.5 Oval flange polit Φ82.5x8			
	315 400	H5	Ф25.3Splined shaft,6-25.32x21.47x6.25					

	5			6	7		
	Ports				Rotation		
Code	Ports(A,B)(deep)	Drain port T(deep)	Sp	Special features		direction	
Υ	G1/2 (15)	M14x1.5 (12)					
Y1	M18x1.5 (15)	M14x1.5 (12)					
Y2	M22x1.5 (15)	M14x1.5 (12)	Q	01	Q'I	01	
Y 9	NPTF1/2 (15)	7/16–20UNF (12)	Omit	Standard	Omit	Standard	
Y10	G1/2 (15)	G1/4 (12)			L		
Y15	7/8-14UNF (15)	7/16-20UNF (12)					



■ INTRODUCTION



OTMPH series motors is a compact, economical and spool valve type of hydraulic motor. Suitable for working conditions with small load and intermittent operation. Widely used in agriculture, forestry, plastics, machine tools and mining machinery. Such as in jection plastic machine's mold ad justment, sweeping car, sawmill and other work platforms.

CHARACTERISTICS

- 1. Due to the geroler type, it has low friction, high mechanical efficiency and long lifetime.
- 2. High shaft seal could be used in parallel and in series.
- 3. With two inside check valves, it needn't to connect the case drain.
- 4. Same performance with BMR series motor, similar size wilh BMP series motor.
- 5. The mounting flange and the front housing are separated, so it is easy to replace the flange.

■ OTMPH TECHNICAL DATA

ТҮРЕ		ОТМРН-50	OTMPH-80	ОТМРН-100	OTMPH-125	OTMPH-160	OTMPH-200	OTMPH-25	0 OTMPH-315	OTMPH-400
Displacement(ml/r)		49.3	76.6	95.8	120.4	153.2	191.6	240.8	306.5	383.1
	cont.	14	14	14	14	14	14	11	9	7
Max.Pressure.Drop (Mpa)	int.	17.5	17.5	17.5	17.5	17.5	17.5	14	11	9
	peak.	20	20	20	20	20	20	16	13	11
	cont.	90	140	175	220	280	350	350	360	350
Max.torque (N.m)	int.	115	175	220	275	355	440	445	445	455
	peak.	130	205	255	320	410	510	515	530	555
Max.Speed (cont.	peed (cont.)(r/min)		780	625	495	390	310	245	195	155
Max.Flow(L/min)		40	60	60	60	60	60	60	60	60
Max.Output.Power(co	ont.)(Kw)	6.4	9.5	9.5	9.5	9.5	9.5	7.4	6	4.8

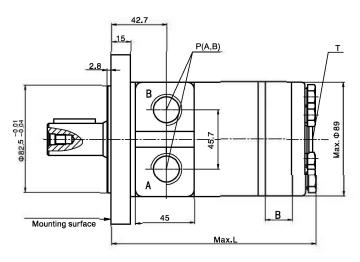
^{1.} Intermittent operation the permissible vavles may occur for max.10% of every minute Peak load: the permissible valves may occur for max.1% of every minute

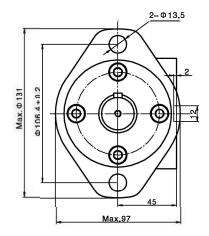
2. to use under max.speed & maxpressure at the same time is not recommended



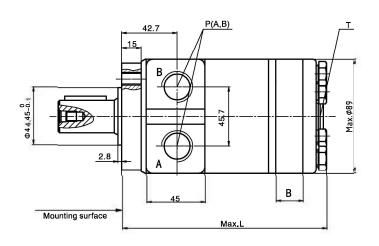
■ OTMPH Installation

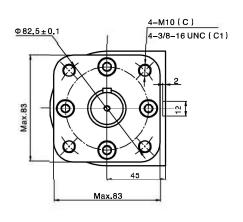
2-Ø13.5hole oval flange AII





Square flangeC,C1





TYPE	OTMPH-50	ОТМРН-80	OTMPH-100	OTMPH-125	ОТМРН-160	ОТМРН-200	OTMPH-250	OTMPH-315	ОТМРН-400
L	148	153	156.5	161	167	174	183	195	209
В	9	14	17.5	22	28	35	44	56	70



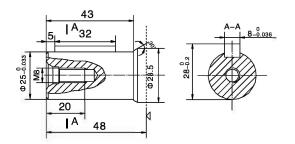
OTMPH Ports Code

Ports	P(A、B)(deep)	C (deep)	T (deep)
Υ	G1/2 (15)	-	M14 × 1.5 (12)
Y 7	ZG1/2 (15)	=	G1/4 (12)
Y9	NPTF1/2 (15)	=	7/16–20 UNF(12)
Y10	G1/2 (15)	=	G1/4 (12)
Y15	7/8–14UNF (15)	=	7/16–20 UNF(12)

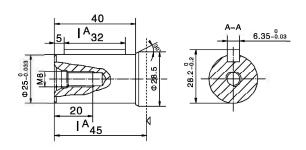
P(A, B)—Ports, C—Mounting Thread (—Indicates no this thread) , T—Drain connection

■ OTMPH SHAFT VERSION

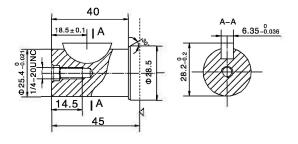
P1: Φ 25Cylindrical shaft,parallel key8 × 7 × 32



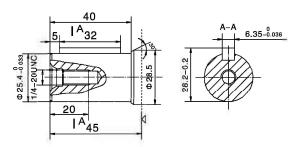
P3: Φ 25.4Cylindrical shaft, parallel key6.35 × 6.35 × 32



P4: Φ 25.4Cylindrical shaft, Woodruff key Φ 25.4 × 6.35



P33: Φ 25.4Cylindrical shaft,parallel key6.35 × 6.35 × 32

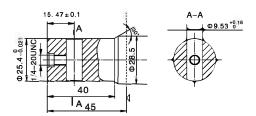


 $[\]triangleleft$: Motor mounting surface

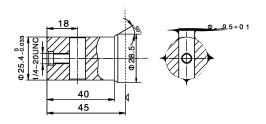


■ OTMPH SHAFT VERSION

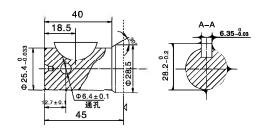
P89: Φ 25.4Cylindrical shaft pin hole Φ 9.53



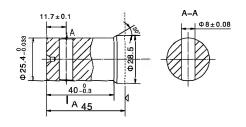
P93: Φ25.4Cylindrical shaft pin hole Φ9.5



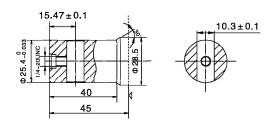
P95: Φ 25.4Cylindrical shaft pin hole Φ 6.4 Woodruff key Φ 25.4 \times 6.35



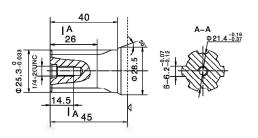
P96: Φ 25.4Cylindrical shaft pin hole Φ 8



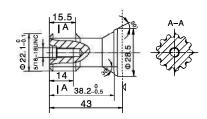
P97: Φ 25.4Cylindrical shaft pin hole Φ 10.3



H4: Φ 25.3Splined Shaft, 6-25.3×21.4×6.2



K8: Φ 22.1involveCylindrical shaft , 13-DP 16/32



 \lhd : Motor mounting surface



■ OTMPH

. 1		2	3	4	5		6		7
ОТМРН	_					1		_	

Pos.1	2		3		4		
Series	Disp		Output	Flange			
	50	P1	Φ25 Cylindrical shaft, parallel key8 × 7 × 32				
	80 P3		Φ25.4 Cylindrical shaft, parallel key6.35 × 6.35 × 32	ΑII	2-Φ13.5 Oval flange, pilotΦ82.5×6		
	100	P4	Φ 25.4 Cylindrical shaft,Woodruff key Φ 25.4 \times 6.35				
	100	P33	Φ25.4 Cylindrical shaft, parallel key6.35 × 6.35 × 32				
	125	P89	Φ25.4 Cylindrical shaft pin hole Φ9.53				
ОТМРН	160	P93	Φ25.4 Cylindrical shaft pin hole Φ9.5	С	4–M10 Square flange, pilot Φ44.45 × 2.8		
ОТМРН	200	P95	$Φ25.4$ Cylindrical shaftpin hole $Φ6.4$, Woodruff key $Φ25.4 \times 6.35$				
	250	P96	Φ25.4 Cylindrical shaft pin hole Φ8				
	250	P97	$Φ25.4$ Cylindrical shaft pin hole $Φ6.4$, Woodruff key $Φ25.4 \times 6.35$				
	315	H4	Φ25.3 Splined shaft, 6-25.3 × 21.4 × 6.2	C1	4–3/8–16UNC Square flange, pilot Φ44.45 × 2.8		
	400	K8 Φ22.1 involute splined shaft, 13–DP16/32					

	5			6		7	
Code	Ports	Dunin mank T(donn)	Sp	ecial features	Rotation direction		
0000	Ports(A,B)(deep)	Drain port T(deep)			dır	ection	
Y	G1/2(15)	M14 × 1.5(12)					
Y7	ZG1/2(15)	G1/4(12)	Omit	Standard	Omit	Standard	
Y 9	NPTF1/2(15)	7/16–20UNF(12)	T21	No case drain	L	Opposite	
Y10	G1/2(15)	G1/4(12)	T26	Flange face is vertical ports			
Y15	7/8–14UNF(15)	7/16–20UNF(12)					



INTRODUCTION

FEATURES AND APPLICATIONS



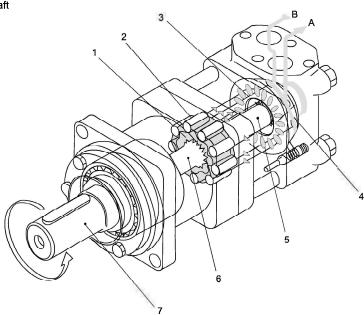
OTM hydraulic motor is one type of high torque low speed hydraulic motors, with high efficiency and long life. OTM motor has a wide Speed range, high starting torque and rotating stable at high speed Compact and light, it can be connected to working machine directly, adapted to all kinds of low speed heavy load facilities.

OTM hydraulic motors are widely applied in agriculture machinery, fishing machinery, plastic industry, mining, and construction machinery.

WORKING PRINCIPLE

1 orbit cam 2 roll 3 distributor 4 auxiliary plate

5 distributor shaft 6 transmission shaft 7 output shaft



Shown as the drawing, high pressure oil goes into the motor's housing through the inlet, passing the auxiliary plate, distributor, then the working space between the orbit cam and rolls. Pressed by the high pressure oil, orbit cam rotates from the high pressure side to the low pressure side. The orbit cam makes rotation and revolution against the rolls, at the same time, high pressure oil is distributed continuously, thus, the output shaft can also rotate continuously.

The output speed can be controlled by adjusting the inlet flow capability of the motor, and the rotating direction can be changed by exchanging the flow direction.



■ OTM3Y TECHNICAL DATA

ТҮРЕ		OTM3Y OTM3SY OTM3S3Y OTM3WY 80	OTM3Y OTM3SY OTM3S3Y OTM3WY 100	OTM3Y OTM3SY OTM3S3Y OTM3WY 125	OTM3Y OTM3SY OTM3S3Y OTM3WY 160	OTM3Y OTM3SY OTM3S3Y OTM3WY 200	OTM3Y OTM3SY OTM3S3Y OTM3WY 250	OTM3Y OTM3SY OTM3S3Y OTM3WY 315	OTM3Y OTM3SY OTM3S3Y OTM3WY 400	OTM3Y OTM3SY OTM3S3Y OTM3WY 500
Displacement(m	ıl/r)	80.5	100.5	126.3	160.8	200.9	252.6	321.5	401.9	476 <u>.</u> 5
	cont.	20.5	20.5	20.5	20.5	20.5	20	20	15.5	12
Max.Pressure. Drop (Mpa)	int.	27.5	27.5	27.5	26	25	25	24	19	14
	peak.	29.5	29.5	29.5	28	27	27	26	21	16
	cont.	226	282	355	451	564	684	870	813	728
Max.torque (N.m)	int.	293	365	459	559	672	845	1032	1021	903
	peak.	306	383	481	588	708	891	1091	1141	1044
Max.Speed(co	nt.)(r/min)	805	745	590	465	370	295	230	185	155
Max.Flow(cont.)	(L/min)	65	75	75	75	75	75	75	75	75
Max.Output.Pov	ver(cont.)(Kw)	16	18	18	18	18	18	17	11	9
Weight (kg)		9.8	10.0	10.3	10.7	11.1	11.6	12.3	13.2	14.3

Intermittent operation the permissible values may occur for max. 10% of every minute

Peak load: the permissible values may occur for max. 1% of every minute



■ OTM3Y PERFORMANCE DATA

			80(80.5m ssure(Mp				Max.cont.	Max.int.
		3.5	7	10.5	14	17.5	20.5	22.5
		C 05	I	444	450	407	000	000
	15	35	75	114	150	187	220	239
		181	177	170	165	158	151	141
<u>.</u>	30	35	75	115	152	190	222	240
5	50	363	355	346	340	330	322	310
× -	40	33	75	115	155	193	226	240
Flow(L/min)		485	479	464	453	444	437	415
	50	30	73	113	153	190	223	237
		610	602	594	580	565	556	530
	60	28	70	110	150	188	220	235
	00	735	724	714	698	680	670	642
	65	27	68	108	148	186	215	233
Max.cont.	05	801	790	775	760	742	727	704
	80	23	66	104	140	176	205	213
Max.int.	00	988	975	955	938	915	897	870

		OT M3Y	100(100. essure(M				Mayraant	May lat
		3.5	7	10.5	14	17.5	Max.cont	Max int. 22.5
	15	44	94	142	187	233	275	298
	15	145	142	136	132	127	121	113
Ē	30	42	93	144	190	237	278	300
Flow(L/min)		291	284	277	272	264	258	248
×	40 50	41	92	144	194	241	282	300
Ê		388	384	372	363	356	350	332
_		37	91	141	191	237	278	296
		489	482	476	465	453	445	425
	60	35	87	137	187	235	273	293
	60	589	580	572	559	545	537	514
	75	34	85	135	185	232	268	291
Max.cont.	75	740	730	716	702	686	672	651
	00	29	82	130	175	222	258	266
Max.int.	90	890	879	861	845	825	808	784

		Max.com	t. Max.int.					
		3.5	essure(M 7	10.5	14	17.5	20.5	22.5
	_							
	15	54	117	179	235	293	348	375
	13	115	113	108	105	101	96	90
Ē	20	55	118	180	238	298	351	377
Ę	30	231	226	221	217	210	205	198
<u>></u>	40	54	120	180	243	303	355	377
Flow(L/min)		309	305	296	289	283	279	265
_	50	51	118	177	240	298	351	372
		389	384	379	370	360	354	338
		48	114	173	235	295	347	369
	60	468	461	455	445	433	427	409
	75	42	109	169	232	292	342	366
Max.cont.	/3	589	581	570	559	546	535	518
	00	38	103	163	220	279	327	334
Max.int.	90	708	699	685	673	656	643	624

(Torque) : 163Nm (Speed) : 685r/min

		Max.cont	. Max.int.					
		20.5	22.5					
	15	70 91	147 89	228 85	300 83	374 79	444 76	477 71
`	30	72 182	150 178	230 1 73	304 170	380 165	447 161	479 155
	40	74 243	151 240	230 232	310 227	386 222	451 219	479 208
	50	71 305	147 30 1	226 297	306 290	380 283	447 278	473 265
	60	68 368	143 362	220 357	300 349	376 340	442 335	469 321
	75	64 463	138 456	216 448	296 439	372 429	437 420	465 407
	90	60 556	133 549	208 538	280 528	352 515	416 505	425 490

Cont.



■ OTM3Y PERFORMANCE DATA

	OTM3Y 200(200.6ml/r) Pressure(Mpa) Max.cont. Max									
		20.5	22.5							
36							~			
	15	87	184	285	374	467	557	596		
	15	73	71	68	66	63	61	56		
<u>Ē</u>	20	89	187	287	379	474	560	599		
Flow(L/min)	30	145	142	139	136	132	129	124		
	40	92	187	287	387	482	564	599		
윤		194	192	186	182	178	175	166		
_	50	88	182	282	382	474	560	591		
	50	244	241	238	232	226	223	212		
	60	84	175	275	374	469	555	586		
	60	295	290	286	280	272	268	257		
	75	77	170	270	369	464	550	581		
Max.cont.	/5	370	365	358	351	343	336	325		
	90	68	165	260	349	434	510	532		
Max.int.	90	445	440	430	423	412	404	392		

		OT M3Y	250(252	.6ml/r)				
		Pre		Max.cont.	Max.int.			
		3.5	7	10.5	14	17.5	20	22.5
	T	114	234	358	469	584	377	742
	15	58	56	54	53	50	48	45
<u>:</u>	30	115	235	361	471	587	680	746
Flow(L/min)	30	116	113	110	108	105	103	100
N L	40	115	235	355	473	591	684	751
윤	40	155	153	148	144	141	139	136
	50	114	230	355	474	587	680	746
	50	194	192	189	185	180	175	169
	60	112	225	352	471	583	675	741
	60	234	231	228	224	219	214	208
	75	109	220	349	467	578	669	735
Max.cont.	/5	295	290	285	279	273	267	260
	00	103	213	343	460	568	654	715
Max.int.	90	354	350	342	334	326	320	310

	OTM3Y 315(321.5ml/r)									
	Pressure(Mpa) Max.cont. Max									
		17.5	20	22.5						
		140	284	433	583	745	863	947		
	15	45	44	43	41	40	38	35		
Ē		140	288	437	586	748	866	951		
Flow(L/min)	30	91	89	87	85	83	81	78		
× (40	138	290	440	588	752	870	956		
윤	40	121	120	116	113	111	109	106		
	50	136	291	439	587	748	866	951		
	30	153	151	149	145	141	139	136		
	60	134	286	435	583	744	862	947		
	00	184	181	179	175	170	166	160		
	75	131	280	431	580	738	856	939		
x.cont.	/°	231	228	224	220	214	210	204		
	90	125	272	421	570	718	826	899		
x.int.	90	278	275	269	264	258	253	243		

				,			
		Max.cont.	Max.int.				
		3.5	7	10.5	14	15.5	17.5
		470	0.47	500	705	000	000
	15	172	347	522	705	806	926
	.0	36	35	34	33	32	30
Flow(L/min)	30	174	350	526	708	809	930
5	30	73	71	69	68	66	64
Š	40	173	352	529	710	813	935
운	40	97	96	93	91	89	86
	50	171	350	531	710	809	930
	30	122	121	119	116	113	110
	60	168	343	522	705	801	924
		147	145	143	140	136	130
	75	164	339	517	700	791	916
ax.cont.	/3	185	183	179	176	171	163
	90	160	325	503	680	766	886
ax.int.	90	223	220	215	211	206	196

OTM3Y 400(401.9ml/r)

		Pre	Pressure(Mpa) Max.cont.							
		3.5	7	10.5	12	14				
		180	403	607	721	816				
	15	31	30	29	28	27				
Ē	20	183	407	613	724	824				
Flow(L/min)	30	61	60	58	57	56				
ľ,	40	185	409	617	728	832				
윤		82	81	78	77	75				
- 1	50	184	406	616	724	833				
	30	103	102	100	98	95				
	60	182	403	609	719	819				
	00	124	122	121	118	115				
	75	180	401	606	712	815				
Max.cont.	,3	156	154	151	148	145				
	90	173	391	601	702	803				
Max.int.	30	188	185	182	178	174				

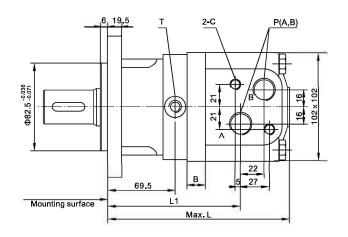
OTM3Y 500(476.5ml/r)

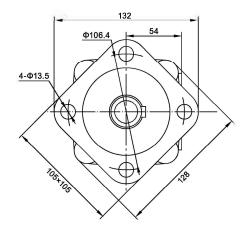
Con	L	
Int.		



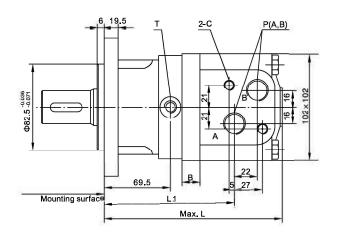
■ OTM3Y Installation

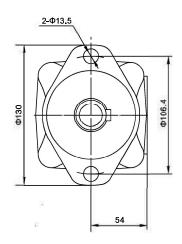
Square flange A



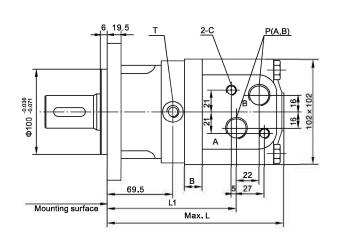


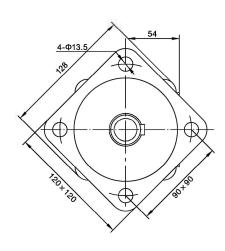
2-hole oval flange AII





Square flange A2III

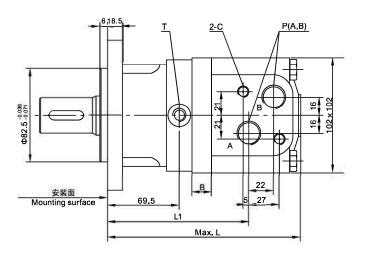


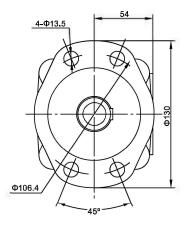




■ OTM3Y Installation

4-hole oval flange AIV





Туре	OTM3Y -80	OTM3Y-100	отмзу –125	отмзу –160	отмзу-200	отмзү–250	отмзу –315	отмзү–400	отмзү–500
L	170	173.5	178	184	191	200	212	226	239
L1	125.5	129	133.5	139.5	146.5	155.5	167.5	181.5	194.5
В	11	14.5	19	25	32	41	53	67	80



■ OTM3Y PORTS CODE

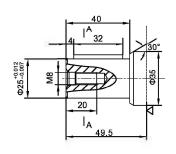
Ports Code	P(A、B)(deep)	C (deep)	T (deep)	
Υ	G1/2 (15)	M10 (12)	G1/4 (12)	
Y1	M18 × 1.5 (15)	M10 (12)	M14 × 1.5 (12)	
Y2	M22 × 1.5 (15)	M10 (12)	M14 × 1.5 (12)	
Y3	M20 × 1.5 (15)	M10 (12)	M14 × 1.5 (12)	
Y5	7/8-14UNF (15)	22 .3	7/16-20 UNF(12)	
Y8	NPT1/2 (15)	M10 (12)	G1/4 (12)	
Y10	G1/2 (15)	-	G1/4 (12)	

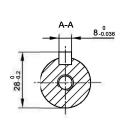
Note:P(A、B)--Ports, C--Mounting Thread (-Indicates no this thread), T--Drain connettion

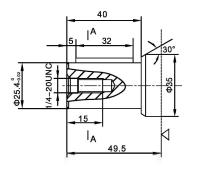
■ OTM3Y SHAFT VERSION

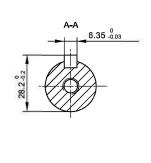
P1: Φ 25 Cylindrical shaft, parallel key8 \times 7 \times 32

P3: Φ 25.4 Cylindrical shaft, parallel key6.35 \times 6.35 \times 32



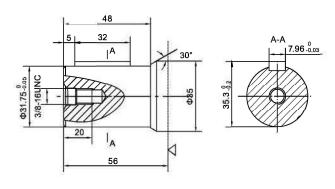


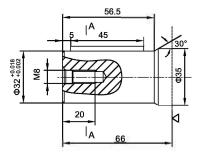


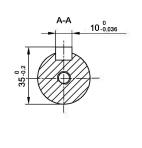


P5: Φ 31.75 Cylindrical shaft, parallel key7.96 \times 7.96 \times 32

P10: Φ 32 Cylindrical shaft, parallel key10 \times 8 \times 45







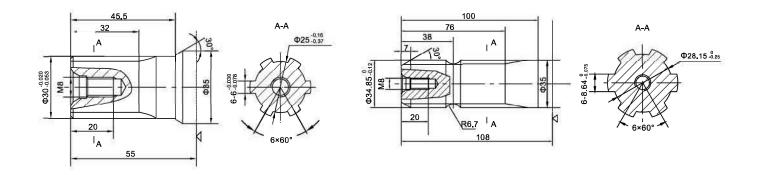
√-- Motor mounting surface



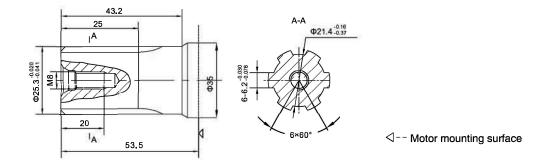
■OTM3Y SHAFT VERSION

H1: Φ 30 Splined shaft, $6-30 \times 25 \times 6$

H3: Φ 34.85 Splined shaft, $6-34.85 \times 28.15 \times 8.64$

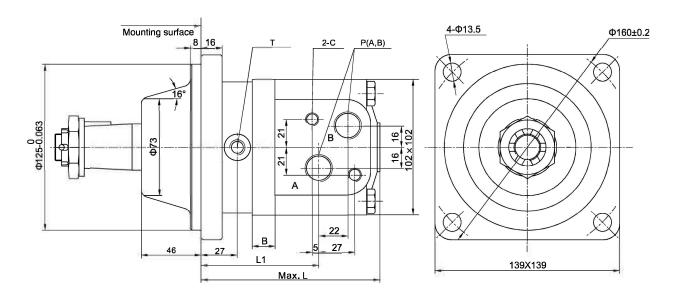


H51: Φ 25.3 Splined shaft, 6-25.3 × 21.4 × 6.2





■ OTM3WY Installation



Type	отмзwy	отмзwy	OTM3WY	отмзwy	отмзwy	ОТМЗЖҮ	ОТМЗЖҮ	ОТМЗЖҮ	отмзwy
Туре	80	100	125	160	200	250	315	400	500
L	127.5	131	135.5	141.5	148.5	157.5	169.5	183.5	196.5
L1	83	86.5	91	97	104	113	125	139	152
В	11	14.5	19	25	32	41	53	67	80

■ OTM3WY PORTS CODE

Ports	P(A、B)(deep)	C (deep)	T (deep)		
Υ	G1/2 (15)	M10 (12)	G1/4 (12)		
Y5	7/8-14UNF (15)		7/16–20UNF (12)		

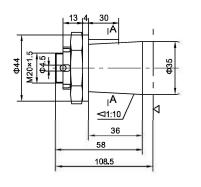
Note:P(A、B)--Ports, C--Mounting Thread (-Indicates no this thread) , T--Drain connettion

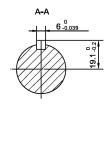


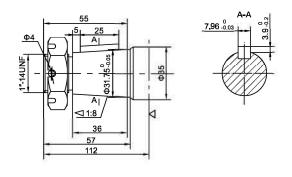
■ OTM3WY SHAFT VERSION

Z: Φ 35 Tapered shaft, taper1:10, parallel key $6 \times 6 \times 30$

Z2: Φ 31.75 Tapered shaft, taper1:8, parallel key $7.96 \times 7.96 \times 25$

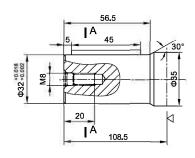


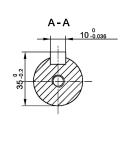


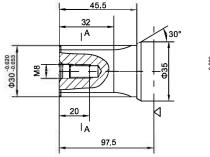


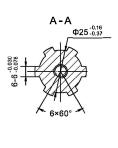
P10: Φ 32 Cylindrical shaft, parallel key10 \times 8 \times 45

H1: Φ 30 Splined shaft, $6-30 \times 25 \times 6$



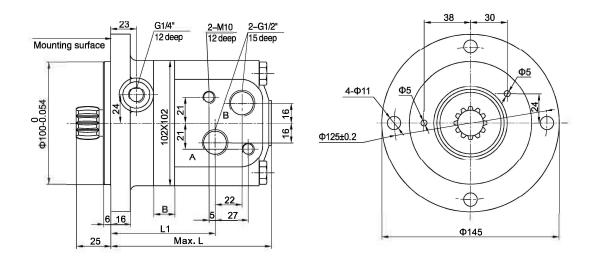






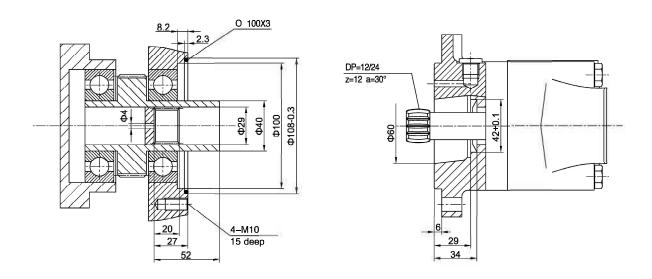


■ OTM3SY Installation



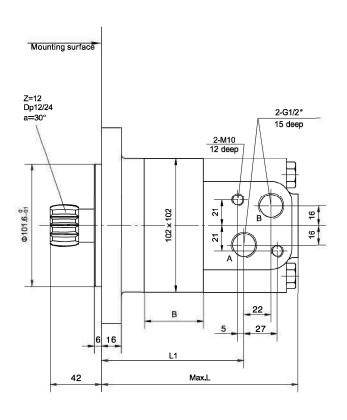
Туре	OTM3SY 80	OTM3SY 100	OTM3SY 125	OTM3SY 160	OTM3SY 200	OTM3SY 250	OTM3SY 315	OTM3SY 400	OTM3SY 500
L	124	127.5	132	138	145	154	166	180	193
L1	79.5	83	87.5	93.5	100.5	109.5	121.5	135.5	148.5
В	11	14.5	19	25	32	41	53	67	80

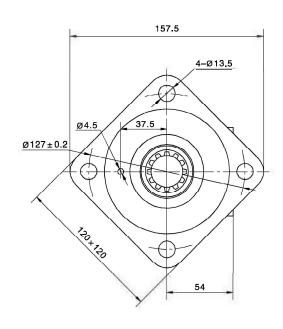
■ OTM3SY DIMENSIONS OF THE ATTACHED COMPONENT





■ OTM3S3Y Installation





Туре	OTM3S3Y 80	OTM3S3Y 100	OTM3S3Y 125	OTM3S3Y 160	OTM3S3Y 200	OTM3S3Y 250	OTM3S3Y 315	OTM3S3Y 400	OTM3S3Y 500
L	124	127.5	132	138	145	154	166	180	193
L1	79.5	83	87.5	93.5	100.5	109.5	121.5	135.5	148.5
В	11	14.5	19	25	32	41	53	67	80

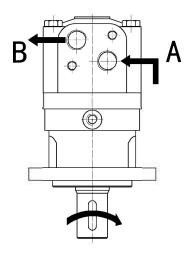


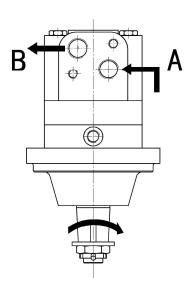
OTM3Y、OTM3WY、OTM3SY Series Motor

■ OTM3Y、OTM3WY、OTM3SY Series Motor

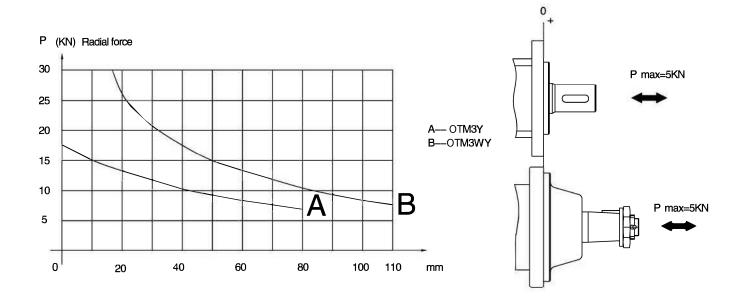
Direction of shaft ration: Standard

When facing shaft end of motor, shaft to rotate: Clockwise when port "A" is pressurized. Counter–clockwise port "B" is pressurized.





■ PERMISSIBLE SHAFT LOADS





OTM3Y、OTM3WY、OTM3SY Series Motor

■ OTM3Y ORDERING CODE

1		2	3	4	5	6	7
ОТМЗҮ	_					1	

Pos.1	2		3		4		
Series	Disp		Output	Flange			
	80	P1	P1 Φ25 Cylindrical shaft, parallel key8 × 7 × 32		4-φ13.5 Square flange, pilot Φ82.5		
	100	P3	Φ 25.4 Cylindrical shaft, parallel key6.35 \times 6.35 \times 32	i.			
	160	P5	Φ31.75 Cylindrical shaft, parallel key7.96 × 7.96 × 32	ΑII	2-Φ13.5 Oval flange, pilot Φ82.5		
ОТМЗҮ	200	P10	Φ 32 Cylindrical shaft, parallel key10 × 8 × 45	A2	4–Φ13.5 Square flange, pilotΦ100		
	250	H1	Φ 30 Splined shaft, 6–30 × 25 × 6	AIV	4– Φ13.5 Oval flange, pilot Φ82.5		
	400	НЗ	Φ34.85 Splined shaft, 6–34.85×28.15×8.64				
- Z	500	H51	Φ25.3 Splined shaft, 6–25.3 × 21.4 × 6.2				

	5			6	7		
	Ports	r.	0-	!-!	Rotation		
Code	Ports(A,B)(deep)	Drain port T(deep)	Sp	ecial features	direction		
Υ	G1/2(15)	G1/4(12)					
Y1	M18 × 1.5(15)	M14 × 1.5(12)					
Y2	M22 × 1.5(15)	M14 × 1.5(12)	Omit	Standard	Omit	Standard	
Y3	M20 × 1.5(15)	M14 × 1.5(12)		Clandard	L	Opposite	
Y5	7/8–14UNF(15)	7/16–20UNF(12)			_	Оррозпе	
Y8	NPT1/2(15)	G1/4(12)					
Y10	G1/2(15)	G1/4(12)					



OTM3Y、OTM3WY、OTM3SY Series Motor

■ OTM3WY、OTM3SY、OTM3S3Y ORDERING CODE

1		2	3	4	5		6		7
отмзwy	_					1		_	

Pos.1	2		3		4			
Series	Disp		Output	Flange				
	80 100	P10	Φ32 Cylindrical shaft, parallel key10 × 8 × 45					
OTM3WY	125 160 200 250 215	H1	Φ30 Splined shaft, 6-30 × 25 × 6					
		z	Φ35 Tapered shaft, taper1:10, parallel key6×6×30	Α	4-Φ13.5 Square flange, pilotΦ125			
93. (4	400 500		Φ31.75 Tapered shaft, taper1:8, parallel key7.96 × 7.96 × 25					

	5			6	7		
	ports	ų:		3	Rotation		
Code	Ports(A,B)(deep)	Drain port T(deep)	Special features		direction		
Y	G1/2(15)	M14 × 1.5(12)	Omit	Standard	Omit	Standard	
Y5	7/8–14UNF(15)	7/16–20UNF(12)				Opposite	

1		2	3
отмзwy	_		/

Pos.1	2	3				
Series	Disp	Special features				
ОТМЗЅҮ	80 100 125 200 250 315 400 500	Omit	Standard			

1		2		3
OTM3S3Y	_		/	

Pos.1	2	3					
Series	Disp	Special features					
	80						
	100	Omit	Standard				
	125						
OT14000	160						
ОТМЗЅЗ	^Y 200						
	250						
	315						
	400						
	500		2				



■ OTM4 TECHNICAL DATA

ТҮРЕ		OTM4-160 OTM4S-160 OTM4W-160	OTM4-200 OTM4S-200 OTM4W-200	OTM4-250 OTM4S-250 OTM4W-250	OTM4-320 OTM4S-320 OTM4W-320	OTM4-400 OTM4S-400 OTM4W-400	OTM4-500 OTM4S-500 OTM4W-500
Displacement(ml/r)		158.8	200.8	252.2	317.5	401.6	535.3
	cont.	20	20	20	20	18	16
Max.Pressure.Drop (Mpa)	int.	24	24	24	24	21	18
	peak.	28	28	28	28	24	21
	cont.	450	561	710	902	1008	1121
Max.torque (N.m)	int.	559	714	883	1143	1255	1377
	peak.	663	818	1021	1322	1431	1598
Max.Speed (cont.)	(r/min)	625	495	395	310	245	185
Max.Flow(cont.)(L/min)		100	100	100	100	100	100
Max.Output.Power(cont.)(Kw)		20.1	25.2	25.2	25.2	22	21
Weight (kg)		20.3	20.8	21.4	22.4	23	24

■ OTM4Y TECHNICAL DATE

ТҮРЕ		OTM4Y-160	OTM4Y-200	OTM4Y-250	OTM4Y-320	OTM4Y-400	OTM4Y-500
Displacement(ml/r)		158.8	200.8	252.2	317.5	401.6	535.3
	cont.	24	24	24	23	21	18
Max.Pressure.Drop (Mpa)	int.	27	27	27	26	23	20
	peak.	30	30	30	29	25	23
	cont.	559	714	883	1095	1255	1377
Max.torque (N.m)	int.	639	789	985	1227	1371	1521
	peak.	710	876	1093	1369	1490	1750
Max.Speed (cont.)	(r/min)	625	495	395	310	245	185
Max.Flow(L/min)	Max.Flow(L/min)		100	100	100	100	100
Max.Output.Power(cont.)(Kw)		24.1	30	30	28.8	25.3	24.1
Weight (kg)		20.3	20.8	21.4	22.4	23	24

Intermittent operation the permissible values may occur for max.10% of every minute, Peak load:the permissible values may occur for max.1% of every minute.



■ OTM4 PERFORMANCE DATA

				3.8cm ³ /r	ev]			
		Pressu	re (Mpa	ι)			Max.cont.	Max.int.
		4	8	10	12	16	20	24
	10	85	169	219	264	347	429	514
		61	60	59	57	55	51	45
	20	86	174	225	266	357	441	535
2	20	123	122	119	116	111	105	97
Flow(L/min)	40	87	173	226	266	366	452	550
)wol		254	251	248	241	235	228	216
ш	60	79	171	226	266	366	450	549
	00	378	374	369	363	356	347	337
	80	75	166	220	265	364	447	544
	80	502	499	495	488	480	472	457
	100	67	154	209	258	355	437	536
Max.cont.	.30	626	623	618	610	602	594	581
	125	56	142	211	251	345	430	530
Max.int.	120	785	779	773	765	756	746	729

				2.2cm ³ /r	ev]			
		Pressu	re (Mpa	1)			Max.cont.	Max.int.
		4	8	10	12	16	20	24
	10	134	277	344	406	542	689	800
		39	39	38	37	35	33	32
	20	139	287	353	419	563	708	828
Flow(L/min)	20	78	77	76	74	72	69	64
	40	135	292	361	427	575	723	858
wo		159	157	155	152	149	145	137
. Ш.	60	128	285	361	428	574	705	861
	00	242	241	238	234	228	223	211
	80	125	275	353	420	569	699	860
	00	323	322	320	314	309	305	290
	100	123	274	344	414	565	695	853
Max.cont.	, 00	404	402	399	395	389	380	366
	125	113	252	330	402	551	682	838
	0	505	502	498	492	485	478	463
	150	85	235	310	385	535	666	822
∕lax.int.	.50	603	600	596	591	583	576	558

		OTM4 4 Pressur			ev]		Max.cont.	Max.int.
		3	6	9	12	15	18	21
	10	165 25	343 24	524 23	669 22	827 21	982 20	1130 19
e	20	167 51	346 50	528 49	679 46	841 44	1001 42	1156 40
Flow(L/min)	40	165 99	346 98	530 96	685 93	859 90	1020 86	1181 82
ш	60	163 149	338 147	526 143	682 139	860 135	1024 131	1187 125
	80	155 199	330 197	517 194	672 190	853 186	1014 182	1181 176
lax.cont.	100	140 249	317 247	503 245	662 241	838 235	998 231	1171 225
	125	126 311	289 309	490 307	643 303	816 298	977 294	1142 287
lax.int.	150	118 375	273 373	475 369	623 365	797 361	954 357	1119 350
						7		

(Torque): 797Nm (Speed): 361r/min

			200 [200 re (Mpa) . 8cm³/r ı)	ev]		Max.cont.	Max.int.
		4	8	10	12	16	20	24
	10	119 48	221 47	275 46	323 43	431 40	532 38	636 34
ē	20	120 97	227 96	283 94	330 92	445 89	547 86	661 77
Flow(L/min)	40	115 199	229 197	281 195	334 191	451 187	560 182	680 171
Œ	60	111 306	225 301	280 298	334 296	454 288	560 282	682 269
	80	103 403	220 401	275 397	333 392	450 385	557 378	680 367
Max.cont.	100	94 503	216 500	272 496	327 492	447 485	551 477	676 470
	125	80 627	198 623	262 619	316 614	436 607	538 600	662 584
Max.int.	150	67 758	184 754	247 749	308 741	425 731	526 720	648 696

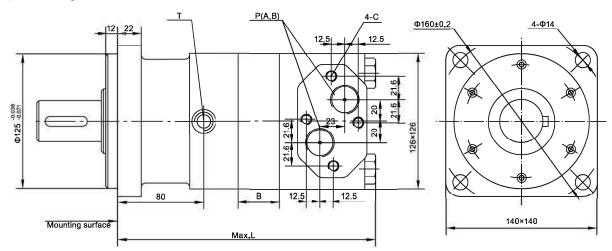
				7.5cm³/r	ev]			
		Pressu	re (Mpa	ι)		_	Max.cont	. Max.int.
		4	8	10	12	16	20	24
Flow(L/min)	10	175 31	345 30	430 29	518 28	697 27	847 26	1011 24
	20	180 62	361 61	449 60	534 58	719 56	871 54	1054 52
	40	182 126	362 125	460 123	542 120	735 117	906 114	1092 109
Œ	60	180 189	361 187	473 185	544 181	733 178	914 176	1096 166
	80	170 251	354 249	459 248	540 243	730 238	906 234	1095 224
Max.cont.	100	161 314	342 313	447 310	537 307	720 303	895 297	1086 284
	125	140 391	321 389	427 386	519 382	708 378	874 373	1071 360
Max.int.	150	113 471	303 469	412 466	501 462	677 457	849 444	1042 438

		Pressur	e (IVIPA)		Max.cont.	Max.int.		
		3	6	9	12	14	16	18
	10	204	415	637	821	966	1098	1233
		18	18	18	17	16	15	13
	20	213	427	656	845	984	1122	1267
2	20	37	36	35	34	33	32	30
Flow(L/min)	40	212	429	669	866	1007	1145	1308
) 0	40	75	74	73	72	70	68	64
ш	60	207	421	657	866	1001	1146	1296
		113	112	111	109	107	105	101
	80	196	397	640	853	990	1145	1289
		151	150	149	147	145	143	138
	100	179	387	626	829	978	1126	1272
x.cont.	100	189	188	187	185	183	181	177
	125	168	366	590	807	942	1103	1244
	123	237	236	235	233	231	229	225
	150	135	339	569	785	924	1074	1219
x.int.	130	284	283	282	280	278	276	272
			Cont.					

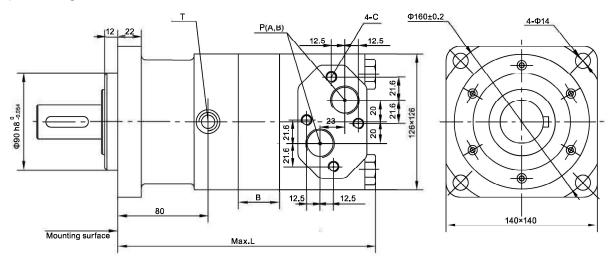


■ OTM4 Installation

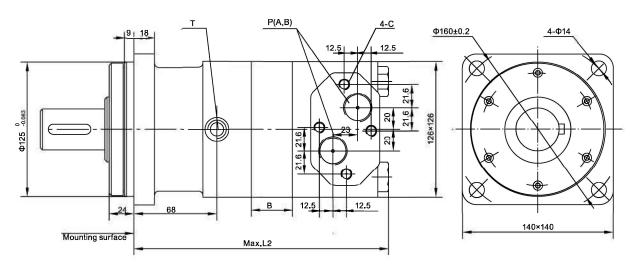
Square flange A



Square flange A1

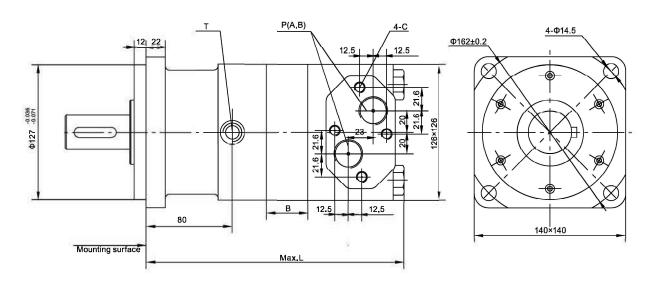


Square flange A4





■ OTM4 Installation



Туре	OTM4-160	OTM4-200	OTM4-250	OTM4-320	OTM4-400	OTM4-500
L	217.5	222	227.5	234.5	243.5	262
В	12	16.5	22	29	38	56.5
L2	205.5	210	215.5	222.5	231.5	250

■ OTM4 PORTS CODE

Ports Code	P(A、B)(deep)	C (deep)	T (deep)
Υ	G3/4 (15)	M10 (12)	G1/4(12)
Y3	M27 × 2(15)	M10 (12)	M14 × 1.5(12)
Y4	M22 × 1.5(15)	M10 (12)	M14 × 1.5(12)
Y8	7/8-14UNF(15)	-	7/16-20UNF(12)
Y10	1 1/16–12UN(15)	-	9/16-18UNF(12)

P(A, B)—Ports, C—Mounting Thread (—Indicates no this thread) , T—Drain connection

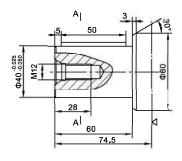


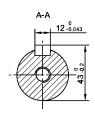
■ OTM4 SHAFT VERSION

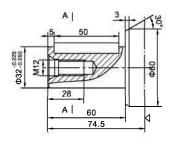
Only match A,A1,A7 flange

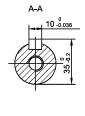
P: Φ 40 Cylindrical shaft, parallel key12 \times 8 \times 50

P1: Φ 32 Cylindrical shaft, parallel key10 \times 8 \times 50



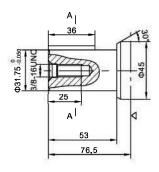


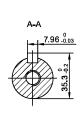


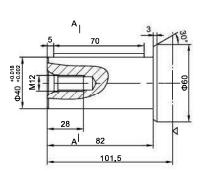


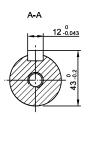
P13: Φ 31.75 Cylindrical shaft, parallel key7.96 \times 7.96 \times 36

P33: Φ 40 Cylindrical shaft, parallel key12 \times 8 \times 70









: Motor mounting surface

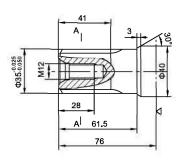


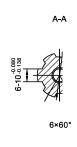
■ OTM4 SHAFT VERSION

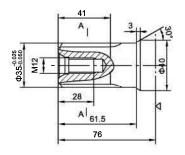
Only match A,A1,A7 flange

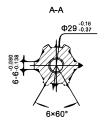
H4: Φ 35 Splined shaft, $6-35 \times 29 \times 10$

H5: Φ 35 Splined shaft, $6-35 \times 29 \times 6$

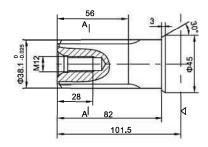








K3: Φ38.1 involute splined shaft 17–DP12/24 a=30°



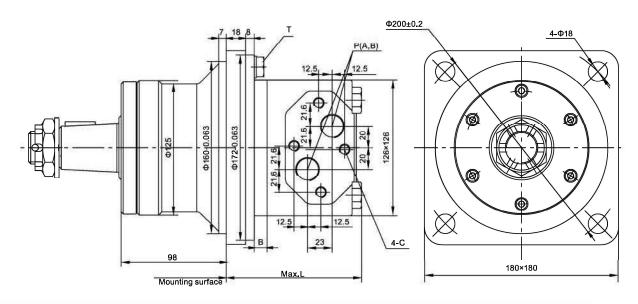


Note: Flange with A4 type, hydraulic motor shaft from the mounting surface to increase 12mm.

: Motor mounting surface



■ OTM4W ORDERING CODE



Туре	OTM4W-160	OT M4W-200	OTM4W-250	OTM4W-320	OTM4W-400	OTM4W-500
L	131.5	136	142.5	149.5	158.5	177
В	12	16.5	22	29	38	56.5

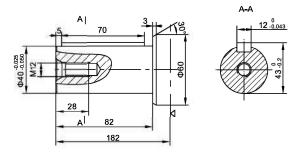
■ OTM4W PORTS CODE

Ports	P(A、B)(deep)	C (deep)	T (deep)
Υ	G3/4 (15)	M10 (12)	G1/4(12)

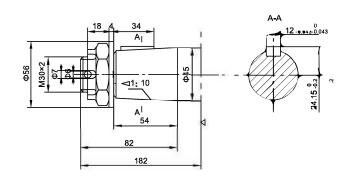
P(A、B)--Ports, C--Mounting Thread (-Indicates no this thread) , T--Drain connettion

■ OTM4W SHAFT VERSION

P31: Φ 40 Cylindrical shaft, parallel key12 × 8 × 70

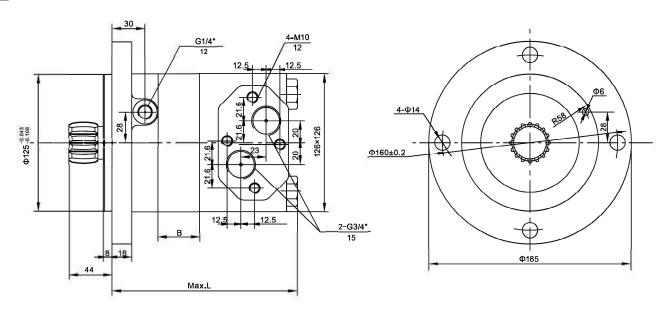


Z2: Φ 45 Tapered shaft, taper1:10, parallel key 12 × 8 × 28



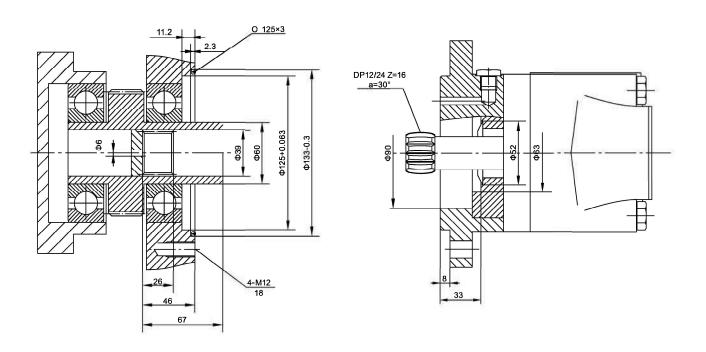


■ OTM4S INSTALLATION



Туре	OTM4S-160	OTM4S-200	OTM4S-250	OTM4S-320	OTM4S-400	OTM4S-500
L	148.5	153	158.5	165.5	174.5	193
В	12	16.5	22	29	38	56.5

■ OTM4S SHAFT VERSION



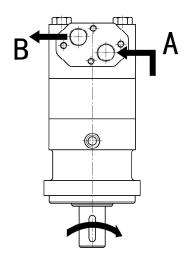


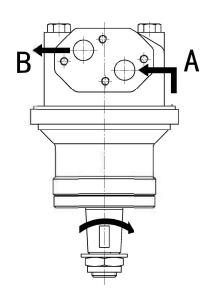
OTM4、OTM4W、OTM4S Series Mortor

■ OTM4、OTM4W、OTM4S Series Motor

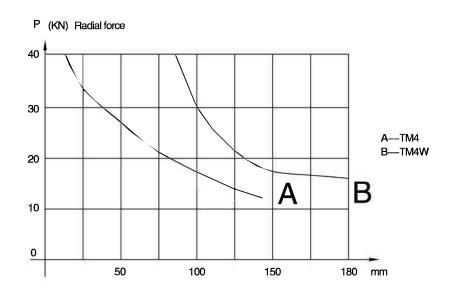
Direction of shaft ration: Standard

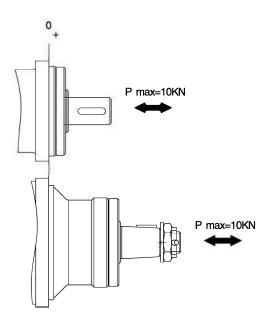
When facing shaft end of motor, shaft to rotate: Clockwise when port "A" is pressurized. Counter-clockwise port "B" is pressurized.





■ PERMISSIBLE SHAFT LOADS







OTM4、OTM4W、OTM4S Series Mortor

■ OTM4、OTM4W、OTM4S ORDE RING CODE

1		2	3	4	5		6		7
OTM4	_					1		_	

Pos.1	2	3 4			
Series	Disp		Output		Flange
	160	P33	Φ 40 Cylindrical shaft, parallel key12 × 8 × 70	А	4–Φ14 Oval flange, pilotΦ125
	200	Р	Φ40 Cylindrical shaft, parallel key12 × 8 × 50		
	250	P1	Φ32 Cylindrical shaft, parallel key10 × 8 × 50	A1	4—Φ14 Oval flange, pilot Φ90
ОТМ4	320	P13	Φ31.75 Cylindrical shaft,parallel key7.96 × 7.96 × 36		
	320	H4	Φ 35 Splined shaft, 6–35 × 29 × 10	A4	4-Φ14 Oval flange, pilotΦ125
	400	H5	Φ35 Splined shaft, 6–35×29×6	A7	4–Φ14.5 Oval flange, pilotΦ127
	500	кз	Φ38.1 involute splined shaft, 17–DP12/24 a=30°		

	5			6		7	
	Ports				Rotation		
Code	Ports(A,B)(deep)	Drain port T(deep)	Sp	ecial features		ection	
Υ	G3/4(15)	G1/4(12)					
Y3	M27 × 2(15)	M14×1.5(12)					
Y4	M22 × 1.5(15)	M14 × 1.5(12)	Omit T7	Standard With dustproof ring		Standard Opposite	
Y8	7/8–14UNF(15)	7/16–20UNF(12)					
Y10	1 1/16–12UN(15)	9/16–18UNF(12)					



OTM4、OTM4W、OTM4S Series Motor

■ OTM4、OTM4W、OTM4S ORDERING CODE

1		2	3	4	5	6	7
OTM4W	-					/	

Pos.1	2		3		4
Series	Disp		Output		Flange
OT\$ 4444	160 200 250	P31	Φ40 Cylindrical shaft, parallel key12×8×70	- A	A # # # # # # # # # # # # # # # # # # #
OTM4W	320 400 500	Z2	Φ45 Tapered shaft, taper1:10, parallel keyB12×8×28	: A	4-Φ18 Oval flange, pilotΦ160

	5			6		7
	Ports			ĺ	Br	otation
Code	Ports(A,B)(deep)	Drain port T(deep)		ecial features		ection
Y	G3/4(15)	G1/4(12)	Omit	Standard	Omit L	Standard Opposite

1		2		3
OTM4S	_		/	

Pos.1	2	3		
Series	Disp	Special features		
	160	Omit	Standard	
	200		Otal radi a	
OTM4S	250			
0111143	320			
	400			
	500			
			Z	

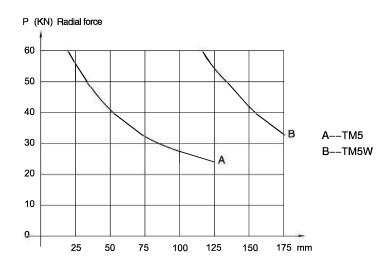


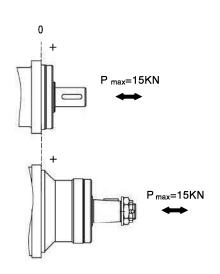
■ OTM5 TECHNICAL DATA

ТҮРЕ		OTM5-315 OTM5S-315 OTM5W-315	OTM5-400 OTM5S-400 OTM5W-400	OTM5-500 OTM5S-500 OTM5W-500	OTM5-630 OTM5S-630 OTM5W-630	OTM5-800 OTM5S-800 OTM5W-800	OTM5 - 985 OTM5S - 985 OTM5W-985
Displacement(ml/r)		314.9	399.7	496.6	617.8	787.4	969.1
	cont.	20	20	20	18	16	14
Max.Pressure.Drop (Mpa)	int.	24	24	24	21	18	16
	peak.	28	28	28	24	21	18
	cont.	873	1108	1385	1570	1773	1900
Max.torque (N.m)	int.	1119	1440	1783	1951	2122	2133
	peak.	1293	1650	2060	2249	2481	2399
Max.Speed(cont.)(r/n	nin)	475	375	300	240	190	150
Max.Flow(cont.)(L/min)	Max.Flow(cont.)(L/min)		150	150	150	150	150
Max.Output.Power(cont.)(Kw)		32	32	32	32	32	24
Weight (kg)		30.7	31.5	32.4	33.6	35.2	37.2

Intermittent operation the permissible values may occur for max. 10% of every minute Peak load: the permissible values may occur for max. 1% of every minute

■ PERMISSIBLE SHAFT LOADS







■ OTM5 PERFORMANCE DATA

		Pressur	315[314 e (Mpa)				Max.cont.	Max.int.
		3.5	7	10	14	18	20	24
	10	132	278	416	576	701	799	945
	_	28	25	24	23	21	18	15
	20	145	297	440	601	744	846	1011
2	20	58	57	56	55	54	51	47
50 Flow(Lmin)	50	141	295	439	618	770	884	1051
	30	153	152	150	148	145	141	134
	75	135	287	433	607	771	888	1057
	/5	233	231	228	223	219	214	206
	100	129	281	427	601	765	885	1047
	100	311	309	307	304	299	294	286
	125	116	270	418	592	755	870	1033
	125	389	387	385	382	378	372	365
ax.cont.	150	108	260	411	581	745	856	1019
ax.com.	150	471	469	467	462	455	447	434
	160	101	253	406	575	737	846	1011
	160	503	501	497	493	487	478	465
ax.int.	200	77	235	389	560	716	823	989
ax.int.	200	631	629	624	618	610	598	576

		OTM5 5 Pressur					Max.cont.	Man int
			- 5	7				
		3.5	7	10	14	18	20	24
	10	232	448	667	919	1140	1296	1540
	10	18	18	17	17	16	14	11
	20	235	480	707	961	1180	1335	1588
Flow(L/min)	20	38	37	37	35	34	33	30
	50	230	479	726	982	1217	1388	1670
		97	96	95	94	92	89	84
	75	223	477	720	987	1234	1413	1692
		146	145	143	141	138	133	125
	100	218	470	717	983	1235	1410	1686
		197	195	193	190	186	181	173
	125	211	463	711	971	1226	1399	1672
	120	247	246	244	241	237	233	225
Max.cont.	150	193	445	693	966	1198	1369	1663
		300	299	296	293	288	282	271
	175	174	427	681	955	1186	1347	1643
	1,3	350	349	347	343	339	334	324
∕lax.int.	200	154	405	648	933	1167	1327	1626
		401	400	398	395	390	382	370

		OTM5 8 Pressur					Max.cont.	May int
		2.5	5	8	10	13	16	18
	10	273	555	816	1076	1381	1683	1882
	10	11	10	10	9	8	8	7
	20	277	561	831	1130	1431	1753	1960
6	20	23	22	22	21	20	18	16
Ę	50	283	572	841	1142	1438	1760	1967
Flow(L/min)		61	60	58	57	55	53	49
	75	264	570	840	1145	1440	1756	1962
		93	92	91	89	85	82	78
	100	247	556	826	1121	1423	1737	1951
	100	124	123	122	120	117	113	107
	125	238	526	810	1099	1403	1709	1942
	123	156	155	153	150	145	141	135
Max.cont.	150	232	517	794	1083	1377	1685	1926
, and a second	130	188	186	184	181	177	172	166
	175	211	495	780	1061	1354	1669	1903
	173	251	249	247	244	241	236	229
Max.int.	200	194	460	752	1045	1339	1652	1807
riux.ii it.	200	302	301	300	298	293	288	282

(Torque) : 1045Nm (Speed) : 298r/min

202	
	Con
	Int.

		OTM5 4 Pressur					Max.cont.	Max.int.
		3.5	7	10	14	18	20	24
Flow(L/min)	10	175 21	367 21	542 20	740 19	923 18	1050 17	1233 15
	20	187 46	380 46	563 45	778 44	964 42	1099 41	1284 39
	50	191 119	384 118	575 118	803 117	992 115	1131 113	1364 108
	75	186 183	376 181	569 178	799 174	995 171	1133 165	1366 159
	100	164 247	367 246	566 244	789 242	988 238	1130 234	1359 225
	125	159 310	357 308	556 305	778 302	974 296	1123 288	1348 281
Max.cont.	150	151 372	344 371	533 369	764 366	962 361	1111 351	1326 340
	175	136 436	330 434	528 431	748 427	944 422	1092 415	1314 407
Max.int.	200	113 498	316 496	511 492	735 485	924 477	1076 470	1294 460

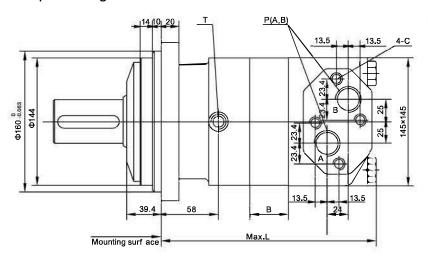
		OTM5						
		Pressur	e (Mpa))			Max.cont.	Max.int.
		3.5	6	9	12	15	18	21
Flow(L/min)	10	260 15	484 14	753 14	1020 13	1175 13	1436 12	1654 11
	20	267 30	512 30	778 29	1021 29	1219 28	1490 26	1728 24
	50	268 78	514 78	805 77	1054 74	1264 73	1559 71	1813 67
	75	250 118	508 117	800 114	1038 112	1253 110	1557 107	1821 101
	100	245 157	499 156	794 154	1013 152	1251 149	1552 146	1822 140
	125	233 198	478 197	776 195	993 193	1238 191	1538 187	1808 181
Max.cont.	150	222 238	459 237	757 236	985 234	1233 232	1530 229	1787 221
	175	195 279	450 278	738 277	975 274	1205 270	1517 265	1769 260
Max.int.	200	169 320	435 320	696 318	944 316	1187 313	1493 306	1746 294

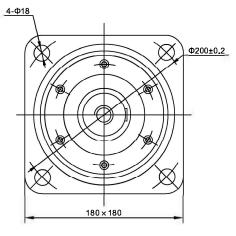
		OTM5 9 Pressur				Max.cont.	Max.int.
		2.5	5	7	10	14	16
	10	305 9	627 9	951 9	1371 8	1936 7	2212 6
Flow(L/min)	20	313 29	634 28	957 27	1380 26	1938 23	2222 21
	50	319 48	641 47	971 46	1392 44	1973 42	2232 39
	75	311 74	629 73	966 72	1395 69	1961 67	2228 64
	100	303 100	621 99	962 97	1388 95	1952 92	2196 88
	125	297 126	611 125	955 123	1379 120	1946 116	2177 112
ax.cont.	150	272 152	589 151	941 149	1339 147	1922 143	2162 136
	175	258 178	568 176	926 174	1310 170	1885 165	2114 158
ax.int.	200	163 245	502 242	849 238	1240 234	1787 230	1991 223



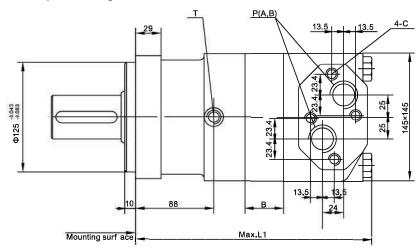
OTM5 Installation

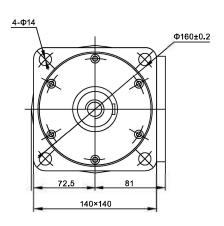
A Square flange A



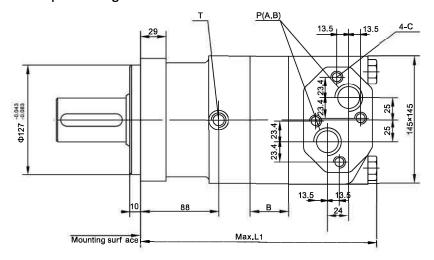


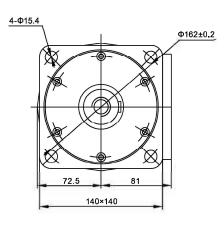
A1 Square flange A1





A7 Square flange A7







Туре	OTM5–315	OTM5-400	OTM5-500	OTM5-630	OOTM5-800	OTM5-985
L	216	223	231	241	255	270
L1	246	253	261	271	285	300
В	19	26	34	44	58	73

■ OTM5 PORTS CODE

Ports Code	P(A、B)(deep)	C (deep)	T (deep)
Υ	G1 (18)	M12(12)	G1/4(12)
Y1	G3/4(18)	M12(12)	G1/4(12)
Y2	M33 × 2(18)	M12(12)	M14 × 1.5(12)
Y3	M27 × 2(18)	M12(12)	M14 × 1.5(12)
Y8	1 5/16–12UN(18)		9/16-18UNF(12)

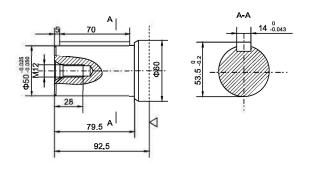
P(A, B)—Ports, C—Mounting Thread (—Indicates no this thread) , T—Drain connection

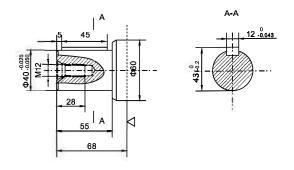


■ OTM5 SHAFT VERSION

Only match A 1,A7 flange P: Φ 50 Cylindrical shaft, parallel key14 \times 9 \times 70

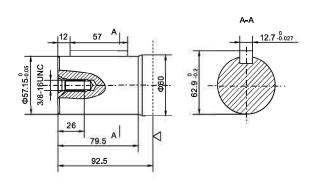
P1: Φ 40 Cylindrical shaft, parallel key12 × 8 × 45

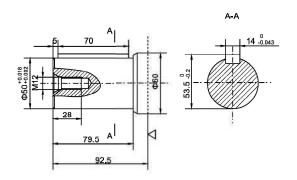




P12: Φ 57.15 Cylindrical shaft, parallel key12.7 × 12.7 × 57

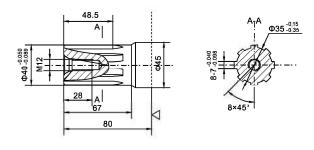
P99: Φ 50 Cylindrical shaft, parallel key14 \times 9 \times 70

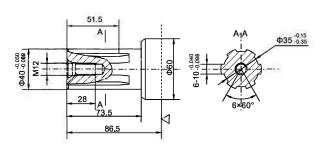




H4: Φ 40 Splined shaft, $8-40 \times 35 \times 7$

H5: Φ 40 Splined shaft, $6-40 \times 35 \times 10$





: Motor mounting surface

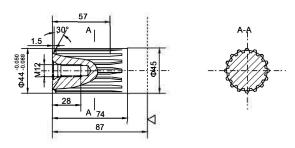


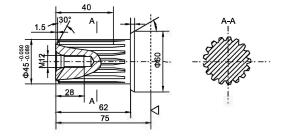
■ OTM5 SHAFT VERSION

Only match A1,A7 flange

K2: Φ 44 involute splined shaft m2.5 z16 a=30°

K3: Φ45 involute splined shaft m2.5 z17 a=30°



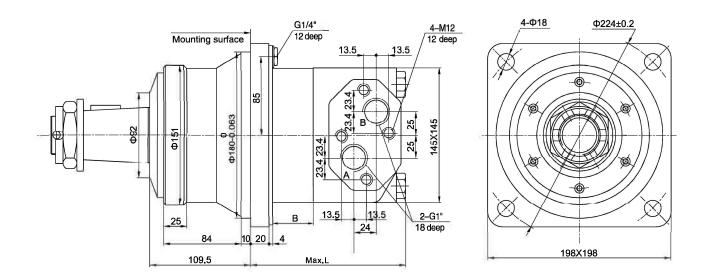


Note: Flange with A type, hydraulic motor shaft from the mounting surface to increase 30mm.

: Motor mounting surface



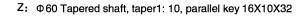
■ OTM5W Installation

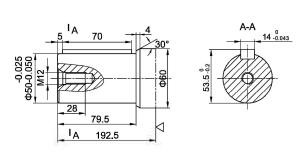


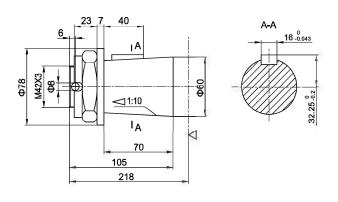
TYPE	OTMSW-315	OTMSW-400	OTMSW-500	OTMSW-630	OTMSVV-800	OTMSW-985
L	148	155	163	174	187	202
В	19	26	34	44	58	73

■ OTM5W SHAFT VERSION

P: Φ50 Cylindrical shaft, parallel key 14X9X70

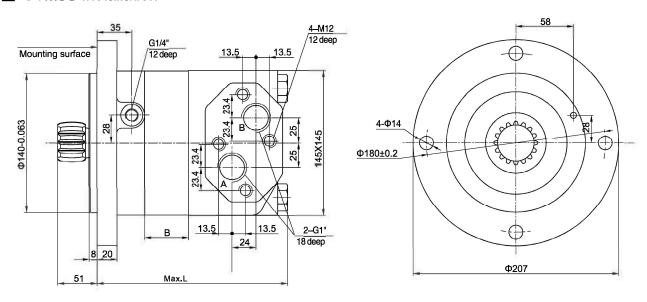






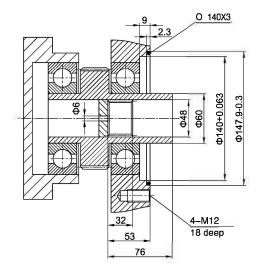


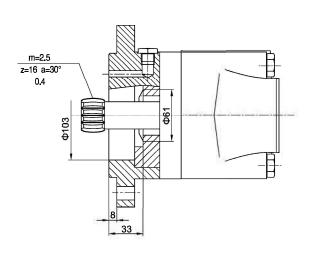
■ OTM5S Installation



ТҮРЕ	OTM5S-315	OTM5S-400	OTM5S-500	OTM5S-630	OTM5S-800	OTM5S-985
L	170	177	185	195	209	224
В	19	26	34	44	58	73

■ OTM5S SHAFT VERSION





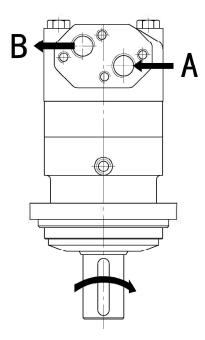


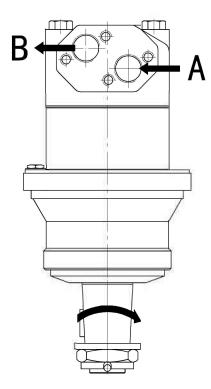
OTM5, OTM5W, OTM5S Ordering Code

■ OTM5、OTM5W、OTM5S Series Motor

Direction of shaft ration: Standard

When facing shaft end of motor, shaft to rotate: Clockwise when port "A" is pressurized. Counter-clockwise port "B" is pressurized.







OTM5、OTM5W、OTM5S Ordering Code

■ OTM5、OTM5W、OTM5S ORDE RING CODE

_ 1		2	3	4	₂₂ 5	6		7
OTM5	_					1	-	

Pos.1	2		3	ľ	4			
Series	Disp		Output	Flange				
	315	Р	Φ50 Cylindrical shaft, parallel key14 × 9 × 70					
	400	P1	Φ40 Cylindrical shaft, parallel key12×8×45	А	4–Φ18 Square flange, pilotΦ160			
		P12	Φ57.15 Cylindrical shaft, parallel key12.7 × 12.7 × 57					
OTME	500	P99	P99 Φ50 Cylindrical shaft, parallel key14×9×70		4–Φ14 Square flange, pilotΦ125			
OTM5	630	H4	Φ40 Splined shaft, 8–40×35×7					
		H5	Φ40 Splined shaft, 6–40×35×10					
	 600 K2 Φ44 involute splined shaft, m2.5,z16,a=30° 600 K3 Φ45 involute splined shaft, m2.5,z17,a=30° 		K2 Φ44 involute splined shaft, m2.5,z16,a=30°		4–Φ15.4 Square flange, pilotΦ127			
			Φ45 involute splined shaft, m2.5,z17,a=30°					

	5		ž	6		7	
	Ports				Ro	tation	
Code	Ports(A,B)(deep)	Drain port T(deep)	Sp	ecial features	direction		
Y	G1(18)	G1/4(12)					
Y1	G3/4(18)	G1/4(12)					
Y2	M33×2(18)	M14×1.5(12)	Omit	Omit Standard		Standard Opposite	
Y3	M27×2(18)	M14×1.5(12)					
Y8	1 5/16–12UN(18)	9/16–18UNF(12)					



OTM5、OTM5W、OTM5S Ordering Code

■ OTM5、OTM5W、OTM5S ORDERING CODE

1		2	3	4	5	6	7
OTM5W	_					/	

Pos.1	2		3		4	
Series	Disp		Output	Flange		
OTM5W	315 400 500	Р	Φ50 Cylindrical shaft, parallel key14×9×70	Α		
O TIVISVV	630 800 Z 985		Φ 60 Tapered shaft, taper1:10, parallel key 16 × 10 × 32		4-Φ18 Square flange, pilotΦ180	

	5			6	7		
	Ports				Rotation		
Code	Ports(A,B)(deep)	Drain port T(deep)	Sp	ecial features	direction		
Υ	G1(18)	G1/4(12)	Omit	Standard	Omit L	Standard Opposite	

. 1		2	200 200	3
OTM5S	_		/	

Pos.1	2	3					
Series	Disp	Special features					
OTM5S	315 400 500 630 800 985	Omit	Standard				



■ OTM6 TECHNICAL DATA

ТҮРЕ		OTM6-800	OTM6-1000	OTM6-1250
Displacement(ml/r)		759.6	949.5	1186.8
	cont.	16	16	16
Max.Pressure.Drop (Mpa)	int.	18	18	18
	peak.	21	21	21
	cont.	1690	2160	2650
Max.torque (N.m)	int.	1903	2379	2973
(14.11)	peak.	2220	2774	3469
Speed.Range(cont.)(r/n	nin)	5-200	5-160	5-130
Max.Flow(cont.)(L/min)		160 160		160
Max.Output.Power(cont.)(Kw)		35	35	35
Weight (kg)		54	56	58

Intermittent operation the permissible values may occur for max. 10% of every minute Peak load: the permissible values may occur for max. 1% of every minute

■ OTM6 PERFORMANCE DATA

		OTM6 8						Max.cont.	Max.int.
		3	5	7	10.5	12	14	16	18
	10	233 13	490 13	683 12					
	15	230 20	485 20	680 19	1005 17	1145 16	1340 15		
	30	297 39	481 38	678 38	1003 37	1142 37	1336 36	1685 35	1921 32
	45	295 58	479 58	675 57	1000 57	1140 56	1332 55	1680 54	
/min)	60	292 77	476 77	671 76	998 75	1138 75	1329 74	1699 74	
Flow(L/min)	75	288 96	473 95	668 94	995 94	1135 93	1325 92	1695 91	
	90	283 115	471 114	660 113	990 113	1132 112	1320 111	1690 110	
	105	280 135	463 134	650 133	982 132	1120 130	1312 129		
	120		451 153	635 152	968 151	1111 149	1300 147		
	140		440 178	620 176	952 175	1101 173			
ax.cont.	160			612 198	932 197	1092 196			
lax.int.	190			241	913 240	1071 238			

		Pressu						Max.cont.	
		3	5	7	10.5	12	14	16	18
Ŷ.	15	366	602	836	1250	1438			
	13	14	13	13	12	11			
	30	364	600	834	1248	1432	1669		
	30	31	31	30	30	29	28		
	45	362	598	832	1245	1428	1667		
	45	46	45	45	44	43	43		
	60	360	595	830	1242	1420	1662	2012	2316
	00	62	61	61	60	59	58	57	54
0	75	358	593	828	1240	1418	1658	2006	
Ē	/3	77	76	75	74	73	72	72	
Flow(L/min)	90	354	590	826	1238	1415	1651	2003	
Œ		93	92	92	91	90	89	88	
	105	350	581	801	1221	1402	1648		
	103	108	107	106	105	104	103		
	120		571	791	1210	1394	1432		
	120		123	122	121	120	119		
	140		552	772	1196	1385	1425		
	140		143	142	140	139	138		
Max.cont.	160			761	1186	1368		T T	
nax cont	100			163	162	161			
	190			742	1165	1352			
lax₌int.	190			193	192	191			
						_			Cont
			(T	orque):	1165Nn	1			Cont.

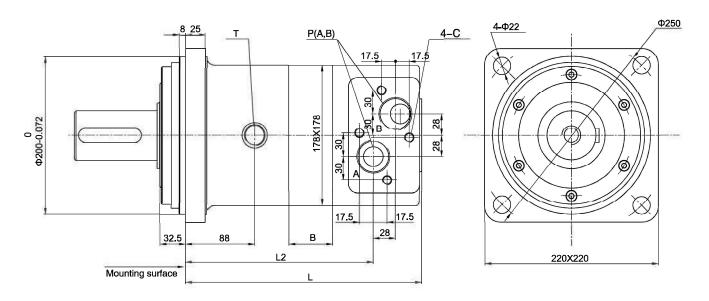


■ OTM6 PERFORMANCE DATA

		OTM6 1 Pressur			r]			Max.cont.	Max.int.	
		3	5	7	10.5	12	14	16	18	
	30	468	770	1070	1602					
	-	25 465	24 767	23 1068	22 1599	1826				
	45	37	36	35	34	33				
	-	462	763	1065	1596	1822		-		
	60	50	49	48	47	45				
	-	460	760	1062	1592	1818	2123	2654	2978	
	75	62	61	60	58	57	57	56	52	
	90	456	758	1060	1590	1816	2118	2652	2975	
min)		74	73	72	71	70	68	67	64	
Flow(L/min)	105	453	756	1058	1587	1814	2116	2650	2973	
윤		87	86	85	84	82	82	81	79	
		O,	751	1050	1582	1802	2110	2641	2963	
	120		98	97	96	95	93	92	91	
			742	1041	1561	1792	2008	<u> </u>	0.	
	140		113	112	111	109	107			
			110	1032	1550	1782	1986	- 5		
Max.cont.	160			129	128	127	126			
	400			1020	1532	1770				
Max.int.	190			153	152	151				
		9	LTO	_	1				Cont.	
	(Torque) : 1532Nm (Speed) : 152r/min									

■ OTM6 Installation

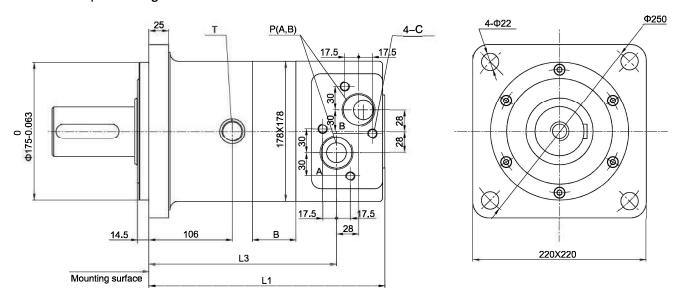
4-Φ22 square flange A





■ OTM6 Installation

4-Φ22 square flange A1



TYPE	OTM6-800	OTM6-1000	OT M6-1250
L	278	288	300
L1	296	306	318
L2	217	227	239
L3	235	245	257
В	33	43	55.5

■ OTM6 PORTS CODE

Ports Code	P(A、B)(deep)	C (deep)	T (deep)
Υ	G1-1/4(20)	M12(12)	G3/8" (12)
Y1	Ф 36(20)	M12(12)	G3/8" (12)

P(A, B)—Ports, C—Mounting Thread (—Indicates no this thread) , T—Drain connection

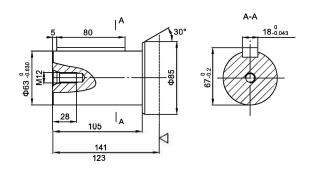


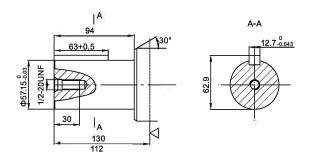
■ OTM6 SHAFT VERSION

P: Φ 63 Cylindrical shaft, parallel key18

 \times 11 \times 80

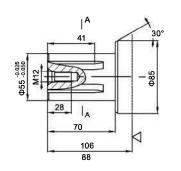
P1: Φ 57.15 Cylindrical shaft, parallel key C12.7x11x63

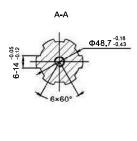


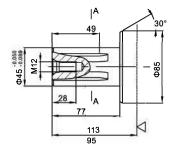


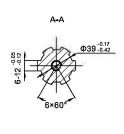
H1: Φ 55 Splined shaft, $6-55 \times 48.7 \times 14$

H2: Φ 45 Splined shaft, $6-45 \times 39 \times 12$







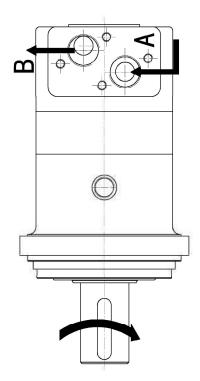




■ OTM6 Series Motor

Direction of shaft ration: Standard

When facing shaft end of motor, shaft to rotate: Clockwise when port "A" is pressurized. Counter-clockwise port "B" is pressurized.





■ OTM6 ORDERING CODE

1		2	3	4	5		6		7
ОТМ6	_					1		_	

Pos.1	2		3		4			
Series	Disp		Output					
	9	Р	$\Phi63$ Cylindrical shaft, parallel key $18\times11\times80$	А	4-Φ22 Square flange, pilotΦ200			
OTM6 1000		P1	Φ57.15 Cylindrical shaft, parallel key C12.7 × 11 × 63					
OTIVIO	1000	H1	Φ 55 Splined shaft, 6-55 × 48.7 × 14					
	1250	H2	Φ 45 Splined shaft, 6–45 × 39 × 12	A1	4-Φ22 Square flange, pilotΦ175			

	5			6	7		
Ports					Rotation		
Code	Ports(A,B)(deep)	Drain port T(deep) Sp	Special features		ection	
Y	G1 1/4(20)	G3/8″ (12)	Omit	Standard	Omit	Standard	
Y1	Ф 36(20)	G3/8" (12)			L	Opposite	



APPENDIX

■ COMPARISON

	ОТМР	OTMR	ОТМЗҮ	OTM3SY	ОТМ4	OTM4S	OTM5	OTM5S	ОТМ6
Danfoss	OMP	OMR	OMS	OMSS	ОМТ	OMTS	OMV	OMVS	
M+S	EPM	EPRM	EPMS	=	EPMT	-	EPMV	-	(-)

■ USAGE AND NOTICE

- 1. Selecting motor by standard technical data.
- 2. The motor must be coaxial with the driven part and the bracket should be stiff enough.
- 3. Working temperature is 25~55 °C, maximum temperature is 65 °C. Hydraulic oil with kenimatic viscosity 25~70mm²/s (50 °C) is recommended. The filter is about 20µm. The oil must be clear, polluted oil will damage the motor badly.
- 4. For BM4-6 there should be a pipe connected the drain port and the oil tank; for OTMR. OTMP.OTM3 the back pressure should be lower than 0.7Mpa, if the back pressure is higher than 1.0Mpa, a drain line should be connected to the oil tank.
- 5, If nonstandard motor is needed, please contact our technical department.

■ COMMON UNIT AND CONVERSION

N	$1 \text{ N} = 10^{-3} \text{ KN}$
kgf	1 kgf = 9.81 N
lbf	1 lbf = 4.45 N
bar	1 bar = 10⁵ Pa = 14.5 Psi
Pa	1 Pa = 1 N/ m^2 = 10 ⁻⁶ MPa
N·m	
kgf • m	1kgf-m=9.81 N-m

■ FORMULA

(—) n	(<u>二</u>) Ts	(<u>=</u>) Ps
$n = \frac{q_s}{V} \eta_V (r/min)$ $q_s (L/min)$ $V (L/r)$ η_V	$Ts = \frac{\Delta PV}{2\pi} \eta_m (N \cdot m)$ $\Delta p (MPa)$ $V (ml/r)$ η_m	Ps=n∗Ts/9550



ZOTMR Hydraulic Motor with Brake



■ INTRODUCTION

ZOTMR are OTMR orbit hydraulic motor with multi-disc brake. There are shuttle valve and inner hydraulic control system. It has small volume, short radial dimension, low weight and easy to install. It's widely applied in construction machinery, shipping machinery, cranes, mining, port, metallurgical industry, etc.

■ ORDERING CODE

	1	2	3	4		5	
ZOTMR -	T				7		

1, Displacement

2、Output shaft

P1- Standard flat key

H1- Standard spline key

3、Mounting Flange

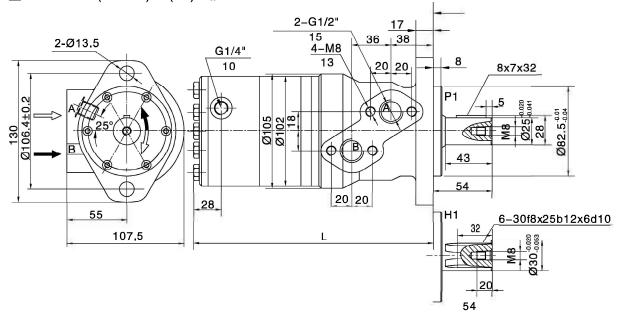
4、Ports

5. Special Features

■ TECHNICAL DATA

Туре	Displacement ml/r	Max.pressure Mpa	Max.torque N.m	Speed range r/min	Releasing pressure Mpa	Static brake torque N.m	Associated motor	Weight kg	Length mm
ZOTMR-80	80.5	14	152	20-500	1,3-1,7	250-300	OTMR-80	12.3	240
ZOTMR-100	100,5	14	194	20-450	1.3-1.7	250-300	OTMR-100	12.5	244
ZOTMR-125	126.3	14	237	20-400	1.3-1.7	250-300	OTMR-125	12.8	248
ZOTMR-160	160,8	14	310	20-300	2.6-3.2	450-500	OTMR-160	13	254
ZOTMR-200	200,9	14	369	20-250	2.6-3.2	450-500	OTMR-200	13.5	261
ZOTMR-250	252.6	11	380	15-200	2.6-3.2	450-500	OTMR-250	14	270
ZOTMR-315	321.5	9	380	15-160	2.6-3.2	450-500	OTMR-315	14.5	282

■ ZOTMR-80(80-315)P1 (H1) A || Y Installation





ZOTMR/N Hydraulic motor with brake



■ INTRODUCTION

ZOTMR/N hydraulic motor-brake is made up of OTMR geroler motor and multi-disc brake, with shuttle valve and built-in control oil circuit. It has the advantages of simple structure, short radial dimension, more compact and easy installation, etc.. This brake is characterized by point braking, and there are total six braking points in a circle. When receiving the stop signal, the motor needs to keep running at most 60 degrees to be braked. It can not stop running suddenly and can not be used for precise positioning. It is widely used for injection molding machine, some of transmission and horizontal pulling application.

ORDERING CODE

	_ 1	2	3	4	5
ZOTMR -	100	T	Ī	700	/N -□

1, Displacement

3、Mounting Flange

2. Output shaft

4、Ports

P1 - Standard flat key

H1- Standard spline key

5, Special Features

■ TECHNICAL DATA

	######################################		* Participation Company		Bra	ker		Allere was both	3
Туре	Type Displacement Max. pressure Max. torque S ml/r Mpa N • m	Speed range i r/min	Mpa Releasing pressure	N.m Brake torque	Associated motor	Length mm	Weight kg		
ZOTMR-80/N	l 80.5	14	152	60-500	2.4	450	OTMR-80	187	9.4
ZOTMR-100/N	100.5	14	194	50-480	2.4	450	OTMR-100	190	9.5
ZOTMR-125/N	126.3	14	237	40-380	2.4	450	OTMR-125	195	9.8
ZOTMR-160/N	160.8	14	310	30-300	2.4	450	OTMR-160	201	10
ZOTMR-200/N	200.9	14	369	25-240	2.4	450	OTMR-200	208	10.5
ZOTMR-250/N	252.6	11	380	20-195	2.4	450	OTMR-250	217	11
ZOTMR-315/N	321.5	9	380	15–150	2.4	450	OTMR-315	229	11.5
ZOTMR-400/N	401.9	7	380	10–130	2.4	450	OTMR-400	243	13.5

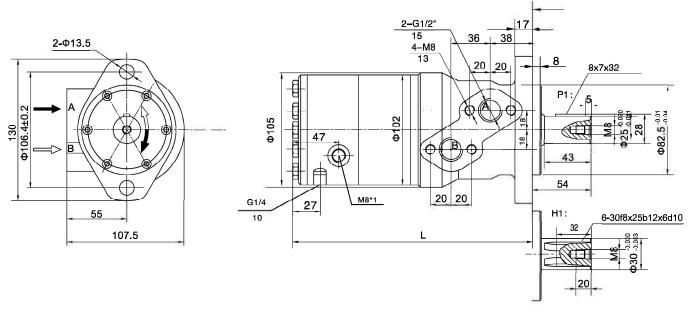
Notice: 1. ZOTMR/N Hydraulic Motor-Brake is only for static brake.

2. When the motor is braked: for the internal control motor, the input and output line can not be pressured, otherwise it will not be braked; for external control motor, the control line can not be pressured, otherwise it will not be braked.



ZOTMR/N Hydraulic motor with brake

■ ZOTMR-(80-400)P1(H1)AIIY/N





ZOTM Hydraulic motor with brake



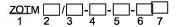
■ INTRODUCTION

ZOTM are OTM orbit hydraulic motor with multi-disc friction brake. The brake can be released or closed automatically while the motor starts or stops, to keep the motor being blocked stably without working pressure. Also, the control inlet can be connected to any other control loops, to accomplish different applications, adapted for high system pressure working places.

■ TECHNICAL DATA

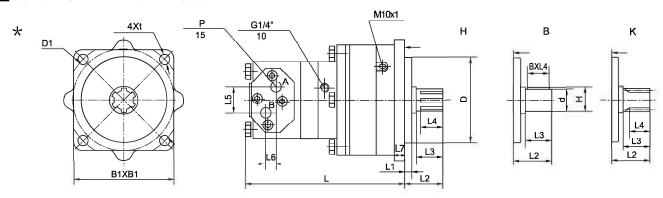
				5/ 3	Bra	Braker		
Type	Displacement I ml/r	Max. pressure Mpa	Max. torque N • m	Speed range r/min	Mpa Releasing pressure	N.m Brake torque	Associated motor	Weight kg
ZOTM3/80	80.5	16	156	15-620	2.6	245	OTM3-80	18
ZOTM3/100	100.5	16	193	15-500	2.6	245	OTM3-100	18
ZOTM3/125	126.3	16	243	15-400	2.6	245	OTM3-125	18
ZOTM4/160	158.8	16	307	15-500	2.6	590	OTM4-160	37
ZOTM4/200	200.8	16	387	12-400	2.6	824	OTM4-200	37
ZOTM4/250	252.2	16	513	12-320	2.6	824	OTM4-250	37
ZOTM4/320	317.5	16	613	10-250	2.6	824	OTM4-320	37
ZOTM4/400	401.6	12.5	685	10-200	2.6	824	OTM4-400	38
ZOTM5/400	399.7	16	770	10-250	2.6	824	OTM5-400	46
ZOTM5/500	496.6	16	960	10-200	2.6	1060	OTM5-500	46
ZOTM5/630	617.8	13	983	10-160	2.6	1060	OTM5-630	46
ZOTM5B/630	617.8	16	1250	30-200	3.0	1450	OTM5-630	55
ZOTM5B/800	787.4	16	1600	30-150	3.0	1680	OTM5-800	55
ZOTM6B/125	0 1186.8	16	2250	20-110	3.6	2330	OTM6-1250	70

■ ORDERING CODE



- 1. Orbit hydraulic motor with braker 2. Series 3. Displacement
- 4. Installation dimension: F- Vertical front flange
- 5. Standard spline key B- Standard flat key
- 6. Inner hydraulic control system (see page 121)
- 7. ports

■ ZOTM * / -F-H-K1Y Installation



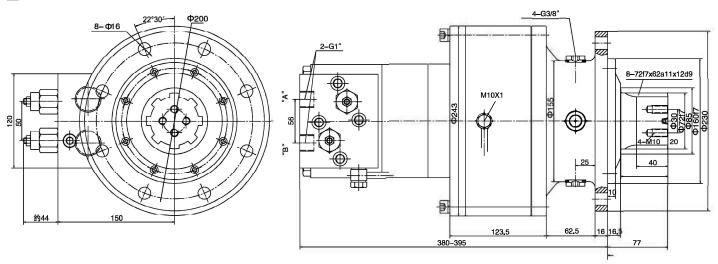


ZOTM Hydraulic motor with brake

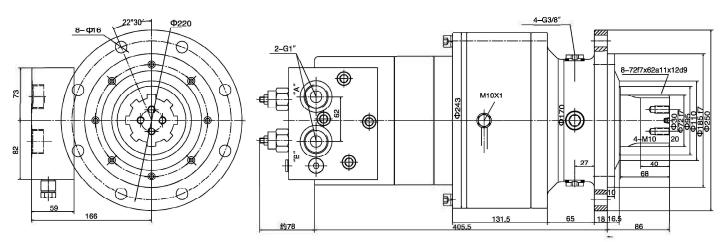
■ ZOTM DIMENSIONS

Туре	Shape a	and junc	tion	Flange ar	nd mou	nting	face size				Output	shaft s	ize		
i i	L	_5 L6	6 P	D D1	B1xB1	1 L1	hxt	L7	Туре	d	L2	L3	L4	В	Н
								10.5 10	В Туре	Ф32f7	62.5	54	45	10h9	35
ZOTM 3/80-125	189-230	32 2	2 G1/2	″ Ф100f7Ф132	2 124	6.5	4хФ10.5	16		Ф30f7	50	43.5	30	9	*
									H Type		6-30f7	x25b12	x6d10	4 B H 5 10h9 35 0 d10 0 12h9 43 0 d10 5 12h9 43 5 d12c10	
									В Туре Ф40f7	75	58	50	12h9	43	
ZOOTM 4/160-4	00 249-28	35 402	3 G3/4	″ Ф125f7Ф200	178	15	4хФ17	18.5	Н Туре	Ф38f7	75	58	40	9.7(1)	5
										8-38f7x30b12x6d10					
									В Туре	Ф40f7	73.5	55	45	12h9	43
										Φ45f7	98	77.5	55		9
ZOTM 5/400-630	271-300	50 2	4 G1″	Φ160f7Φ200	178	16.5	4хФ17	19	H Type		6-45f7	x38.2b	12x12	c10	
								К Туре		ExT	17zx2.5	5mx30)p		

■ ZOTM5B/630-800-F-H-K3Y Installation



■ ZOTM6B/1250-F-H-K3Y2 Installation



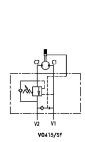


Hydraulic components

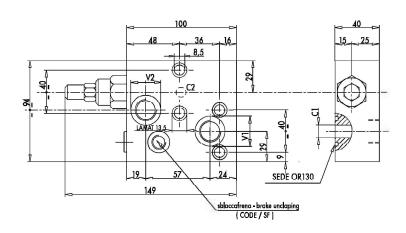
OVERCENTRE VALVES FLANGEABLE ON DANFOSS MOTORS OMP/OMR

TYPE VTCDF SE OMP/OMR





SE

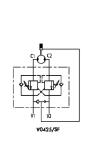


Art.	Туре	Pilot radio	Max flow Lt./min	Max pres- sure Bar	V1-V2 Gas	C1-C2	Weight Kg
MQ248030	VTCDF 1/2" SE OMP-OMR	1:4,5	50	350	G 1/2"	Ø 9	2,686
MQ248031	VTCDF 1/2" SE OMP-OMR SF	1:4,5	50	350	G 1/2"	Ø 9	2,686

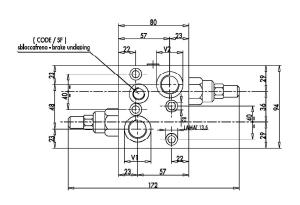
On request: VTCDF/SF-DE - With brake release port - Face mounting - Material: steel

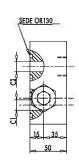
TYPE VTCDF DE OMP/OMR





DE





,	Art.	Туре	Pilot radio	Max flo₩ Lt./min	Max pres- sure Bar	V1-V2 Gas	C1-C2	Weight Kg
MQ2	248032	VTCDF 1/2" DE OMP-OMR	1:4,5	50	350	G 1/2"	Ø9	2,708
MQ2	248033	VTCDF 1/2" DE OMP-OMR SF	1:4,5	50	350	G 1/2"	Ø 9	2,708

On request: VTCDF/SF-DE - With brake release port - Face mounting - Material: steel

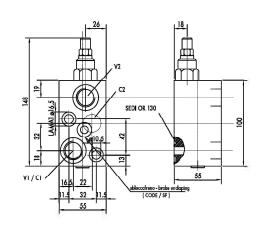


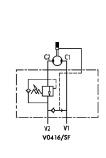
Hydraulic components

OVERCENTRE VALVES FLANGEABLE ON DANFOSS MOTORS OMS

TYPE VBCDF SE OMS







SE

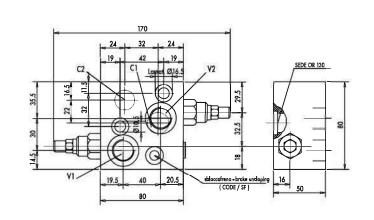
Art.	Туре	Pilot radio	Max flo₩ Lt./min	Max pres- sure Bar	V1-V2 Gas	C1-C2	Weight Kg
MQ248034	VTCDF 1/2" SE OMS	1:4,5	50	350	G 1/2"	Ø9	1,700
MQ248035	VTCDF 1/2" SE OMS SF	1:4,5	50	350	G 1/2"	Ø 9	1,700

On request: VTCDF/SF-SE - With brake release port - Face mounting - Material: steel

TYPE VTCDF DE OMS

DE





Art.	Туре	Pilot radio	Max flow Lt./min	Max pres- sure Bar	V1-V2 Gas	C1-C2	Weight Kg
MQ248036	VTCDF 1/2" DE OMS	1:4,5	50	350	G 1/2"	Ø9	2,150
MO248037	VTCDE 1/2" DE OMS SE	1:45	50	350	G 1/2"	Ø9	2 150

On request: VBCDF/SF-SE - With brake release port - Face mounting - Material: steel



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