

BMER Series

Hydraulic Motor
Displacement: 125-750 cm³/rev
Max. Flow up to 95 L/min



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Introduction

BMER series motor adapt the advanced Geroler gear set designed with high speed distribution flow and high pressure, and have good stability in low speed , and can keep high volume efficiency. The unit can be supplied the individual variant in operating multifunction in accordance with requirement of applications.

Characteristic features:

- Advanced manufacturing devices for the Geroler gear set, which use low pressure of start-up, provide smooth and reliable operation and high efficiency.
- The output shaft adapts in needle roller bearings that permit high axial and radial forces.
- The case can offers capacities of high pressure and high torque in the wide of applications.
- Advanced design in high speed distribution flow, which can automatically compensate in operating with high volume efficiency and long life , provide smooth and reliable operation.
- Lowest leakage rate, most accurate timing methods. Commutator rotates 6x faster than shaft speed. It make the distribution in a high precision reduces life-cycle cost, maintain high volume efficiencies and can run very smoothly at low speed, gear box not required.

Specifications

Type		125	160	200	230	250	300	350	375	400	475	540	650	750
Displacement cm ³ /rev		118	156	196	228	257	296	345	371	405	462	540	647	745
Max. Speed (rpm)	Cont.	360	375	330	290	290	250	220	200	185	160	140	115	100
	Int.	490	470	425	365	350	315	270	240	220	195	170	138	120
Max. Torque (Nm)	Cont.	325	450	530	625	700	810	905	990	1010	1085	980	1015	1050
	Int.	380	525	600	710	790	930	1035	1140	1180	1180	1240	1250	1180
	Peak	450	590	750	870	980	1120	1285	1360	1360	1260	1380	1380	1370
Max. Output (kW)	Cont.	12.0	15.0	15.5	16.0	17.5	18.0	17.5	16.5	15.5	14.5	11.5	10.0	8.0
	Int.	14.0	17.5	18.0	19.0	20.0	21.0	20.0	19.0	18.0	16.5	15.0	12.0	10.0
Max. Pressure Drop (MPa)	Cont.	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	19	17.5	14	12	10.5
	Int.	24	24	24	24	24	24	24	24	22.5	19	17.5	15.5	12
	Peak	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	25	20.5	20.5	17.5	14
Max. Flow (L/min)	Cont.	45	60	70	70	75	80	80	75	75	75	75	75	75
	Int.	60	75	85	85	90	95	95	90	90	90	90	90	90

*Continuous pressure:Max.value of operating motor continuously.

*Intermittent pressure:Max.value of operating motor in 6 seconds per minute .

*Peak pressure:Max.value of operating motor in 0.6 second per minute.



Performance Data

BMER125 [118cm³/rev.]

Pressure (MPa)

Max.cont. Max.int.

	1.75	3.5	7	10.5	14	17.5	20.5	24
2	20 14	50 13	96 11	137 7				
4	24 28	53 26	110 24	166 19	221 13			
8		55 60	113 54	174 50	225 45	266 39	294 35	336 26
15		53 115	114 110	180 100	234 96	275 90	326 84	348 76
25		48 194	110 185	164 173	226 168	272 160	323 155	352 149
34			108 276	166 260	220 244	278 232	315 225	373 217
45			98 362	160 350	215 342	271 325	308 322	369 303
Max.cont. 53			90 423	152 418	208 404	265 399	304 371	
Max.int. 60			82 488	141 472	205 455	260 442	300 421	

BMER160 [156cm³/rev.]

Pressure (MPa)

Max.cont. Max.int.

	1.75	3.5	7	10.5	14	17.5	20.5	24
2	35 8	74 4	146 3	218 3	298 2			
4	29 22	78 19	157 18	235 16	316 14	370 13	424 8	
8	35 47	78 44	158 42	236 40	312 37	373 34	450 32	526 27
15	37 93	74 90	155 86	234 84	310 82	368 79	440 75	517 69
25		68 155	152 151	227 147	308 142	364 137	436 131	499 124
34		68 214	152 213	227 210	308 204	364 198	436 191	499 184
45		64 282	143 280	218 275	296 268	360 263	425 256	481 245
53			135 330	216 327	293 322	357 315	421 306	476 296
Max.cont. 60			122 379	207 376	284 368	350 362	416 356	467 345
68			109 423	196 419	273 414	345 406	156 345	
Max.int. 75			104 472	188 466	270 270	337 450	156 337	

BMER200 [196cm³/rev.]

Pressure (MPa)

Max.cont. Max.int.

	1.75	3.5	7	10.5	14	17.5	20.5	24
2	39 8	88 4	132 4	286 3	370 2			
4	42 16	85 14	188 13	270 11	361 10	427 9	506 6	
8	43 35	90 32	192 29	291 28	367 27	450 25	529 23	600 19
15	38 74	92 71	196 68	298 64	381 60	462 58	530 55	602 50
25		82 124	188 121	283 117	377 113	456 108	528 103	605 92
34		79 170	183 169	270 167	362 160	447 154	515 146	591 135
45			163 223	259 218	352 212	441 208	510 199	593 189
53			149 260	256 258	350 254	440 248	501 241	582 230
60			132 299	248 292	336 284	432 276	497 272	575 263
Max.cont. 68			120 336	230 332	330 327	412 319	486 310	570 301
75			108 375	208 372	311 365	403 358	480 350	
Max.int. 85				184 425	280 420	380 411	462 390	

BMER230 [228cm³/rev.]

Pressure (MPa)

Max.cont. Max.int.

	1.75	3.5	7	10.5	14	17.5	20.5	24
2	44 6	90 4	182 3	291 2	374 1			
4	48 15	100 13	216 11	310 11	405 9	484 7	549 3	
8	50 31	104 29	212 27	320 25	421 23	518 20	603 16	700 10
15	44 63	106 61	207 58	318 55	426 52	529 47	623 41	712 34
25		101 103	209 100	324 96	428 92	532 87	620 81	705 71
34		88 145	205 143	316 139	421 133	522 126	623 120	702 109
45			186 192	294 187	422 182	507 176	595 170	688 160
53			175 226	290 221	393 215	496 208	584 203	678 194
60			152 256	270 253	390 248	485 242	569 235	661 222
Max.cont. 68			140 292	265 288	351 283	482 278	563 273	642 256
75			124 324	235 321	344 316	448 308	552 300	
Max.int. 85				207 366	335 360	442 351	546 338	

Torque (N·m) 380
Speed (rpm) 411

cont.
int.



Performance Data

BMER250 [257cm³/rev.]

Pressure (MPa)

	1.75	3.5	7	10.5	14	17.5	20.5	24
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Flow (L/min)	2	48 5	111 2					
	4	54 12	113 11	237 10	362 9	471 8	570 6	642 3
	8	54 27	115 26	244 24	366 22	482 20	587 18	688 14
	15	50 57	113 56	256 54	367 51	485 48	591 45	692 43
	25	44 95	114 93	241 90	360 86	488 82	593 77	699 72
	34		95 129	226 125	348 121	481 116	590 111	686 106
	45		77 174	215 173	346 170	468 166	572 161	674 155
	53		66 203	200 202	325 200	448 196	564 190	657 184
	60			180 232	296 229	438 225	550 220	642 215
	68			162 262	294 261	415 257	548 250	637 241
Max.cont.	75			137 290	274 289	388 285	520 280	618 273
Max.int.	85			130 328	261 326	370 322	509 316	604 307
	90			85 348	224 347	358 344	490 336	

BMER300 [296cm³/rev.]

Pressure (MPa)

	1.75	3.5	7	10.5	14	17.5	20.5	24
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Flow (L/min)	2	50 3	93 1					
	4	62 11	141 10	294 9	429 8	502 7	618 4	
	8	63 22	147 21	298 20	432 19	565 16	667 13	761 9
	15	66 48	144 47	305 45	427 43	568 39	671 33	810 28
	25	59 82	138 81	289 80	420 76	552 71	676 64	791 56
	34	48 113	130 112	297 110	393 107	562 102	689 96	805 86
	45		96 150	268 149	385 148	527 143	636 135	753 124
	53		76 177	242 176	383 175	524 173	631 165	758 152
	60		64 200	225 199	362 198	506 193	627 186	753 174
	68			200 225	333 224	470 222	630 212	750 201
Max.cont.	75			178 251	322 250	464 247	610 240	741 232
Max.int.	85			140 285	316 284	455 278	570 270	728 257
	95			106 316	260 314	431 311	552 307	700 292

BMER350 [345cm³/rev.]

Pressure (MPa)

	1.75	3.5	7	10.5	14	17.5	20.5	24
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Flow (L/min)	2	63 4	133 4					
	4	64 10	135 9	290 8	440 7			
	8	68 21	146 20	310 20	458 19	589 18	735 16	847 12
	15	72 42	150 41	314 40	468 39	627 37	769 35	880 32
	25	63 70	148 69	313 68	470 66	628 63	765 60	892 55
	34	52 97	133 96	304 95	455 93	619 89	760 85	905 78
	45		100 129	261 128	442 127	583 125	736 118	887 112
	53		85 152	247 150	418 148	566 145	715 139	880 132
	60		65 171	233 170	410 169	550 167	712 162	842 155
	68			218 195	387 194	543 190	696 185	825 175
Max.cont.	75			206 215	373 214	515 212	680 206	822 197
Max.int.	85			176 243	355 242	510 239	679 234	808 227
	95				353 272	509 269	645 265	

BMER375 [371cm³/rev.]

Pressure (MPa)

	1.75	3.5	7	10.5	14	17.5	20.5	24
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Flow (L/min)	2	75 3						
	4	83 8	160 8	330 7	488 6	636 5	761 3	
	8	81 18	170 17	356 17	527 16	679 14	822 12	948 9
	15	76 39	162 38	356 37	533 35	683 32	845 29	978 25
	25	68 65	156 64	350 62	524 59	680 55	857 48	994 44
	34	58 90	148 89	339 87	506 83	690 77	841 71	993 63
	45		121 120	302 119	478 117	650 113	813 108	972 100
	53		95 141	282 140	466 138	628 134	785 128	934 120
	60		75 161	264 160	428 160	592 158	766 155	925 151
	68			232 182	422 180	585 176	756 169	901 161
Max.cont.	75			207 201	380 200	556 197	738 190	865 181
Max.int.	85			175 228	370 226	526 221	700 216	832 206
	90			148 242	316 240	450 237	654 226	

Torque (N·m) 645
Speed (rpm) 265

cont.
int.



Performance Data

BMER400 [405cm³/rev.]

Pressure (MPa)

Pressure (MPa)					Max.cont.	Peak	
1.75	3.5	7	10.5	14	17.5	19	22.5

Flow (L/min)	2	4	8	15	25	34	45	53	60	68	75	85	90
	85 3	170 2											
	90	182	368	540	715	885							
	8	7	6	5	4	3							
	93	190	385	575	750	895	950	1155					
	17	16	15	14.4	13	10	9	7					
	88	180	380	575	750	905	980	1165					
	36	35	34	33	31	28	24	20					
	88	180	380	575	750	915	1010	1165					
	60	59	58	56	53	49	44	40					
	75	165	365	560	750	915	1000	1180					
	83	83	82	81	77	72	68	60					
		150	350	545	735	900	980	1165					
		110	110	109	106	102	94	86					
		125	330	525	720	885	960	1150					
		130	129	128	125	120	112	100					
		100	305	505	680	860	940	1125					
		147	147	146	145	142	138	130					
			275	480	660	845	925	1100					
			167	167	164	158	150	140					
			250	455	635	820	900	1065					
			184	183	180	176	170	158					
			225	415	600	785	865						
			209	208	206	202	194						
			160	365	575	770							
			220	218	216	210							

BMER475 [462cm³/rev.]

Pressure (MPa)

	1.75	3.5	7	10.5	14	Max.cont.	Peak
	1.75	3.5	7	10.5	14	17.5	20.5

Flow (L/min)	2	4	8	15	25	34	45	53	60	68	75	85	90
	93 2	186 1											
	98	202	405	608	805								
	7	6	5	5	4								
	98	206	430	652	844	1005	1180						
	15	14	13	13	12	10	8						
	94	202	441	654	875	1056	1238						
	31	30	28	28	26	23	20						
	94	202	441	654	875	1056	1238						
	52	51	48	45	43	39	35						
	75	180	420	660	850	1085	1266						
	72	71	68	65	61	55	44						
		144	380	627	835	1062	1261						
		96	95	93	90	84	73						
		116	346	573	795	1008	1212						
		113	112	111	107	102	90						
		82	318	539	790	975	1186						
		128	128	127	124	119	110						
		58	272	520	740	955	1156						
		146	145	144	141	136	125						
			230	480	702	920	1116						
			161	160	158	153	140						
			200	454	662	876							
			182	180	177	168							
			150	378	615	840							
			194	193	190	182							

BMER540 [540cm³/rev.]

Pressure (MPa)

	1.75	3.5	7	10.5	14	Max.cont.	Max.int.
	1.75	3.5	7	10.5	14	17.5	

Flow (L/min)	2	4	8	15	25	34	45	53	60	68	75	85	90
	105 2	198 2											
	125	231	470	688	932	1136							
	6	5	5	4	4	3							
	134	238	496	749	966	1175							
	13	13	12	11	11	8							
	122	230	505	750	981	1218							
	27	26	26	25	24	21							
	100	225	500	774	986	1220							
	44	43	42	41	39	35							
	80	212	481	748	977	1243							
	62	61	60	58	54	49							
		173	437	714	936	1190							
		82	82	81	79	75							
		142	416	678	938	1170							
		97	97	96	94	89							
		106	380	664	896	1158							
		110	110	109	108	106							
		85	357	616	870	1108							
		125	124	124	123	120							
			318	600	826	1100							
			138	137	135	132							
			292	538	780								
			154	153	152								
			214	486	755								
			169	168	168								

Torque (N·m) 486
Speed (rpm) 168

BMER650 [647cm³/rev.]

Pressure (MPa)

	1.75	3.5	7	10.5	12	Peak
	1.75	3.5	7	10.5	12	15.5

Flow (L/min)	2	4	8	15	25	34	45	53	60	68	75	83	90
	119 2	230 1											
	135	268	552	805	940								
	5	5	4	4	3								
	145	285	574	825	955	1255							
	11	11	10	10	9	7							
	140	280	595	875	982	1276							
	22	22	21	21	20	16							
	130	275	590	886	1005	1302							
	37	36	36	35	34	30							
	115	260	580	890	1015	1310							
	51	51	50	49	47	44							
		235	555	870	995	1280							
		69	68	67	66	63							
		200	520	850	975	1250							
		80	80	79	78	76							
		170	490	825	935	1215							
		91	91	90	89	88							
		145	430	775	880	1185							
		104	103	102	101	99							
			420	730	855	1130							
			114	113	112	110							
			380	660	795								
			130	129	128								
			290	585	730								
			138	137	136								

BMER750 [745cm³/rev.]

Pressure (MPa)

	1.75	3.5	7	10.5	12	Peak
	1.75	3.5	7	10.5	12	14

Flow (L/min)	2	145 2	280 1					
	4	160 4	321 4	654 4	960 3	1115 3	1312 2	
	8	162 9	335 9	688 9	1026 8	1159 8	1347 7	
	15	156 19	330 19	694 18	1047 18	1184 17	1376 16	
	25	142 32	320 31	688 30	1046 30	1179 29	1373 27	
	34	110 44	288 44	658 42	1021 41	1169 40	1366 37	
	45	71 60	242 59	620 59	982 58	1143 58	1345 55	
	53		202 70	568 69	941 68	1105 67	1308 66	
	60		140 79	527 78	898 77	1086 76	1286 74	
	68		100 90	486 90	852 89	1034 88	1251 87	
	75		65 99	425 99	812 98	980 97	1178 96	
	Max.int.	83			395 110	745 109	906 108	
		90			298 120	660 119	800 117	



BMER-2 Dimensions Mounting data

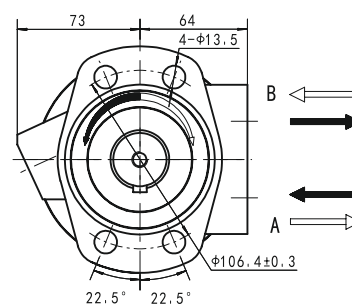
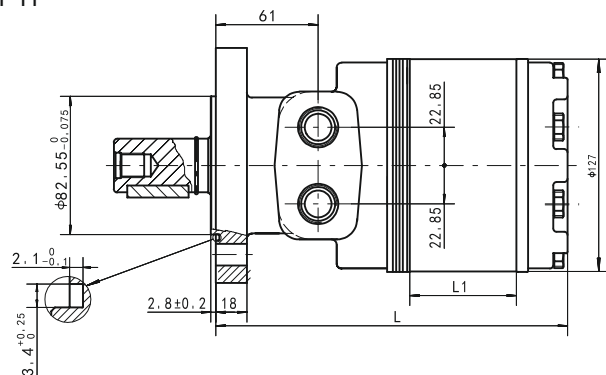
Magneto Mount 4-Hole

Code: Port A B

MS 7/8-14UNF

MP 1/2-14NPTF

MD G1/2



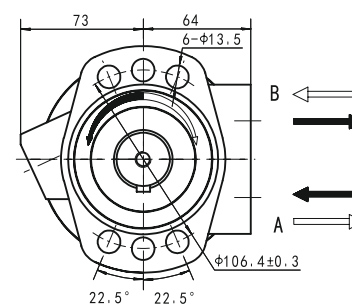
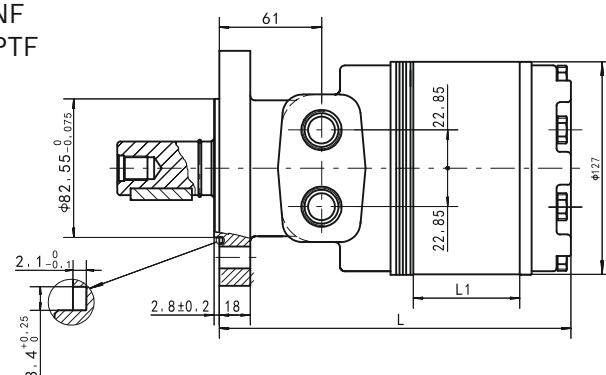
Magneto Mount 6-Hole

Code: Port A, B

FS 7/8-14UNF

FP 1/2-14NPTF

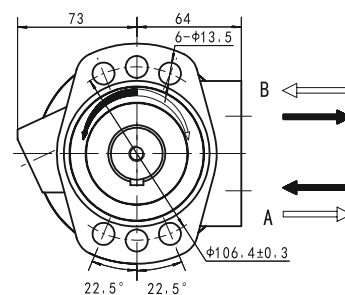
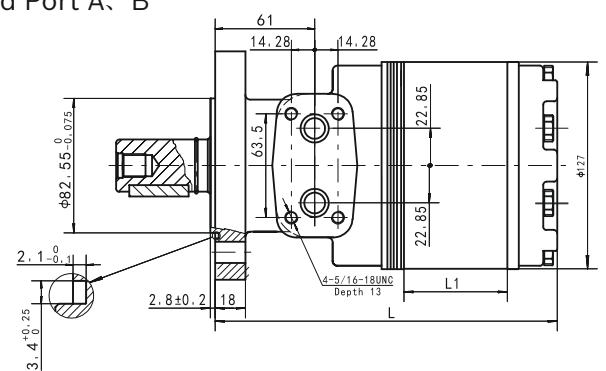
FD G1/2



Magneto Mount 6-Hole

Code: Manifold Port A, B

FH Ø12.7

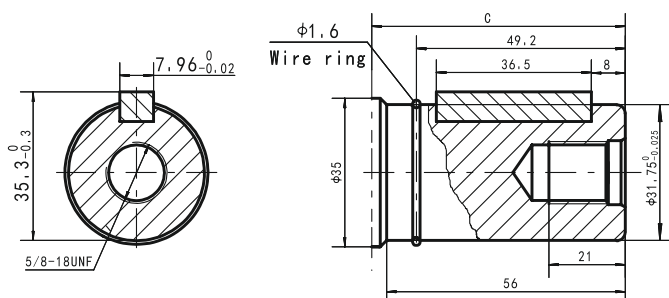


Displacement (cm ³ /rev.)	125	160	200	230	250	300	350	375	400	475	540	650	750
L1(mm)	10.2	13.5	17	19.5	22	25.4	29.5	31.8	35.5	39.4	47.3	57	63.5
L(mm)	157	160	163.5	166	168.5	172	176	178.5	182	186	194	204	210
Weight(kg)	10.6	10.9	11.2	11.3	11.4	11.6	12	12.5	12.7	13	13.5	14.5	15



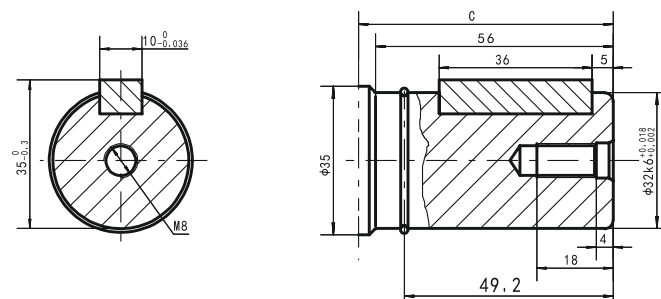
BMER-2 Shaft Extensions Dimensions data

Shaft G2



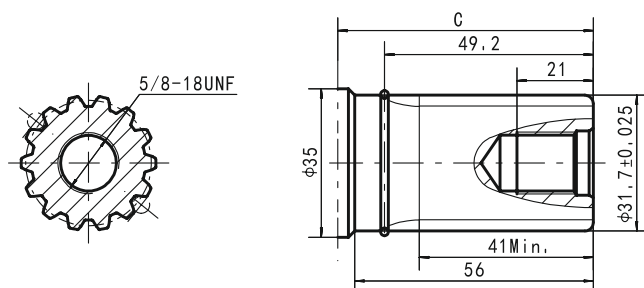
Shaft G2: Cylindrical shaft $\varnothing 31.75$
Parallel key 7.96x7x36.5

Shaft B1



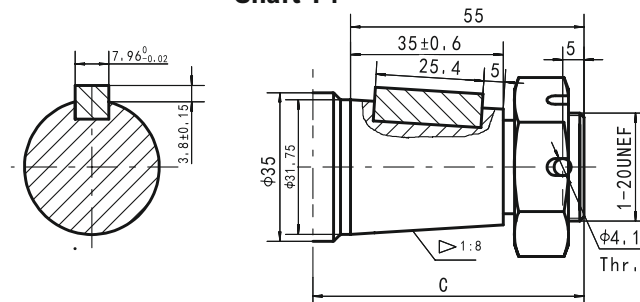
Shaft B1: Cylindrical shaft $\varnothing 32$
Parallel key 10x8x36

Shaft FD1



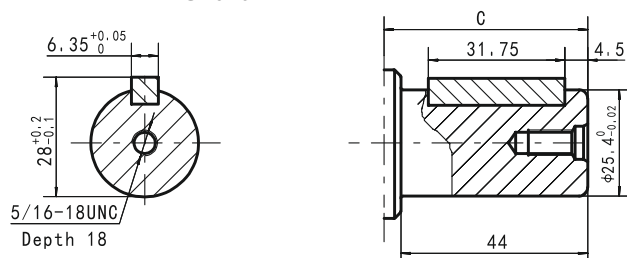
Shaft FD1: Splined 14-DP12/24
Flat root side fit
to fit ANSI B92.1 1996

Shaft T4



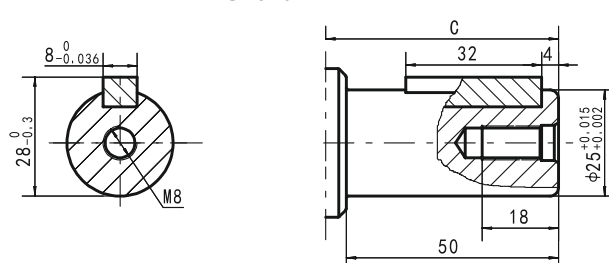
Shaft T4: Cone-shaft $\varnothing 31.75$
Parallel key 7.96x7.96x25.4
Tightening torque: 200±10Nm

Shaft RW



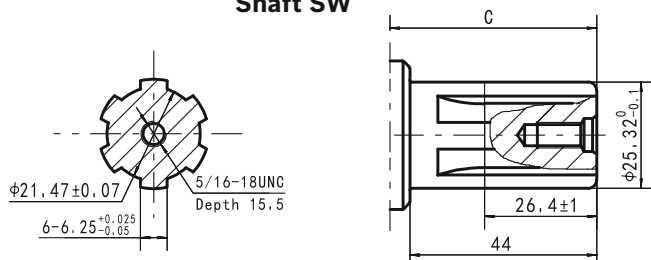
Shaft RW: Cylindrical shaft $\varnothing 25.5$
Parallel key 6.35x6.35x31.75

Shaft AW



Shaft AW: Cylindrical shaft $\varnothing 25$
Parallel key 8x7x32

Shaft SW



Shaft SW: Splined SAE 6B

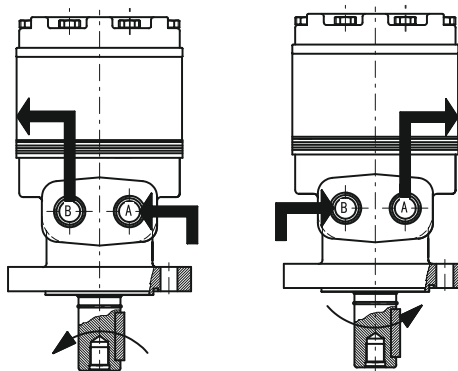
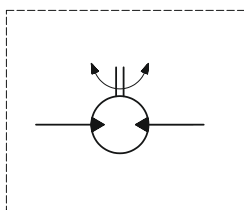
From Mounting Flange to Shaft End		
Dimension C		
Shaft Code	MagnetoMount (mm)	WheelMount (mm)
G2	61	103
B1	61	103
FD1	61	103
T4	65	107
RW	50	91
AW	56	97
SW	50	91

BMER-2 can be configured $\varnothing 38.1$ shaft seal. Shaft type T31 and M1 and G32. Please consult the sales manager.

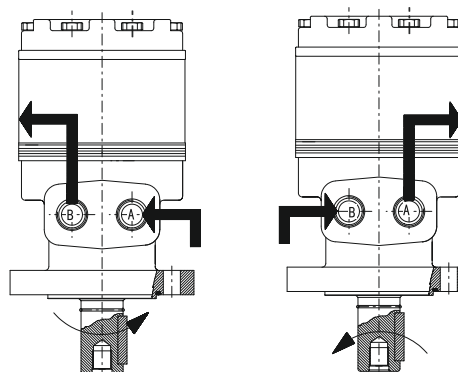


BMER-2 Series Hydraulic motor

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

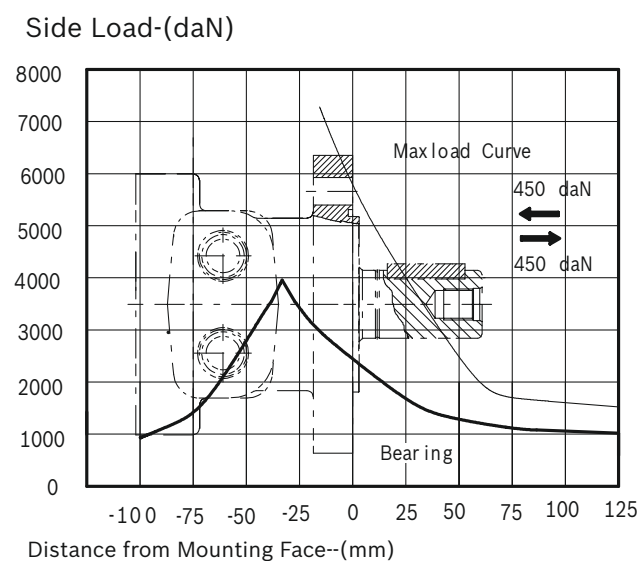


Direction of shaft rotation: Standard
When facing shaft end of motor, shaft to rotate:
Clockwise when port "A" is pressurized.
Counter-clockwise when port "B" is pressurized.

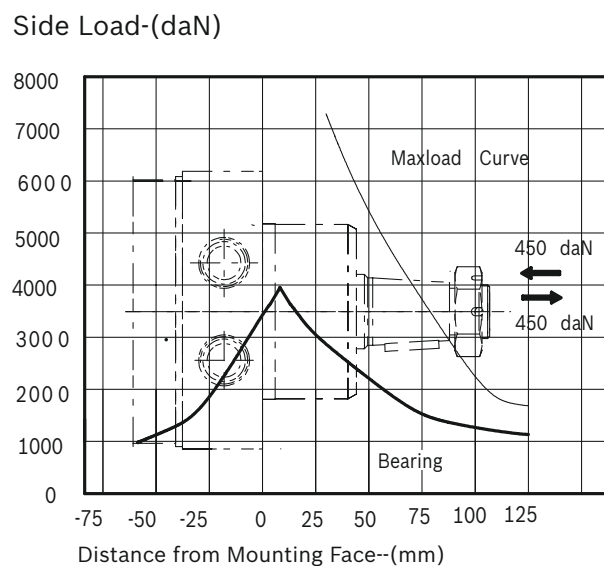


Axial and Radial Forces

BMER-2 or M#/F# Mounting



BMER-2 for W# Mounting



The bearing curve represents allowable bearing loads for an L_{10} bearing life at 12×10^6 revolutions. The maximum load curve is defined by bearing static load capacity. This curve should not be exceeded at any time including shock loads.



Ordering code Description

1 2 3 4 5 6 7

BMER-

Pos.1	2	3	4	5	6	7
Code	Disp.	Flange , Pilot , Ports	Output Shaft	Rotation direction	Paint	Unusually function
2	125	MS 4-Ø13.5 Magneto Mount,Pilot Ø82.55×2.8, Ports 7/8-14 O-ring	G2 Shaft Ø31.75 , parallel key 7.96×7×36.5	None	00	No paint
	160	MP 4-Ø13.5 Magneto Mount,Pilot Ø82.55×2.8, Ports 1/2-14NPTF	B1 Shaft Ø32, Parallel key 10×8×45			
	200	MD 4-Ø13.5 Magneto Mount,Pilot Ø82.55×2.8, Ports G1/2	FD1 Shaft Ø31.75, splined key 14-DP12/24	R	None	None
	230	FS 6-Ø13.5 Magneto Mount,Pilot Ø82.55×2.8, Ports 7/8-14 O-ring	T4 Cone-Shaft Ø31.75, Parallel key 7.96×7.96×25.4			
	250	FP 6-Ø13.5 Magneto Mount,Pilot Ø82.55×2.8, Ports 1/2-14NPTF	RW Shaft Ø25.4 , parallel key 6.35×6.35×31.75	Standard	B	Standard
	300	FD 6-Ø13.5 Magneto Mount,Pilot Ø82.55×2.8, Ports G1/2	AW Shaft Ø25 , parallel key 8×7×32			
	350	FD 6-Ø13.5 Magneto Mount,Pilot Ø82.55×2.8, Ports G1/2	SW Shaft Ø25.4 ,splined key SAE 6B	Reverse	S	Sliver Grey
	375	FH 6-Ø13.5 Magneto Mount,Pilot Ø82.55×2.8, Manifold Ports 1/2				
	400	WS 4-Ø13.5 Wheel Mount, Pilot Ø82.55×5, Ports 7/8-14 O-ring	M1 Shaft Ø35, Parallel key 10×8×45	Timed		
	475	WP 4-Ø13.5 Wheel Mount, Pilot Ø82.55×5, Ports 1/2-14NPTF	T31 Cone-Shaft Ø38.1, Parallel key 7.96×7×36.5			
	540	WD 4-Ø13.5 Wheel Mount, Pilot Ø82.55×5, Ports G1/2	G32 Shaft Ø38.1, parallel key 9.525×9.525×42			
	650	TS 4-Ø13.5 Wheel Mount,Pilot Ø82.55×5, Ports 7/8-14 O-ring				
	750	TP 4-Ø13.5 Wheel Mount, Pilot Ø82.55×5, Ports 1/2-14NPTF				
		TD 4-Ø13.5 Wheel Mount, Pilot Ø82.55×5, Ports G1/2				

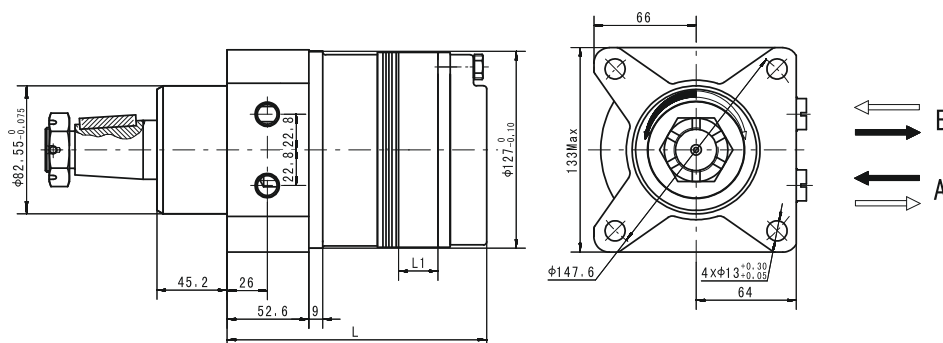
Note: When the table is used, please fill the code of left rows in dash area and give us, which the code information is consists of construction, displacement, mounting flange, output shaft and ports. If the specification is not in the table or you have specific requirements, please contact us.

BMER-2 Motor The dimensions 44.2 is replaced by 45.7 with shaft M1 T31 G32 of Ø38.1 shaft seal in flange w# and T#.



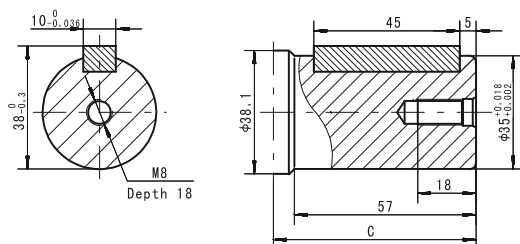
BMER-3 Dimensions Mounting data

Wheel Mount
Code: Port A, B
WS 7/8-14UNF
WP 1/2-14NPTF
WD G1/2



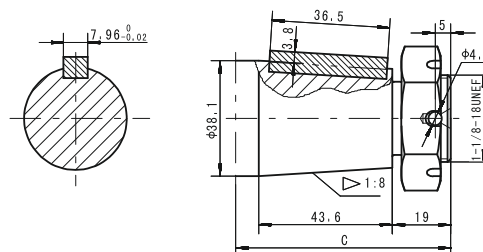
Displacement (cm ³ /rev)	125	160	200	230	250	300	350	375	400	475	540	650	750
L1(mm)	10.2	13.5	17	19.5	22	25.4	29.5	31.8	35.5	39.4	47.3	57	63.5
L(mm)	153	156	159.5	162	164.5	168	172	174.5	178	182	190	199.5	206
Weight(kg)	13.2	13.5	13.8	14	14.2	14.5	14.9	15.2	15.5	15.7	16.5	17.3	17.8

Shaft M31



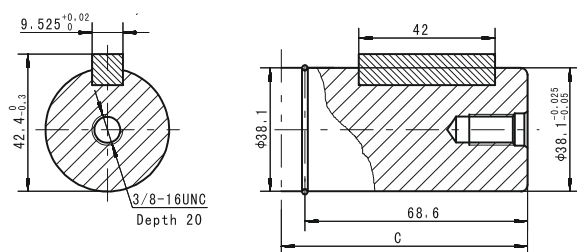
Shaft M31:Cylindrical shaft $\phi 35$
Parallel key 10x8x45

Shaft T31



Shaft T31:Cone-shaft $\phi 38.1$
Parallel key 7.96x7x36.5
Tightening torque:410~510Nm

Shaft G31



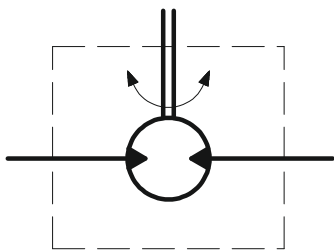
Shaft G31:Cylindrical shaft $\phi 38.1$
Parallel key 9.525x9.525x42

From Mounting Flange to Shaft End		
Dimension C		
Shaft Code	Magneto Mount (mm)	Wheel Mount (mm)
M31	—	105
T31	—	117
G31	—	119

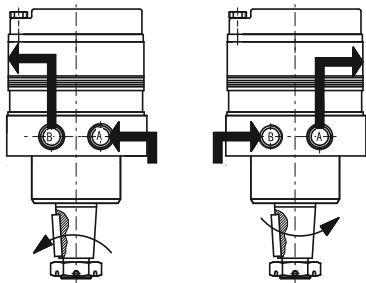


BMER-3 Hydraulic Motor

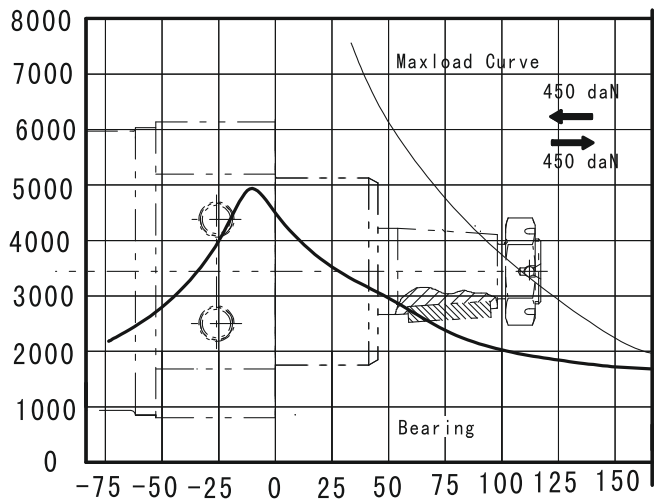
BMER-3 Ordering details



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



BMER-3 for W# Mounting
Side Load-(daN)



The bearing curve represents allowable bearing loads for an L10 bearing life at 12X10⁶ revolutions.
The maximum load curve is defined by bearing static load capacity.
This curve should not be exceeded at any time including shock loads.

1

F

2

3

4

5

6

7

Pos.1	2	3	4	5	6	7
Code	Disp.	Mo nt Flange, Pilot, Pd	Output Shaft	Rotation direction	Paint	Unusually function
3	125	WS 4-ø13.5 Wheel Mount, Pilot ø82.55, Ports 7/8-14 O-ring WP 4-ø13.5 Wheel Mount, Pilot ø82.55, Ports 1/2-14NPTF WD 4-ø13.5 Wheel Mount, Pilot ø82.55, Ports G1/2	M31 Shaftø35, Parallel key 10×8×45 T31 Cone-Shaftø38.1, Parallel key 7.96×7×36.5 G31 Shaftø38.1 , parllel key 9.525×9.525×42	None	No paint Blue Black Sliver Grey	None Standard
	160			R		
	200			Standard		
	230			Reverse timed		
	250					
	300					
	350					
	375					
	400					
	475					
	540					
	650					
	750					

Note: When the table is used, please fill the code of left rows in dash area and give us, which the code information is consists of construction,displacement, mounting flange, output shaft and ports. If the specification is not in the table or you have specific requirements, please contact us.



BMER-4 Dimensions Mounting data

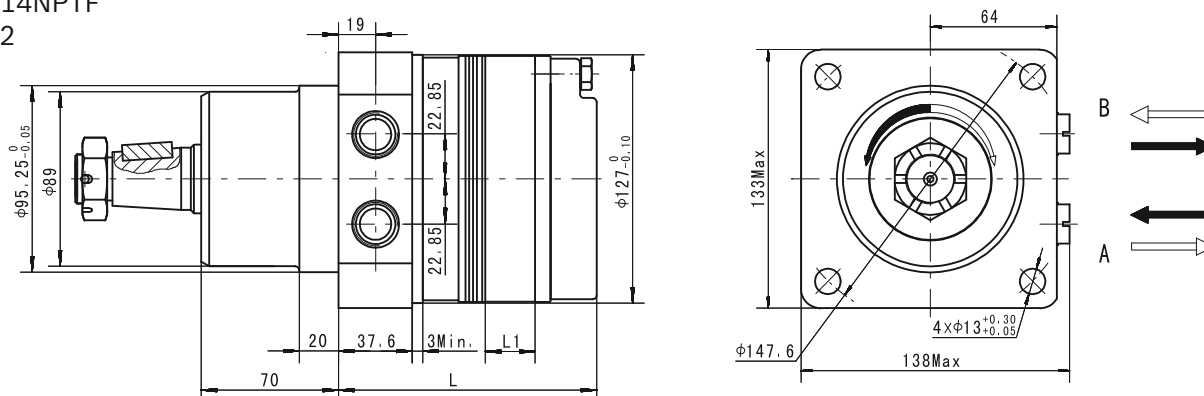
Wheel Mount

Code: Port A, B

WS 7/8-14UNF

WP 1/2-14NPTF

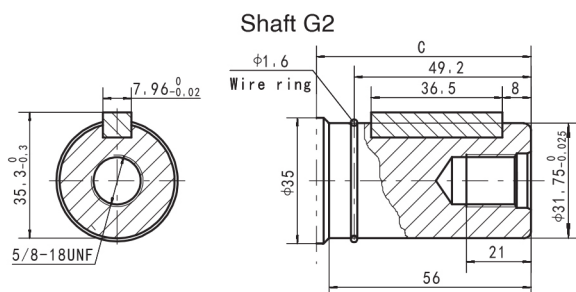
WD G1/2



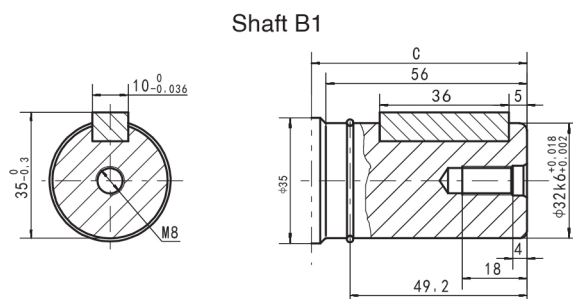
Displacement (cm ³ /rev)	125	160	200	230	250	300	350	375	400	475	540	650	750
L1(mm)	10.2	13.5	17	19.5	22	25.4	29.5	31.8	35.5	39.4	47.3	57	63.5
L(mm)	119	122	125.5	128	130.5	134.5	138	140.5	144.5	148	156	165.5	172
Weight(kg)	12.8	13.1	13.4	13.6	13.8	14.1	14.5	14.8	15.2	15.6	16.1	16.9	17.4



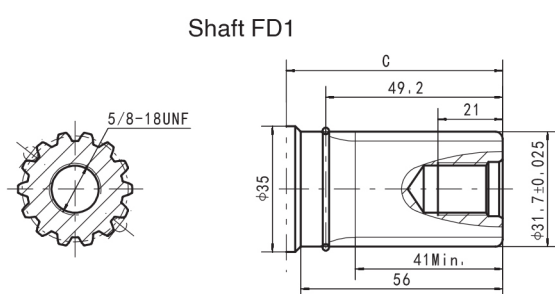
BMER-4 Shaft Extension Dimensions data



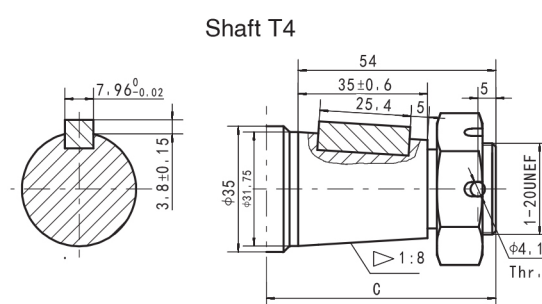
Shaft G2: Cylindrical shaft $\varnothing 31.75$
Parallel key 7x96x7x36x5



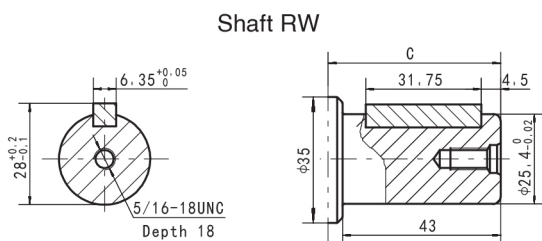
Shaft B1: Cylindrical shaft $\varnothing 32$
Parallel key 10x8x36



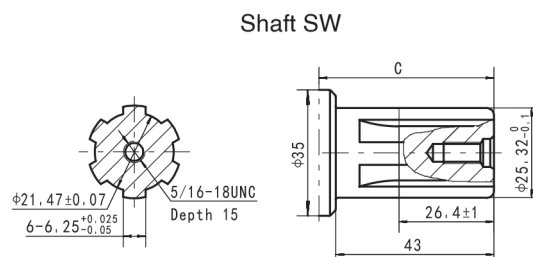
Shaft FD1: Splined 14-DP12/24
Flat root side fit
to fit ANSI B92.1 1996



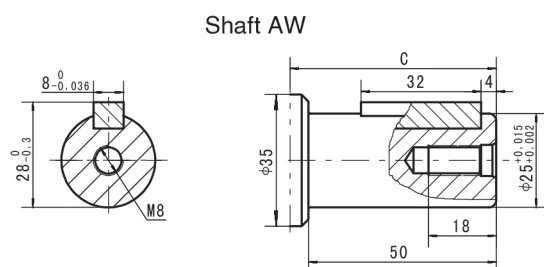
Shaft T4: Cone-shaft $\varnothing 31.75$
Parallel key 7.96x7.96x25.4
Tightening torque: 200±10Nm



Shaft RW: Cylindrical shaft $\varnothing 25.4$
Parallel key 6.35x6.35x31.75



Shaft SW: Splined SAE 6B



Shaft AW: Cylindrical shaft $\varnothing 25$
Parallel key 8x7x32

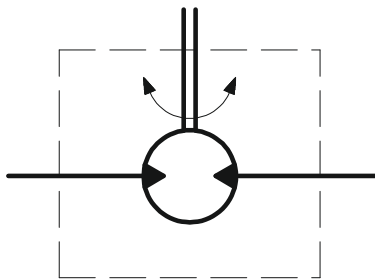
From Mounting Flange to Shaft End	
Dimension C	
Shaft Code	Wheel Mount (mm)
G2	131
B1	130
FD1	131
T4	135
RW	119
SW	119
AW	

BMER-4 can be configured Shaft type of $\varnothing 38.1$ shaft seal. Please consult the sales manager.

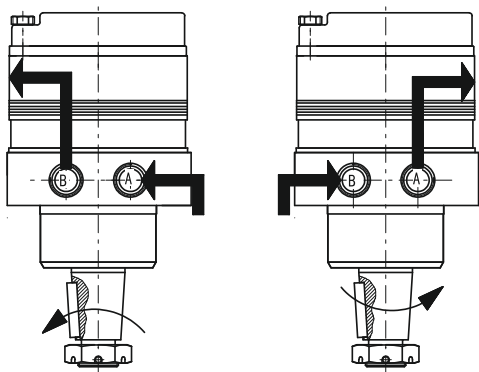


BMER-4 Series Hydraulic Motor

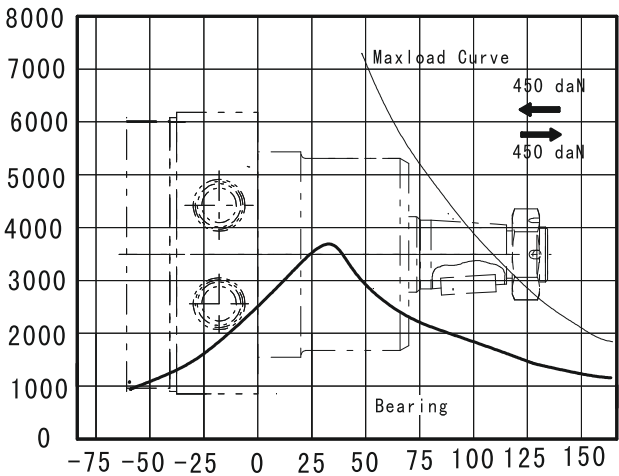
BMER-4 Ordering details



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



BMER-4 for W# Mounting
Side Load-(daN)



The bearing curve represents allowable bearing loads for an L10 bearing life at 12X10⁶ revolutions.
The maximum load curve is defined by bearing static load capacity.
This curve should not be exceeded at any time including shock loads.

1 2 3 4 5 6 7

Pos.1	2	3	4	5	6	7
Code	Disp.	Mo nt Flange, Pilot, Pd	Output Shaft	Rotation direction	Paint	Unusually function
4	125	WS 4-ø13.5 Wheel Mount, Pilot ø82.55×5, Ports 7/8-14 O-ring WP 4-ø13.5 Wheel Mount, Pilot ø82.55×5, Ports 1/2-14NPTF WD 4-ø13.5 Wheel Mount, Pilot ø82.55×5, Ports G1/2	G2 Shaftø31.75 , parallel key 7.96×7×36.5 B1 Shaftø32, Parallel key 10×8×45 FD1 Shaftø31.75, splined key 14-DP12/24 T4 Cone-Shaftø31.75, Parallel key 7.96×7.96×25.4 RW Shaftø25.4 , parallel key 6.35×6.35×31.75 SW Shaftø25.4 ,splined key SAE 6B AW Shaftø25 , parallel key 8×7×32	None Standard Reverse timed R	00 None B S No paint Blue Black Sliver Grey	None Standard
	160					
	200					
	230					
	250					
	300					
	350					
	375					
	400					
	475					
	540					
	650					
	750					

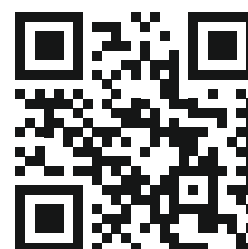
Note: When the table is used, please fill the code of left rows in dash area and give us, which the code information is consists of construction, displacement, mounting flange, output shaft and ports. If the specification is not in the table or you have specific requirements, please contact us.

The specified data is for product description purposes only and may not be deemed to be guaranteed unless expressly confirmed in the contract.



THM Huade Hydraulics Pvt Ltd

F-127, Phase-VIII, Focal Point,
Ludhiana-141010, Punjab (INDIA)
PH: 0161-2672777, 0161-2672778
E-mail: sales@thmhuade.com
Website: www.thmhuade.com



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