



MARE 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.

Specification

Type		MARE 125	MARE 160	MARE 200	MARE 230	MARE 250	MARE 300	MARE 350	MARE 375	MARE 475	MARE 540	MARE 750
Displacement (cm ³ /rev.)		118	156	196	228	257	296	345	371	462	540	745
Max. speed (rpm)	cont.	360	375	330	290	290	250	220	200	160	140	100
	int.(1)	490	470	425	365	350	315	270	240	195	170	120
Max. torque (N•m)	cont.	325	450	530	625	700	810	905	990	1085	980	1050
	int.(1)	380	525	600	710	790	930	1035	1140	1180	1240	1180
	peak(2)	450	590	750	870	980	1120	1285	1360	1260	1380	1370
Max. output (Kw)	cont.	12.0	15.0	15.5	16.0	17.5	18.0	17.5	16.5	14.5	11.5	8.0
	int.(1)	14.0	17.5	18.0	19.0	20.0	21.0	20.0	19.0	16.5	15.0	10.0
Max. pressure drop (bar)	cont.	205	205	205	205	205	205	205	205	175	140	105
	int.(1)	240	240	240	240	240	240	240	240	190	175	120
	peak(2)	276	276	276	276	276	276	276	276	205	205	140
Max. flow (L/min)	cont.	45	60	70	70	75	80	80	75	75	75	75
	int.(1)	60	75	85	85	90	95	95	90	90	90	90
Weight (Kg)		10.6	10.9	11.2	11.3	11.4	11.6	12	12.5	13	13.5	15

(1)Intermittent operation :The rating occur for max. 6 sec / min.

(2)Peak operation : The rating occur for max. 0.6 sec / min.

Type		MARE 125	MARE 160	MARE 200	MARE 230	MARE 250	MARE 300	MARE 350	MARE 375	MARE 475	MARE 540	MARE 750
Displacement (in ³ /rev.)		7.3	9.7	12.1	14.0	15.8	18.3	21.3	22.9	28.4	32.8	45.6
Max. speed (rpm)	cont.	360	375	330	290	290	250	220	200	160	140	100
	int.(1)	490	470	425	365	350	315	270	240	195	170	120
Max. torque (lb•in)	cont.	2890	3990	4700	5540	6210	7180	8030	8780	9620	8960	9310
	int.(1)	3400	4660	5320	6300	7010	8250	9180	10110	10460	11000	10460
	peak(2)	4000	5230	6640	7700	8670	9920	11380	12030	11150	12220	12130
Max. output (hp)	cont.	16.1	20.1	20.8	21.4	23.5	24.1	23.5	22.1	19.4	15.4	10.7
	int.(1)	18.8	23.5	24.1	25.5	26.8	28.2	26.8	25.5	22.1	20.1	13.4
Max. pressure drop (psi)	cont.	3000	3000	3000	3000	3000	3000	3000	3000	2500	2000	1500
	int.(1)	3500	3500	3500	3500	3500	3500	3500	3500	2750	2500	1750
	peak(2)	4000	4000	4000	4000	4000	4000	4000	4000	3000	3000	2000
Max. flow (gpm)	cont.	12	12	18	18	21	21	20	20	20	20	20
	int.(1)	16	60	22	22	25	25	24	24	24	24	24
Weight (lbs)		23.6	24.2	24.9	25.1	25.3	25.8	26.7	27.8	28.9	30.0	33.3

Performance Data

MARE125 [118cm³/rev.]

Pressure (bar)

	17.5	35	70	105	140	175	205	240
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Flow (L/min)	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
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
45				98 362	160 350	215 342	271 325	308 322
	53			90 423	152 418	208 404	265 399	304 371
Max.int.	60			82 488	141 472	205 455	260 442	300 421

MARE160 [156cm³/rev.]

Pressure (bar)

	17.5	35	70	105	140	175	205	240
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Flow (L/min)	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
	15		37 93	74 90	155 86	234 84	310 82	368 79
25			68 155	152 151	227 147	308 142	364 137	436 131
	34		68 214	152 213	227 210	308 204	364 198	436 191
45			64 282	143 280	218 275	296 268	360 263	425 256
	53			135 330	216 327	293 322	357 315	421 306
Max.int.	60			122 379	207 376	284 368	350 362	416 356
	68			109 423	196 419	273 414	345 406	156 345
Max.int.	75			104 472	188 466	270 270	337 450	156 337

MARE200 [196cm³/rev.]

Pressure (bar)

	17.5	35	70	105	140	175	205	240
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Flow (L/min)	2	39 8	88 4	132 4	286 3	370 2		
	4	42 16	85 14	188 13	270 11	427 10	506 9	
8		43 35	90 32	192 29	291 28	450 27	529 25	600 19
	15		38 74	92 71	196 68	298 64	462 60	602 55
25			82 124	188 121	283 117	456 113	528 108	605 103
	34		79 170	183 169	270 167	447 160	515 154	591 146
45				163 223	259 218	352 212	441 208	510 199
	53			149 260	256 258	350 254	440 248	501 241
60				132 299	248 292	336 284	432 276	575 272
	68			120 336	230 332	330 327	486 319	570 310
Max.int.	75			108 375	208 372	311 365	403 358	480 350
	85				184 425	280 420	380 411	462 390

MARE230 [228cm³/rev.]

Pressure (bar)

	17.5	35	70	105	140	175	205	240
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Flow (L/min)	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	700 16
	15		44 63	106 61	207 58	318 55	426 52	623 47
25			101 103	209 100	324 96	428 92	532 87	705 81
	34		88 145	205 143	316 139	421 133	522 126	702 120
45				186 192	294 187	422 182	507 176	688 170
	53			175 226	290 221	393 215	496 208	678 203
60				152 256	270 253	390 248	485 242	661 235
	68			140 292	265 288	351 283	482 278	642 273
Max.int.	75			124 324	235 321	344 344	448 308	552 300
	85				207 366	335 360	442 351	546 338

Torque (N•m) 380
Speed (rpm) 411

cont.
int.

Performance Data

MARE250 [257cm³/rev.]

Pressure (bar)

		Max.cont.						Max.int.	
		17.5	35	70	105	140	175	205	240
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	794 37
	25	44 95	114 93	241 90	360 86	488 82	593 77	699 72	782 63
	34		95 129	226 125	348 121	481 116	590 111	686 106	774 96
	45		77 174	215 173	346 170	468 166	572 161	674 155	779 143
	53		66 203	200 202	325 200	448 196	564 190	657 184	756 175
	60			180 232	296 229	438 225	550 220	642 215	741 202
	68			162 262	294 261	415 257	548 250	637 241	730 228
	75			137 290	274 289	388 388	520 280	618 273	726 260
	85			130 328	261 326	370 322	509 316	604 307	
Max.int.	90			85 348	224 347	358 344	490 336		

MARE300 [296cm³/rev.]

Pressure (bar)

		Max.cont.						Max.int.	
		17.5	35	70	105	140	175	205	240
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	819 5
	15	66 48	144 47	305 45	427 43	568 39	671 33	810 28	894 20
	25	59 82	138 81	289 80	420 76	552 71	676 64	791 56	932 44
	34	48 113	130 112	297 110	393 107	562 102	689 96	805 86	926 73
	45		96 150	268 149	385 148	527 143	636 135	753 124	880 112
	53		76 177	242 176	383 175	524 173	631 165	758 152	900 138
	60		64 200	225 199	362 198	506 193	627 186	753 174	892 162
	68			200 225	333 224	470 222	630 212	750 201	882 194
	75			178 251	322 250	464 464	610 240	741 232	870 215
	85				140 285	316 284	455 278	570 270	728 257
Max.int.	95				106 316	260 314	431 311	552 307	700 292

MARE350 [345cm³/rev.]

Pressure (bar)

		Max.cont.						Max.int.	
		17.5	35	70	105	140	175	205	240
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	984 26
	25	63 70	148 69	313 68	470 66	628 63	765 60	892 55	1018 46
	34	52 97	133 96	304 95	455 93	619 89	760 85	905 78	1034 68
	45		100 129	261 128	442 127	583 125	736 118	887 112	1028 101
	53		85 152	247 150	418 148	566 145	715 139	880 132	1024 118
	60		65 171	233 170	410 169	550 167	712 162	842 155	996 143
	68			218 195	387 194	543 190	696 185	825 175	976 162
	75			206 215	373 214	515 515	680 206	822 197	966 183
	85			176 243	355 242	510 239	679 234	808 227	
Max.int.	95				353 272	509 269	645 265		

MARE375 [371cm³/rev.]

Pressure (bar)

		Max.cont.						Max.int.	
		17.5	35	70	105	140	175	205	240
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	1060 5
	15	76 39	162 38	356 37	533 35	683 32	845 29	978 25	1102 18
	25	68 65	156 64	350 62	524 59	680 55	857 48	994 44	1138 35
	34	58 90	148 89	339 87	506 83	690 77	841 71	993 63	1145 53
	45		121 120	302 119	478 117	650 113	813 108	972 100	1134 90
	53		95 141	282 140	466 138	628 134	785 128	934 120	1103 105
	60		75 161	264 161	428 160	592 158	766 155	925 151	1070 141
	68			232 182	422 180	585 176	756 169	901 161	1066 148
	75			207 201	380 200	556 197	738 190	865 181	1012 165
	85				175 228	370 226	526 221	700 216	832 206
Max.int.	90				148 242	316 240	500 237	654 226	

Torque (N•m) 645
Speed (rpm) 265

cont.
int.

Performance Data

MARE475 [462cm³/rev.]

Pressure (bar)

	17.5	35	70	105	140	175	205
						Max.cont.	Peak
2	93 2	186 1					
4	98 7	202 6	405 5	608 5	805 4		
8	98 15	206 14	430 13	652 13	844 12	1005 10	1180 8
15	94 31	202 30	441 28	654 28	875 26	1056 23	1238 20
25	94 52	202 51	441 48	654 45	875 43	1056 39	1238 35
34	75 72	180 71	420 68	660 65	850 61	1085 55	1266 44
45		144 96	380 95	627 93	835 90	1062 84	1261 73
53		116 113	346 112	573 111	795 107	1008 102	1212 90
60		82 128	318 128	539 127	790 124	975 119	1186 110
68		58 146	272 145	520 144	740 141	955 136	1156 125
75			230 161	480 160	702 158	920 153	1116 140
85			200 182	454 180	662 177	876 168	
90			150 194	378 193	615 190	840 182	

Flow (L/min)

Max.cont.

Max.int.

MARE540 [540cm³/rev.]

Pressure (bar)

	17.5	35	70	105	140	175
					Max.cont.	Max.int.
2	105 2	198 2				
4	125 6	231 5	470 5	688 4	932 4	1136 3
8	134 13	238 13	496 12	749 11	966 11	1175 8
15	122 27	230 26	505 26	750 25	981 24	1218 21
25	100 44	225 43	500 42	774 41	986 39	1220 35
34	80 62	212 61	481 60	748 58	977 54	1243 49
45		173 82	437 82	714 81	936 79	1190 75
53		142 97	416 97	678 96	938 94	1170 89
60		106 110	380 110	664 109	896 108	1158 106
68		85 125	357 124	616 124	870 123	1108 120
75			318 138	600 137	826 135	1100 132
85			292 154	538 153	780 152	
90			214 169	486 168	755 168	

Flow (L/min)

Max.cont.

Max.int.

Torque (N•m) 486
Speed (rpm) 168

MARE750 [745cm³/rev.]

Pressure (bar)

	17.5	35	70	105	120	140
					Max.cont.	Max.int.
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
83			395 110	745 109	906 108	
90			298 120	660 119	800 117	

Flow (L/min)

Max.cont.

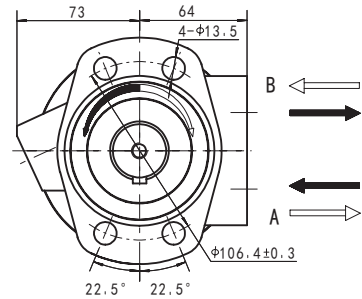
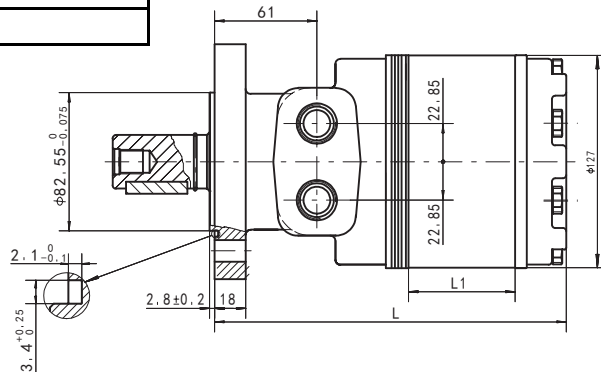
Max.int.

cont.
int.

Dimensions and Mounting Data

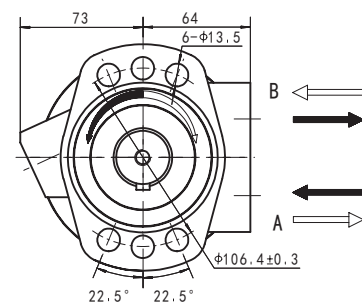
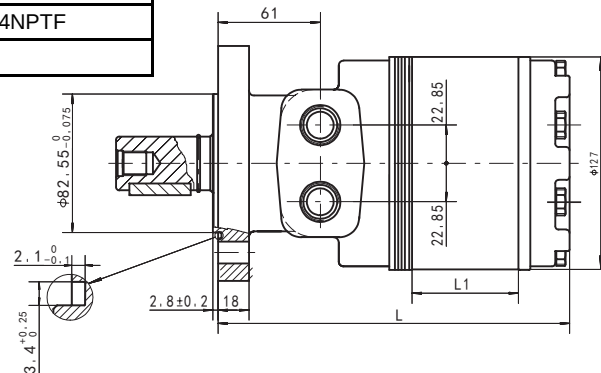
SAE A Mount 4-Hole

Code	Port A, B
MS	7/8-14UNF
MP	1/2-14NPTF
MD	G1/2



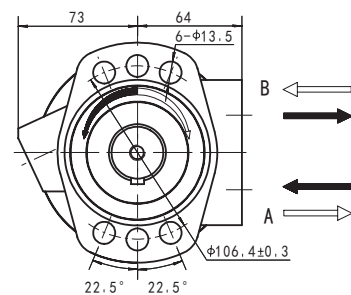
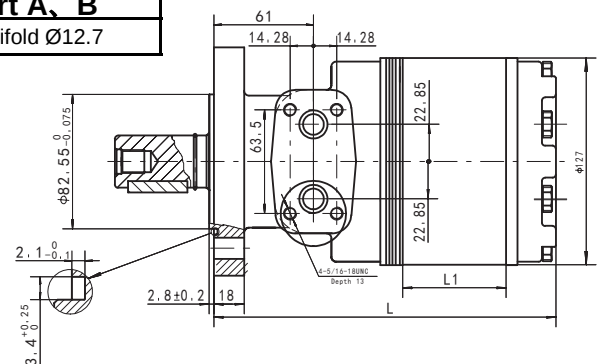
SAE A Mount 6-Hole

Code	Port A, B
FS	7/8-14UNF
FP	1/2-14NPTF
FD	G1/2



SAE A Mount 6-Hole

Code	Port A, B
FH	Manifold Ø12.7

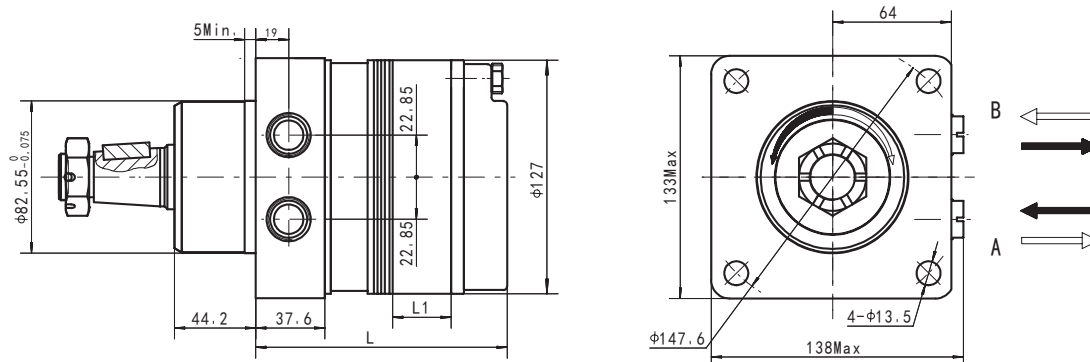


Displacement (cm³/rev.)	125	160	200	230	250	300	350	375	475	540	750
L1(mm)	10.2	13.5	17	19.5	22	25.4	29.5	31.8	39.4	47.3	63.5
L(mm)	157	160	163.5	166	168.5	172	176	178.5	186	194	210
Weight(kg)	10.6	10.9	11.2	11.3	11.4	11.6	12	12.5	13	13.5	15

Dimensions and Mounting Data

Wheel Mount

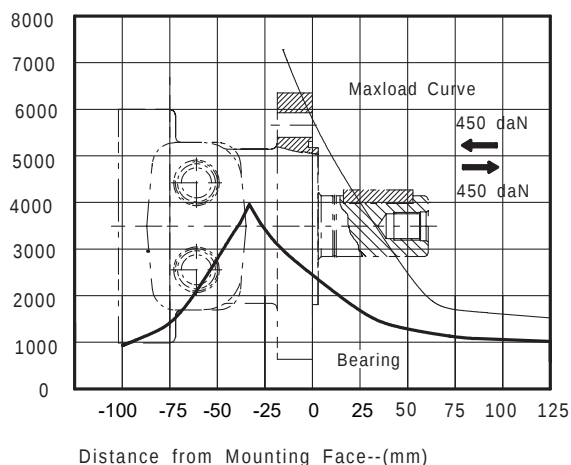
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WS	7/8-14UNF
WP	1/2-14NPTF
WD	G1/2



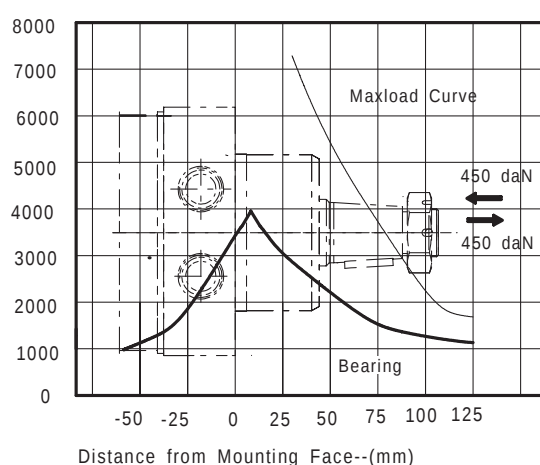
Displacement (cm ³ /rev.)	125	160	200	230	250	300	350	375	475	540	750
L1(mm)	10.2	13.5	17	19.5	22	25.4	29.5	31.8	39.4	47.3	63.5
L(mm)	119	122	125.5	128	130.5	134.5	138	140.5	148	156	176
Weight(kg)	12	12.1	12.3	12.4	12.6	13	13.2	13.5	14	14.6	16

Shaft Loads

SAE A Mounting Side Load (daN)

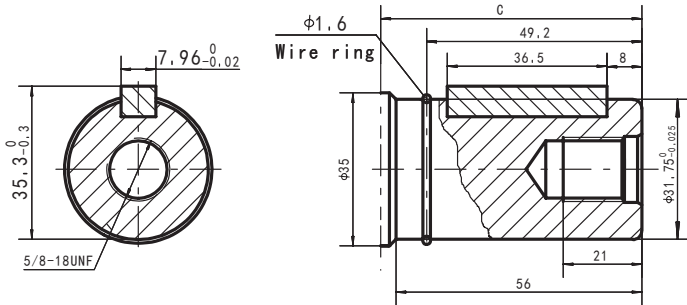
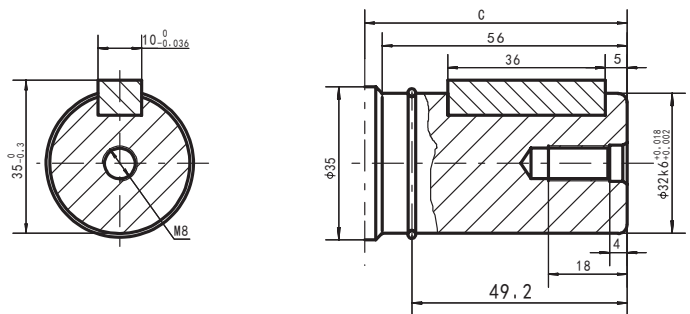
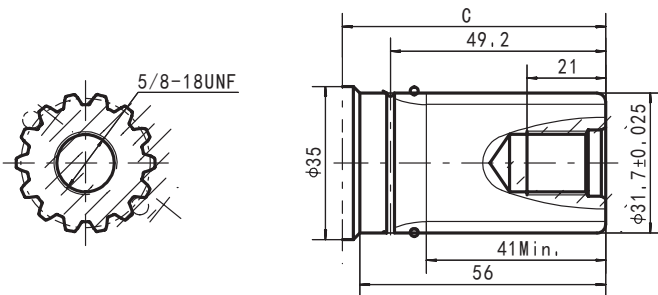
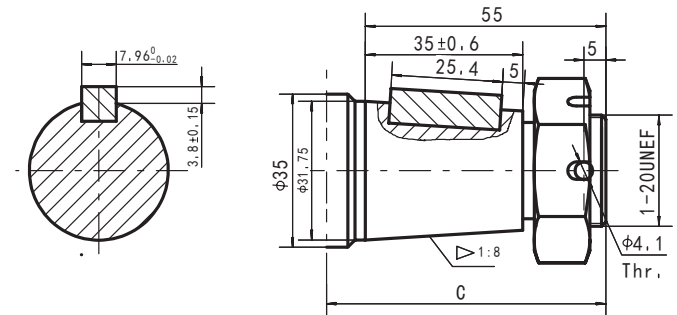
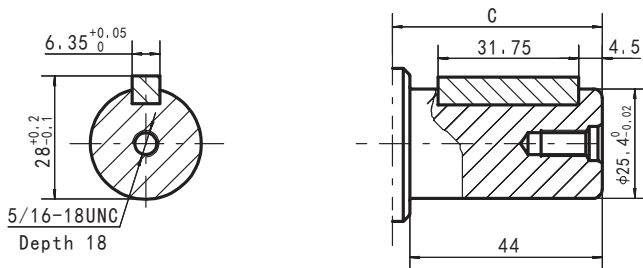
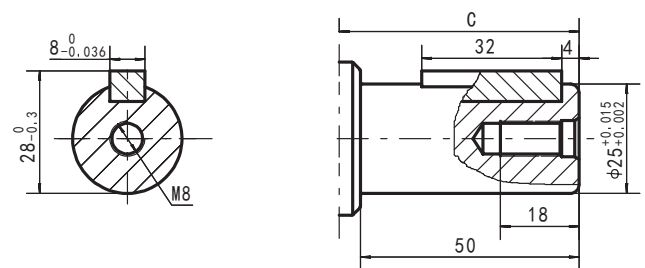
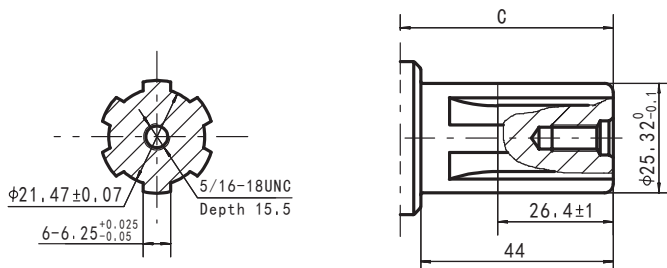


Wheel Mounting Side Load (daN)



The bearing curve represents allowable bearing loads for an L¹⁰ bearing life at 3x10⁶ revolutions. The maximum load curve is defined by bearing static load capacity. This curve should not be exceeded at any time including shock loads.

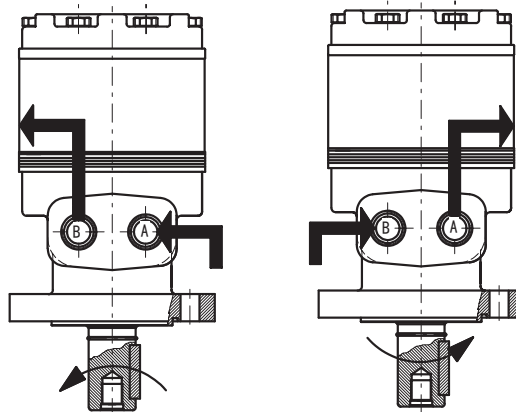
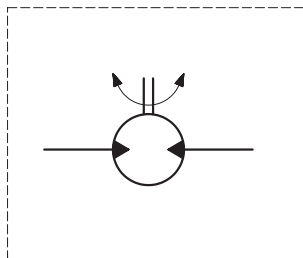
Shaft Extensions Dimensions Data

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

B1 Cylindrical shaft $\varnothing 32$ CParallel key 10x8x36

FD1 Splined 14-DP12/24

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

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

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

SW Splined SAE 6B


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

Rotation Selection

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.



Ordering Information

MARE	1	2	3	4	5	6

Pos.1 Displacement Code

125	- 118 cm ³ /rev [7.3 in ³ /rev]
160	- 156 cm ³ /rev [7.9 in ³ /rev]
200	- 196 cm ³ /rev [12.1 in ³ /rev]
230	- 228 cm ³ /rev [14.0 in ³ /rev]
250	- 257 cm ³ /rev [15.8 in ³ /rev]
300	- 296 cm ³ /rev [18.3 in ³ /rev]
350	- 345 cm ³ /rev [21.3 in ³ /rev]
375	- 371 cm ³ /rev [22.9 in ³ /rev]
475	- 462 cm ³ /rev [28.4 in ³ /rev]
540	- 540 cm ³ /rev [32.8 in ³ /rev]
750	- 745 cm ³ /rev [45.6 in ³ /rev]

Pos.2 Mounting Flange

MS	- SAE A, 4-Ø13.5, Pilot Ø82.55×2.8, Ports 7/8-14 O-ring
MP	- SAE A, 4-Ø13.5, Pilot Ø82.55×2.8, Ports 1/2-14NPTF
MD	- SAE A, 4-Ø13.5, Pilot Ø82.55×2.8, Ports G1/2
FS	- SAE A, 6-Ø13.5, Pilot Ø82.55×2.8, Ports 7/8-14 O-ring
FP	- SAE A, 6-Ø13.5, Pilot Ø82.55×2.8, Ports 1/2-14NPTF
FD	- SAE A, 6-Ø13.5, Pilot Ø82.55×2.8, Ports G1/2
FH	- SAE A, 6-Ø13.5, Pilot Ø82.55×2.8, Manifold Ports 1/2
WS	- Wheel Mount, Pilot Ø82.55×5, Ports 7/8-14 O-ring
WP	- Wheel Mount, Pilot Ø82.55×5, Ports 1/2-14NPTF
WD	- Wheel Mount, Pilot Ø82.55×5, Ports G1/2

Pos.3 Shaft Extensions

G2	- Cylindrical shaft Ø31.75 Parallel key 7.96x7x36.5
B1	- Cylindrical shaft Ø32 Parallel key 10x8x36
FD1	- Ø31.75 【1-1/4】 Splined 14-DP12/24
T4	- Cone-shaft Ø31.75 Parallel key 7.96x7.96x25.4
RW	- Cylindrical shaft Ø25.4 Parallel key 6.35x6.35x31.75
AW	- Cylindrical shaft Ø25 Parallel key 8x7x32
SW	- Splined SAE 6B

Pos.4 Rotation

Omit	- Standard Rotation
R	- Reverse Rotation

Pos.5 Painting

Omit	- Blue
G	- Grey
B	- Black
00	- No Paint

Pos.6 Other function

Omit	- Standard
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