



FLOWFIT® FFPMT MOTORS



Low speed high torque orbital motors are specifically engineered to deliver powerful rotational force at reduced speeds. Also known as geroler motors. These motors are suitable replacements for Sauer Danfoss OMT motors. The FFPMT motor combines durability with a compact design, delivering excellent starting and operating torques. Its strong radial and axial bearing capacity allows for high flow rates and pressure, making it suitable for a wide range of applications.

Type		FFPMT 160	FFPMT 200	FFPMT 250	FFPMT 315	FFPMT 400	FFPMT 500
Displacement (ml/r)		158.8	200.8	252.2	317.5	401.6	535.3
Max Pressure Drop (Bar)	Cont.	200	200	200	200	180	160
	Int.	240	240	240	240	210	180
	Peak	280	280	280	280	240	210
Max Torque (N.m)	Cont.	450	561	710	902	1008	1121
	Int.	559	714	883	1143	1255	1377
	Peak	663	818	1021	1322	1431	1598
Speed Range (Cont.) (r/min)		10-625	9-500	8-400	7-312	6-250	5-175
Max Flow (Cont.) (r/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

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

FFPMT160

Pressure (Bar)

Max Cont. Max int.

		40	80	100	120	160	200	240
Flow (L/min)	10	85 61	169 60	219 59	264 57	347 55	429 51	514 45
	20	86 123	174 122	225 119	266 241	357 111	441 105	535 97
	40	87 254	173 251	226 248	266 241	366 235	452 228	550 216
	60	79 378	171 374	226 369	266 363	366 235	452 228	550 216
	80	75 502	166 499	220 495	265 488	364 480	447 472	544 457
	100	67 626	154 623	209 618	258 610	355 602	437 594	536 581
Max Cont.	100	67 626	154 623	209 618	258 610	355 602	437 594	536 581
Max int.	125	56 785	142 779	211 773	251 765	345 756	430 746	530 729

Torque: 142 Nm
Speed: 779 r/min

FFPMT200

Pressure (Bar)

Max Cont. Max int.

		40	80	100	120	160	200	240
Flow (L/min)	10	119 48	221 47	275 46	323 43	431 40	532 38	636 34
	20	120 97	227 96	283 94	330 92	445 89	547 86	661 77
	40	115 199	229 197	281 195	334 191	451 187	560 182	680 171
	60	111 306	225 301	280 298	334 296	454 288	560 282	682 269
	80	94 503	216 500	272 496	327 492	447 485	551 477	676 470
	125	80 627	198 623	262 619	316 614	434 607	538 600	662 584
Max Cont.	125	80 627	198 623	262 619	316 614	434 607	538 600	662 584
Max int.	150	67 758	184 754	247 749	308 741	425 731	526 720	648 696

Torque: 184 Nm
Speed: 754 r/min

FFPMT250

Pressure (Bar)

Max Cont. Max int.

		40	80	100	120	160	200	240
Flow (L/min)	10	134 39	277 39	344 38	406 37	542 35	689 33	800 32
	20	139 78	287 77	353 76	419 74	563 72	708 69	838 64
	40	135 159	292 157	361 155	427 152	575 149	723 145	858 137
	60	128 242	285 241	361 238	428 234	574 228	705 223	861 211
	80	125 323	275 322	353 320	420 314	569 309	699 305	860 290
	100	123 404	274 402	344 399	414 395	565 389	695 380	853 366
Max Cont.	100	123 404	274 402	344 399	414 395	565 389	695 380	853 366
	125	113 505	252 502	330 498	402 492	551 485	682 478	838 463
Max int.	150	85 603	235 600	310 596	385 591	535 583	666 576	822 558

Torque: 235 Nm
Speed: 600 r/min

FFPMT315

Pressure (Bar)

Max Cont. Max int.

		40	80	100	120	160	200	240
Flow (L/min)	10	175 31	345 30	430 29	518 28	696 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
	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
	100	161 314	342 313	447 310	537 307	720 303	895 297	1086 284
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

Torque: 303 Nm
Speed: 469 r/min



PERFORMANCE DATA

FFPMT400

Pressure (Bar)

Max Cont. Max int.

		30	60	90	120	150	180	210
Flow (L/min)	10	165 25	343 24	524 23	669 22	827 21	982 20	1130 19
	20	167 51	346 50	528 49	679 46	841 44	1001 42	1156 40
	40	165 99	346 98	530 96	685 93	859 90	1020 86	1181 82
	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
	100	140 249	317 247	503 245	662 241	838 235	998 231	1171 225
Max Cont.	125	126 311	289 309	490 307	643 303	816 298	977 294	1142 287
Max int.	150	118 375	273 373	475 369	623 365	797 361	954 357	1119 350

Torque: 273 Nm
Speed: 373 r/min

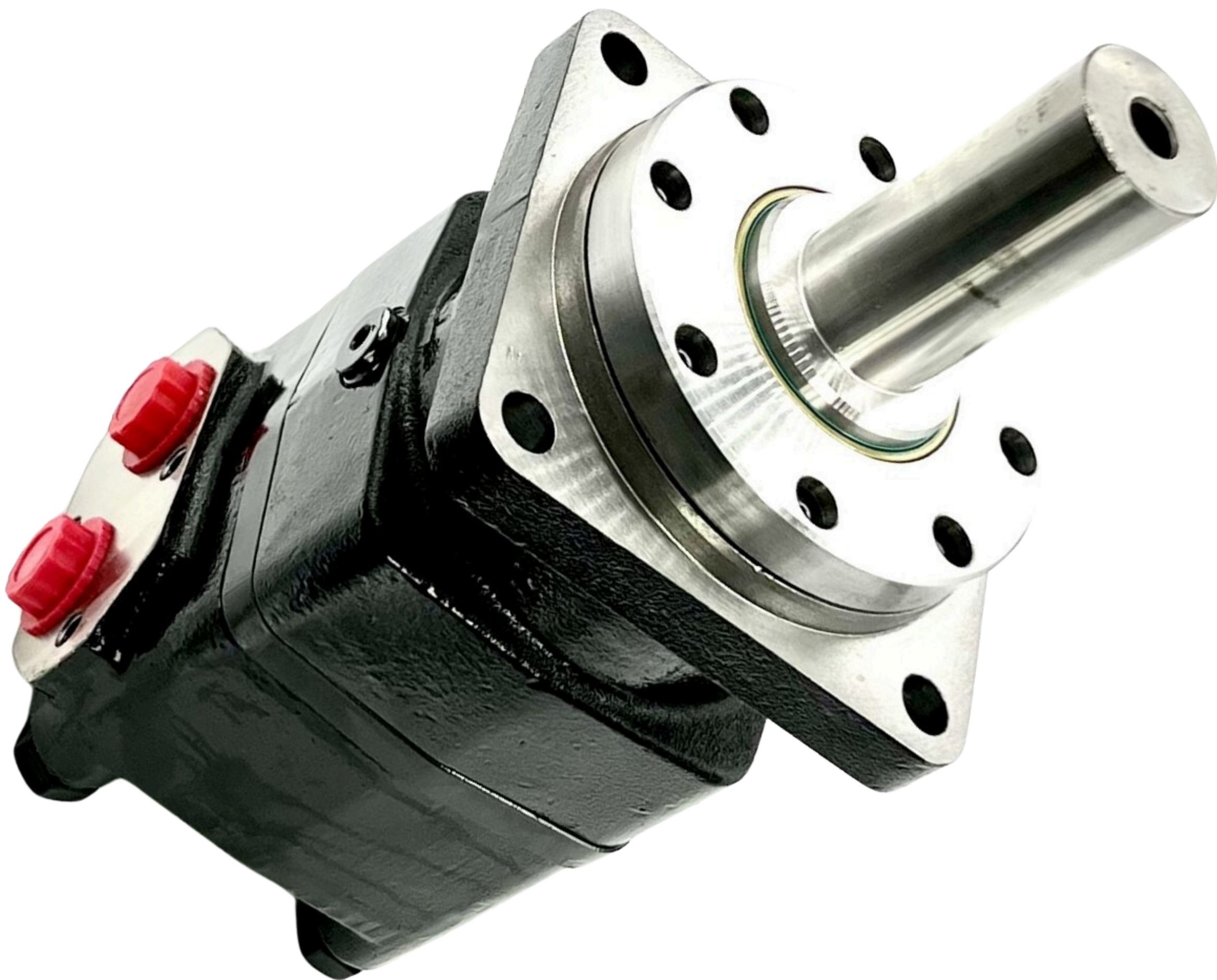
FFPMT500

Pressure (Bar)

Max Cont. Max int.

		30	60	90	120	140	160	180
Flow (L/min)	10	204 18	415 18	637 18	821 17	966 16	1098 15	1233 13
	20	213 37	427 36	656 35	845 34	984 33	1122 32	1267 30
	40	212 75	429 74	669 73	866 72	1007 70	1145 68	1308 64
	60	207 113	421 112	657 111	866 109	1001 107	1146 105	1296 101
	80	196 151	397 150	640 149	853 147	990 145	1145 143	1289 138
	100	179 189	387 188	626 187	829 185	978 183	1126 181	1272 177
Max Cont.	125	168 237	366 236	590 235	807 233	942 231	1103 229	1244 225
Max int.	150	135 284	339 283	569 282	785 280	924 278	1074 276	1219 272

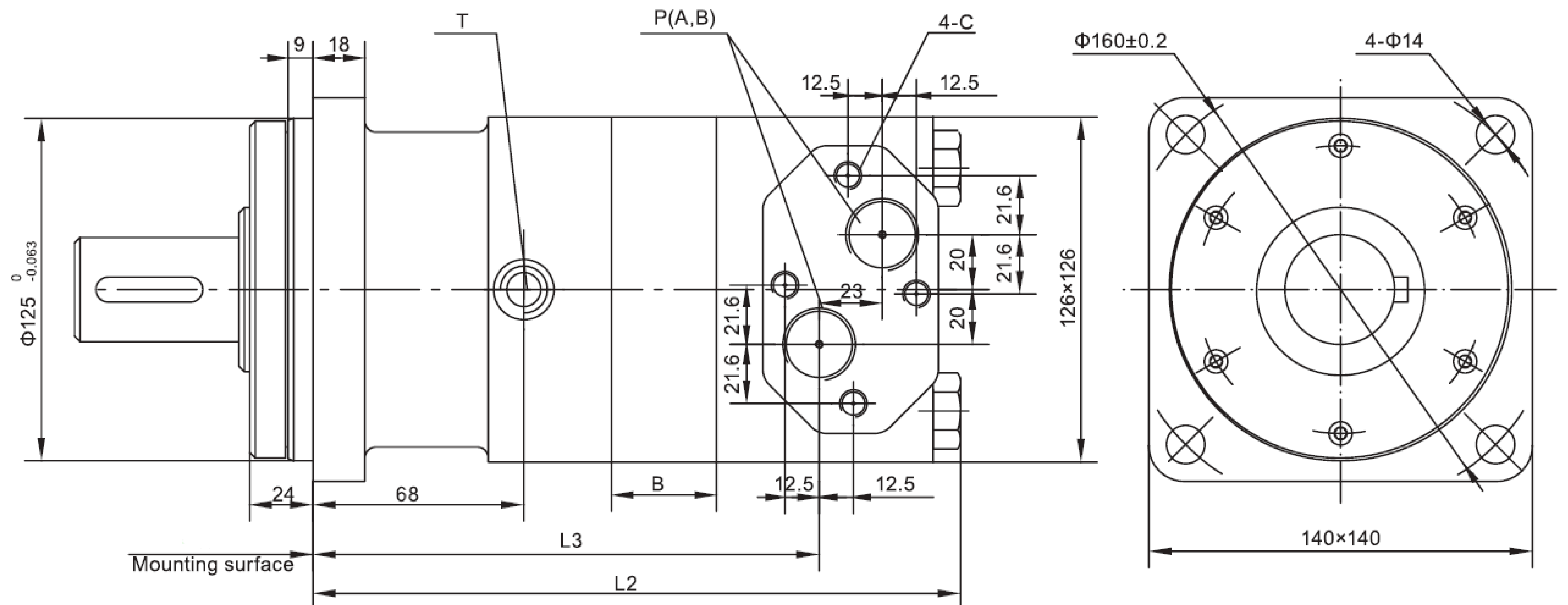
Torque: 339 Nm
Speed: 382 r/min





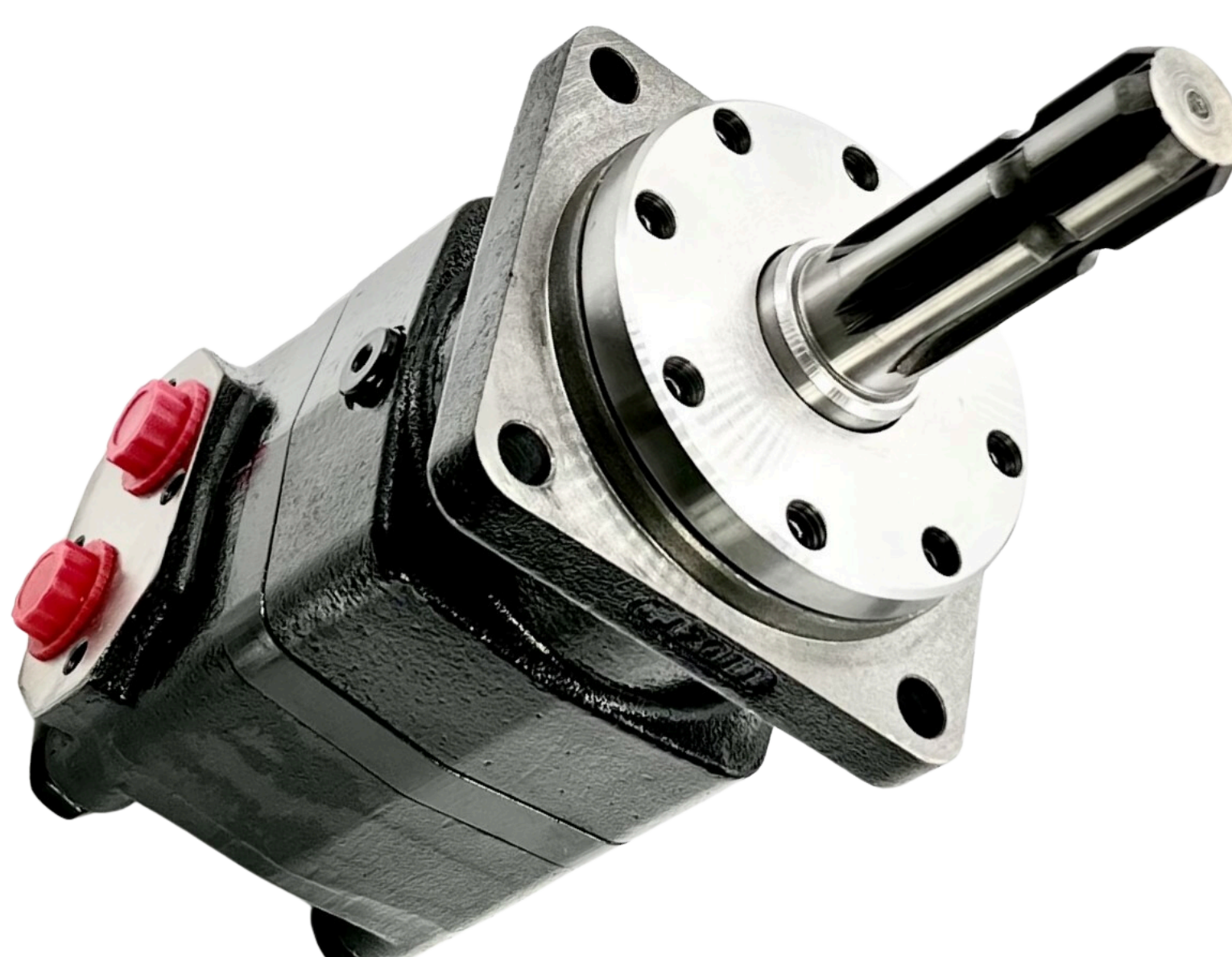
PERFORMANCE DATA

Square Flange



Type	FFPMT 160	FFPMT 200	FFPMT 250	FFPMT 315	FFPMT 400	FFPMT 500
B	12	16.5	22	29	38	56.5
L2	201	205.5	211	218	227	245.5
L3	150	155	160	167	176	195

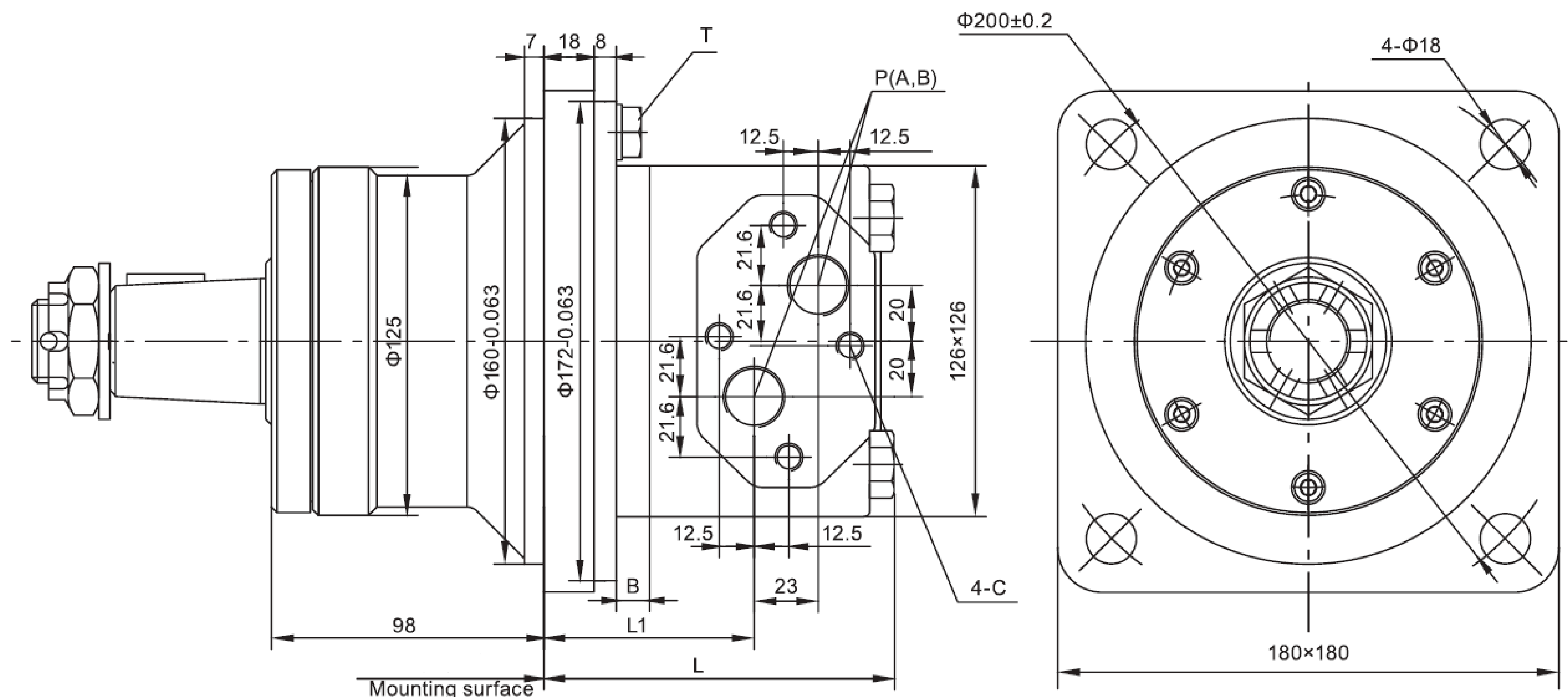
P(A,B)(deep) Ports	C (deep) - Mounting Thread	T (deep) - Drain Connection
G3/4 BSP (15)	M10 (12)	G1/4 BSP (12)





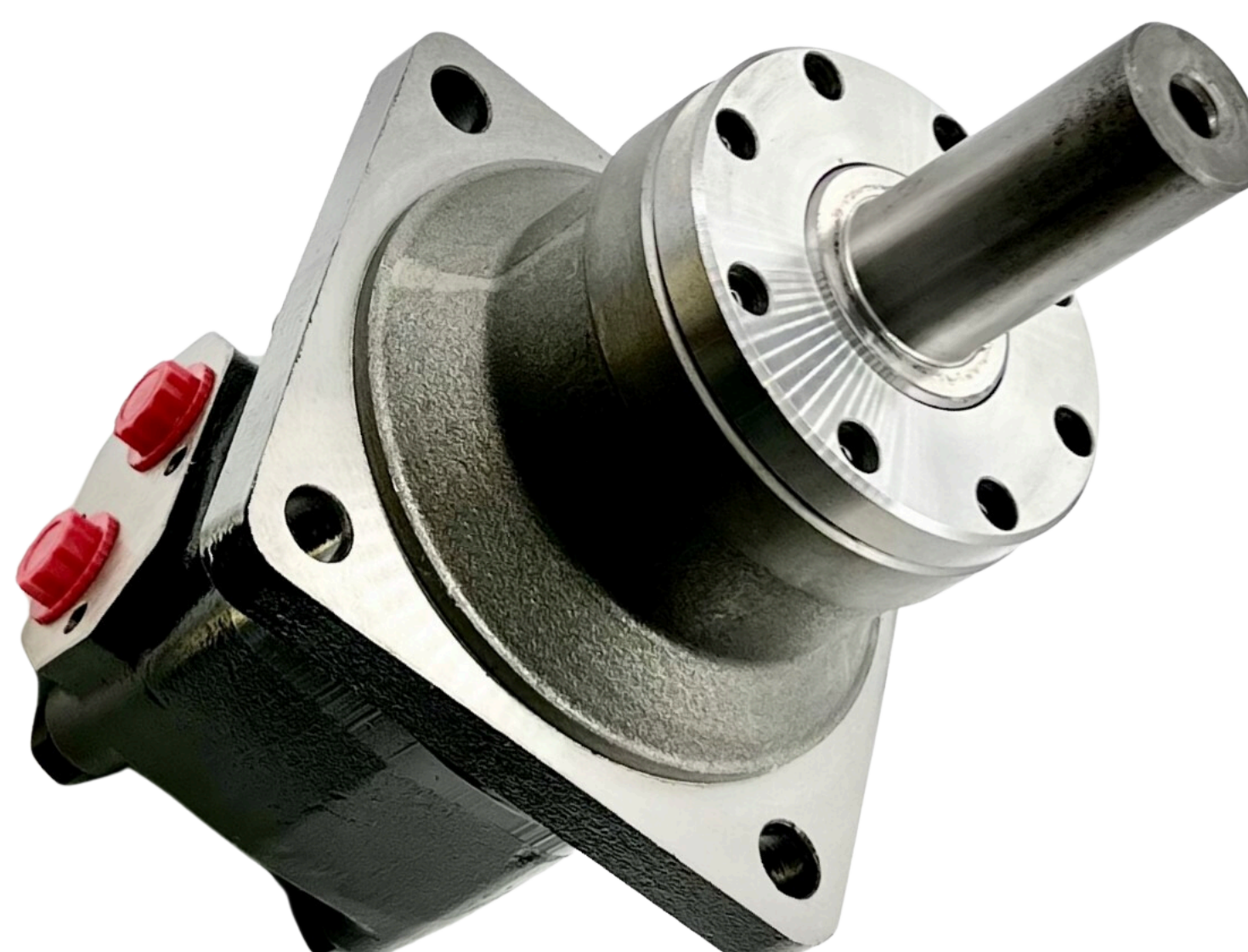
PERFORMANCE DATA

W – Wheel Mount Flange



Type	FFPMT 160	FFPMT 200	FFPMT 250	FFPMT 315	FFPMT 400	FFPMT 500
L	127	131.5	138	145	154	172
L1	76.5	81	86.5	93.5	102.5	121
B	12	16.5	22	29	38	56.5

P(A,B)(deep) Ports	C (deep) - Mounting Thread	T (deep) - Drain Connection
G3/4 BSP (15)	M10 (12)	G1/4 BSP (12)



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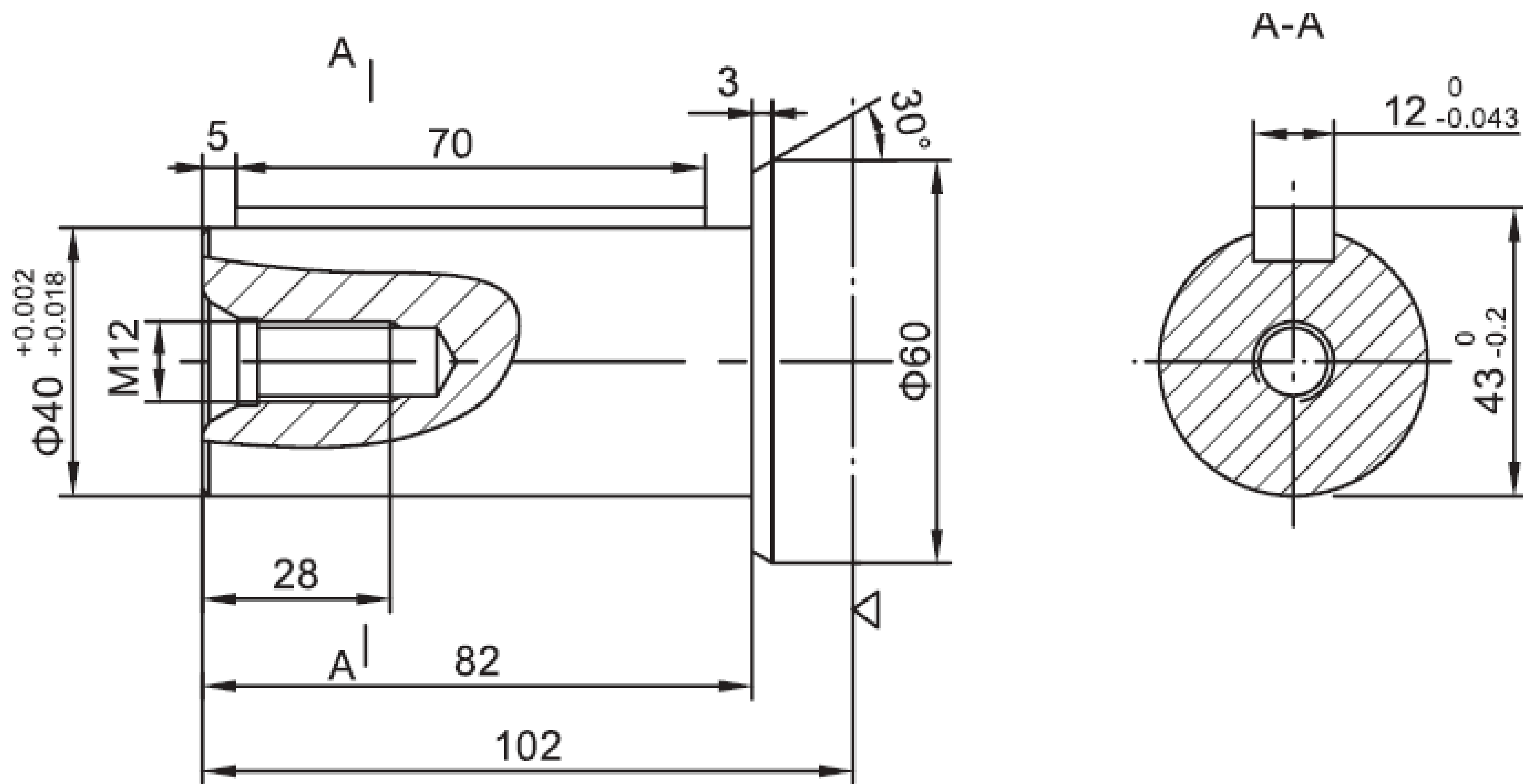
Type	FFPMT 160	FFPMT 200	FFPMT 250	FFPMT 315	FFPMT 400	FFPMT 500
L	144	148.5	154	161	170	188.5
L1	93.5	98	103.5	110.5	119.5	138
B	12	16.5	22	29	38	56.5



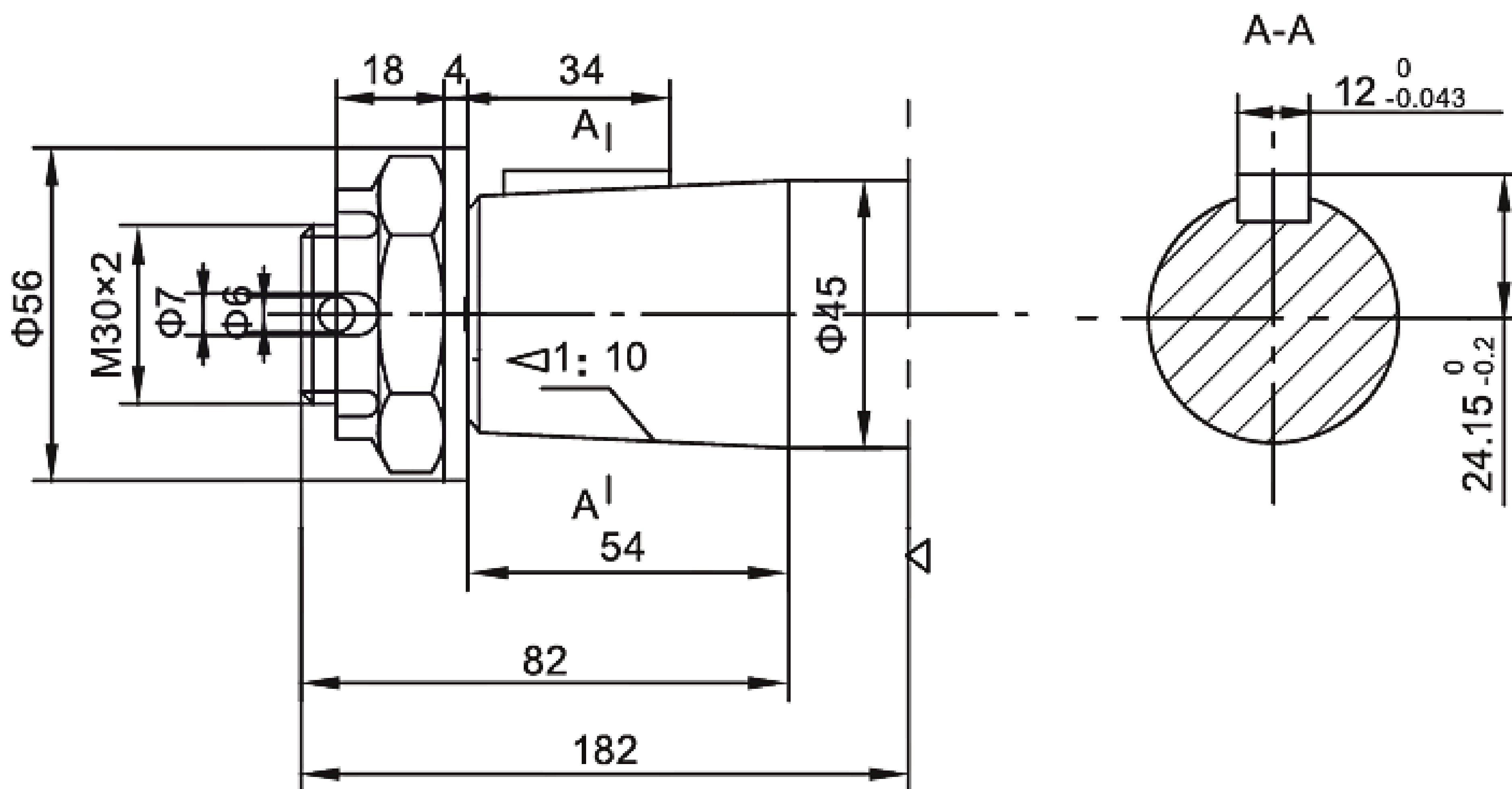


SHAFT VERSION

C - $\varnothing 40$ Cylindrical Shaft, Parallel Key 12 x 8 x 70



K - $\varnothing 45$ Tapered Shaft, Taper 1:10 Parallel Key 12 x 8 x 28

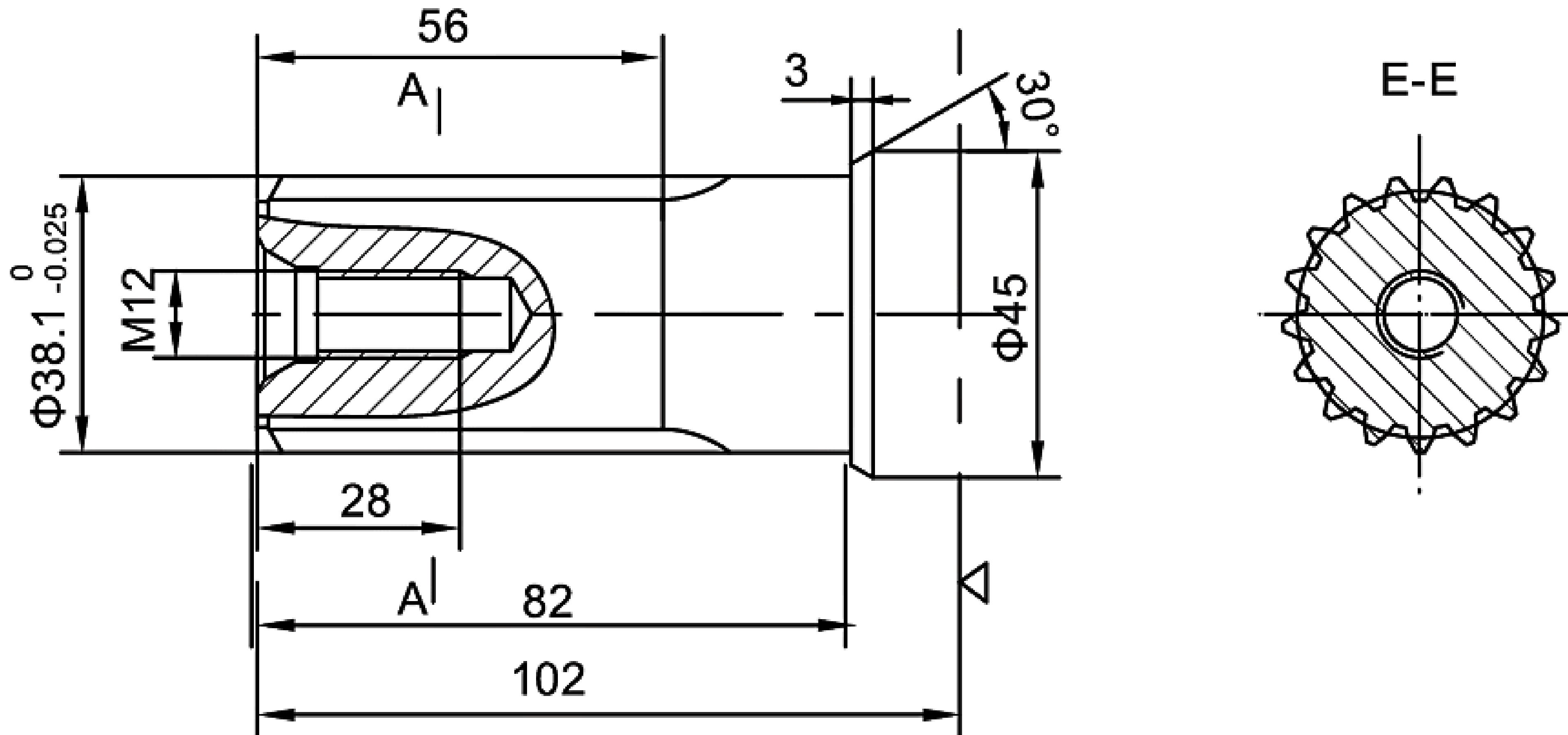


$\triangleleft$: Motor mounting surface

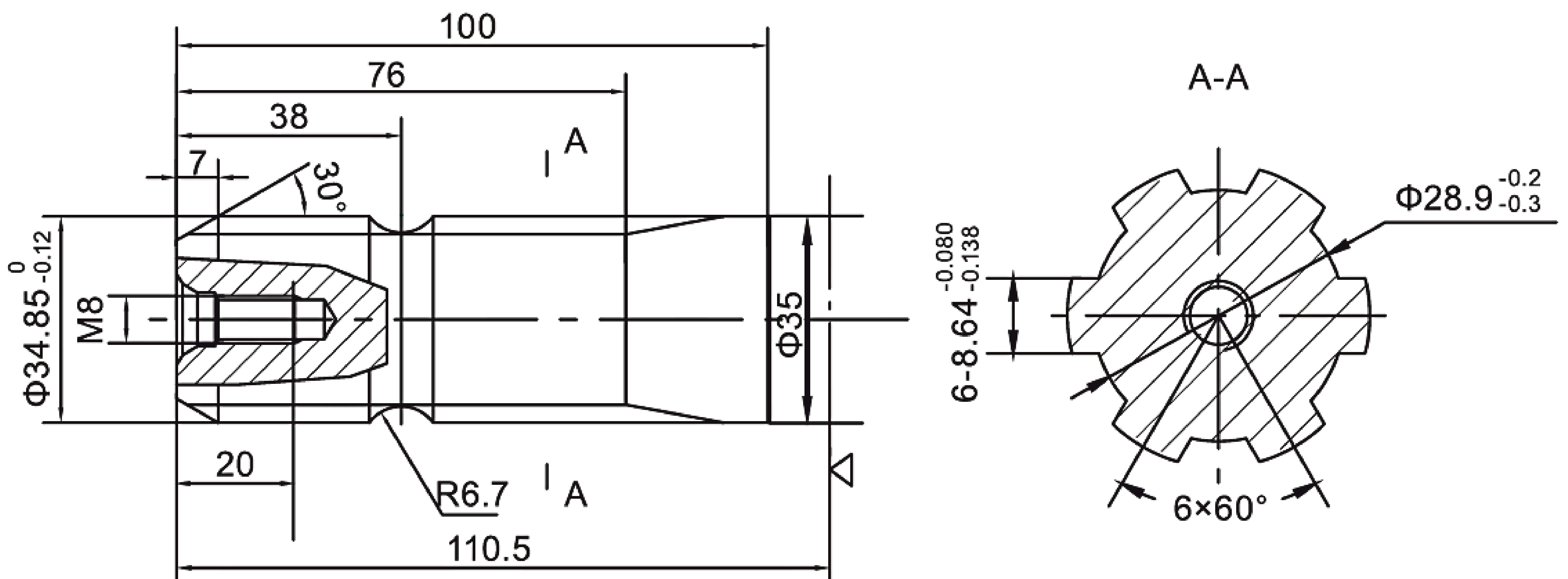


SHAFT VERSION

SH - $\varnothing 38.1$ Involute Splined Shaft, 17-DP12/24



SL - $\varnothing 34.85$ Splined Shaft, 6-34.85 x 28.15 x 8.64



◁ : Motor mounting surface



ORDERING CODES

	1	2	3
FFPMT			

Pos.1	Mounting Flange
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Omit - Square Flange

W	Wheel Mount Flange
SS	Short Flange

Pos.2	Displacement code
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160	158.8 cc/rev	400	401.6 cc/rev
200	200.8 cc/rev	500	535.3 cc/rev
250	252.2 cc/rev		
315	317.5 cc/rev		

Pos.3	Shaft Extensions
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C	Ø 40 Cylindrical Shaft, Parallel Key 12 x 8 x 70
K	Ø 45 Tapered Shaft, Taper 1:10 Parallel Key 12 x 8 x 2
SH	Ø 38.1 Involute Splined Shaft, 17-DP12/24
SL	Ø 34.85 Splined Shaft, 6-34.85 x 28.15 x 8.64

All our motors are supplied with a black gloss phosphatizing finish, enhancing corrosion resistance and improving friction performance.