AHR INTRODUCTION



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

AHR CHARACTERISTICS

- 1. The output shaft, with the deep groove ball bearing, can bear certain axial force and radial force.
- 2. With the axial oil distribution structure, 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.

AHR TECHNICAL DATA

ТҮРЕ		AHR AHRW AHRS AHRE 50	AHR AHRW AHRS AHRE 80	AHR AHRW AHRS AHRE 100	AHR AHRW AHRS AHRE 125	AHR AHRW AHRS AHRE 160	AHR AHRW AHRS AHRE 200	AHR AHRW AHRS AHRE 250	AHR AHRW AHRS AHRE 315	AHR AHRW AHRS AHRE 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		7	10	10	10	10	8	6	5	4
Weigt (Kg)		6.5	6.9	7.0	7.3	7.5	8.0	8.5	9.0	11

• AHRY TECHNICAL DATA

ТҮРЕ		AHRY 50	AHRY 80	AHRY 100	AHRY 125	AHRY 160	AHRY 200	AHRY 250	AHRY 315	AHRY 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		7.5	12	12	12	12	11	9.5	7.5	6.5
Weigt (Kg)		6.9	7.3	7.4	7.7	7.9	8.4	8.9	9.4	11.4

• AHR PERFORMANCE DATA

		AHR 50 Pressui	0[51.7m re (Mpa)			Max.cont.		Max.int.	
		5	7	9	10	12	14	16	17.5
	5	34 94	44 85	58 77	65 77	75 72	88 50		
0	10	35 188	45 179	61 167	68 163	79 154	94 137	107 119	119 98
Flow(Umin)	15	34 285	48 279	62 271	72 263	87 252	100 232	108 213	122 187
ш	20	34 379	46 377	60 367	68 363	82 348	95 332	109 304	125 272
	30	32 578	43 571	59 563	66 556	79 544	94 533	107 502	121 467
Max.cont.	40	30 762	40 760	57 755	65 752	78 740	91 726	105 702	120 672
	45	29 858	39 855	56 851	64 847	77 837	89 817	104 798	120 772
Max.int.	50	25 952	36 942	52 927	59 908	72 882	84 854	98 834	113 803

		Max.cont.		Max.int.					
		5	7	9	10	12	14	16	17.5
	5	48 61	58 58	84 52	106 46	129 40			
0	10	50 122	74 116	96 112	106 108	126 106	145 99	170 60	
Flow(Umin)	20	54 243	76 239	100 231	109 219	131 206	152 192	174 176	193 152
ш	30	50 362	72 358	96 356	104 350	128 349	148 335	172 325	191 300
	40	45 484	70 480	95 478	104 476	125 470	146 468	171 440	188 438
	50	41 610	68 608	91 606	101 603	122 600	145 598	168 550	186 520
x.cont.	60	35 726	65 723	88 720	96 718	120 710	142 700	164 698	182 680
	70	30 845	58 834	81 820	93 802	114 789	136 767	158 754	175 730
x.int.	75	19 910	48 895	76 881	88 867	108 852	132 830	151 806	168 787

• AHR PERFORMANCE DATA

		AHR 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			
nin)	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
ш	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

			25[126.3						
		Pressu	re (Mpa)			Max.cont.		Max.int.
		5	7	9	10	12	14	16	17.5
	5	74	106	140	163				
	_	37	32	27	21				
=	10	81	114	152	172	200	220	250	
擅	10	78	77	74	59	45	29	20	
Flow(L/min)	20	80	114	150	170	200	221	254	292
ŏ	20	157	156	154	151	146	142	120	114
Œ	30	78	112	149	169	198	220	252	290
	30	232	230	228	222	220	218	199	170
	40	77	111	147	168	196	218	250	288
	40	312	311	307	300	298	284	270	252
	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.	00	470	468	464	459	448	434	412	405
	70	41	90	130	156	187	215	242	278
	70	548	544	540	541	538	535	530	496
	75	32	79	126	148	180	208	234	262
Max.int.	75	586	583	578	570	560	546	532	520

	AHR 160[160.8ml/r] Pressure (Mpa) Max.cont.										
		5	7	9	10	12	14	16	17.5		
	5	100 29	142 26	188 21	207 19						
nin)	10	104 62	146 60	191 58	211 49	245 45	282 32	330 25			
Flow(L/min)	20	102 124	148 120	194 118	218 114	251 109	290 104	338 99	368 94		
Œ	30	96 183	141 181	186 179	215 176	248 166	288 158	335 144	364 132		
	40	87 246	136 242	180 240	206 235	248 231	286 219	330 200	358 181		
	50	70 309	126 307	172 300	198 295	238 287	278 278	320 262	350 247		
Max.cont.	60	58 371	111 367	168 359	191 354	232 346	271 338	312 323	342 306		
	70	47 435	104 430	160 421	190 415	228 403	267 393	301 381	338 365		
Max.int.	75	34 470	91 463	150 450	180 441	221 431	261 420	291 405	328 389		

Torque : 150Nm Cont.
Speed : 450r/min Int.

		AHR 20 Pressu	00[200.9 re (Mpa				Max.cont.		Max.int.
		5	7	9	10	12	14	16	17.5
	5	129 24	176 22	230 18	256 13				
min)	10	133 49	182 47	236 45	261 43	310 38	352 33	400 24	
Flow(L/min)	20	131 99	181 97	232 94	256 92	308 88	354 83	400 74	431 64
Œ	30	126 149	176 147	299 144	252 141	308 135	353 126	400 113	430 105
	40	112 200	168 197	224 194	248 191	304 185	350 174	393 160	423 151
	50	94 252	154 249	220 246	243 243	294 238	343 228	384 212	414 194
fax.cont.	60	78 304	144 301	213 298	236 294	287 286	339 276	382 262	410 243
	70	67 355	135 353	206 349	228 340	277 329	336 316	375 300	408 288
fax.int.	75	58 382	125 379	197 373	220 362	270 350	321 337	360 322	398 312

• AHR PERFORMANCE DATA

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

		AHR 31					
		Pressur	e (Mpa)		Max.cont.		Max.int.
		3	5	7	9	10	11
	5	110 14	199 12				
Ĉ.	10	108 31	190 30	272 29	360 28	400 26	451 25
Flow(L/min)	20	110 61	196 60	279 59	356 57	398 55	448 53
윤	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

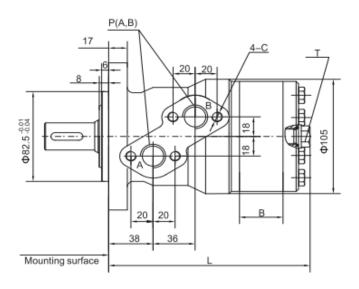
			00[401.9 re (Mpa)		Max.cont.		Max.int.
		3	4	6	7	8	9
	5	152 12					
nin)	10	154 24	205 21	308 18	349 17		
Flow(L/min)	20	150 49	201 48	302 47	340 46	392 44	441 41
Œ	30	146 73	198 74	296 73	331 72	387 70	438 67
	40	140 98	191 97	290 96	321 95	381 94	421 92
	50	132 122	182 121	281 118	315 115	376 112	402 110
fax.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
fax.int.	75	98 182	162 180	232 178	292 176	320 174	356 170

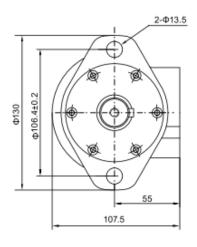
Torque : 232Nm Speed : 178r/min Cont.

8

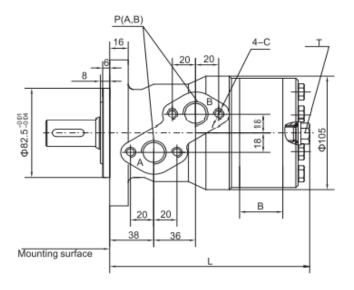
• AHR, AHRE Installation

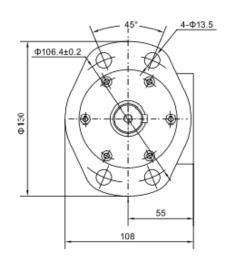
2-hole oval flange A II





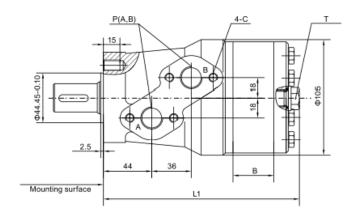
4-hole oval flange A IV

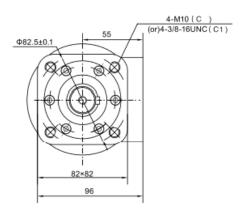




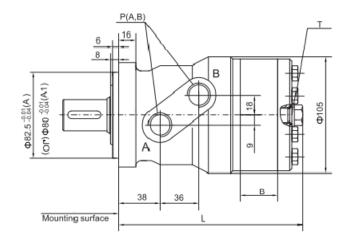
• AHR, AHRE Installation

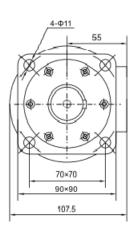
Square flange C C1





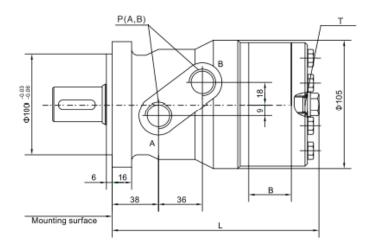
Square flange A A1





• AHR,AHRE Installation

Square flange A2 III





TYPE	AHR-50	AHR-80	AHR-100	AHR-125	AHR-160	AHR-200	AHR-250	AHR-315	AHR-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

BMRY Installation

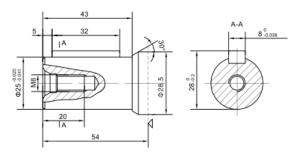
TYPE	AHRY-50	AHRY-80	AHRY-100	AHYR-125	AHRY-160	AHRY-200	AHRY-250	AHRY-315	AHRY-400
L	150	155	158.5	163	169	176	185	197	211
L1	158	163	166.5	171	177	184	193	205	219
В	9	14	17.5	22	28	35	44	56	70

• AHR PORTS CODE

Ports	P(A,B)(deep)	C (deep)	T (deep)
Υ	G1/2 (15)	M8 (13)	M14 x 1.5 (12)
Y1	M18 x 1.5 (15)	M8 (13)	M14 x 1.5 (12)
Y2	M22 x 1.5 (15)	M8 (13)	M14 x 1.5 (12)
Y4	ZG3/8 (15)	M8 (13)	M14 x 1.5 (12)
Y5	7/8-14UNF (15)	_	M14 x 1.5 (12)
Y7	ZG1/2 (15)	M8 (13)	M14 x 1.5 (12)
Y8	NPT1/2 (15)	M8 (13)	M14 x 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)

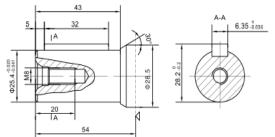
• AHR – SHAFT VERSION

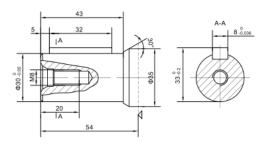
P1 Ø25 Cylindrical shaft, parallel key 8 x 7 x 32 P2 Ø30 Cylindrical shaft, parallel key 8 x 7 x 32



P3 Ø25.4 Cylindrical shaft, parallel

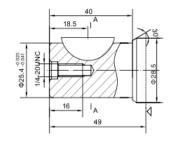
key 6.35 x 6.35 x 32

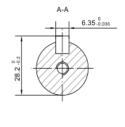




P4 Ø25.4 Cylindrical shaft, Woodruff

key Ø25.4 x 6.35

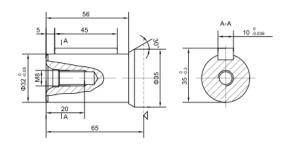




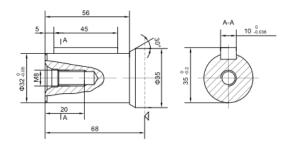
• AHR - SHAFT VERSION

P5 Ø32 Cylindrical shaft, parallel key 10 x 8 x 45

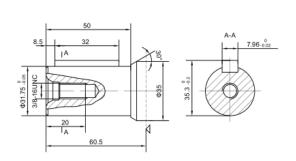
P52 Ø32 Cylindrical shaft, parallel key 10 x 8 x 45



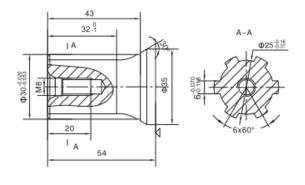
P6 Ø31.75 Cylindrical shaft,parallel key 7.96 x 7.96 x32



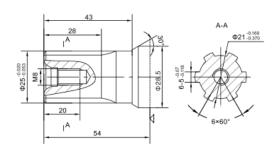
H1 Ø30 Splined shaft. 6-30 x 25 x 6

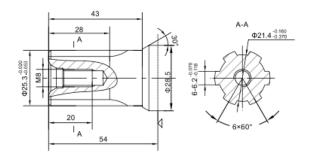


H2 Ø25 Splined shaft. 6-25 x 21 x 5



H3 Ø25.3 Splined shaft. 6-25.3 x 21.4 x 6.2



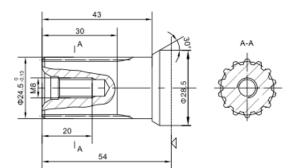


• AHR – SHAFT VERSION

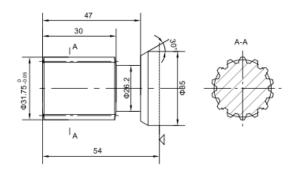
K4 Ø24.5 involute splined shaft B25 x 22 DIN5482

K10 Ø31.75 involute splined shaft 14-DP12/24

m:1.6 Z:14



a = 30°

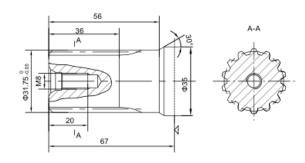


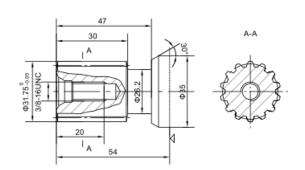
K13 Ø31.75 involute splined shaft 14-DP12/24

$$a = 30^{\circ}$$

K14 Ø31.75 involute splined shaft 14-DP12/24

$$a = 30^{\circ}$$





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

• AHR ORDERING CODE

1 2 3 4 5 6 7 AHR - | | | / | - |

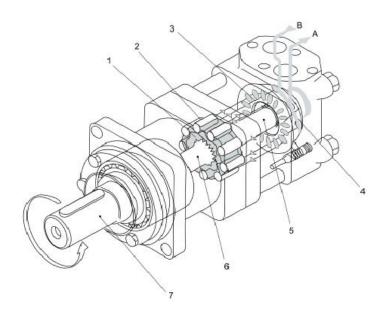
Pos.1	2		3		4		5			6		7
							Po	orts				
Series	Disp		Output		Flange	Code	Ports (deep	Drain ports T(deep	Spe	ecial features	Rotation direction	
	50	P1	Ø25 Cylindrical shaft, parallel key 8 x 7 x 32			Y	G1/2 (15)	M14 x 1.5 (12)				
		P2	Ø30 Cylindrical shaft, parallel key 8 x 7 x 32	AII	2-Ø13.5 oval flange, pilot Ø82.5 x 6	Y1	M40 × 4 E (4E)	M44 × 4 5 (42)				
	80	P3	Ø25.4 Cylindrical shaft, parallel key 6.35 x 6.35 x 32			¥1	M18 x 1.5 (15)	M14 x 1.5 (12)				
		P4	Ø25.4 Cylindrical shaft, Woodruff key Ø25.4 x 6.35	AIV	4-Ø13.5 oval flang,pilot Ø82.5x6	Y2	M22 x 1.5 (15)	M14 x 1.5 (12)				
	100	P5	Ø32 Cylindrical shaft,parallel key 10 x 8 x 45				700(0 (45)	M44 :: 4 5 (40)				
	125	P52	Ø32 Cylindrical shaft,parallel key 10 x 8 x 45	С	4-M10 square flange, pilot Ø44.45x2.5		ZG3/8 (15)	M14 x 1.5 (12)	Omit	Standard	Omit	Standard
	123	P6	Ø31.75 Cylindrical shaft,parallel key 7.96 x 7.96 x32			Y5	7/8-14UNF(15)	M14 x 1.5 (12)	Т7	With dustproof ring	L	Opposite
AHR	160	H1	Ø30 Splined shaft. 6-30 x 25 x 6	C1	4-3/8-16UNC square flange, pilot	Y7	ZG1/2 (15)	M14 x 1.5 (12)	T10	With high		
		H2	Ø25 Splined shaft. 6-25 x 21 x 5		Ø44.45x2.5					pressure seals		
	200	НЗ	Ø25.3 Splined shaft. 6-25.3 x 21.4 x 6.2	Α	4-Ø11 square flange,pilot Ø82.5 x 6	Y8	NPT1/2 (15)	M14 x 1.5 (12)				
	250	K4	Ø24.5 involute splined shaft, B25 x 22 DIN5482			Y9	NPTF1/2 (15)	7/16-20UNF(12)				
		K10	Ø24.5 involute splined shaft 14-DP12/24	A1	4-Ø11 square flange,pilot Ø80x6		0.45.445					
	315	K13	Ø31.75 involute splined shaft 14-DP12/24			Y10	G1/2 (15)	G1/4 (12)				
	400	K14	Ø31.75 involute splined shaft 14-DP12/24	A2III	4-Ø13 square flange,pilot Ø100x6	Y15	7/8-14UNF(15)	7/16-20UNF(12)				
		Z1	Ø28.56 Tapered shaft, taper 1:10, parallel key 5 x 5 x 14				.,5-145/11 (10)	200111 (12)				

INTRODUCTION

AH hydraulic is one type of high torque low speed hydraulic motors, with high efficiency and long life. AH motor has a wide speed rangee, 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 I oad facilities.



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



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.

• AH3Y TECHNICAL DATA

ТҮРЕ		AH3Y-80 AH3SY-80 AH3S3Y-80 AH3WY-80	AH3Y-100 AH3SY-100 AH3S3Y-100 AH3WY-100	AH3Y-125 AH3SY- 125 AH3S3Y- 125 AH3WY- 125	AH3Y-160 AH3SY- 160 AH3S3Y- 160 AH3WY- 160	AH3Y-200 AH3SY- 200 AH3S3Y- 200 AH3WY- 200	AH3Y-250 AH3SY- 250 AH3S3Y- 250 AH3WY- 250	AH3Y-315 AH3SY- 315 AH3S3Y- 315 AH3WY- 315	AH3Y-400 AH3SY- 400 AH3S3Y- 400 AH3WY- 400	AH3Y-500 AH3SY- 500 AH3S3Y- 500 AH3WY- 500
Displacement (ml/r)		80.5	100.5	126.3	160.8	200.9	252.6	321.5	401.9	476.5
	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 (Nm)	int	293	365	459	559	672	845	1032	1021	903
	peak	306	383	481	588	708	891	1091	1141	1044
Max speed (cont.) (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 Power(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

AH3Y PERFORMANCE DATA

		AH3Y 8	0(80.5ml	l/r)				
		Pressui	e(Mpa)				Max.cont.	Max.int.
		3.5	7	10.5	14	17.5	20.5	22.5
				_	_	_		
	15	35	75	114	150	187	220	239
Flow(L/min)	10	181	177	170	165	158	151	141
	20	35	75	115	152	190	222	240
	30	363	355	346	340	330	322	310
) N	40	33	75	115	155	193	226	240
은		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
	60	735	724	714	698	680	670	642
	65	27	68	108	148	186	215	233
Max.cont.	65	801	790	775	760	742	727	704
h	00	23	66	104	140	176	205	213
Max.int.	80	988	975	955	938	915	897	870

	AH3Y 100(100.5ml/r)										
		Pressur	e(Mpa)				Max.cont	. Max.int.			
		3.5	7	10.5	14	17.5	20.5	22.5			
	15	44	94	142	187	233	275	298			
Flow(L/min)	13	145	142	136	132	127	121	113			
	20	42	93	144	190	237	278	300			
	30	291	284	277	272	264	258	248			
Š	40	41	92	144	194	241	282	300			
ē		388	384	372	363	356	350	332			
_		37	91	141	191	237	278	296			
	50	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			
x.cont.	75	740	730	716	702	686	672	651			
	90	29	82	130	175	222	258	266			
ex.int.	90	890	879	861	845	825	808	784			

		-						
		Pressur	re(Mpa)				Max.com	t. Max.int.
		3.5	7	10.5	14	17.5	20.5	22.5
	15	54	117	179	235	293	348	375
	15	115	113	108	105	101	96	90
Ē	20	55	118	180	238	298	351	377
Flow(L/min)	30	231	226	221	217	210	205	198
× .	40	54	120	180	243	303	355	377
은	40	309	305	296	289	283	279	265
		51	118	177	240	298	351	372
	50	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.	75	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

AH3Y 125(126.3ml/r)

Pressure(Mpa) 17.5 3.5 Max.int.

AH3Y 160(160.8ml/r)

Torque : 163Nm Speed : 685r/min

> Con Int.

• AH3Y PERFORMANCE DATA

		AH3Y 2		Sml/r)				
		Pressure	e(Mpa)				Max.cont	. Max.int.
		3.5	7	10.5	14	17.5	20.5	22.5
		0.77		005	074	407		F00
	15	87	184	285	374	467	557	596
Flow(L/min)	,,,	73	71	68	66	63	61	56
	30	89	187	287	379	474	560	599
	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
		244	241	238	232	226	223	212
	-00	84	175	275	374	469	555	586
	60	295	290	286	280	272	268	257
	76	77	170	270	369	464	550	581
Max.cont.	75	370	365	358	351	343	336	325
- 1	00	68	165	260	349	434	510	532
Max.int.	90	445	440	430	423	412	404	392

		AH3Y 2	50(252.0	6ml/r)				
		Pressur	e(Mpa)				Max.cont.	Max.int.
		3.5	7	10.5	14	17.5	20	22.5
	15	114	234	358	469	584	377	742
	"	58	56	54	53	50	48	45
Flow(L/min)	20	115	235	361	471	587	680	746
	30	116	113	110	108	105	103	100
	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
		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
lax.cont.	75	295	290	285	279	273	267	260
	90	103	213	343	460	568	654	715
lax.int.	90	354	350	342	334	326	320	310

		АНЗҮ з	15(321.	5ml/r)					
		Pressu	re(Mpa)				Max.cont. Max.int.		
		3.5	7	10.5	14	17.5	20	22.5	
		140	284	433	583	745	863	947	
	15	45	44	43	41	40	38	35	
Ξ	20	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		121	120	116	113	111	109	106	
_		136	291	439	587	748	866	951	
	50	153	151	149	145	141	139	136	
		134	286	435	583	744	862	947	
	60	184	181	179	175	170	166	160	
	75	131	280	431	580	738	856	939	
Max.cont.	75	231	228	224	220	214	210	204	
h	90	125	272	421	570	718	826	899	
Max.int.	90	278	275	269	264	258	253	243	

			00(401.	9ml/r)			
		Pressu	re(Mpa)			Max.cont.	Max.int.
		3.5	7	10.5	14	15.5	17.5
	45	172	347	522	705	806	926
	15	36	35	34	33	32	30
Flow(L/min)	30	174	350	526	708	809	930
	30	73	71	69	68	66	64
×	40	173	352	529	710	813	935
운		97	96	93	91	89	86
	50	171	350	531	710	809	930
	50	122	121	119	116	113	110
	60	168	343	522	705	801	924
	60	147	145	143	140	136	130
	75	164	339	517	700	791	916
x.cont.	75	185	183	179	176	171	163
	90	160	325	503	680	766	886
x.int.	50	223	220	215	211	206	196

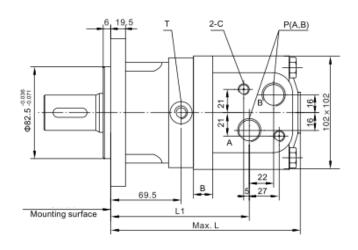
Torque : 503Nm Speed : 215r/min

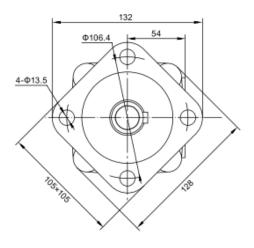
			5ml/r)		
	Pressur	e(Mpa)		Max.cont.	Max.int.
	3.5	7	10.5	12	14
	100	400	607	704	010
15					816
	31	30	29	28	27
30	183	407	613	724	824
30	61	60	58	57	56
40	185	409	617	728	832
	82	81	78	77	75
	184	406	616	724	833
50	103	102	100	98	95
60	182	403	609	719	819
60	124	122	121	118	115
75	180	401	606	712	815
/5	156	154	151	148	145
00	173	391	601	702	803
90	188	185	182	178	174
	15 30 40 50 60 75	Pressur 3.5 180 31 30 81 183 61 40 82 50 184 103 60 182 124 75 180 173	Pressure(Mpa) 3.5 7 15 180 403 31 30 183 407 61 60 185 409 82 81 50 184 406 103 102 60 182 403 124 122 75 180 401 156 154 173 391	3.5 7 10.5 180 403 607 31 30 29 30 61 60 58 40 82 81 78 50 184 406 616 103 102 100 60 182 403 609 124 122 121 75 180 401 606 156 154 151 90 173 391 601	Pressure(Mpa) 3.5 7 10.5 12 15 31 30 29 28 30 183 407 613 724 61 60 58 57 40 82 81 78 77 50 184 406 616 724 103 102 100 98 60 182 403 609 719 124 122 121 118 75 180 401 606 712 156 154 151 148

Cont.

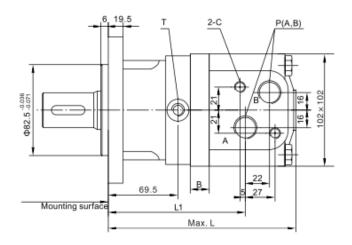
AH3Y Installation

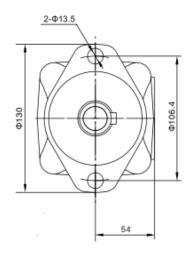
Square flange A





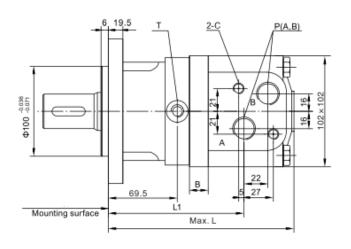
2 - hole aval flange All

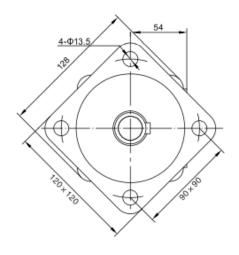




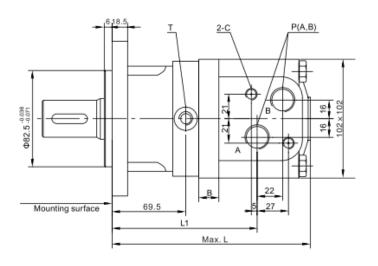
AH3Y Installation

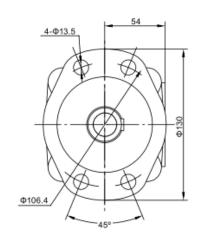
Square flange A2III





4 - hole aval flange AIV





Туре	AH3Y-80	AH3Y-100	AH3Y-125	AH3Y-160	AH3Y-200	AH3Y-250	AH3Y-315	AH3Y-400	AH3Y-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

• AH3Y PORTS CODE

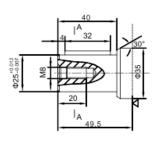
Ports	P(A,B)(deep)	C (deep)	T (deep)
Υ	G1/2 (15)	M10 (12)	G1/4 (12)
Y1	M18 x 1.5 (15)	M10 (12)	M14 x 1.5 (12)
Y2	M22 x 1.5 (15)	M10 (12)	M14 x 1.5 (12)
Y3	M20 x 15 (15)	M10 (12)	M14 x 1.5 (12)
Y5	7/8-14UNF (15)	_	7/16-20 UNF (12)
Y8	NPT1/2 (15)	M10 (12)	G1/4 (12)
Y10	G1/2 (15)	_	G1/4 (12)

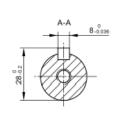
P (A,B) --Ports, C--Mouting Thread (—Indicates no this thread), T -Drain connettion

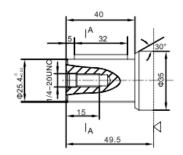
AH3Y SHAFT VERSION

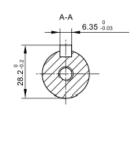
P1: Φ 25 Cylindrical shaft, parallel key8 \times 7 \times 32

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



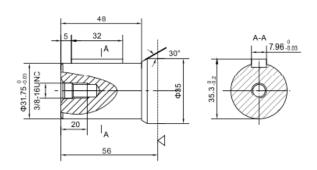


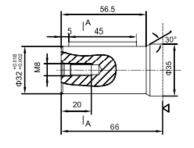


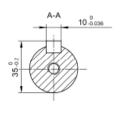


P5: Φ 31.75 Cylindrical shaft, parallel key7.96 × 7.96 × 32

P10: Φ32 Cylindrical shaft, parallel key10 × 8 × 45





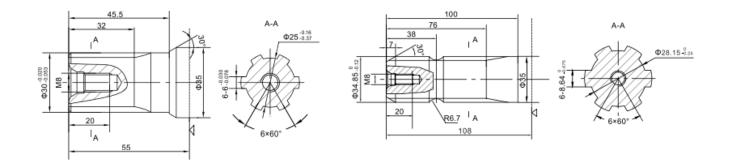


-- Motor mounting surface

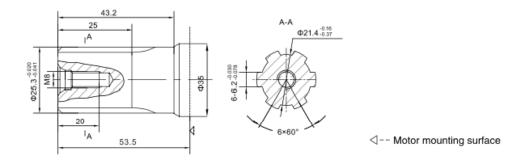
• AH3Y SHAFT VERSION

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, $6-25.3 \times 21.4 \times 6.2$



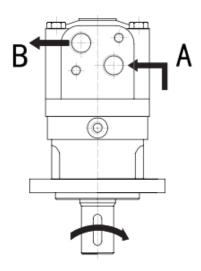
• AH3Y Series Motor

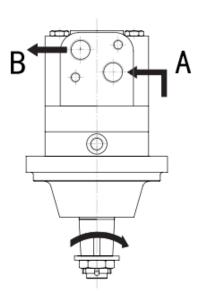
Direction of shaft ration: Standard

When facing shaft end of motor, shaft to rotate

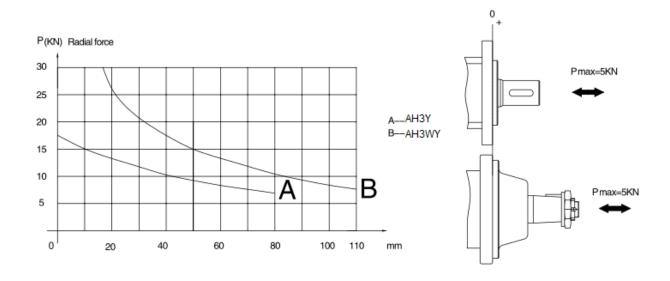
Clockwise when port "A" is pressurized

Counter-clockwise port "B" is pressurize





• PERMISSIBLE SHAFT LOADS



• AH3Y ORDERING CODE

1		2	3	4	5		6		7
AH3Y	-					/		-	

Pos.1	2		3		4		5			6		7
Series	Disp		Output		Flange	Code	Ports (deep)	Drain ports T(deep)	Sp	ecial features		Rotation lirection
	80	P1	Ø25 Cylindrical shaft, parallel key 8 x 7 x 32	А	4-Ø13.5 square flange, pilot Ø82.5	Υ	G1/2 (15)	G1/2 (12)				
	100	P3	Ø25.4 Cylindrical shaft,parallel			Y1	M18 x 1.5 (15)	M14 x 1.5 (12)				
	125		key 6.35 x 6.35 x 32	AII	2-Ø13.5 oval flang,pilot Ø82.5	Y2	M22 x 1.5 (15)	M14 x 1.5 (12)				
	160	P5	Ø31.75 Cylindrical shaft,parallel key 7.96 x 7.96 x 32		J.,							
AH3Y	200	P10	Ø32 Cylindrical shaft,parallel key 10 x 8 x45	A2 III	4-Ø13.5 square flange, pilot Ø100	Y3	M20 x 1.5 (15)	M14 x 1.5 (12)	Omit	Standard	Omit	Standard
	250	H1	Ø30 Splined shaft. 6-30 x 25 x 6	A IV	4-Ø13.5 square	Y5	7/8-14UNF (15)	7/6-20UNF (12)			L	Opposite
	315 400	НЗ	Ø34.85 Splined shaft. 6-34.85 x 28.15 x 8.64		flange,pilot Ø82.5	Y8	NPT1/2 (15)	G1/4(12)				
	500	K4	Ø25.3 splined shaft, . 6-25.3 x 24.1 x 6.2			Y10	G1/2 (15)	G1/4(12)				

• AH4 TECHNICAL DATA

TYPE		AH4-160 AH4S-160 AH4W-160	AH4-200 AH4S-200 AH4W-200	AH4-250 AH4S-250 AH4W-250	AH4-320 AH4S-320 AH4W-320	AH4-400 AH4S-400 AH4W-400	AH4-500 AH4S-500 AH4W-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.) (K	w)	20.1	25.2	25.2	25.2	22	21
Weight		20.3	20.8	21.4	22.4	23	24

• AH4 PERFORMANCE DATA

		AH4 16	0[158.8	cm³/rev]			
		Max.cont.	Max.int.					
		4	8	10	12	16	20	24
	10	85	169	219	264	347	429	514
Flow(L/win)		61	60	59	57	55	51	45
	20	86	174	225	266	357	441	535
		123	122	119	116	111	105	97
	40	87	173	226	266	366	452	550
×		254	251	248	241	235	228	216
Ĕ	60	79	171	226	266	366	450	549
		378	374	369	363	356	347	337
	80	75	166	220	265	364	447	544
	00	502	499	495	488	480	472	457
	100	67	154	209	258	355	437	536
Max.cont.	100	626	623	618	610	602	594	581
ı	125	56	142	211	251	345	430	530
Max.int.	125	785	779	773	765	756	746	729

		AH4 25 Pressur]		Max.cont.	May int
					12	10		
		4	8	10	12	16	20	24
	10	134	277	344	406	542	689	800
	10	39	39	38	37	35	33	32
_	20	139	287	353	419	563	708	828
Ë	20	78	77	76	74	72	69	64
출	40	135	292	361	427	575	723	858
Flow(L/win)	40	159	157	155	152	149	145	137
ᇤ	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.	100	404	402	399	395	389	380	366
	125	113	252	330	402	551	682	838
	120	505	502	498	492	485	478	463
	150	85	235	310	385	535	666	822
Max.int.	100	603	600	596	591	583	576	558

		AH4 40 Pressur]			
		Max.cont.	Max.int.					
		3	6	9	12	15	18	21
	10	165	343	524	669	827	982	1130
		25	24	23	22	21	20	19
	20	167	346	528	679	841	1001	1156
Ê	20	51	50	49	46	44	42	40
E	40	165	346	530	685	859	1020	1181
Flow(L/min)	40	99	98	96	93	90	86	82
<u> </u>	60	163	338	526	682	860	1024	1187
_	00	149	147	143	139	135	131	125
	80	155	330	517	672	853	1014	1181
	00	199	197	194	190	186	182	176
	100	140	317	503	662	838	998	1171
fax.cont.	100	249	247	245	241	235	231	225
	125	126	289	490	643	816	977	1142
	120	311	309	307	303	298	294	287
	150	118	273	475	623	797	954	1119
lax.int.	130	375	373	369	365	361	357	350

Torque) :	797Nm
Speed)		361r/min

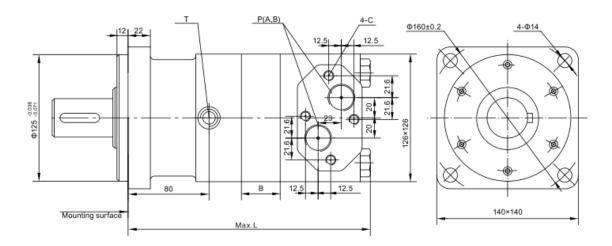
			0 [200.8		1			
		Pressur	re (Mpa))			Max.cont.	Max.int.
		4	8	10	12	16	20	24
	10	119	221	275	323	431	532	636
	10	48	47	46	43	40	38	34
	20	120	227	283	330	445	547	661
Ē	20	97	96	94	92	89	86	77
5	40	115	229	281	334	451	560	680
Flow(L/win)	40	199	197	195	191	187	182	171
Ē.	60	111	225	280	334	454	560	682
	00	306	301	298	296	288	282	269
	80	103	220	275	333	450	557	680
	00	403	401	397	392	385	378	367
	100	94	216	272	327	447	551	676
Max.cont.	100	503	500	496	492	485	477	470
	125	80	198	262	316	436	538	662
	123	627	623	619	614	607	600	584
	150	67	184	247	308	425	526	648
Max.int.	130	758	754	749	741	731	720	696

				cm*/rev				
		Pressu	re (Mpa)			Max.cont.	Max.int.
		4	8	10	12	16	20	24
	10	175 31	345 30	430 29	518 28	697 27	847 26	1011 24
<u>i</u>	20	180 62	361 61	449 60	534 58	719 56	871 54	1054 52
Flow(L/win)	40	182 126	362 125	460 123	542 120	735 117	906 114	1092 109
Ĕ	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

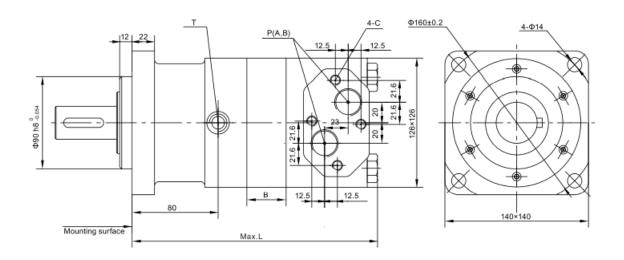
		AH4 50 Pressur	0[535.3 re (Mpa]		Max.cont.	Max.int.
		3	6	9	12	14	16	18
	10	204 18	415 18	637 18	821 17	966 16	1098 15	1233 13
(iii	20	213 37	427 36	656 35	845 34	984 33	1122 32	1267 30
Flow(L/min)	40	212 75	429 74	669 73	866 72	1007 70	1145 68	1308 64
윤	60	207 113	421 112	657 111	866 109	1001 107	1146 105	1296 101
	80	196 151	397 150	640 149	853 147	990 145	1145 143	1289 138
Max.cont.	100	179 189	387 188	626 187	829 185	978 183	1126 181	1272 177
	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
			Cont.					

AH4 Installation

Square flange A

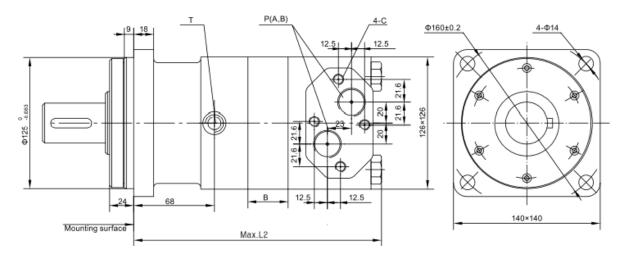


Square flange A1

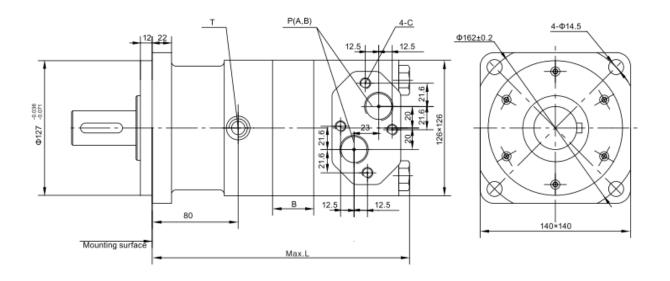


• AH4 Installation

Square flange A4



Square flange A7



Туре	AH4-160	AH4-200	AH4-250	AH4-320	AH4-400	AH4-500
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

• AH4 PORTS CODE

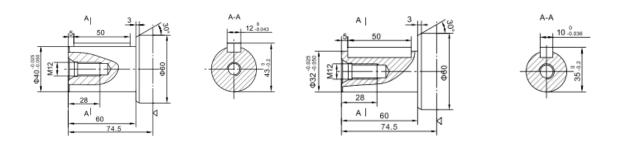
Ports	P(A,B)(deep)	C (deep)	T (deep)
Y	G3/4 (15)	M10 (12)	G1/4 (12)
Y3	M27 x 2 (15)	M10 (12)	M14 x 1.5 (12)
Y4	M22 x 1.5 (15)	M10 (12)	M14 x 1.5 (12)
Y8	7/8-14UNF (15)	_	7/16-20UNF (12)
Y10	1 1/16-12UN (15)	_	9/16-28UNF (12)

P (A,B) --Ports, C--Mouting Thread (—Indicates no this thread), T –Drain connettion

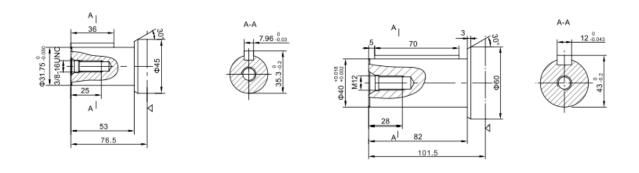
• AH4 SHAFT VERSION

Only match A, A1, A7 flange

P: Ø40 Cylindrical shaft, parallel key 12 x 8 x 50 P1: Ø32 Cylindrical shaft, parallel key 10 x 8 x 50



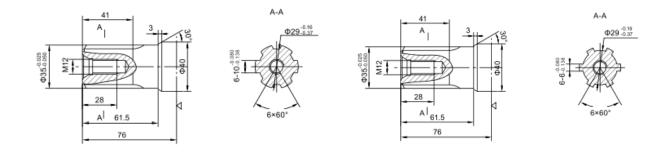
P13: Ø31.75 Cylindrical shaft, parallel key 7.96x7.96x36 P33: Ø40 Cylindrical shaft,parallel key 12x8x70



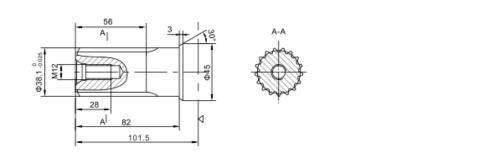
• AH4 SHAFT VERSION

H4: Ø35 Splined shaft, 6-35 x 29 x 10

H5: Ø35 Splined shaft, 6-35 x 29 x 6



K3: Ø38.1 involute splined shaft 17-DP12/24 $a = 30^{\circ}$



Note: Flange with A4 tyle, hydraulic motor shaft from the mouting surface to increase 12mm

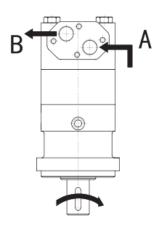
• AH4 SERIES MOTOR

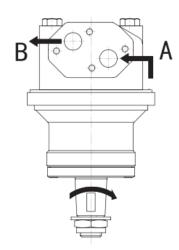
Direction of shaft ration: Standard

When facing shaft end of motor, shaft to rotate

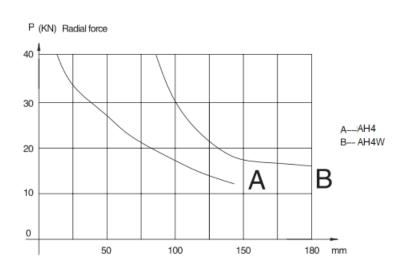
Clockwise when port "A" is pressurized

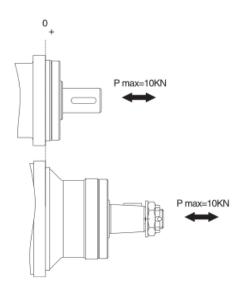
Counter-clockwise port "B" is pressurized





• PERMISSIBLE SHAFT LOADS





• AH4 ORDERING CODE

1		2	3	4	5		6		7
AH4	-					/		-	

Pos.1	2		3		4		5			6	7	
							P	orts			F	Rotation
Series	Disp		Output		Flange	Code	Code Ports (deep) Drain ports T(deep)		Special features		direction	
	160	P33	Ø40 Cylindrical shaft, parallel key 12 x 8 x 70	Α	4-Ø14 oval flange,pilot Ø125	Y	G3/4 (15)	G1/2 (12)				
	200	Р	Ø40 Cylindrical shaft, parallel key 12 x 8 x 50						_			
	050	P1	Ø32 Cylindrical shaft,parallel key 10 x 8 x 50	A1	4-Ø14 oval flange,pilot Ø90	Y3	M27 x 2(15)	M14 x 1.5(12)				
	250								Omit	Standard	Omit	Standard
AH4		P13	Ø31.75 Cylindrical shaft,parallel key 7.96 x 7.96 x 36	A4	4-Ø14 oval flange,	Y4	M27 x 1.5(15)	M14 x 1.5(12)	Т7	With dustproof	L	Opposite
	315	H4	Ø35 Splined shaft. 6-35 x 29 x 10		pilot Ø125	Y8	7/8-14UNF(15)	7/16-20UNF(12)		ring		
	400		005 0-15 d-h-# 0 05 00 0	A7	4-Ø14.5 square							
	400	H5	Ø35 Splined shaft. 6-35 x 29 x 6	Ai	flange,pilot Ø127				1			
	500	КЗ	Ø38.1 involute splined shaft, 17- DP12/24 a = 30°			Y10	1 1/16- 12UN(12)	9/16-18UNF(12)				

• AH5 TECHNICAL DATA

ТҮРЕ		AH5-315 AH5S-315 AH5W-315	AH5-400 AH5S-400 AH5W-400	AH5-500 AH5S-500 AH5W-500	AH5-630 AH5S-630 AH5W-630	AH5-800 AH5S-800 AH5W-800	AH5-985 AH5S-985 AH5W-985
Displacement(ml/r)		314.9	399.7	496.6	617.8	787.4	969.1
	cont.	20	20	20	20	18	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/mir	1)	475	375	300	240	190	150
Max Flow (cont.) (L/min)	150	150	150	150	150	150
Max Output. Power (con	nt.) (Kw)	32	32	32	32	32	24
Weight		30.7	31.5	32.4	33.6	35.2	37.2

• AH5 PERFORMANCE DATA

	Λι I ₁	3 F E	IXI C	λιχινι	AINC)L D	/A I /	٠		
		AH5 31 Pressu	5[314.9 re (Mpa)				Max.cont.	Max.int.		
		3.5	7	10	14	18	20	24		
	10	132	278	416	576	701	799	945		
		28 145	25 297	24 440	23 601	21 744	18 846	15 1011		
Ē	20	58	57	56	55	54	51	47		
Flow(L/min)	50	141	295	439	618	770	884 141	1051		
Flow	75	153 135	152 287	150 433	148 607	145 771	888	134 1057		
	75	233	231	228	223	219	214	206		
	100	129 311	281 309	427 307	601 304	765 299	885 294	1047 286		
	125	116	270	418	592	755	870	1033		
	450	389 108	387 260	385 411	382 581	378 745	372 856	365 1019		
Max.cont.	150	471	469	467	462	455	447	434		
	160	101 503	253 501	406 497	575 493	737 487	846 478	1011 465		
	200	77	235	389	560	716	823	989		
Max.int.	200	631	629	624	618	610	598	576		
		AH5 50								
		3.5	re (Mpa) 7	10	14	18	Max.cont.	Max.int.		
	40	232	448	667	919	1140	1296	1540		
	10	18	18	17	17	16	14	11		
Ē	20	235 38	480 37	707 37	961 35	1180 34	1335 33	1588 30		
Ë	50	230	479	726	982	1217	1388	1670		
Flow(L/min)		97 223	96 477	95 720	94 987	92 1234	89 1413	84 1692		
ш	75	146	145	143	141	138	133	125		
	100	218	470	717	983	1235	1410	1686		
	405	197 211	195 463	193 711	190 971	186 1226	181 1399	173 1672		
	125	247	246	244	241	237	233	225		
Max.cont.	150	193 300	445 299	693 296	966 293	1198 288	1369 282	1663 271		
	175	174	427	681	955	1186	1347	1643		
		350 154	349 405	347 648	343 933	339 1167	334 1327	324 1626		
Max.int.	200	401	400	398	395	390	382	370		
		AH5 80 Pressur					Max.con	t. Max.int.		
		2.5	5	8	10	13	16	18]	
[10	273	555	816	1076	1381	1683		Ī	
}	20	11 277	10 561	10 831	1130	1431	1753	1960	t	
Ë	20	23	22	22	21	20	18	16	1	
Flow(L/min)	50	283	572	841	1142	1438	1760			
<u></u>	75	61 264	60 570	58 840	57 1145	55 1440	1756	49 1962	t	
	75	93	92	91	89	85	82	78	1	
	100	247 124	556 123	826 122	1121 120	1423 117	1737 113	1951 107		
}	125	238	526	810	1099	1403	1709		t	
ļ	125	156	155	153	150	145	141	135	1	
Max.cont.	150	232 188	517 186	794 184	1083 181	1377 177	1685 172	1926 166		
	175	211	495	780	1061	1354	1669		t	
ļ	175	251	249	247	244	241	236	229	1	
Max.int.	200	194 302	460 301	752 300	1045 298	1339 293	1652 288	2 1807 282		
- Auto-of this		302	301	300	290	293	200	202		

		AH5 40 Pressur						
		riessur	e (Ivipa)				Max.cont.	Max.int.
		3.5	7	10	14	18	20	24
		175	367	542	740	923	1050	1233
	10	21	21	20	19	18	17	15
		187	380	563	778	964	1099	1284
Ē	20	46	46	45	44	42	41	39
Flow(L/min)	50	191	384	575	803	992	1131	1364
W	50	119	118	118	117	115	113	108
윤	75	186	376	569	799	995	1133	1366
	,,	183	181	178	174	171	165	159
	100	164	367	566	789	988	1130	1359
	100	247	246	244	242	238	234	225
	125	159	357	556	778	974	1123	1348
	120	310	308	305	302	296	288	281
	150	151	344	533	764	962	1111	1326
flax.cont.	.00	372	371	369	366	361	351	340
	175	136	330	528	748	944	1092	1314
		436	434	431	427	422	415	407
	200	113	316	511	735	924	1076	1294
Aax.int.	200	498	496	492	485	477	470	460
			0[617.8					
		Pressui	re (Mpa)			Max.cont.	Max.int.

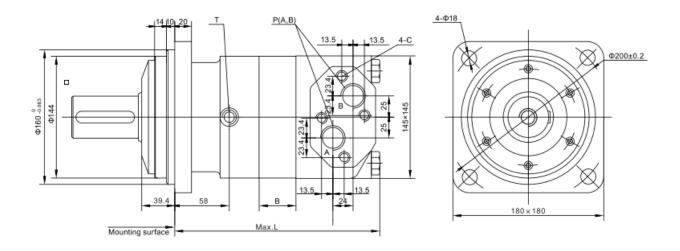
		Pressu	re (Mpa				Max.cont.	Max.int.
		3.5	6	9	12	15	18	21
	10	260	484	753	1020	1175	1436	1654
		15	14	14	13	13	12	11
_	20	267	512	778	1021	1219	1490	1728
<u>-</u>		30	30	29	29	28	26	24
Flow(L/min)	50	268	514	805	1054	1264	1559	1813
¥	00	78	78	77	74	73	71	67
읕	75	250	508	800	1038	1253	1557	1821
	'	118	117	114	112	110	107	101
	100	245	499	794	1013	1251	1552	1822
		157	156	154	152	149	146	140
	125	233	478	776	993	1238	1538	1808
	.20	198	197	195	193	191	187	181
	150	222	459	757	985	1233	1530	1787
flax.cont.		238	237	236	234	232	229	221
	175	195	450	738	975	1205	1517	1769
		279	278	277	274	270	265	260
	200	169	435	696	944	1187	1493	1746
Nax.int.		320	320	318	316	313	306	294

			985[9 sure (N				Max.cont.	Max.int.
		14	16					
	10	305 9		27 9	951 9	1371 8	1936 7	2212 6
(ii	20	313 29		34 8	957 27	1380 26	1938 23	2222 21
Flow(L/min)	50	319 48		41 7	971 46	1392 44	1973 42	2232 39
윤	75	311 74		29 3	966 72	1395 69	1961 67	2228 64
	100	303 100		21 9	962 97	1388 95	1952 92	2196 88
	125	297 12 6	_	11 25	955 123	1379 120	1946 116	2177 112
Max.cont.	150	272 152		89 51	941 149	1339 147	1922 143	2162 136
	175	258 178		68 76	926 174	1310 170	1885 165	2114 158
Max.int.	200	163 24 5		02 42	849 238	1240 234	1787 230	1991 223

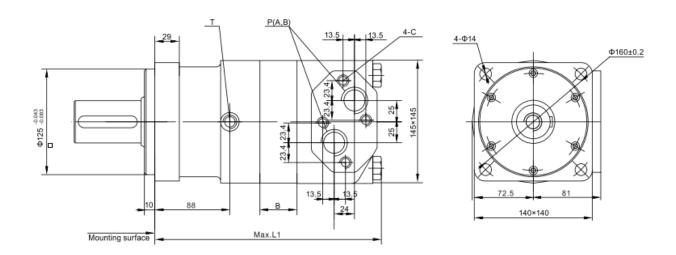
Torque : 1045Nm Speed : 298r/min Cont.

• AH5 Installation

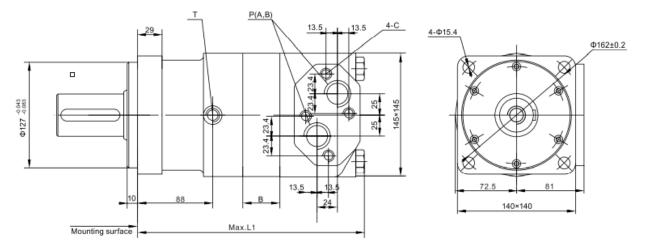
Square flange A



Square flange A1



Square flange A7



Type	AH5-315	AH5-400	AH5-500	AH5-630	AH5-800	AH5-985
L	216	223	231	241	255	270
В	246	253	261	271	285	300
L2	19	26	34	44	58	73

• AH5 PORTS CODE

Ports	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 x 2 (18)	M12 (12)	M14 x 1.5 (12)
Y8	M27 x 2 (18)	M12 (12)	M14 x 1.5 (12)
Y10	1 5/16-12UN (18)	_	9/16-18UNF (12)

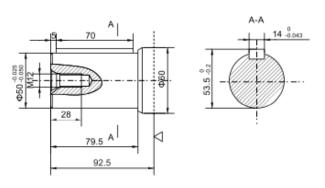
P (A,B) --Ports, C--Mouting Thread (—Indicates no this thread), T –Drain connettion

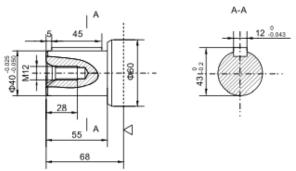
• AH5 SHAFT VERSION

Only match A, A1, A7 flange

P: \emptyset 50 Cylindrical shaft, parallel key 14 x 9 x 70 45

P1: Ø40 Cylindrical shaft, parallel key 12 x 8 x



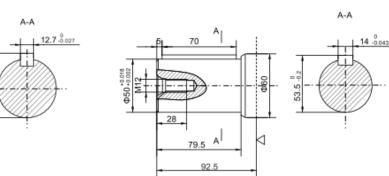


P99: Ø50 Cylindrical shaft, parallel

key 14x9x70

P12: Ø57.15 Cylindrical shaft, parallel

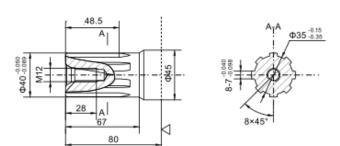
key 12.7x12.7x57



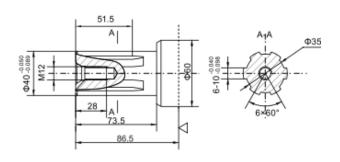
H4: Ø40 Splined shaft, 8-40 x 35 x 7

Αl

92.5



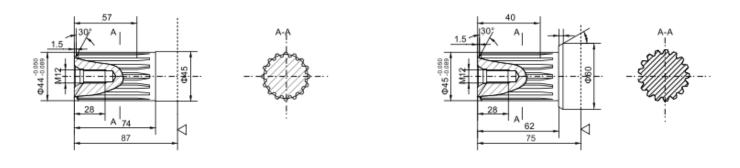
H4: Ø40 Splined shaft, 8-40 x 35 x 7



• AH5 SHAFT VERSION

K2: Ø44 involute splined shaft m2.5 z16 a = 30°

K3: Ø45 involute splined shaft m2.5 z17 $a = 30^{\circ}$



Note: Flange with A4 tyle, hydraulic motor shaft from the mouting surface to increase 30mm

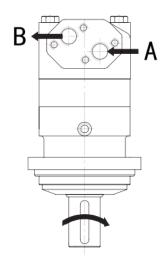
AH5 SERIES MOTOR

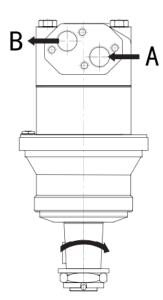
Direction of shaft ration: Standard

When facing shaft end of motor, shaft to rotate

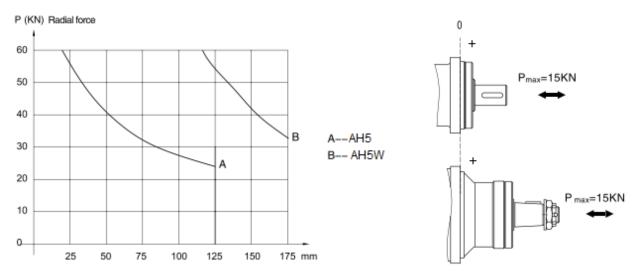
Clockwise when port "A" is pressurized

Counter-clockwise port "B" is pressurized





• PERMISSIBLE SHAFT LOADS



• AH5 ORDERING CODE

1		2	3	4	5		6		7
AH5	-					/		-	

Pos.1	2	3		4		5			6		7	
		Output		Flange		Code	Ports				Rotation	
Series	Disp						Ports (deep)	Drain ports T(deep)	Sp	ecial features	direction	
AH5	160	Р	Ø50 Cylindrical shaft, parallel key 14 x 9 x 70	A	4-Ø18 square flange,pilot Ø160	Y	G1 (18)	G1/4 (12)		Standard	Omit L	Standard Opposite
	200	P1	Ø40 Cylindrical shaft, parallel key 12 x 8 x 50			Y1	G3/4 (18)	G1/4 (12)				
	250	P12	Ø57.15 Cylindrical shaft, parallel key 12.7 x 12.7 x 57									
		P99	Ø50 Cylindrical shaft, parallel key 14 x 9 x 70	A1	4-Ø14 square flange,pilot Ø125	Y2	M33 x 2(18)	M14 x 1.5(12)				
	315	H4	Ø40 Splined shaft, 8-40 x 35 x 7									
	400 500	H5	Ø40 Splined shaft, 6-40 x 35 x 10		4-Ø15.4 square flange,pilot Ø127	Y3	M27 x 2(18)	M14 x 1.5(12)				
		1/0	Ø44 involute Splined shaft, m2.5	A7								
		K2	z16,a=30°			Y8	1 5/16- 12UN(18)	9/16-18UNF(12)				
		КЗ	Ø45 involute Splined shaft, m2.5 z17,a=30°									