ACCESSHYDRO

Hydraulic Orbit Motors

INDEX

■ AHMM series INTRODUCTION

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

■ AHMM series CHARACTERISTICS

1. With the axial oil distribution structur,it is of smaller,high efficiency and long life.

2. Shaft seal can bear high pressure of motor of which can be used in parallel or in series.

■ AHMM series TECHNICAL DATA

Type		AHMM-8	AHMM-12.5	AHMM-20	AHMM-32	AHMM-40	AHMM-50
:Displacement.(ml/r)		8.2	12.9	19.9	31.6	39.8	50.3
Max.Pressure. Drop (Mpa)	cont.	10	10	10	10	9	7
	int.	14	14	14	14	14	14
	peak.	20	20	20	16	16	16
Max.torque (Nm)	cont.	11	16	25	40	45	46
	int.	15	23	35	57	70	88
	peak.	21	33	51	64	82	100
Speed.Range(cont.)(r/min)		1950	1550	1000	630	500	400
Max.Flow(cont.)(L/min)		16	20	20	20	20	20
Max.Output.Power(cont.)		1.8	2.4	2.4	2.4	2.4	1.8
Weight(Kg)		1.9	2	2.1	2.2	2.3	2.4

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

AHMM series motor

■ AHMM series PERFORMANCE DATA

AHMM 8[8.2ml/r]

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

AHMM 12.5[12.9ml/r]

Flow(L/min)	Pressure (Mpa) 3.5	5	7	10	12	14
2	6 / **140**	8 / **136**	11 / **119**	16 / **68**	19 / **111**	
4	6 / **296**	8 / **289**	12 / **274**	17 / **229**	19 / **391**	23 / **145**
8	5 / **605**	8 / **596**	12 / **583**	17 / **543**	20 / **855**	24 / **469**
12	5 / **912**	8 / **905**	11 / **895**	16 / **859**	20 / **1324**	24 / **784**
15	5 / **1152**	7 / **1144**	11 / **1136**	16 / **1102**	19 / **1833**	23 / **1036**
Max.cont. 20	3 / **1542**	7 / **1532**	10 / **1521**	15 / **1500**	19 / **2328**	22 / **1437**
Max.int. 25	2 / **1910**	6 / **1891**	9 / **1878**	14 / **1848**	18 / **1828**	22 / **1788**

AHMM 20[19.9ml/r]

Flow(L/min)	Pressure (Mpa) 1.7	3.5	5	7	10	12	14
2	3 / **99**	9 / **96**	14 / **89**	19 / **74**	26 / **42**	30 / **21**	
4	4 / **197**	9 / **191**	14 / **182**	19 / **178**	26 / **134**	31 / **112**	36 / **74**
8	4 / **398**	9 / **395**	13 / **391**	19 / **377**	27 / **340**	31 / **319**	36 / **288**
12	3 / **596**	8 / **594**	13 / **588**	18 / **579**	26 / **545**	31 / **523**	37 / **493**
15	3 / **745**	8 / **741**	12 / **738**	17 / **728**	25 / **695**	30 / **684**	36 / **660**
Max.cont. 20	1 / **998**	6 / **995**	11 / **991**	19 / **985**	24 / **962**	29 / **916**	35 / **885**
Max.int. 25		4 / **1247**	9 / **1245**	14 / **1242**	23 / **1189**	28 / **1180**	33 / **1176**

AHMM 32[31.6ml/r]

Flow(L/min)	Pressure (Mpa) 2	3.5	5	7	10	12	14
2	7 / **61**	15 / **57**	21 / **52**	28 / **47**	40 / **16**		
4	7 / **126**	15 / **121**	21 / **114**	29 / **106**	41 / **82**	48 / **67**	57 / **49**
8	7 / **250**	15 / **244**	21 / **239**	29 / **231**	41 / **207**	49 / **194**	58 / **167**
12	6 / **378**	13 / **374**	20 / **369**	28 / **362**	40 / **338**	48 / **322**	58 / **297**
15	4 / **476**	12 / **472**	18 / **468**	27 / **462**	39 / **441**	47 / **429**	57 / **406**
Max.cont. 20	3 / **633**	10 / **630**	17 / **627**	25 / **619**	37 / **601**	46 / **585**	55 / **566**
Max.int. 25	1 / **791**	8 / **789**	15 / **787**	23 / **783**	35 / **766**	43 / **753**	52 / **732**

AHMM 40[39.8ml/r]

Flow(L/min)	Pressure (Mpa) 3	5	7	8.5	10	12
2	16 / **45**	27 / **40**	36 / **34**	44 / **28**	51 / **17**	
4	16 / **96**	27 / **93**	37 / **85**	44 / **79**	52 / **65**	62 / **52**
8	15 / **197**	26 / **195**	36 / **182**	44 / **176**	52 / **166**	63 / **154**
12	14 / **293**	25 / **287**	35 / **282**	43 / **277**	51 / **268**	62 / **257**
15	13 / **371**	24 / **365**	34 / **360**	42 / **355**	50 / **347**	62 / **338**
Max.cont. 20	10 / **497**	21 / **492**	31 / **487**	39 / **480**	48 / **472**	59 / **463**
Max.int. 25	7 / **622**	19 / **617**	29 / **612**	37 / **607**	44 / **600**	56 / **591**

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

AHMM 50[50.3ml/r]

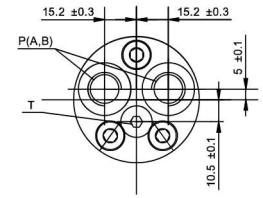
Flow(L/min)	Pressure (Mpa) 1.5	3	5	7	10
2	11 / **37**	23 / **33**	36 / **27**	50 / **22**	
4	11 / **76**	22 / **73**	36 / **68**	50 / **63**	70 / **55**
8	11 / **157**	21 / **154**	35 / **149**	50 / **145**	71 / **137**
12	11 / **237**	20 / **234**	33 / **231**	49 / **226**	71 / **218**
15	10 / **296**	18 / **295**	32 / **294**	47 / **288**	69 / **282**
Max.cont. 20	8 / **395**	14 / **395**	29 / **393**	44 / **390**	64 / **381**
Max.int. 25	4 / **498**	10 / **496**	25 / **494**	40 / **490**	59 / **484**

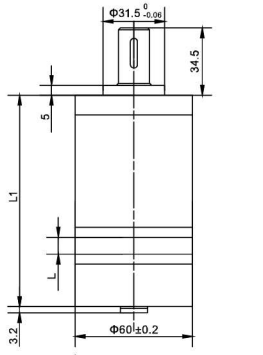
Cont.
Int.

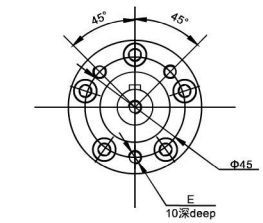
■ AHMM series Installation

(End port Y)

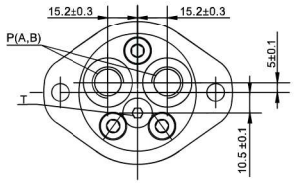
C, CH: Flange

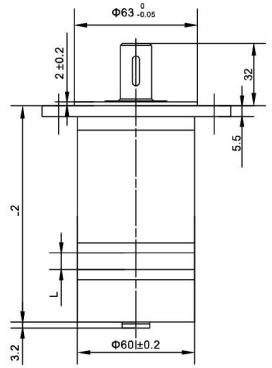


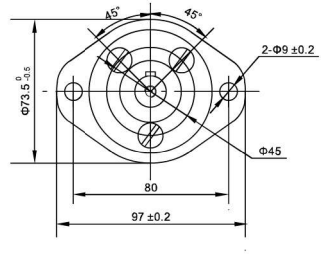




AH: 2–hole oval flange







Flange	E
C	3–M6
CH	3–1/4–28UNF

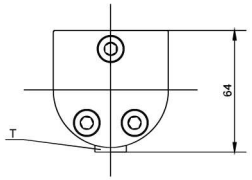
Type	AHMM-8	AHMM-12,5	AHMM-20	AHMM-32	AHMM-40	AHMM-50
L	3.5	5.5	8.5	13.5	17	21.5
L1	104	106	109	114	117.5	122
L2	107.5	109.5	112.5	117.5	121	125.5

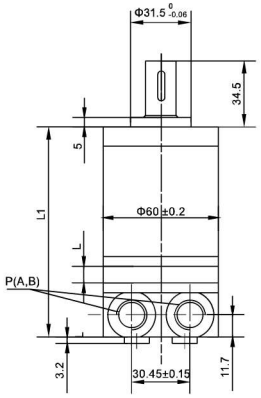
AHMM series motor

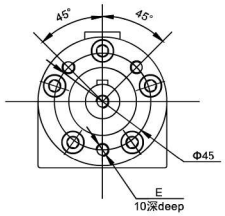
■ AHMM series Installation

S*(Side port S*)

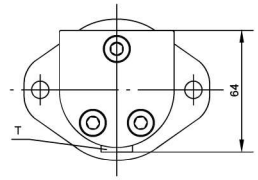
C, CH: Flange

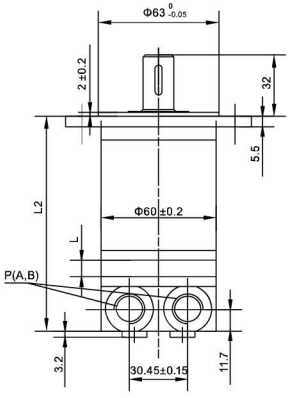


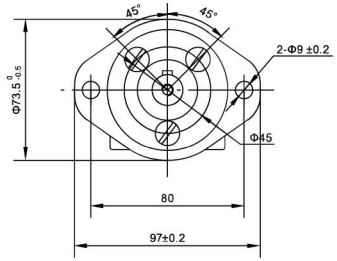




AH: 2–hole oval flange





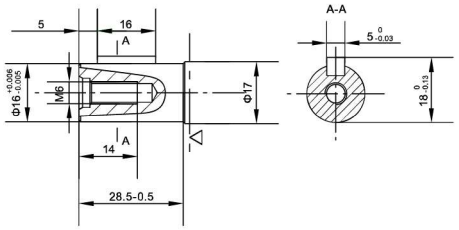


Flange	E
C	3–M6
CH	3–1/4–28UNF

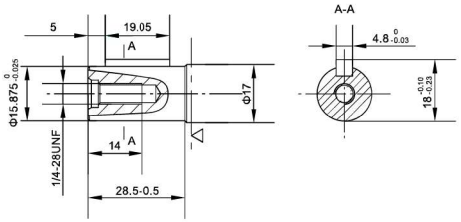
Type	AHMM-8	AHMM-12.5	AHMM-20	AHMM-32	AHMM-40	AHMM-50
L	3.5	5.5	8.5	13.5	17	21.5
L1	105	107	110	115	118.5	123
L2	108.5	110.5	113.5	118.5	122	126.5

■ AHMM series SHAFT VERSION

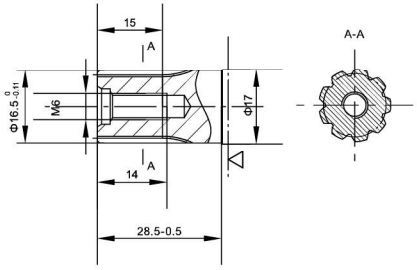
R1: Φ16 Cylindrical shaft，parallel key5 × 5 × 16

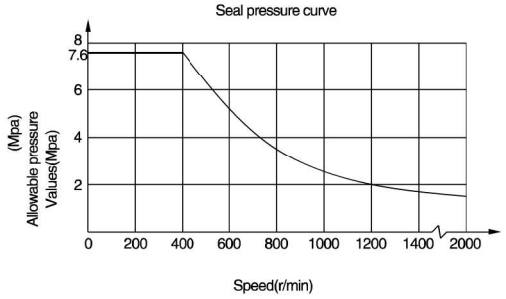


R2: Φ15.875Cylindrical shaft，parallel key4.8 × 4.8 × 19.05



K1: Φ16.5involute splined shaft B17 × 14 DIN5482



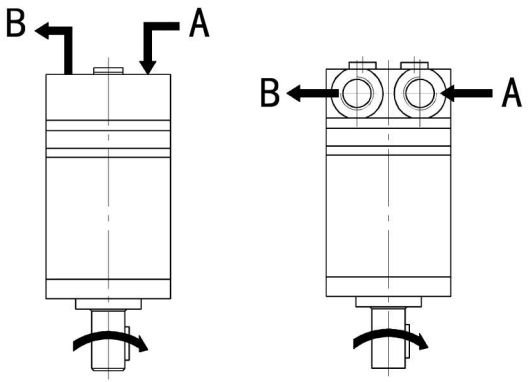


Motor mounting surface

■ AHMM series DIRECTION OF SHAFT ROTATION: STANDARD

Direction of shaft ration：Standard

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



■ AHMM series ORDERING CODE

Pos.1	2	3			4		5			6		7
Series	Disp	Output			Flange	Code	Ports P(A,B) Ports(A,B)(deep)	Drain port T(deep)		Special features		Rotation direction
AHMM	8	R1	Φ16 Cylindrical shaft，parallel key5 × 5 × 16	C	3–M6 Flange, pilot Φ 31.5		★(End port Y★)		Omit	Standard	Omit	Standard
	12.5					Y1	G3/8(12),G1/8(8)					
	20	R2	Φ15.875 Cylindrical shaft，parallel key4.8 × 4.8 × 19.05	CH	3–1/4–28UNF Fange, pilot Φ 31.5	Y2	9/16–18UNF(12),3/8–24UNF(8)					
	32						S★(Side port S★)					
	40					S1	G3/8(12),G1/8(8)				L	Opposite
	50	K1	Φ16.5 involute splined shaft，B17 × 14 DIN5482	AH	2–Φ9 Oval fange, pilot Φ Φ63	S2	9/16–18UNF(12),3/8–24UNF(8)					

1	2	3	4	5	6	7
AHMM	—			/		—

AHMR series INTRODUCTION

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

AHMR series CHARACTERISTICS

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

AHMR series TECHNICAL DATA

Type	AHMR AHMRW AHMRS 50	AHMR AHMRW AHMRS 50	AHMR AHMRW AHMRS 80	AHMR AHMRW AHMRS 100	AHMR AHMRW AHMRS 125	AHMR AHMRW AHMRS 160	AHMR AHMRW AHMRS 200	AHMR AHMRW AHMRS 250	AHMR AHMRW AHMRS 315	AHMR AHMRW AHMRS 400
Displacement.(ml/r)		51.7	80.5	100.5	126.3	160.8	200.9	252.6	321.5	401.9
Max.Pressure. Drop (Mpa)	cont.	14	14	14	14	14	14	11	9	7
	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
Max.torque (Nm)	cont.	93	152	194	237	310	369	380	380	380
	int.	118	189	236	296	378	450	470	470	470
	peak.	135	216	270	338	433	509	540	540	540
Speed.Range(cont.)(r/min)		10–775	10–750	10–600	10–475	10–375	10–300	10–240	10–190	10–160
Max.Flow(cont.)(L/min)		40	60	60	60	60	60	60	60	60
Max.Output.Power(cont.)		7	10	10	10	10	8	6	5	4
Weight(Kg)		6.5	6.9	7.0	7.3	7.5	8.0	8.5	9.0	11

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

AHMR series PERFORMANCE DATA

AHMR 50[51.7ml/r]

Flow(L/min) \ Pressure (Mpa)	5	7	9	10	12	14	16	17.5
5	34 / **94**	44 / **85**	58 / **77**	65 / **77**	75 / **72**	88 / **50**		
10	35 / **188**	45 / **179**	61 / **167**	68 / **163**	79 / **154**	94 / **137**	107 / **119**	119 / **98**
15	34 / **285**	48 / **279**	62 / **271**	72 / **263**	87 / **252**	100 / **232**	108 / **213**	122 / **187**
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**

AHMR 80[80.5ml/r]

Flow(L/min) \ Pressure (Mpa)	5	7	9	10	12	14	16	17.5
5	48 / **61**	58 / **58**	84 / **52**	106 / **46**	129 / **40**			
10	50 / **122**	74 / **116**	96 / **112**	106 / **108**	126 / **106**	145 / **99**	170 / **60**	
20	54 / **243**	76 / **239**	100 / **231**	109 / **219**	131 / **206**	152 / **192**	174 / **176**	193 / **152**
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**
Max.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**
Max.int. 75	19 / **910**	48 / **895**	76 / **881**	88 / **867**	108 / **852**	132 / **830**	151 / **806**	168 / **787**

AHMR 100[100.5ml/r]

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

AHMR 125[126.3ml/r]

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

AHMR 160[160.8ml/r]

Flow(L/min) \ Pressure (Mpa)	5	7	9	10	12	14	16	17.5
5	100 / **29**	142 / **26**	188 / **21**	207 / **19**				
10	104 / **62**	146 / **60**	191 / **58**	211 / **49**	245 / **45**	282 / **32**	330 / **25**	
20	102 / **124**	148 / **120**	194 / **118**	218 / **114**	251 / **109**	290 / **104**	338 / **99**	368 / **94**
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 / **155**
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
(Speed) : 450r/min

Cont.
Int.

AHMR 200[200.9ml/r]

Flow(L/min) \ Pressure (Mpa)	5	7	9	10	12	14	16	17.5
5	129 / **24**	176 / **22**	230 / **18**	256 / **13**				
10	133 / **49**	182 / **47**	236 / **45**	261 / **43**	310 / **38**	352 / **33**	400 / **24**	
20	131 / **99**	181 / **97**	232 / **94**	256 / **92**	308 / **88**	354 / **83**	400 / **74**	431 / **64**
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**
Max.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**
Max.int. 75	58 / **382**	125 / **379**	197 / **373**	220 / **362**	270 / **350**	321 / **337**	360 / **322**	398 / **312**

■ AHMR series PERFORMANCE DATA

AHMR 250[252.6ml/r]

Flow(L/min) \ Pressure (Mpa)	5	7	9	10	11	12	14
5	172 **20**	240 **19**	300 **18**	338 **16**	352 **15**		
10	173 **42**	242 **38**	308 **36**	340 **33**	351 **33**	405 **28**	462 **22**
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**
60 Max.cont.	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**
75 Max.int.	60 **297**	163 **294**	254 **290**	286	291 **282**	345 **277**	410 **266**

AHMR 315[321.5ml/r]

Flow(L/min) \ Pressure (Mpa)	3	5	7	9	10	11
5	110 **14**	199 **12**				
10	108 **31**	190 **30**	272 **29**	360 **28**	400 **26**	451 **25**
20	110 **61**	196 **60**	279 **59**	356 **57**	398 **55**	448 **53**
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**
60 Max.cont.	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**
75 Max.int.	66 **232**	132 **231**	212 **228**	303 **222**	332 **216**	402 **214**

AHMR 400[401.9ml/r]

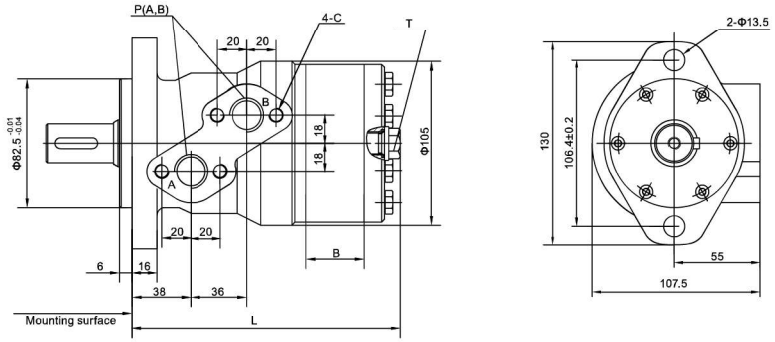
Flow(L/min) \ Pressure (Mpa)	3	4	6	7	8	9
5	152 **12**					
10	154 **24**	205 **21**	308 **18**	349 **17**		
20	150 **49**	201 **48**	302 **47**	340 **46**	392 **44**	441 **41**
30	146 **73**	198 **74**	296 **73**	331 **72**	387 **70**	438 **67**
40	140 **98**	191 **97**	290 **96**	321 **95**	381 **94**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

(Torque) : 232Nm
(Speed) : 178r/min

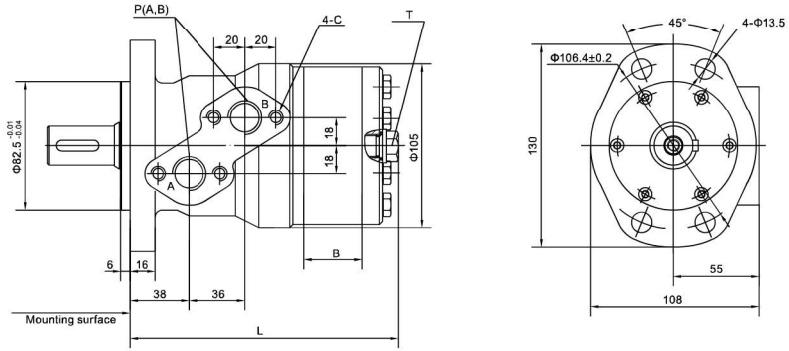
Cont.
Int.

■ AHMR series Installation

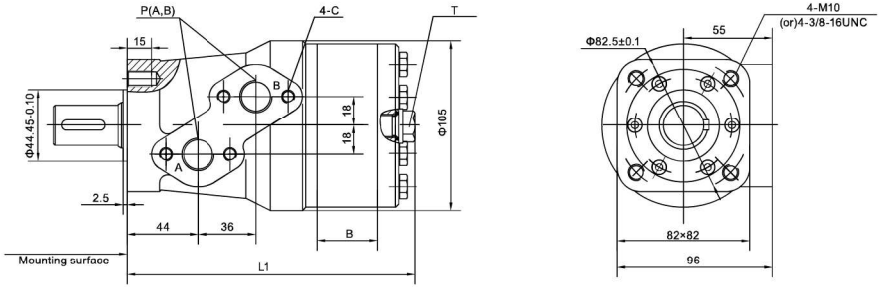
AH: 2-hole oval flange A Ⅱ



A4: 4-hole oval flange A Ⅳ



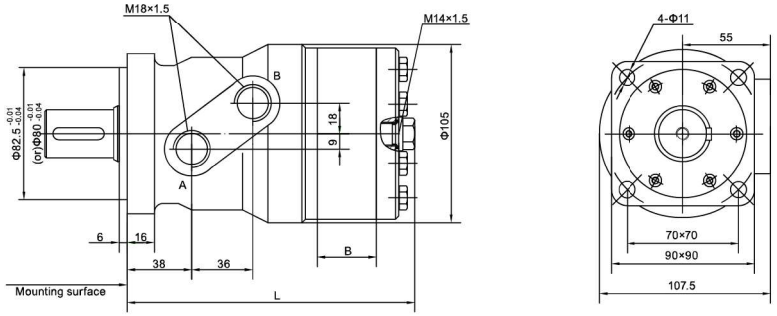
C, CH: Square flange



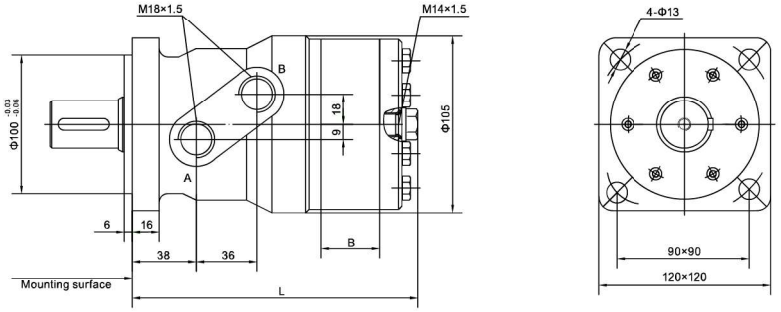
Note: **C, CH** mounting are assembling to AHMRS shaft。

■ AHMR series Installation

A, AH: Square flange



A23: Square flange



Type	AHMR-50	AHMR-80	AHMR-100	AHMR-125	AHMR-160	AHMR-200	AHMR-250	AHMR-315	AHMR-400
L	142	147	150.5	155	161	168	177	189	203
L1	150	155	158.5	163	169	176	185	197	211
B	9	14	17.5	22	28	35	44	56	70

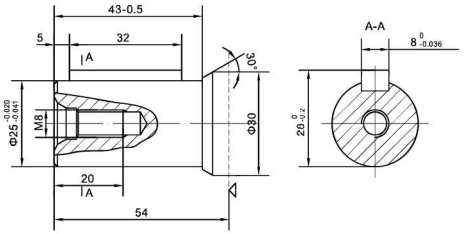
■ AHMR series PORTS CODE

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

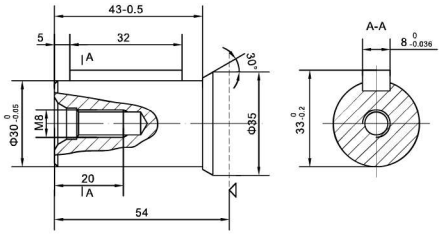
Note:P(A、B)--Ports，C—Mounting Thread（—Indicates no this thread），T--Drain connettion

■ AHMR series SHAFT VERSION

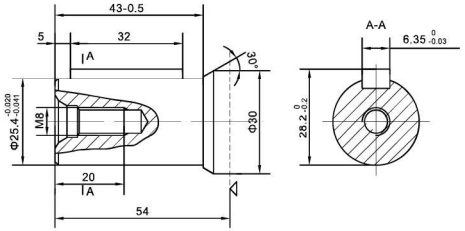
R1: Φ25 Cylindrical shaft，parallel key8 × 7 × 32



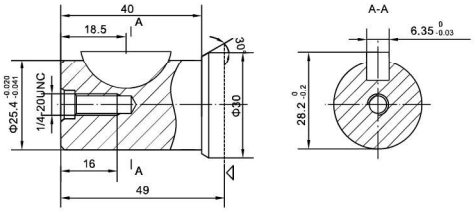
R2: Φ30 Cylindrical shaft，parallel key8 × 7 × 32



R3: Φ25.4 Cylindrical shaft，parallel key6.35 × 6.35 × 32

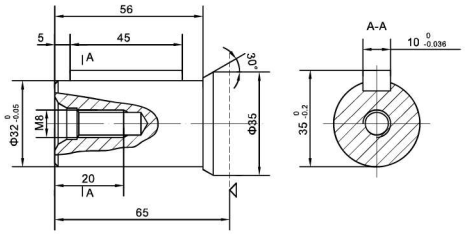


R4: Φ25.4 Cylindrical shaft，Woodruff key Φ25.4 × 6.35

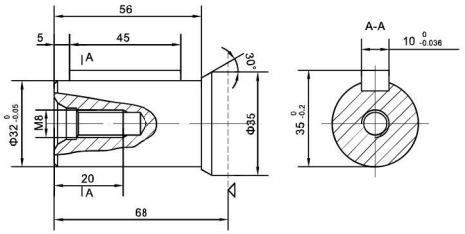


■ **AHMR series** SHAFT VERSION

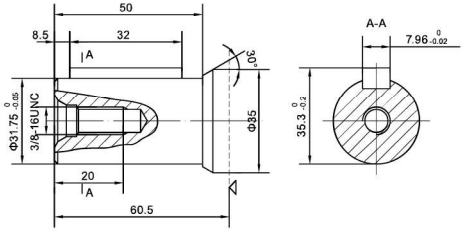
R5: Φ32 Cylindrical shaft，parallel key10 × 8 × 45



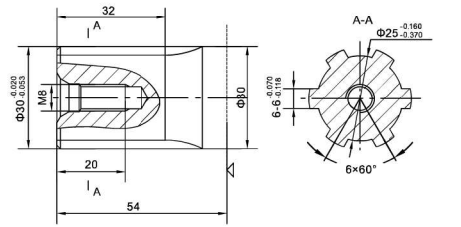
R52: Φ32 Cylindrical shaft，parallel key10 × 8 × 45



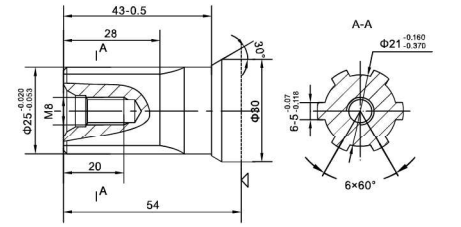
R6: Φ31.75 Cylindrical shaft，parallel key7.96 × 7.96 × 32



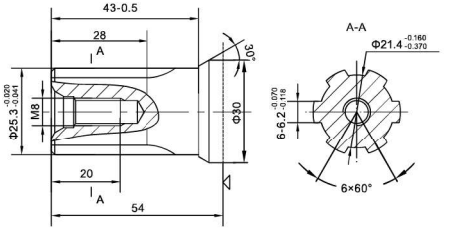
H1: Φ30 Splined shaft，6–30 × 25 × 6



H2: Φ25 Splined shaft，6–25 × 21 × 5

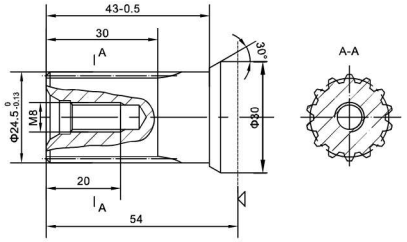


H3: Φ25.3 Splined shaft，6–25.3 × 21.4 × 6.2

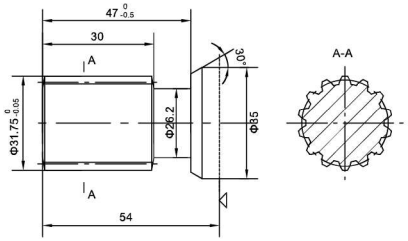


■ **AHMR series** SHAFT VERSION

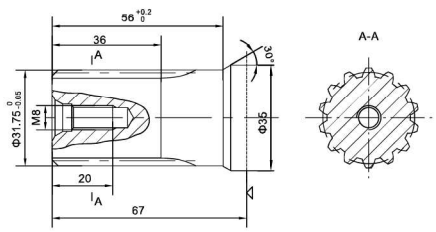
K4: Φ24.5 involute splined shaft B25 × 22 DIN5482 m: 1.6 Z:14



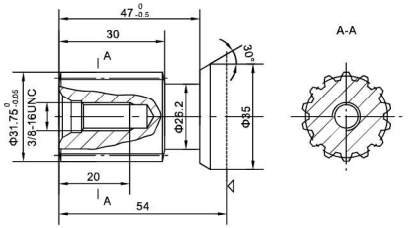
K10: Φ31.75 involve splined shaft 14–DP12/24 a=30°



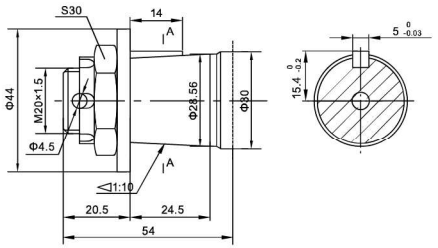
K13: Φ31.75 involute splined shaft 14–DP12/24 a=30°



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

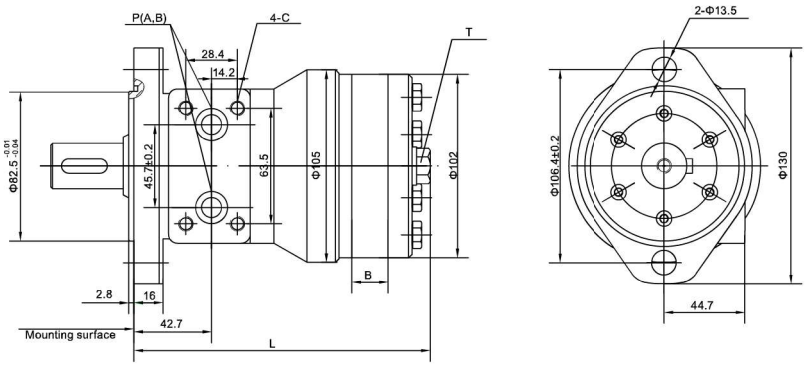


Z1: Φ28.56Tapered shaft，taper1:10， parallel key5 × 5 × 14

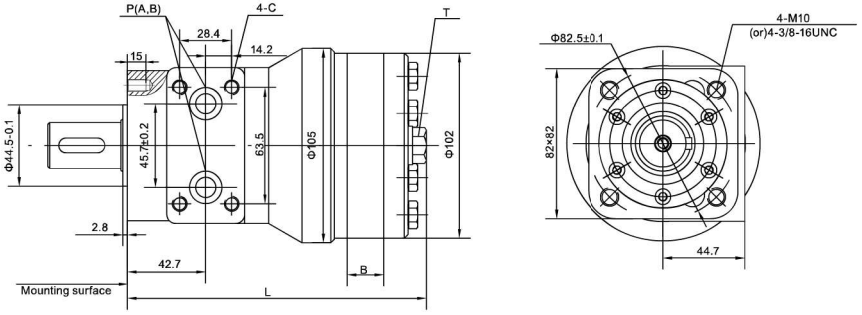


■ AHMRS series Installation

AH: 2–hole oval flange



C, CH: Square flange



Type	AHMRS-50	AHMRS-80	AHMRS-100	AHMRS-125	AHMRS-160	AHMRS-200	AHMRS-250	AHMRS-315	AHMRS-400
L	150	155	158.5	163	169	176	185	197	211
B	9	14	17.5	22	28	35	44	56	70

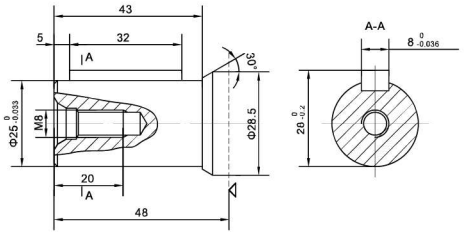
■ AHMRS series PORTS CODE

Code \ Ports	P(A、B) deep)	C deep)	T deep)
Y	G1/2 (15)	—	M14×1.5(12)
Y5	7/8–14UNF(15)	—	7/16–20UNF(12)
Y7	ZG1/2(15)	—	G1/4(12)
Y9	NPTF1/2(15)	—	7/16–20UNF(12)
Y10	G1/2(15)	—	G1/4(12)
Y17	3/4–16UNF(15)	—	7/16–20UNF(12)
Y19	Φ11(15)	5/16–18UNC(13)	7/16–20UNF(12)
Y20	M18×1.5(15)	M8 (13)	G1/4(12)

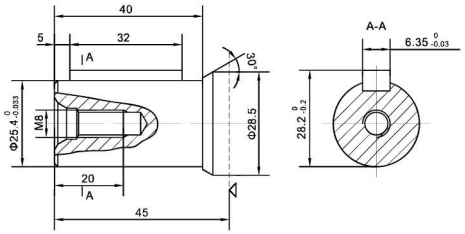
P(A、B)––Ports，C––Mounting Thread （—Indicates no this thread），T––Drain connettion

■ AHMRS series SHAFT VERSION

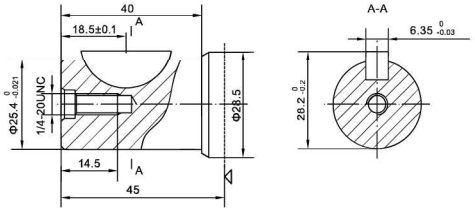
R1: Φ25 Cylindrical shaft，parallel key8×7×32



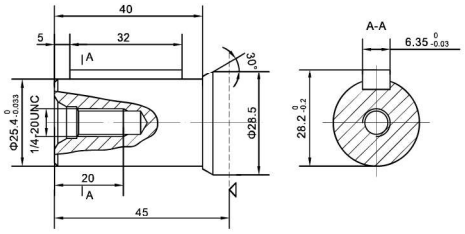
R3: Φ25.4 Cylindrical shaft，parallel key6.35×6.35×32



R4: Φ25.4 Cylindrical shaft，Woodruff key Φ25.4×6.35



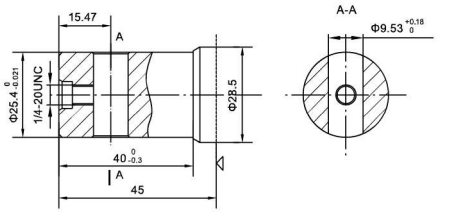
R33: Φ25.4 Cylindrical shaft，parallel key6.35×6.35×32



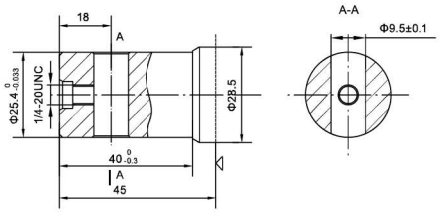
Motor mounting surface

■ AHMRS series SHAFT VERSION

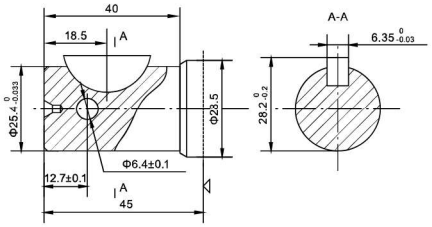
R89: Φ25.4Cylindrical shaft pin hole Φ9.53



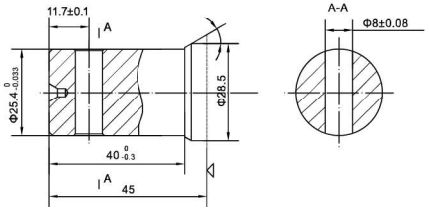
R93: Φ25.4Cylindrical shaft pin hole Φ9.5



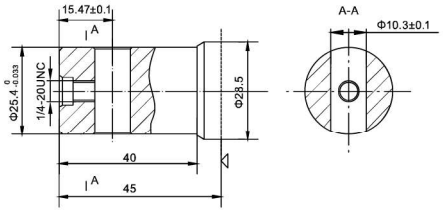
R95: Φ25.4Cylindrical shaft pin hole Φ6.4，Woodruff key Φ25.4 × 6.35



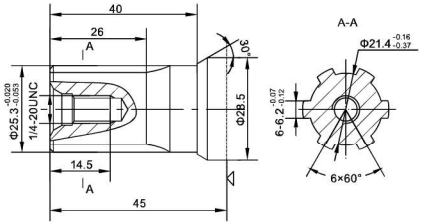
R96: Φ25.4Cylindrical shaft pin hole Φ8



R97: Φ25.4Cylindrical shaft pin hole Φ10.3



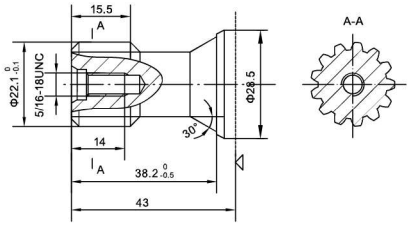
H4: Φ25.3 Splined shaft， 6–25.3 × 21.4 × 6.2



Motor mounting surface

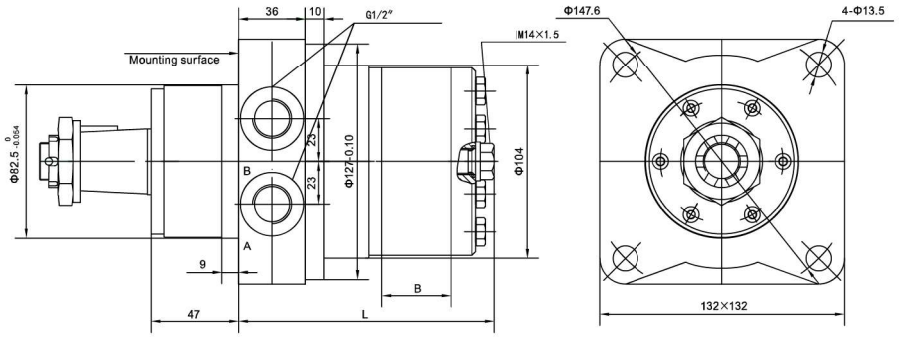
■ AHMRS series SHAFT VERSION

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



Motor mounting surface

■ AHMRW series Installation



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

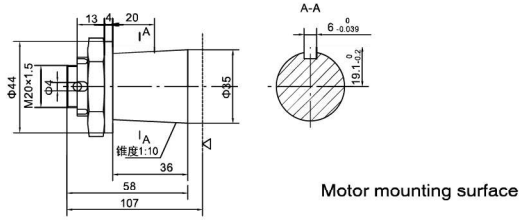
■ AHMRW series PORTS CODE

Code \ Ports	P(A、B) deep)	C (deep)	T (deep)
Y	G1/2 (15)	—	M14 × 1.5(12)

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

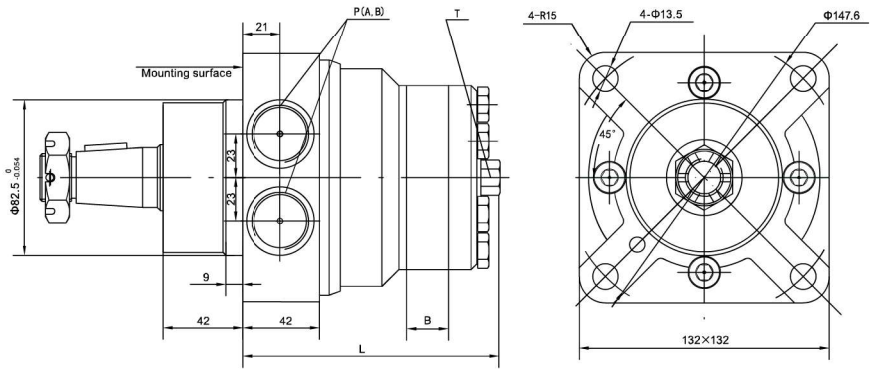
■ AHMRW series

Z: Φ35 Tapered shaft，taper1:10，parallel key B6 × 6 × 20



Motor mounting surface

■ AHMRW1 series Installation



Type	AHMRW1-50	AHMRW1-80	AHMRW1-100	AHMRW1-125	AHMRW1-160	AHMRW1-200	AHMRW1-250	AHMRW1-315	AHMRW1-400
L	125	130	134	138	144	151	160	172	186
B	9	14	17.5	22	28	35	44	56	70

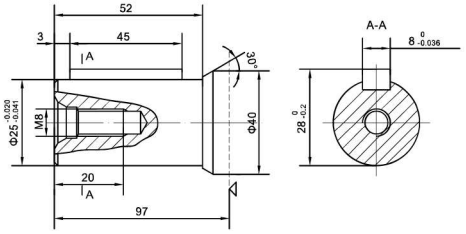
■ AHMRW1 series PORTS CODE

Code \ Ports	P(A、B) deep)	C (deep)	T (deep)
Y	G1/2 (15)	—	M14 × 1.5(12)
Y5	7/8-14UNF(15)	—	M14 × 1.5(12)
Y10	G1/2 (15)	—	G1/4 (12)

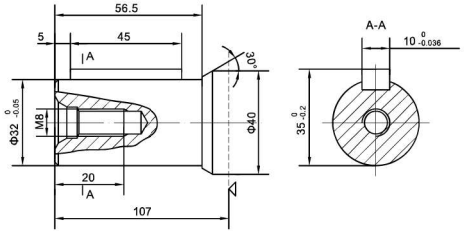
P(A、B)--Ports，C--Mounting Thread （—Indicates no this thread），T--Drain connettion

■ AHMRW1 series SHAFT VERSION

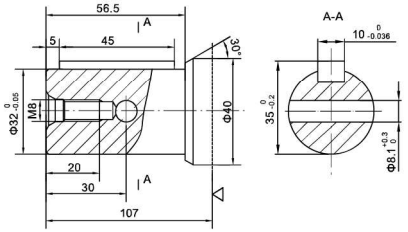
R1: Φ25 Cylindrical shaft, Parallel key 8 × 7 × 45



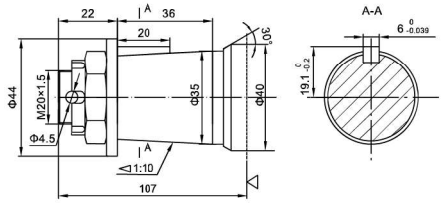
R5: Φ32 Cylindrical shaft, parallel key 10 × 8 × 45



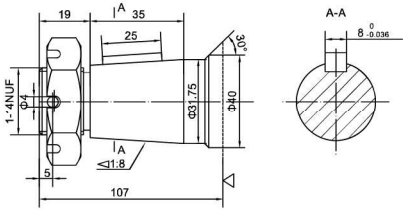
R6: Φ32 Cylindrical shaft, Cylindrical shaft pin hole Φ 8.1, parallel key 10 × 8 × 45



Z: Φ35 Tapered shaft, taper1:10, parallel key B6 × 6 × 20



Z1: Φ31.75 Tapered shaft, taper1:8, parallel key 8 × 7 × 25

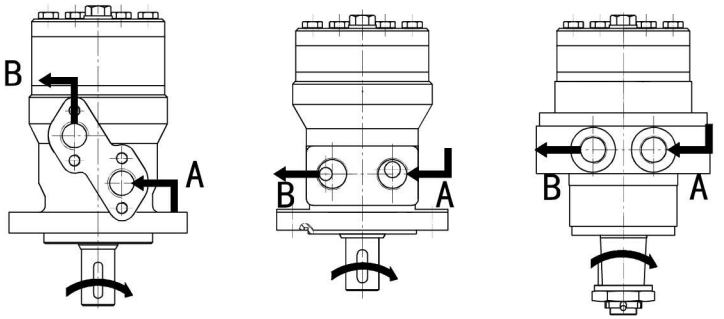


Motor mounting surface

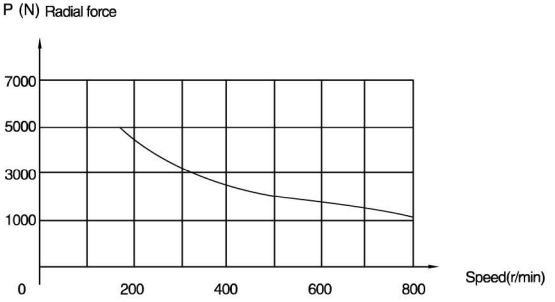
■ AHMR, AHMRS, AHMRW Series Mortor

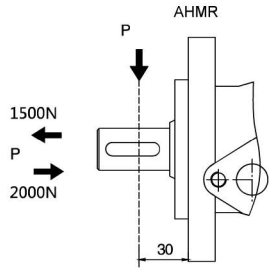
Direction of shaft ration: Standard

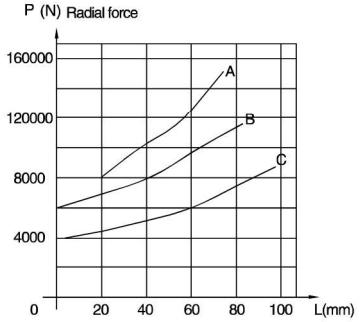
When facing shaft end of motor, shaft to rotate:
Clockwise when port "A" is pressurized.
Counter-clockwise port "B" is pressurized.



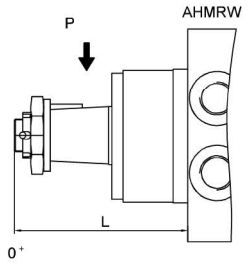
PERMISSIBLE SHAFT LOADS







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



■ AHMR, AHMRS, AHMRW ORDERING CODE

1		2	3	4	5		6		7
AHMR	—					/		—	

Pos.1	2	3		4		5			6		7	
Series	Disp	Output		Flange		Code	Ports		Special features		Rotation direction	
							Ports(A,B)(deep)	Drain port T(deep)				
AHMR	50	R1	Φ25 Cylindrical shaft, parallel key8×7×32	AH	2–Φ13.5 Oval flange, pilot Φ82.5×6	Y	G1/2(15)	M14×1.5(12)	Omit	Stancard	Omit	Standard
	80	R2	Φ30 Cylindrical shaft, parallel key8×7×32			Y1	M18×1.5(15)	M14×1.5(12)	TD	With dustproof ring	L	Opposite
		R3	Φ25.4 Cylindrical shaft, parallel key6.35×6.35×32	A4	4–Φ13.5 Oval flange, pilot Φ82.5×6	Y2	M22×1.5(15)	M14×1.5(12)				
	100	R4	Φ25.4 Cylindrical shaft, Woodruff key Φ25.4×6.35									
		R5	Φ32 Cylindrical shaft, parallel key10×8×45	C	4–M10 Square flange, pilot Φ44.45×2.5	Y4	ZG3/8(15)	M14×1.5(12)				
	125	R52	Φ32 Cylindrical shaft, parallel key10×8×45			Y5	7/8–14UNF(15)	M14×1.5(12)				
		R6	Φ31.75 Cylindrical shaft, parallel key7.96×7.96×32	CH	4–3/8–16UNC Square flange, pilot Φ44.45×2.5							
	160	H1	Φ30 Splined shaft, 6–30×25×6			Y7	ZG1/2(15)	M14×1.5(12)	TH	With high pressure seals		
		H2	Φ25 Splined shaft, 6–25×21×5									
	200	H3	Φ25.3 Splined shaft, 6–25.3×21.4×6.2	A	4–Φ11Square flange, pilot Φ82.5×6	Y8	NPT1/2(15)	M14×1.5(12)				
		K4	Φ24.5 involute splined shaft, B25×22 DIN5482									
	250	K10	Φ31.75 involute splined shaft, 14–DP12/24 a=30°	A1	4–Φ11 Square flange, pilot Φ80×6	Y9	NPTF1/2(15)	7/16–20UNF(12)				
	315	K13	Φ31.75 involute splined shaft, 14–DP12/24 a=30°			Y10	G1/2(15)	G1/4(12)				
		K14	Φ31.75 involute splined shaft, 14–DP12/24 a=30°	A23	4–Φ13 Square flange, pilot Φ100×6							
	400	Z1	Φ28.56 Tapered shaft, taper1:10, parallel key 5×5×14			Y15	7/8–14UNF(15)	7/16–20UNF(12)				

AHMR, AHMRS, AHMRW series motors

■ AHMR, AHMRS, AHMRW ORDERING CODE

1		2	3	4	5		6		7
AHMRS	—					/		—	

Pos.1	2	3		4		5			6		7	
Series	Disp	Output		Flange		Code	Ports		Special features		Rotation direction	
							Ports(A,B)(deep)	Drain port T(deep)				
AHMRS	50	R1	Φ25 Cylincrical shaft, parallel key8×7×32	AH	2–Φ13.5 Oval flange, pilot Φ82.5×2.8	Y	G1/2(15)	M14×1.5(12)	Omit	Standard	Omit	Standard
	80	R3	Φ25.4 Cylindrical shaft, parallel key6.35×6.35×32			Y5	7/8–14UNF(15)	7/16–20UNF(12)				
		R4	Φ25.4 Cylindrical shaft, Woodruff key Φ25.4×6.35			Y7	ZG1/2(15)	G1/4(12)				
	100	R33	Φ25.4 Cylindrical shaft, parallel key6.35×6.35×32						TT	No case drain	L	Opposite
	125	R89	Φ25.4 Cylindrical shaft pin hole Φ 9.53			Y9	NPTF1/2(15)	7/16–20UNF(12)				
	160	R93	Φ25.4 Cylindrical shaft pin hole Φ 9.5	C	4–M10 Square flange, pilot Φ44.45×2.8	Y10	G1/2(15)	G1/4(12)				
	200	R95	Φ25.4 Cylindrical shaft pin hole Φ6.4, Woodruff key Φ25.4×6.35									
		R96	Φ25.4 Cylindrical shaft pin hole Φ8			Y17	3/4–16UNF(15)	7/16–20UNF(12)				
	250	R97	Φ25.4 Cylindrical shaft pin hole Φ10.3									
	315	H4	Φ25.3 Splined shaft, 6–25.3×21.4×6.2	CH	4–3/8–16UNC Square flange, pilot Φ44.45×2.8	Y19	Φ11(15)	7/16–20UNF(12)				
	400	K8	Φ22.1 involute splined shaft, 13–DP16/32			Y20	M18×1.5(15)	G1/4(12)				

■ AHMR, AHMRS, AHMRW ORDERING CODE

1	2	3	4	5		6	7
AHMRW	—			/		—	

Pos.1	2	3		4	5			6	7
					Ports				
Series	Disp	Output		Flange	Code	Ports(A,B)(deep)	Drain port T(deep)	Special features	Rotation direction
AHMRW	50 80 100 125 160 200 250 315 400	Z	Φ35 Tapered shaft, taper1:10, parallel key B6×6×20	A	Y	G1/2(15)	M14×1.5(12)	Omit	Omit Standard
								Standard	L Opposite

1	2	3	4	5		6	7
AHMRW1	—			/		—	

Pos.1	2	3			4	5			6	7
						Ports				
Series	Disp	Output			Flange	Code	Ports(A,B)(deep)	Drain port T(deep)	Special features	Rotation direction
AHMRW1	50 80 100 125 160 200	R1	Φ25 Cylindrical shaft, parallel key 8×7×45	A	4–Φ13.5 Square flange, pilot Φ82.5×9	Y	G1/2(15)	M14×1.5(12)	Omit	Omit Standard
		R5	Φ32 Cylindrical shaft, parallel key 10×8×45							
		R6	Φ32 Cylindrical shaft, Cylindrical shaft pin hole Φ8.1, parallel key 10×8×45			Y5	7/8–14UNF(15)	M14×1.5(12)	Omit	Standard
	250 315 400	Z	Φ35Tapered shaft, taper1:10, parallel key B6×6×20			Y10	G1/2(15)	G1/4(12)	TD	With dustproof ring
		Z1	Φ31.75Tapered shaft, taper1:8, parallel key 8×7×25							
									Omit	Standard
									L	Opposite

■ AHMH series INTRODUCTION

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

■ AHMH series CHARACTERISTICS

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

■ AHMH series TECHNICAL DATA

TYPE		AHMH-200	AHMH-250	AHMH-315	AHMH-400	AHMH-500
Displacement(ml/r)		203	253.7	318.9	405.9	471.1
Max.Pressure.Drop (Mpa)	cont.	15.5	15.5	13.5	10.5	8.5
	int.	17.5	17.5	15.5	12.5	10
	peak.	20	20	19	15.5	13
Max.torque (N.m)	cont.	419	493	541	535	508
	int.	473	557	621	636	598
	peak.	541	636	762	789	778
Max. Cont. Speed (r/min)		370	295	235	185	155
Max.Flow(cont.)(L/min)		75	75	75	75	75
Max.Output.Power(cont.)(Kw)		14	14	12.5	10	8.5
Weight(kg)		10.5	11	11.5	12.5	13

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

■ AHMH series PERFORMANCE DATA

AHMH 200[203ml/r]

Flow(L/min)	Pressure (Mpa) 3.5	7	10.5	14	15.5	17.5
5	91 / **25**	192 / **24**	284 / **23**			
10	92 / **48**	191 / **47**	282 / **46**	344 / **44**	427 / **42**	480 / **38**
20	90 / **96**	188 / **95**	280 / **94**	342 / **92**	425 / **90**	476 / **88**
30	88 / **144**	181 / **143**	278 / **139**	388 / **130**	422 / **114**	470 / **101**
40	86 / **193**	172 / **192**	270 / **191**	384 / **188**	419 / **186**	461 / **171**
50	83 / **241**	168 / **240**	264 / **238**	380 / **234**	411 / **230**	452 / **228**
60	80 / **290**	156 / **289**	258 / **287**	375 / **284**	401 / **271**	448 / **264**
70	75 / **334**	149 / **333**	249 / **331**	362 / **329**	389 / **324**	441 / **320**
Max.cont. 75	69 / **362**	132 / **360**	240 / **359**	351 / **358**	386 / **351**	432 / **342**
80	53 / **382**	124 / **381**	231 / **380**	338 / **374**	381 / **365**	421 / **360**
Max.int. 90	41 / **434**	119 / **433**	228 / **431**	324 / **429**	378 / **418**	410 / **411**

AHMH 250[253.7ml/r]

Flow(L/min)	Pressure (Mpa) 3.5	7	10.5	14	15.5	17.5
5	118 / **19**	242 / **19**	311 / **18**			
10	126 / **38**	251 / **37**	326 / **36**	421 / **34**	510 / **31**	
20	124 / **85**	250 / **84**	325 / **83**	414 / **81**	501 / **79**	581 / **71**
30	118 / **115**	243 / **113**	321 / **111**	410 / **105**	496 / **96**	572 / **84**
40	111 / **153**	238 / **152**	315 / **150**	402 / **143**	493 / **140**	568 / **132**
50	106 / **190**	231 / **188**	310 / **187**	395 / **186**	475 / **184**	552 / **172**
60	101 / **230**	223 / **229**	302 / **227**	390 / **224**	471 / **218**	541 / **209**
70	96 / **268**	218 / **267**	294 / **266**	381 / **262**	462 / **258**	532 / **241**
Max.cont. 75	84 / **287**	210 / **285**	284 / **284**	375 / **280**	453 / **276**	526 / **270**
80	76 / **306**	201 / **305**	271 / **303**	368 / **301**	445 / **298**	513 / **286**
Max.int. 90	56 / **347**	182 / **345**	268 / **341**	351 / **337**	423 / **334**	501 / **328**

AHMH 315[318.9ml/r]

Flow(L/min)	Pressure (Mpa) 3.5	7.5	10	13.5	15.5
10	148 / **31**	312 / **30**	416 / **28**	568 / **25**	
20	142 / **61**	308 / **60**	411 / **58**	560 / **52**	626 / **50**
30	140 / **91**	301 / **90**	402 / **89**	552 / **87**	624 / **82**
40	131 / **122**	294 / **121**	398 / **120**	541 / **118**	621 / **111**
50	128 / **152**	289 / **151**	391 / **149**	538 / **146**	612 / **139**
60	121 / **183**	281 / **181**	382 / **179**	530 / **176**	603 / **174**
70	110 / **215**	273 / **214**	372 / **211**	521 / **208**	600 / **204**
Max.cont. 75	98 / **228**	261 / **226**	357 / **224**	513 / **222**	586 / **218**
80	72 / **243**	258 / **240**	346 / **237**	510 / **234**	581 / **228**
Max.int. 90	62 / **274**	243 / **272**	332 / **270**	498 / **264**	571 / **256**

(Torque) : 332Nm
(Speed) : 270r/min

AHMH 400[405.9ml/r]

Flow(L/min)	Pressure (Mpa) 3.5	5.5	7	10.5	12.5
10	186 / **24**	284 / **22**	370 / **20**		
20	184 / **48**	282 / **47**	365 / **45**	541 / **41**	660 / **32**
30	182 / **72**	280 / **71**	361 / **70**	538 / **64**	655 / **58**
40	178 / **96**	274 / **95**	356 / **93**	532 / **91**	649 / **86**
50	175 / **119**	270 / **118**	351 / **116**	530 / **111**	645 / **107**
60	171 / **143**	261 / **141**	342 / **138**	522 / **135**	640 / **124**
70	164 / **167**	248 / **165**	338 / **161**	513 / **158**	638 / **146**
Max.cont. 75	152 / **179**	240 / **177**	332 / **175**	510 / **171**	631 / **168**
80	141 / **193**	223 / **192**	330 / **190**	497 / **187**	624 / **182**
Max.int. 90	120 / **217**	218 / **215**	320 / **211**	480 / **208**	602 / **201**

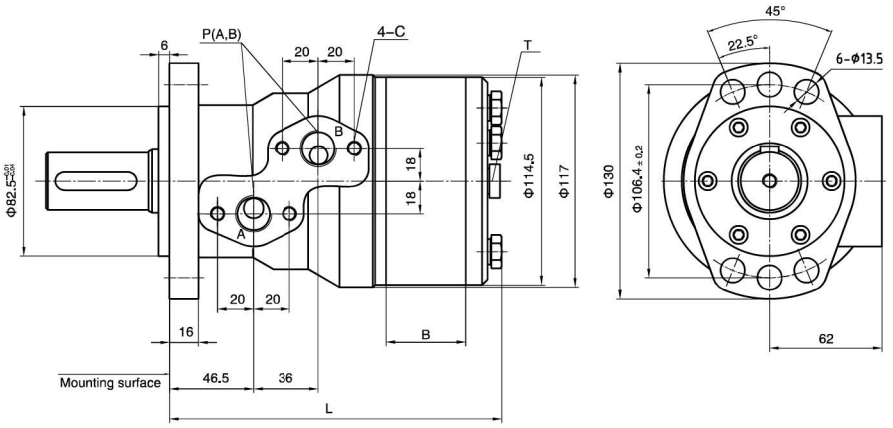
AHMH 500[471.1ml/r]

Flow(L/min)	Pressure (Mpa) 2.5	4	6	7	8.5	10
10	153 / **21**	249 / **20**	372 / **18**			
20	152 / **42**	242 / **41**	370 / **40**	439 / **38**	548 / **34**	650 / **31**
30	150 / **62**	236 / **61**	361 / **60**	436 / **58**	546 / **55**	645 / **51**
40	147 / **82**	230 / **81**	352 / **80**	433 / **78**	543 / **74**	640 / **71**
50	145 / **104**	224 / **102**	340 / **100**	430 / **98**	541 / **96**	637 / **92**
60	142 / **124**	212 / **122**	331 / **120**	425 / **118**	534 / **114**	632 / **110**
70	140 / **146**	202 / **143**	328 / **140**	412 / **138**	512 / **136**	621 / **131**
Max.cont. 75	130 / **154**	197 / **152**	324 / **150**	403 / **147**	501 / **142**	612 / **138**
80	121 / **165**	183 / **163**	310 / **161**	389 / **159**	497 / **150**	601 / **146**
Max.int. 90	110 / **185**	172 / **184**	294 / **182**	376 / **180**	480 / **172**	583 / **165**

Cont.
Int.

■ AHMH series Installation

A4: 6–hole oval flange



TYPE	AHMH-200	AHMH-250	AHMH-315	AHMH-400	AHMH-500
L	168	175	184	196	205
B	28	35	44	56	65

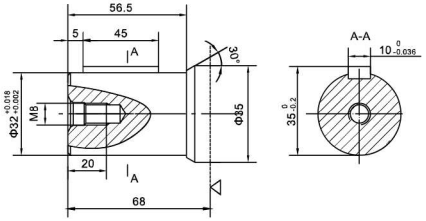
■ AHMH series PORTS CODE

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

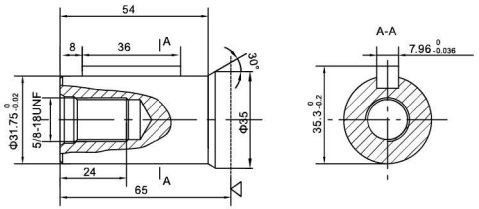
Note:P(A、B)—Ports，C—Mounting Thread (—Indicates no this thread) ，T—Drain connettion

■ **AHMH series** SHAFT VERSION

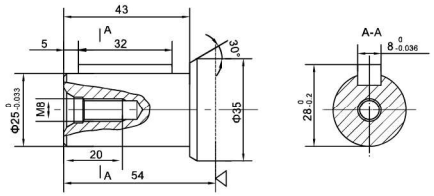
R1: Φ32Cylindrical shaft，parallel key10 × 8 × 45



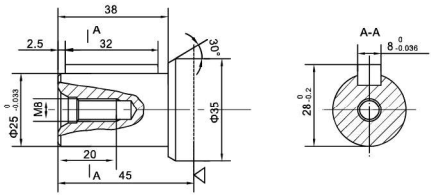
R2: Φ31.75Cylindrical shaft，parallel key7.96 × 7.96 × 36



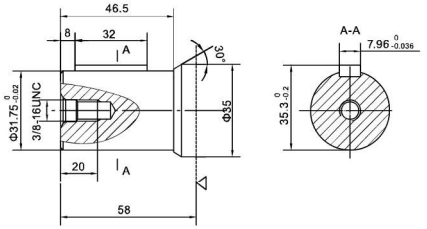
R3: Φ25Cylindrical shaft，parallel key8 × 7 × 32



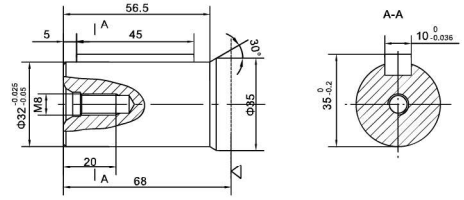
R4: Φ25Cylindrical shaft，parallel key8 × 7 × 32



R5: Φ31.75 Cylindrical shaft，parallel key7.96 × 7.96 × 32

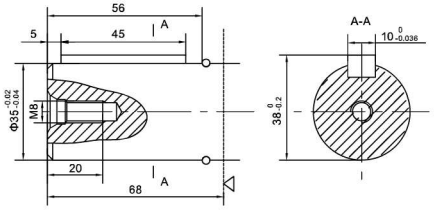


R6: Φ32 Cylindrical shaft，parallel key10 × 8 × 45

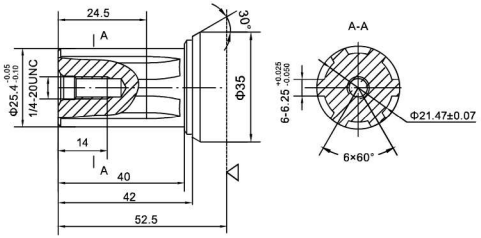


■ **AHMH series** SHAFT VERSION

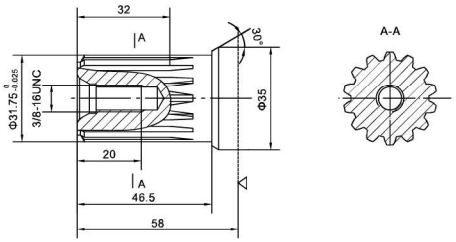
R7: Φ35Cylindrical shaft，parallel key10 × 8 × 45



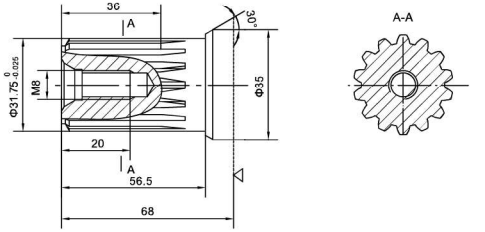
H3: Φ25.4 Splined shaft，6–25.4 × 21.47 × 6.25



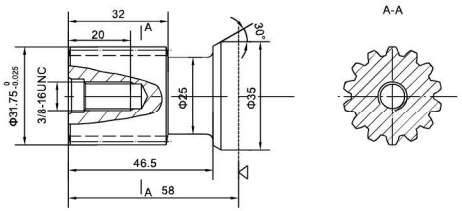
K1: Φ31.75 involve splined shaft 14–DP12/24 a=30°



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



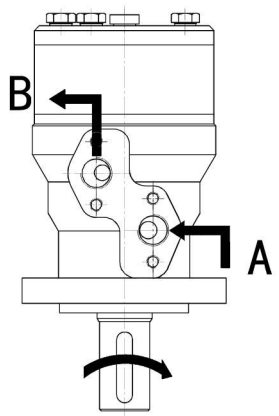
K11: Φ31.75 involute splined shaft 14–DP12/24 a=30°



■ AHMH 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.



■ AHMH series ORDERING CODE

1	2	3	4	5	6	7
AHMH	—			/		—

Pos.1	2	3			4	5			6		7	
Series	Disp	Output			Flange	Code	Ports		Special features		Rotation direction	
							Ports(A,B)(deep)	Drain port T(deep)				
AHMH	200	R1	Φ32 Cylindrical shaft，parallel key10×8×45		A4	Y	G1/2(15)	G1/4(12)	Omit	Standard	Omit	Standard
		R2	Φ31.75 Cylindrical shaft，parallel key7.96×7.96×36		6–Φ13.5 Oval flange, pilotΦ82.5×6							
		R3	Φ25 Cylindrical shaft，parallel key8×7×32			Y5	7/8–14UNF(15)	7/16–20UNF(12)				
	250	R4	Φ25 Cylindrical shaft，parallel key8×7×32									
		R5	Φ31.75 Cylindrical shaft，parallel key7.96×7.96×32									
	315	R6	Φ32 Cylindrical shaft，parallel key10×8×45			Y8	NPTF1/2(15)	7/16–20UNF(12)			L	Opposite
	400	R7	Φ35 Cylindrical shaft，parallel key10×8×45									
		H3	Φ25.4 Splined shaft，6–25.4×21.47×6.25									
	500	K1	Φ31.75 involute splined shaft，14–DP12/24 a=30°			Y25	7/8–14UNF(15)	7/16–20UNF(12)				
		K2	Φ31.75 involute splined shaft，14–DP12/24 a=30°									
		K11	Φ31.75 involute splined shaft，14–DP12/24 a=30°									

■ AHMP INTRODUCTION

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

■ AHMP CHARACTERISTICS

1 Advanced manufacturing devices for the Gerotor gear set, which provide small volume, high efficiency and long life.

2 Shaft seal can bear high pressure of motor of which can be used in parallel or in series.

3 Advanced construction design,high power and low weight.

■ AHMP series TECHNICAL DATA

TYPE		AHMP-50 AHMPH-50	AHMP-80 AHMPH-80	AHMP-100 AHMPH-100	AHMP-125 AHMPH-125	AHMP-160 AHMPH-160	AHMP-200 AHMPH-200	AHMP-250 AHMPH-250	AHMP-315 AHMPH-315	AHMP-400 AHMPH-400
Displacement(ml/r)		52.9	79.3	98.2	120.9	158.7	196.4	241.8	317.3	392.9
Max.Pressure.Drop (Mpa)	cont.	12.5	12.5	12.5	12.5	11.5	11	10	9	7
	int.	16.5	16.5	16.5	16.5	16	15	14	11	9
	peak.	20	20	20	20	20	20	16	13	11
Max.torque (N.m)	cont.	78	120	149	180	219	262	300	338	334
	int.	104	157	197	238	305	358	417	413	429
	peak.	130	215	268	336	430	506	537	537	537
Speed.Range(cont.)(r/min)		10-800	10-770	10-615	10-480	10-385	10-310	10-250	10-195	10-155
Max.Flow(cont.)(L/min)		40	60	60	60	60	60	60	60	60
Max.Output.Power(cont.)(Kw)		7	10	10	10	10	8	6	5	4
Weight (kg)		5.6	5.7	5.9	6.0	6.2	6.4	6.6	6.9	7.4

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

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

AHMP series motor

■ AHMP series PERFORMANCE DATA

AHMP 50[52.9ml/r]

Pressure (Mpa)

Flow(L/min)	3	6	8	10	12.5 (Max.cont.)	14	16.5 (Max.int.)
8	20 **151**	41 **134**	56 **115**	69 **90**	84 **56**		
15	19 **286**	40 **274**	56 **261**	71 **243**	82 **204**	100 **182**	112 **139**
20	18 **382**	39 **373**	55 **361**	70 **348**	79 **318**	99 **309**	117 **287**
30	17 **573**	38 **568**	55 **558**	69 **535**	78 **503**	96 **488**	116 **462**
35	17 **670**	38 **661**	54 **652**	67 **640**	76 **606**	94 **589**	117 **562**
40 (Max.cont.)	15 **800**	36 **795**	53 **791**	63 **786**	71 **783**	91 **780**	114 **756**
50	13 **926**	34 **922**	52 **919**	60 **915**	68 **910**	87 **902**	113 **900**
60 (Max.int.)	10 **1150**	32 **1143**	47 **1126**	58 **1111**	61 **1079**	81 **1065**	108 **1043**

AHMP 80[79.3ml/r]

Pressure (Mpa)

Flow(L/min)	3	6	8	10	12.5 (Max.cont.)	14	16.5 (Max.int.)
8	31 **98**	60 **89**	81 **76**	101 **57**	126 **35**		
15	30 **186**	57 **181**	81 **170**	101 **154**	125 **132**	143 **118**	162 **86**
20	30 **251**	56 **243**	80 **236**	100 **225**	123 **207**	141 **196**	160 **178**
30	29 **381**	55 **379**	78 **368**	99 **355**	121 **332**	139 **316**	159 **285**
35	28 **443**	54 **135**	76 **426**	94 **415**	120 **397**	138 **383**	157 **361**
40	27 **570**	51 **564**	72 **554**	90 **543**	112 **526**	134 **509**	155 **483**
50	25 **696**	50 **685**	70 **672**	89 **656**	108 **643**	128 **630**	153 **602**
60 (Max.cont.)	23 **761**	46 **753**	68 **744**	87 **736**	104 **720**	124 **706**	146 **681**
75 (Max.int.)	18 **948**	38 **940**	62 **931**	82 **920**	100 **906**	121 **890**	141 **871**

AHMP 100[98.2ml/r]

Pressure (Mpa)

Flow(L/min)	3	6	8	10	12.5 (Max.cont.)	14	16.5 (Max.int.)
8	39 **82**	74 **76**	103 **70**	128 **58**	157 **37**		
15	38 **153**	75 **150**	104 **146**	128 **141**	156 **123**	181 **104**	203 **82**
20	34 **205**	71 **202**	101 **197**	125 **192**	153 **179**	179 **169**	200 **150**
30	31 **310**	69 **306**	100 **300**	122 **292**	151 **282**	177 **270**	198 **257**
35	28 **362**	67 **354**	95 **345**	119 **333**	149 **323**	176 **308**	197 **296**
40	27 **464**	64 **460**	92 **453**	115 **446**	146 **436**	174 **421**	192 **404**
50	23 **568**	61 **560**	90 **551**	113 **542**	141 **532**	170 **517**	190 **500**
60 (Max.cont.)	20 **615**	57 **613**	88 **603**	111 **592**	134 **583**	167 **574**	184 **563**
75 (Max.int.)	13 **772**	51 **765**	80 **757**	103 **747**	130 **738**	160 **726**	180 **710**

AHMP 125[120.9ml/r]

Pressure (Mpa)

Flow(L/min)	3	6	8	10	12.5 (Max.cont.)	14	16.5 (Max.int.)
8	47 **65**	94 **62**	132 **57**	162 **49**			
15	47 **123**	96 **118**	132 **112**	161 **104**	188 **92**	229 **76**	266 **51**
20	45 **164**	93 **160**	130 **155**	161 **150**	185 **140**	226 **131**	268 **112**
30	43 **246**	92 **242**	128 **237**	159 **230**	182 **219**	221 **205**	264 **192**
35	39 **287**	88 **282**	125 **277**	155 **272**	180 **262**	219 **250**	238 **234**
40	34 **373**	85 **365**	120 **358**	152 **351**	176 **343**	212 **330**	233 **313**
50	30 **455**	80 **449**	118 **441**	148 **434**	171 **423**	202 **415**	229 **405**
60 (Max.cont.)	26 **493**	74 **485**	112 **478**	141 **471**	164 **461**	198 **450**	225 **442**
75 (Max.int.)	15 **617**	62 **608**	102 **600**	128 **588**	160 **577**	196 **565**	220 **552**

AHMP 160[158.7ml/r]

Pressure (Mpa)

Flow(L/min)	3	6	8	10	11.5 (Max.cont.)	14	16 (Max.int.)
8	58 **49**	116 **48**	166 **46**	208 **44**			
15	56 **93**	116 **91**	168 **88**	210 **85**	225 **80**	288 **68**	297 **48**
20	53 **125**	112 **123**	166 **120**	210 **117**	223 **113**	284 **105**	295 **92**
30	49 **187**	110 **184**	158 **181**	200 **178**	221 **176**	280 **168**	300 **155**
35	45 **220**	106 **216**	156 **213**	196 **209**	219 **207**	274 **202**	305 **192**
45	40 **283**	98 **280**	150 **276**	192 **272**	217 **269**	270 **260**	302 **250**
55	36 **345**	95 **342**	144 **340**	187 **336**	215 **333**	264 **328**	300 **320**
60 (Max.cont.)	29 **377**	90 **374**	140 **371**	184 **367**	213 **365**	260 **359**	298 **353**
70 (Max.int.)	15 **473**	76 **469**	120 **465**	168 **459**	210 **456**	246 **447**	290 **440**

(Torque) : 168Nm
(Speed) : 459r/min

Cont.
Int.

AHMP 200[196.4ml/r]

Pressure (Mpa)

Flow(L/min)	3	6	8	10	11 (Max.cont.)	13	15 (Max.int.)
8	76 **39**	161 **38**	204 **37**	247 **34**			
15	75 **75**	158 **74**	200 **73**	245 **72**	268 **70**	330 **69**	364 **67**
20	73 **100**	154 **98**	199 **97**	243 **96**	266 **94**	328 **92**	362 **90**
30	67 **150**	150 **148**	197 **146**	241 **145**	264 **143**	324 **139**	360 **135**
35	63 **176**	146 **175**	190 **173**	228 **172**	260 **171**	318 **169**	358 **168**
40	60 **226**	143 **224**	187 **222**	226 **221**	258 **219**	315 **216**	352 **211**
50	51 **278**	136 **276**	177 **274**	220 **273**	256 **271**	312 **269**	342 **266**
60 (Max.cont.)	64 **302**	123 **300**	160 **298**	208 **295**	251 **292**	308 **291**	332 **289**
75 (Max.int.)	18 **380**	92 **376**	141 **372**	188 **369**	248 **366**	290 **362**	325 **358**

■ AHMP series PERFORMANCE DATA

AHMP 250[241.8ml/r]

Flow(L/min) \ Pressure (Mpa)	3	6	8	10	12.5	14
8	93	186				
	32	**31**				
15	90	190	262	310	399	430
	61	**60**	**58**	**55**	**52**	**50**
20	90	185	260	308	395	423
	83	**82**	**78**	**77**	**71**	**66**
30	81	176	255	305	390	420
	124	**121**	**120**	**116**	**108**	**100**
35	73	172	246	300	386	417
	144	**142**	**140**	**137**	**130**	**124**
45	65	162	238	296	370	412
	186	**183**	**179**	**175**	**169**	**162**
55	60	156	232	289	362	410
	227	**224**	**219**	**214**	**210**	**203**
60 (Max.cont.)	56	143	221	279	357	406
	249	**247**	**244**	**240**	**234**	**228**
75 (Max.int.)	31	125	201	263	341	386
	310	**307**	**303**	**298**	**287**	**279**

AHMP 315[317.3ml/r]

Flow(L/min) \ Pressure (Mpa)	3	5	7	9	10	11
8	122	214				
	25	**23**				
15	117	208	286	361	400	440
	46	**45**	**44**	**42**	**40**	**38**
20	108	203	276	356	391	431
	62	**61**	**60**	**59**	**57**	**54**
30	100	195	268	342	386	423
	94	**93**	**92**	**90**	**88**	**86**
35	96	186	261	338	380	413
	109	**108**	**107**	**106**	**104**	**102**
45	88	178	251	333	370	405
	141	**140**	**138**	**137**	**135**	**130**
55	76	165	236	320	360	400
	98	**172**	**171**	**170**	**168**	**166**
60 (Max.cont.)	66	152	222	301	341	392
	188	**186**	**185**	**184**	**181**	**176**
75 (Max.int.)	40	116	198	276	320	311
	236	**235**	**233**	**231**	**229**	**228**

AHMP 400[392.9ml/r]

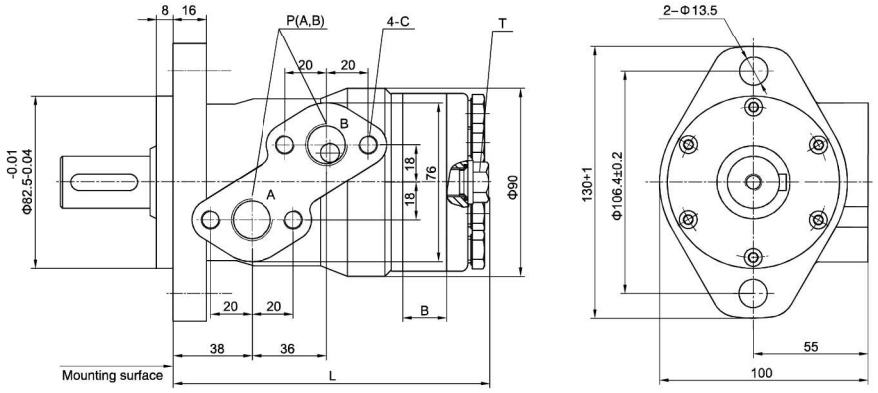
Flow(L/min) \ Pressure (Mpa)	3	4	5	6	7	8	9
8	160	210					
	20	**19**					
15	158	207	254	314	360	407	453
	37	**36**	**35**	**34**	**33**	**31**	**30**
20	149	202	249	311	355	403	446
	50	**49**	**49**	**48**	**46**	**42**	**40**
30	135	199	246	304	348	395	438
	75	**74**	**73**	**72**	**71**	**69**	**65**
35	125	192	241	301	342	389	429
	88	**86**	**85**	**84**	**83**	**81**	**79**
45	112	172	232	289	334	375	421
	112	**111**	**110**	**108**	**106**	**104**	**103**
55	105	158	215	276	328	357	401
	137	**135**	**133**	**131**	**130**	**126**	**122**
60 (Max.cont.)	100	140	201	252	313	334	389
	150	**148**	**146**	**144**	**142**	**140**	**134**
75 (Max.int.)	54	128	181	231	302	311	378
	187	**185**	**181**	**172**	**170**	**162**	**158**

(Torque) : 231Nm
(Speed) : 172r/min

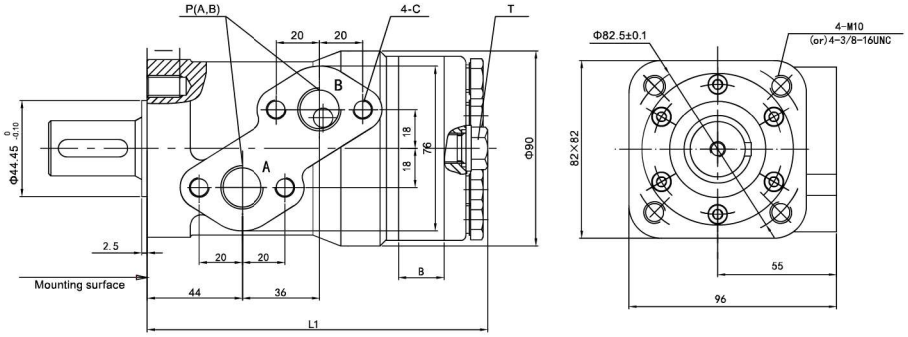
Cont.
Int.

■ AHMP series Installation

AH: 2–hole oval flange



C, CH: Square flange



Note: C, CH mounting are assembling to BMPH shaft.

TYPE	AHMP-50	AHMP-80	AHMP-100	AHMP-125	AHMP-160	AHMP-200	AHMP-250	AHMP-315	AHMP-400
L	141	145	147	150	155	160	166	176	186
L1	148	151	154	157	162	167	173	183	193
B	7	11	13	16	21	26	32	42	52

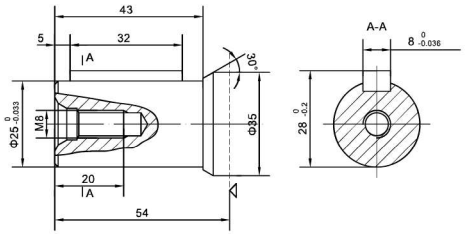
■ AHMP series PORTS CODE

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

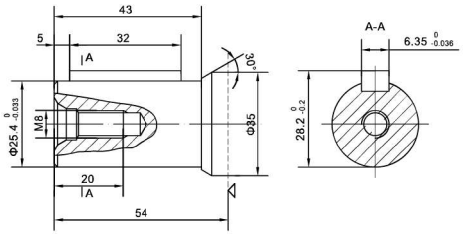
Note:P(A、B)––Ports，C––Mounting Thread （—Indicates no this thread），T––Drain connettion

■ AHMP series SHAFT VERSION

R1: Φ25 Cylindrical shaft，parallel key8 × 7 × 32



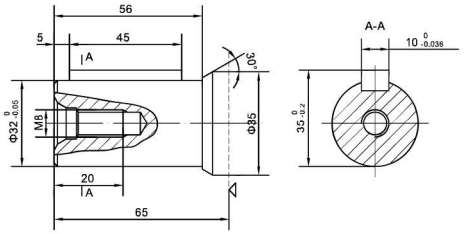
R3: Φ25.4 Cylindrical shaft，parallel key6.35 × 6.35 × 32



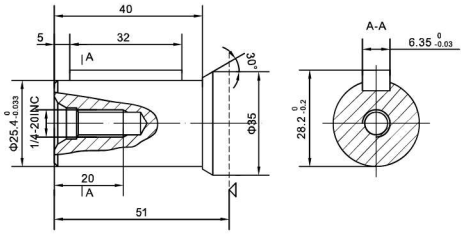
Motor mounting surface

■ AHMP series SHAFT VERSION

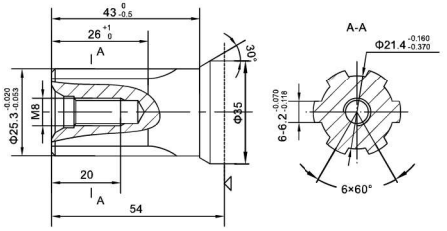
R5: Φ32 Cylindrical shaft，parallel key10 × 8 × 45



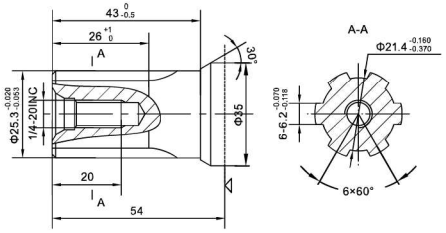
R33: Φ25.4 Cylindrical shaft，parallel key6.35 × 6.35 × 32



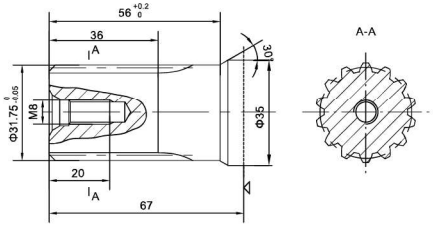
H3: Φ25.3Splined shaft，6–25.3 × 21.4 × 6.2



H33: Φ25.3Splined shaft，6–25.3 × 21.4 × 6.2



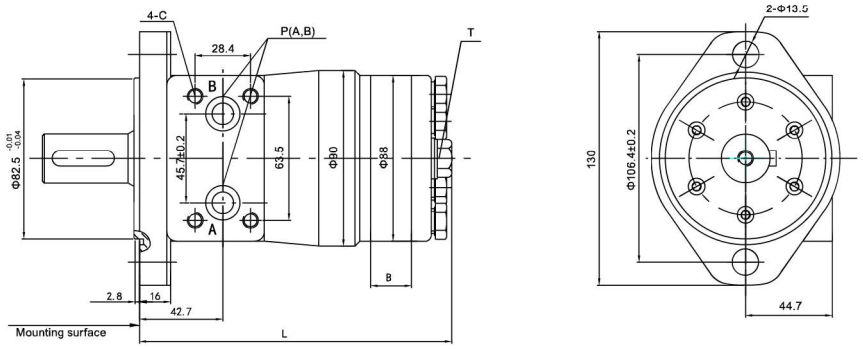
K13: Φ31.75 involute splined shaft 14–DP12/24 a=30°



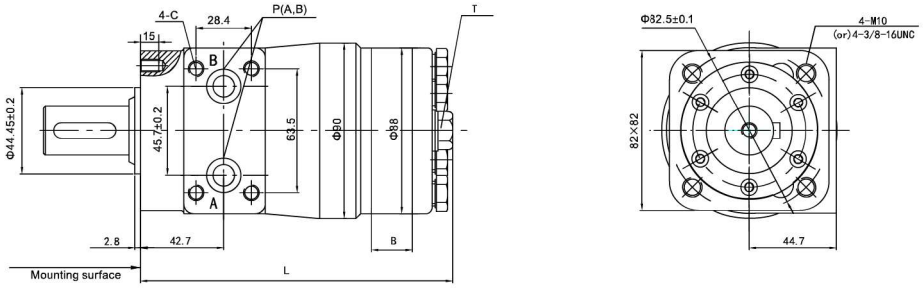
Motor mounting surface

■ AHMPH Installation

AH: 2-hole oval flange



C, CH: Square flange



TYPE	AHMPH-50	AHMPH-80	AHMPH-100	AHMPH-125	AHMPH-160	AHMPH-200	AHMPH-250	AHMPH-315	AHMPH-400
L	148	151	154	157	162	167	173	183	193
B	7	11	13	16	21	26	32	42	52

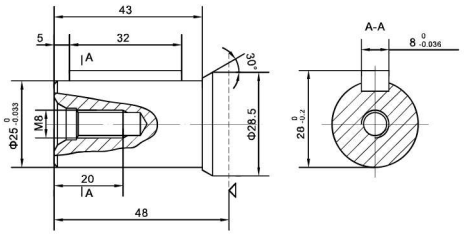
■ AHMPH series PORTS CODE

Code \ Ports	P(A、B)(deep)	C (deep)	T (deep)
Y	G1/2 (15)	—	M14×1.5(12)
Y5	7/8-14UNF(15)	—	7/16-20UNF(12)
Y7	ZG1/2(15)	—	G1/4(12)
Y9	NPTF1/2(15)	—	7/16-20UNF(12)
Y10	G1/2(15)	—	G1/4(12)
Y17	3/4-16UNF(15)	—	7/16-20UNF(12)
Y19	Φ11(15)	5/16-18UNC(13)	7/16-20UNF(12)
Y20	M18×1.5(15)	M8 (13)	G1/4(12)

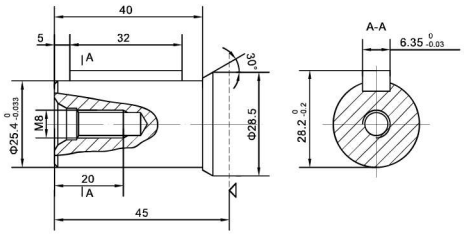
P(A、B)--Ports，C--Mounting Thread （—Indicates no this thread），T--Drain connettion

■ AHMPH seires SHAFT VERSION

R1: Φ25 Cylindrical shaft，parallel key8×7×32

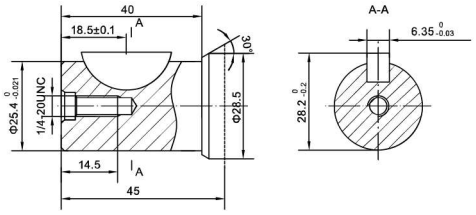


R3: Φ25.4 Cylindrical shaft，parallel key6.35×6.35×32

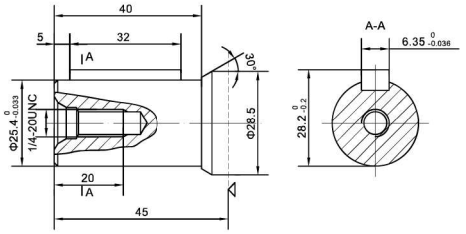


■ **AHMPH seires** SHAFT VERSION

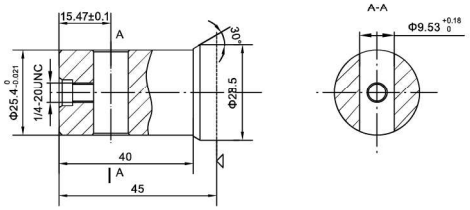
R4: Φ25.4 Cylindrical shaft，parallel key Φ25.4 × 6.35



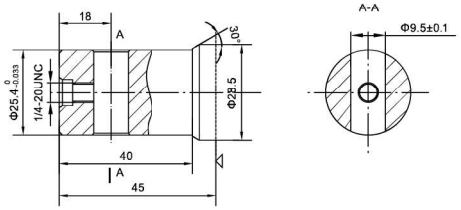
R33: Φ25.4 Cylindrical shaft，parallel key6.35 × 6.35 × 32



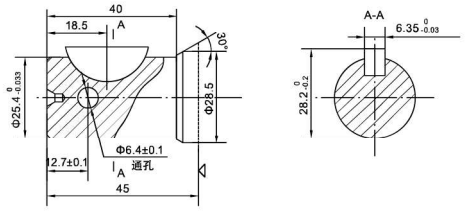
R89: Φ25.4Cylindrical shaft pin hole Φ9.53



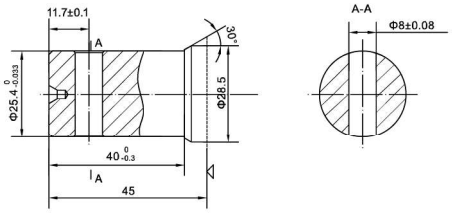
R93: Φ25.4Cylindrical shaft pin hole Φ9.5



R95: Φ25.4Cylindrical shaft pin hole Φ6.4，
Woodruff key Φ25.4 × 6.35



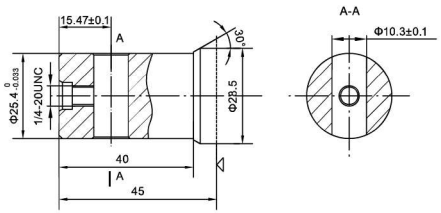
R96: Φ25.4Cylindrical shaft pin hole Φ8



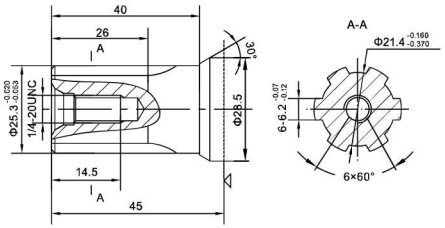
AHMPH series motor

■ **AHMPH seires** SHAFT VERSION

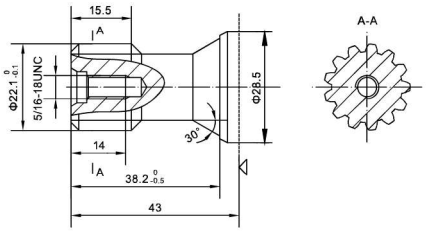
R97: Φ25.4Cylindrical shaft pin hole Φ10.3



H4: Φ25.3 Splined shaft，6–25.3 × 21.4 × 6.2



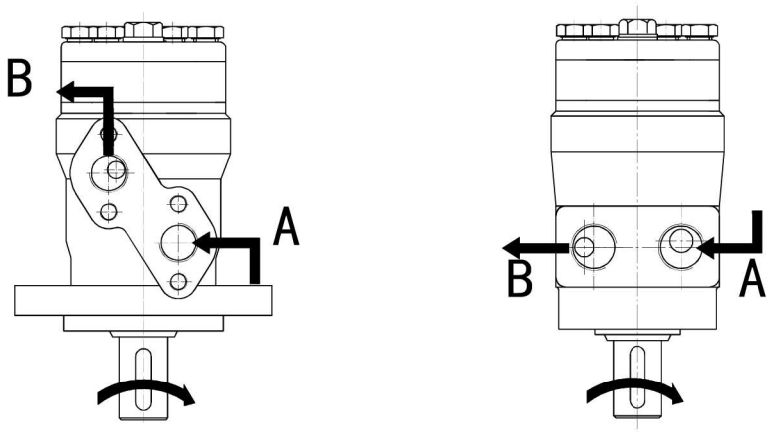
K8: Φ22.1 involve splined shaft 13–DP16/32



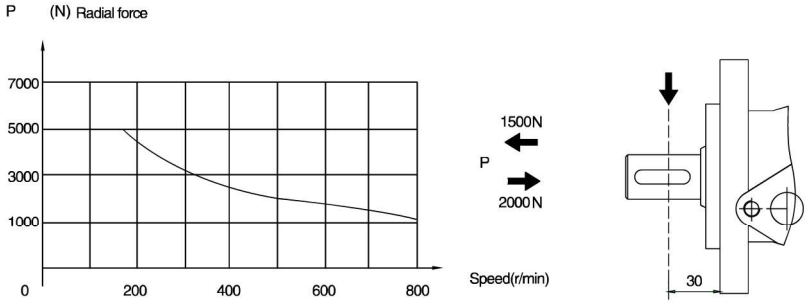
■ AHMP, AHMPH seires　　Series Mortor

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



■ AHMP, AHMPH series　ORDERING CODE

1	2	3			4	5			6		7
Pos.1	2	3				Ports			Special features		
Series	Disp	Output			Flange	Code	Ports(A,B)(deep)	Drain port T(deep)			Rotation direction
AHMP	—										
AHMP	50	R1	Φ25 Cylindrical shaft，parallel key8×7×32	AH	2-Φ13.5 Oval flange，pilotΦ82.5×8	Y	G1/2(15)	M14×1.5(12)	Omit	Standard	Omit Standard
	80	R3	Φ25.4 Cylindrical shaft，parallel key6.35×6.35×32			Y1	M18×1.5(15)	M14×1.5(12)			
	100	R3	Φ25.4 Cylindrical shaft，parallel key6.35×6.35×32			Y2	M22×1.5(15)	M14×1.5(12)			
	125	R5	Φ32 Cylindrical shaft，parallel key10×8×45			Y4	ZG3/8(15)	M14×1.5(12)	TD	With dustproof ring	L Opposite
	160	R33	Φ25.4 Cylindrical shaft，parallel key6.35×6.35×32	C	4-M10 Square flange，pilotΦ44.45×2.5	Y5	7/8-14UNF(15)	M14×1.5(12)			
	200	H3	Φ25.3 Spined shaft，6-25.3×21.4×6.2			Y7	ZG1/2(15)	M14×1.5(12)	TH	With high pressure seals	
	250	H33	Φ25.3 Spined shaft，6-25.3×21.4×6.2	CH	4-3/8-16UNC Square flange，pilotΦ44.45×2.5	Y8	NPT1/2(15)	M14×1.5(12)			
	315	H33	Φ25.3 Spined shaft，6-25.3×21.4×6.2			Y9	NPTF1/2(15)	7/16-20UNF(12)			
	400	K13	Φ31.75 involute splined shaft，14-DP12/24 a=30°			Y10	G1/2(15)	G1/4(12)			
						Y15	7/8-14UNF(15)	7/16-20UNF(12)			

Note: C, CH mounting are assembling to AHMPH shaft.

■ AHMP, AHMPH series ORDERING CODE

1	2	3	4	5	6	7
AHMPH	—			/	—	

Pos.1	2	3		4		5			6		7
Series	Disp	Output		Flange		Ports			Special features		Rotation direction
						Code	Ports(A,B)(deep)	Drain port T(deep)			
AHMPH	50	R1	Φ25 Cylindrical shaft, parallel key8×7×32	AH	2–Φ13.5 Oval flange, pilot Φ82.5×2.8	Y	G1/2(15)	M14×1.5(12)	Omit	Standard	Omit Standard
	80	R3	Φ25.4 Cylindrical shaft, parallel key6.35×6.35×32			Y5	7/8–14UNF(15)	7/16–20UNF(12)			L Opposite
	100	R4	Φ25.4 Cylindrical shaft, Woodruff key Φ25.4×6.35			Y7	ZG1/2(15)	G1/4(12)			
	125	R33	Φ25.4 Cylindrical shaft, parallel key6.35×6.35×32			Y9	NPTF1/2(15)	7/16–20UNF(12)	Omit	Standard	
		R89	Φ25.4 Cylindrical shaft pin hole Φ9.53	C	4–M10 Square flange, pilot Φ44.45×2.8				TT	No case drain	
	160	R93	Φ25.4 Cylindrical shaft pin hole Φ9.5			Y10	G1/2(15)	G1/4(12)			
	200	R95	Φ25.4 Cylindrical shaft pin hole Φ6.4, Woodruff key Φ25.4×6.35			Y17	3/4–16UNF(15)	7/16–20UNF(12)			
	250	R96	Φ25.4 Cylindrical shaft pin hole Φ8								
	315	R97	Φ25.4 Cylindrical shaft pin hole Φ10.3	CH	4–3/8–16UNC Square flange, pilot Φ44.45×2.8	Y19	Φ11(15)	7/16–20UNF(12)			
		H4	Φ25.3 Spliined shaft, 6–25.3×21.4×6.2								
	400	K8	Φ22.1 involute splined shaft, 13–DP16/32			Y20	M18×1.5(15)	G1/4(12)			

INTRODUCTION

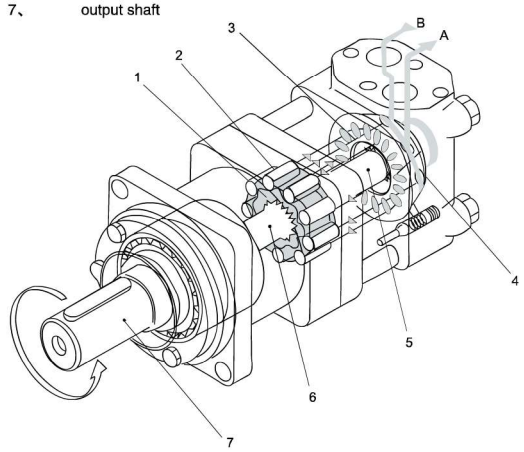
FEATURES AND APPLICATIONS

AH3MS hydraulic motor is one type of high torque low speed hydraulic motors, with high efficiency and long life.
Speed range, high starting torque and rotating stable at high speed Compact and light, it can be connected to working machine directly, adapted to all kinds of low speed heavy load facilities.

AH3MS hydraulic motors are widely applied in agriculture machinery, fishing machinery, plastic industry, mining, and construction machinery.

WORKING PRINCIPLE

1、 orbit cam 2、 roll 3、 distributor 4、 auxiliary plate
5、 distributor shaft 6、 transmission shaft 7、 output shaft



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

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

■ AH3MS seires TECHNICAL DATA

TYPE		AH3MS-80 AH3MSS-80 AH3MSW-80	AH3MS-100 AH3MSS-100 AH3MSW-100	AH3MS-125 AH3MSS-125 AH3MSW-125	AH3MS-160 AH3MSS-160 AH3MSW-160	AH3MS-200 AH3MSS-200 AH3MSW-200	AH3MS-250 AH3MSS-250 AH3MSW-250	AH3MS-315 AH3MSS-315 AH3MSW-315	AH3MS-400 AH3MSS-400 AH3MSW-400
Displacement(ml/r)		80.5	100.5	126.3	160.8	200.9	252.6	321.5	401.9
Max.Pressure. Drop (Mpa)	cont.	17.5	17.5	17.5	16	16	12.5	12.5	10
	int.	20	20	20	20	20	16	16	14
	peak.	22.5	22.5	22.5	22.5	22.5	20	20	17.5
Max.torque (N.m)	cont.	194	242	303	358	438	440	551	560
	int.	218	283	345	429	540	580	625	687
	peak.	271	318	373	459	576	700	831	865
Speed.Range(cont.)(r/min)		10-810	10-750	9-600	7-470	6-375	6-300	5-240	5-180
Max.Flow(cont.)(L/min)		65	75	75	75	75	75	75	75
Max.Output.Power(cont.)(Kw)		14	16	16	14	14	11	10	8
Weight (kg)		9.8	10.0	10.3	10.7	11.1	11.6	12.3	13.1

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

■ AH3MS seires PERFORMANCE DATA

AH3MS 80[80.5cm³/rev]

Pressure (Mpa)

Flow(L/min)	3.5	7	10.5	14	17.5 (Max.cont.)	21	22.5 (Max.int.)
15	35 **180**	80 **174**	120 **168**	158 **164**	195 **158**	235 **151**	249 **143**
30	35 **362**	80 **352**	120 **346**	158 **338**	195 **330**	240 **322**	260 **310**
40	35 **482**	79 **473**	119 **464**	155 **453**	193 **444**	234 **434**	250 **415**
50	30 **602**	77 **594**	117 **587**	153 **569**	192 **560**	232 **551**	248 **522**
60 (Max.cont.)	28 **724**	77 **713**	117 **707**	153 **683**	192 **673**	232 **664**	247 **629**
65	25 **790**	75 **785**	114 **770**	152 **760**	190 **742**	230 **720**	245 **704**
80 (Max.int.)	22 **980**	70 **965**	110 **950**	140 **920**	170 **891**	200 **860**	220 **830**

AH3MS 100[100.5cm³/rev]

Pressure (Mpa)

Flow(L/min)	3.5	7	10.5	14	17.5 (Max.cont.)	21	22.5 (Max.int.)
15	48 **146**	95 **144**	150 **139**	200 **135**	250 **130**	289 **120**	310 **105**
30	45 **291**	94 **289**	146 **278**	198 **274**	250 **269**	295 **258**	317 **242**
40	43 **387**	89 **384**	142 **374**	196 **359**	248 **350**	293 **335**	316 **320**
50	40 **486**	88 **483**	135 **473**	194 **462**	247 **450**	292 **430**	315 **420**
60	37 **588**	88 **584**	132 **574**	185 **562**	244 **550**	289 **538**	312 **520**
75 (Max.cont.)	35 **740**	80 **735**	130 **720**	180 **705**	240 **696**	286 **676**	310 **653**
90 (Max.int.)	30 **850**	75 **840**	124 **810**	170 **787**	236 **770**	277 **750**	303 **747**

AH3MS 125[126.3cm³/rev]

Pressure (Mpa)

Flow(L/min)	3.5	7	10.5	14	17.5 (Max.cont.)	21	22.5 (Max.int.)
15	55 **112**	120 **110**	176 **103**	245 **96**	309 **93**	349 **90**	375 **84**
30	55 **222**	120 **220**	175 **217**	250 **208**	324 **200**	375 **199**	408 **190**
40	55 **302**	120 **298**	175 **292**	250 **284**	324 **276**	370 **268**	408 **260**
50	50 **379**	115 **373**	176 **368**	248 **363**	320 **350**	370 **339**	406 **328**
60	45 **456**	113 **448**	171 **443**	245 **439**	324 **425**	368 **406**	406 **393**
75 (Max.cont.)	45 **570**	110 **563**	167 **555**	240 **546**	314 **533**	370 **515**	401 **503**
90 (Max.int.)	40 **685**	105 **676**	162 **670**	237 **659**	309 **644**	365 **625**	390 **610**

(Torque) : 309Nm
(Speed) : 644r/min

AH3MS 160[160.8cm³/rev]

Pressure (Mpa)

Flow(L/min)	3.5	7	10.5	14	17.5 (Max.cont.)	21	22.5 (Max.int.)
15	70 **91**	140 **88**	205 **84**	305 **78**	371 **76**	430 **74**	473 **58**
30	75 **185**	150 **182**	214 **176**	321 **168**	380 **164**	427 **162**	490 **152**
40	70 **248**	150 **244**	215 **239**	320 **229**	378 **224**	425 **217**	488 **204**
50	65 **312**	145 **308**	215 **304**	316 **294**	378 **288**	425 **280**	482 **270**
60	65 **375**	145 **371**	214 **365**	315 **357**	375 **346**	424 **336**	482 **323**
75 (Max.cont.)	60 **470**	138 **465**	208 **458**	311 **447**	375 **436**	420 **426**	
90 (Max.int.)	56 **564**	130 **559**	200 **551**	308 **541**	370 **526**	414 **517**	

Cont.

Int.

■ AH3MS seires PERFORMANCE DATA

AH3MS 200[200.9cm³/rev]

Pressure (Mpa)

Flow(L/min)	3.5	7	10.5	14	17.5	22.5
15	89 **73**	190 **71**	295 **68**	400 **64**	484 **60**	608 **52**
30	87 **148**	190 **146**	294 **143**	399 **140**	485 **135**	600 **127**
40	86 **193**	188 **191**	292 **189**	397 **186**	483 **181**	594 **172**
50	80 **247**	184 **245**	290 **243**	395 **240**	480 **235**	590 **226**
60	74 **298**	178 **295**	286 **293**	390 **290**	475 **284**	582 **273**
Max.cont. 75	58 **372**	160 **369**	275 **365**	375 **362**	460 **358**	570 **346**
Max.int. 90	49 **440**	148 **435**	260 **430**	355 **422**	445 **411**	555 **401**

AH3MS 250[252.6cm³/rev]

Pressure (Mpa)

Flow(L/min)	3.5	7	10.5	14	17.5	22.5
15	117 **58**	230 **55**	355 **52**	450 **51**	554 **47**	652 **46**
30	117 **118**	225 **117**	350 **112**	446 **109**	560 **107**	657 **106**
40	115 **160**	225 **156**	348 **152**	442 **150**	552 **146**	650 **142**
50	110 **202**	220 **200**	345 **198**	438 **196**	546 **195**	645 **192**
60	105 **242**	220 **239**	340 **237**	435 **234**	542 **231**	642 **229**
Max.cont. 75	95 **300**	215 **296**	338 **293**	430 **286**	537 **282**	638 **278**
Max.int. 90	90 **360**	205 **354**	332 **348**	420 **340**	530 **332**	632 **326**

AH3MS 315[321.5cm³/rev]

Pressure (Mpa)

Flow(L/min)	3.5	7	10.5	12	14	18.5
15	160 **48**	320 **47**	465 **45**	555 **43**	650 **40**	748 **38**
30	165 **94**	322 **92**	468 **90**	560 **89**	658 **86**	752 **85**
40	160 **125**	310 **123**	457 **120**	546 **118**	642 **116**	741 **115**
50	155 **158**	305 **156**	450 **153**	538 **150**	637 **147**	736 **145**
60	152 **175**	302 **174**	442 **170**	532 **164**	632 **162**	732 **159**
Max.cont. 75	145 **236**	295 **234**	436 **230**	525 **227**	628 **225**	726 **222**
Max.int. 90	132 **285**	280 **282**	430 **280**	520 **276**	622 **273**	723 **270**

(Torque) : 520Nm
(Speed) : 276r/min

AH3MS 400[401.9cm³/rev]

Pressure (Mpa)

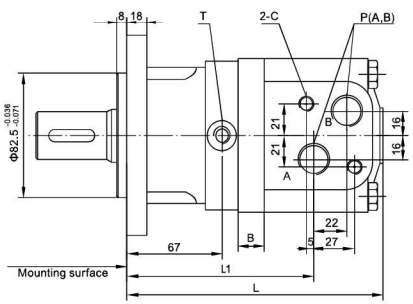
Flow(L/min)	3.5	7	9	10	12	14
15	192 **38**	376 **37**	492 **36**	532 **35**	611 **33**	686 **31**
30	191 **77**	378 **75**	494 **74**	534 **73**	613 **71**	686 **69**
40	187 **102**	376 **100**	491 **99**	533 **98**	611 **96**	685 **93**
50	166 **128**	374 **126**	490 **125**	531 **124**	609 **123**	684 **120**
60	156 **151**	373 **150**	489 **149**	530 **148**	608 **146**	683 **144**
Max.cont. 75	135 **192**	367 **190**	483 **188**	544 **187**	607 **186**	677 **185**
Max.int. 90	109 **228**	364 **225**	480 **224**	520 **222**	603 **220**	672 **218**

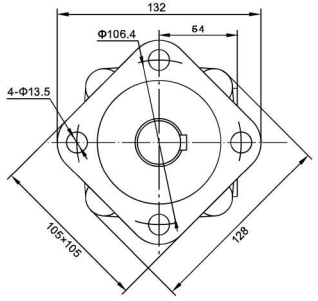
Cont.

Int.

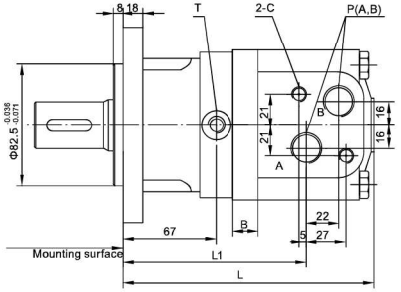
■ AH3MS seires Installation

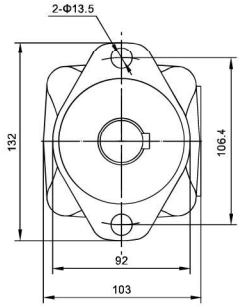
A: Square flange



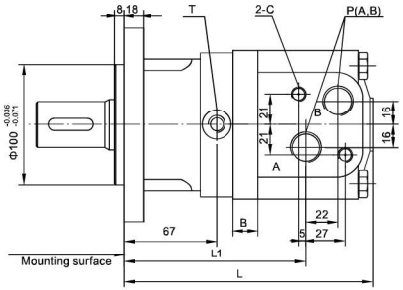


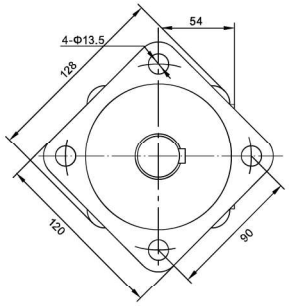
AH: 2–hole oval flange





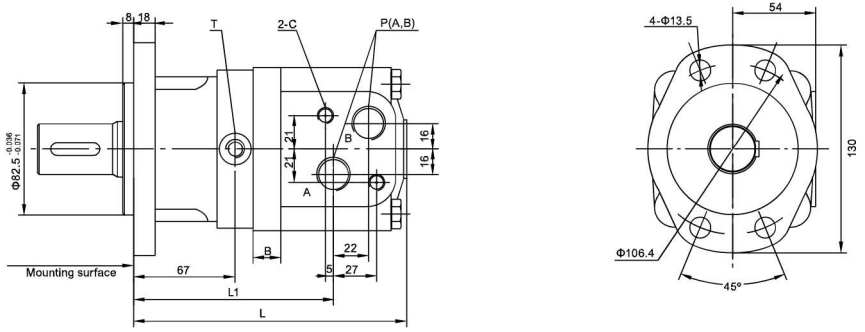
A23: Square flange



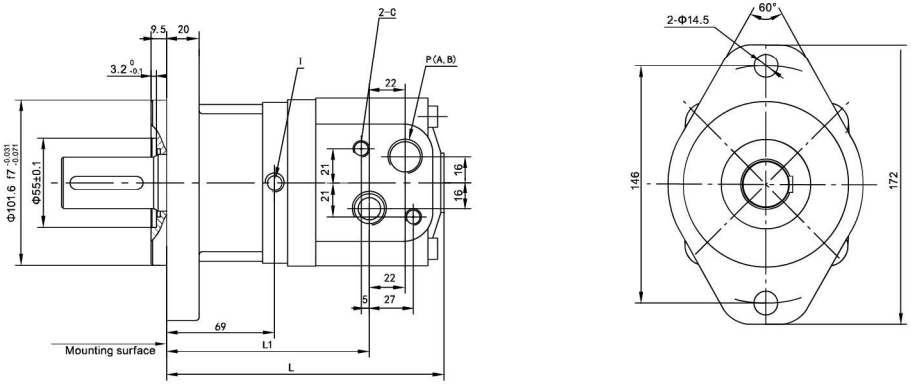


■ AH3MS seires Installation

A4: 4–hole oval flange



A46: 2–hole oval flange



Type	AH3MS-80	AH3MS-100	AH3MS-125	AH3MS-160	AH3MS-200	AH3MS-250	AH3MS-315	AH3MS-400
L	167	170.5	175	181	188	197	209	223
L1	124	127.5	132	138	145	154	166	180
B	11	14.5	19	25	32	41	53	67

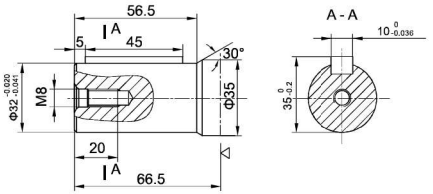
■ AH3MS seires PORTS CODE

Code \ Ports	P(A、B)(□deep)	C (deep)	T (deep)
Y	G1/2 (15)	M10 (12)	G1/4 (12)
Y1	M18×1.5 (15)	M10 (12)	M14×1.5 (12)
Y2	M22×1.5 (15)	M10 (12)	M14×1.5 (12)
Y3	M20×1.5 (15)	M10 (12)	M14×1.5 (12)
Y5	7/8–14UNF (15)	—	7/16–20 UNF(12)
Y8	NPT1/2 (15)	M10 (12)	G1/4 (12)
Y10	G1/2 (15)	—	G1/4 (12)

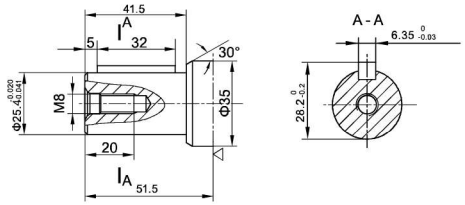
Note:P(A、B)––Ports，C––Mounting Thread（—Indicates no this thread），T––Drain connettion

■ AH3MS seires SHAFT VERSION

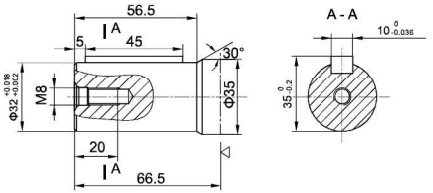
R: Φ32 Cylindrical shaft，parallel key10×8×45



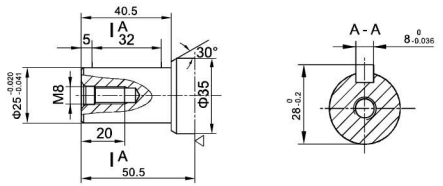
R3: Φ25.4 Cylindrical shaft，parallel key6.35×6.35×32



R10: Φ32 Cylindrical shaft，parallel key10×8×45

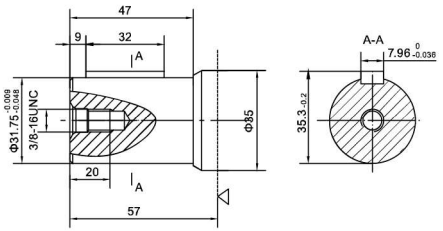


R1: Φ25 Cylindrical shaft，parallel key8×7×32

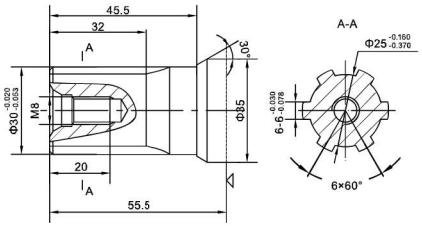


■ AH3MS seires SHAFT VERSION

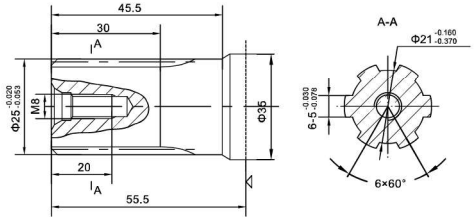
R5: Φ31.75 Cylindrical shaft，parallel key7.96 × 7.96 × 32



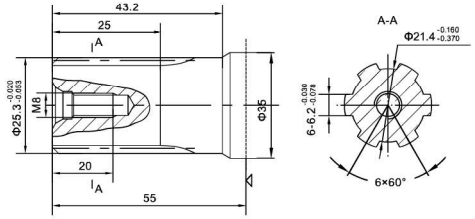
H1: Φ30 Splined shaft，6–30 × 25 × 6



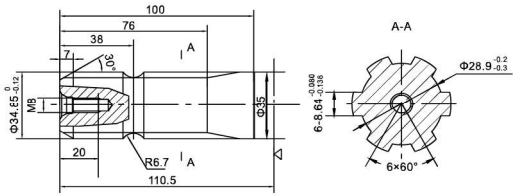
H2: Φ25 Splined shaft，6–25 × 21 × 5



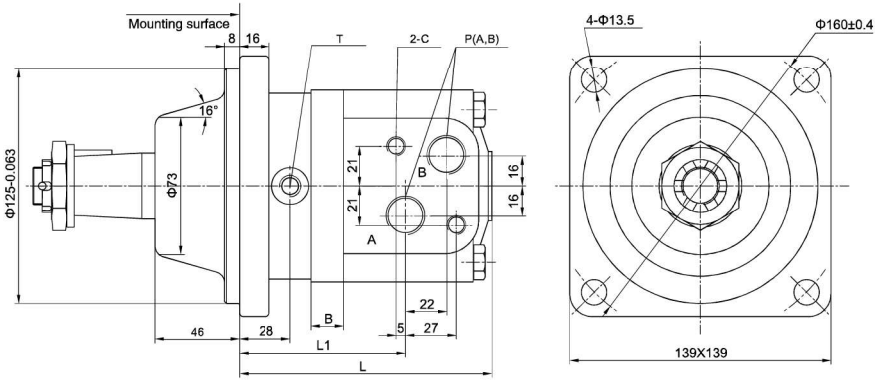
H5: Φ25.3 Splined shaft，6–25.3 × 21.4 × 6.2



H3: Φ34.85 Splined shaft，6–34.85 × 28.9 × 8.64



■ AH3MSW seires INSTALLATION



Type	AH3MSW-80	AH3MSW-100	AH3MSW-125	AH3MSW-160	AH3MSW-200	AH3MSW-250	AH3MSW-315	AH3MSW-400
L	126	129.5	134	140	147	156	168	182
L1	83	86.5	91	97	104	113	125	139
B	11	14.5	19	25	32	41	53	67

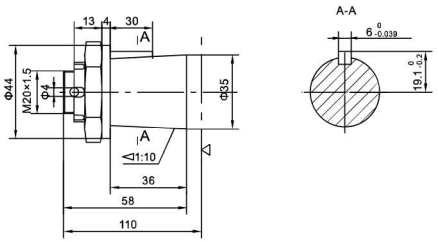
■ AH3MSW seires PORTS CODE

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

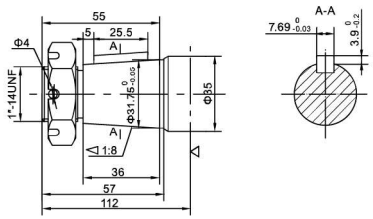
Note:P(A、B)—Ports，C—Mounting Thread （—Indicates no this thread），T—Drain connettion

■ AH3MSW seires SHAFT VERSION

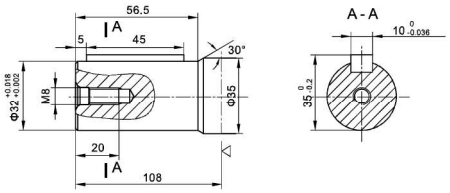
Z: Φ35 Tapered shaft，taper1:10，parallel key 6 × 6 × 30



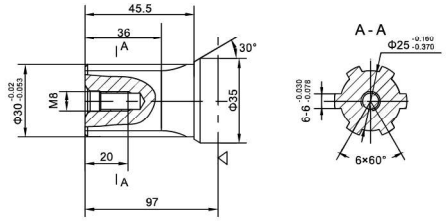
Z2: Φ31.75 Tapered shaft，taper1:8，parallel key 7.96 × 7.96 × 25



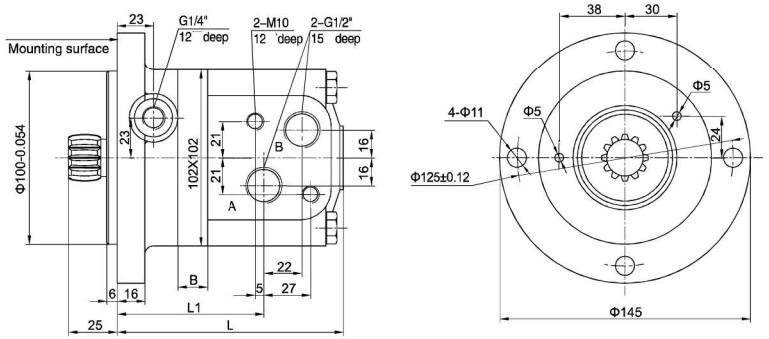
R10: Φ32 Cylindrical shaft，parallel key10 × 8 × 45



H1: Φ30 Splined shaft，6–30 × 25 × 6

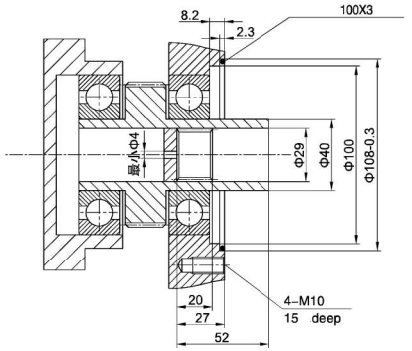


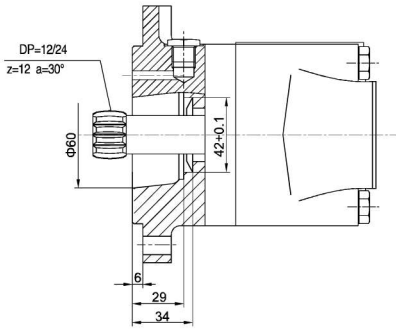
■ AH3MSS seires Installation



Type	AH3MSS-80	AH3MSS-100	AH3MSS-125	AH3MSS-160	AH3MSS-200	AH3MSS-250	AH3MSS-315	AH3MSS-400
L	122.5	126	130.5	136.5	143.5	152.5	164.5	178.5
L1	79.5	83	87.5	93.5	100.5	109.5	121.5	135.5
B	11	14.5	19	25	32	41	53	67

■ AH3MSS seires DIMENSIONS OF THE ATTACHED COMPONENT

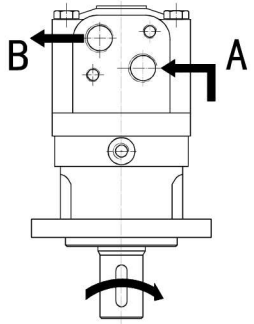


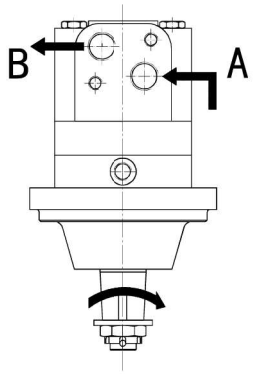


■ AH3MS, AH3MSW, AH3MSS Series Mortor

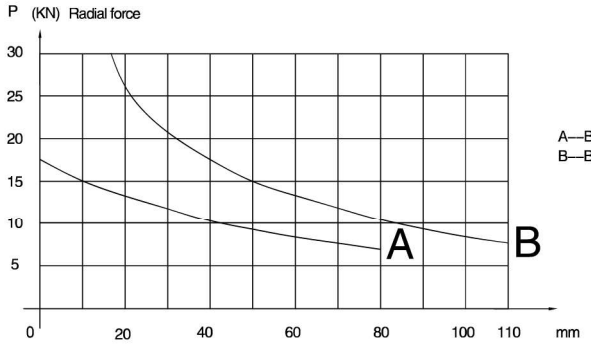
Direction of shaft ration：Standard

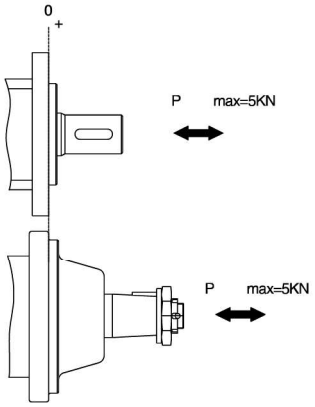
When facing shaft end of motor，shaft to rotate：
Clockwise when port “A” is pressurized.
Counter–clockwise port “B” is pressurized.





PERMISSIBLE SHAFT LOADS





■ AH3MS, AH3MSW, AH3MSS ORDERING CODE

1	2	3			4	5			6		7
Pos.1		Output			Flange	Ports			Special features		Rotation direction
Series	Disp					Code	Ports(A,B)(deep)	Drain port T(deep)			
AH3MS	80	R10	Φ32 Cylindrical shaft，parallel key10×8×45	A	4–Φ13.5 Oval fange, pilot Φ62.5	Y	G1/2(15)	G1/4(12)	Omit	Standard	Omit Standard
	100	R	Φ32 Cylindrical shaft，parallel key10×8×45			Y1	M18×1.5(15)	M14×1.5(12)			L Opposite
	125	R1	Φ25 Cylindrical shaft，parallel key8×7×32	AH	2–Φ13.5 Oval fange, pilot Φ62.5	Y2	M22×1.5(15)	M14×1.5(12)			
	160	R3	Φ25.4 Cylindrical shaft，parallel key6.35×6.35×32	A23	4–Φ13.5 Square flange, pilot Φ100	Y3	M20×1.5(15)	M14×1.5(12)	TD	With dustproof ring	
	200	R5	Φ31.75 Cylindrical shaft，parallel key7.96×7.96×32	A4	4–Φ13.5 Oval fange, pilot Φ62.5	Y5	7/8–14UNF(15)	7/16–20UNF(12)			
	250	H1	Φ30 Splined shaft，6–30×25×6			Y8	NPT1/2(15)	G1/4(12)			
	315	H2	Φ25 Splined shaft，6–25×21×5	A46	2–Φ14.5 Oval fange, pilot Φ101.6	Y10	G1/2(15)	G1/4(12)			
	400	H3	Φ34.85 Splined shaft，6–34.85×28.9×8.64								
		H5	Φ25.3 Splined shaft，6–25.3×21.4×6.2								

■ AH3MS, AH3MSW, AH3MSS ORDERING CODE

1	2	3	4	5	6	7
AH3MSW	—			/	—	

Pos.1	2	3		4	5			6	7
Series	Disp	Output		Flange	Code	ports Ports(A,B)(deep)	ports Drain port T(deep)	Special features	Rotation direction
AH3MSW	80	R10	Φ32 Cylindrical shaft, parallel key10×8×45	A	Y	G1/2(15)	M14×1.5(12)	Omit	Omit Standard
	100								
	125	H1	Φ30 Splined shaft, 6-30×25×6					Standard	L Opposite
	160								
	200	Z	Φ35 Tapered shaft, taper1:10, parallel key6×6×30		Y5	7/8-14UNF(15)	7/16-20UNF(12)		
	250								
	315	Z2	Φ31.75 Tapered shaft, taper1:8, parallel key7.96×7.96×25						
	400								

1	2	3
AH3MSS	—	/

Pos.1	2	3
Series	Disp	Special features
AH3MSS	80	Omit Standard
	100	
	125	
	160	
	200	
	250	
	315	
	400	

■ AH4MT series TECHNICAL DATA

TYPE		AH4MT-160 AH4MTS-160 AH4MTW-160	AH4MT-200 AH4MTS-200 AH4MTW-200	AH4MT-250 AH4MTS-250 AH4MTW-250	AH4MT-320 AH4MTS-320 AH4MTW-320	AH4MT-400 AH4MTS-400 AH4MTW-400	AH4MT-500 AH4MTS-500 AH4MTW-500
Displacement(ml/r)		158.8	200.8	252.2	317.5	401.6	535.3
Max.Pressure.Drop (Mpa)	cont.	20	20	20	20	18	16
	int.	24	24	24	24	21	18
	peak.	28	28	28	28	24	21
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.)(L/min)		100	100	100	100	100	100
Max.Output.Power(cont.)(Kw)		20.1	25.2	25.2	25.2	22	21
Weight (kg)		20.3	20.8	21.4	22.4	23	24

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

■ AH4MT series PERFORMANCE DATA

AH4MT 160[158.8cm³/rev]

Pressure (Mpa)

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

AH4MT 160[200.8cm³/rev]

Pressure (Mpa)

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

AH4MT 250[252.2cm³/rev]

Pressure (Mpa)

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

AH4MT 320[317.5cm³/rev]

Pressure (Mpa)

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

AH4MT 400[401.6cm³/rev]

Pressure (Mpa)

Flow(L/min)	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
	51	**50**	**49**	**46**	**44**	**42**	**40**
40	165	346	530	685	859	1020	1181
	99	**98**	**96**	**93**	**90**	**86**	**82**
60	163	338	526	682	860	1024	1187
	149	**147**	**143**	**139**	**135**	**131**	**125**
80	155	330	517	672	853	1014	1181
	199	**197**	**194**	**190**	**186**	**182**	**176**
100 (Max.cont.)	140	317	503	662	838	998	1171
	249	**247**	**245**	**241**	**235**	**231**	**225**
125	126	289	490	643	816	977	1142
	311	**309**	**307**	**303**	**298**	**294**	**287**
150 (Max.int.)	118	273	475	623	797	954	1119
	375	**373**	**369**	**365**	**361**	**357**	**350**

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

AH4MT 500[535.3cm³/rev]

Pressure (Mpa)

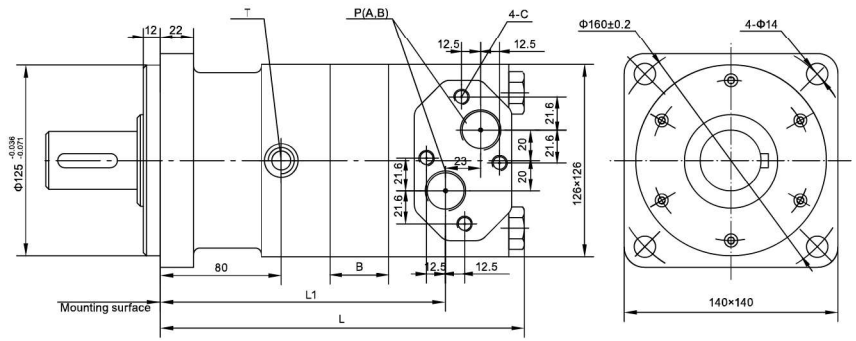
Flow(L/min)	3	6	9	12	14	16	18
10	204	415	637	821	966	1098	1233
	18	**18**	**18**	**17**	**16**	**15**	**13**
20	213	427	656	845	984	1122	1267
	37	**36**	**35**	**34**	**33**	**32**	**30**
40	212	429	669	866	1007	1145	1308
	75	**74**	**73**	**72**	**70**	**68**	**64**
60	207	421	657	866	1001	1146	1296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

Cont.

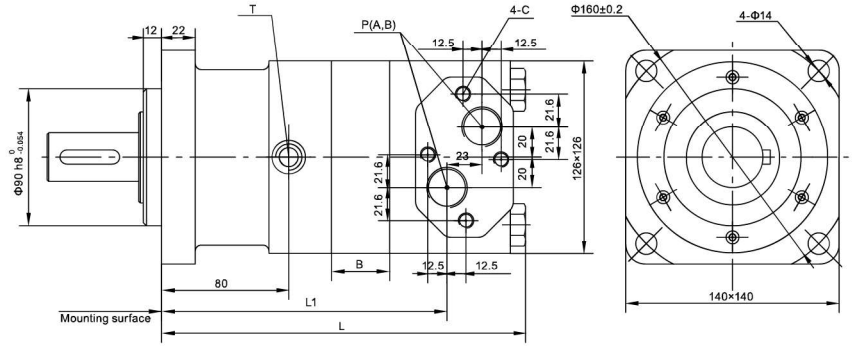
Int.

■ AH4MT series Installation

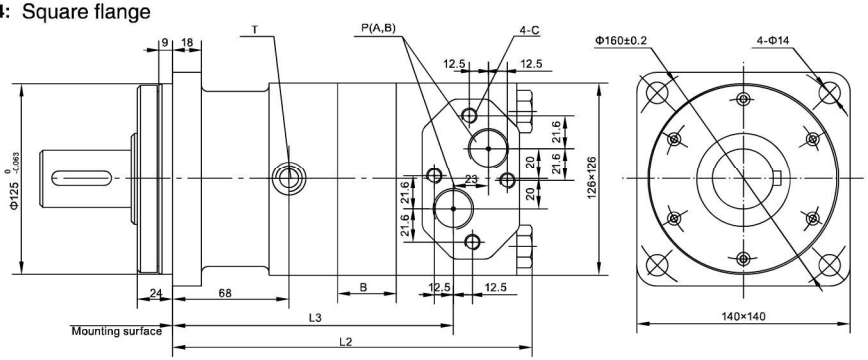
A: Square flange



AH: Square flange

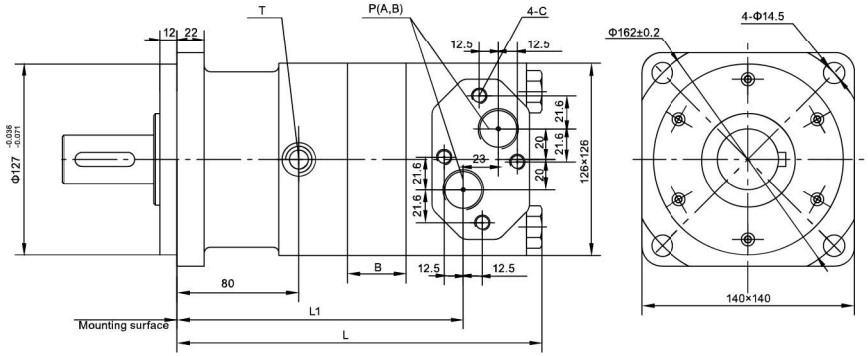


A4: Square flange



■ AH4MT series Installation

A7: Square flange



TYPE	AH4MT-160	AH4MT-200	AH4MT-250	AH4MT-320	AH4MT-400	AH4MT-500
L	213	217.5	223	230	239	257.5
L1	163	167	173	180	189	207
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

■ AH4MT series PORTS CODE

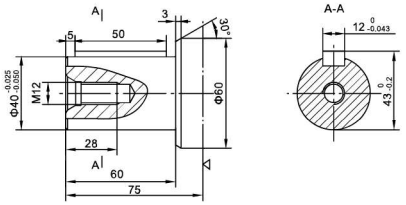
Code \ Ports	P(A、B)(deep)	C (deep)	T (deep)
Y	G3/4 (15)	M10 (12)	G1/4(12)
Y3	M27×2(15)	M10 (12)	M14×1.5(12)
Y4	M22×1.5(15)	M10 (12)	M14×1.5(12)
Y8	7/8-14UNF(15)	—	7/16-20UNF(12)
Y10	1 1/16-12UN(15)	—	9/16-18UNF(15)

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

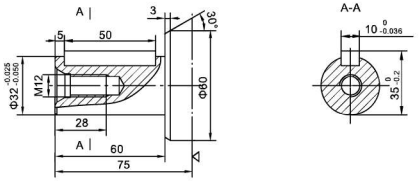
■ AH4MT series SHAFT VERSION

Only match A, AH, A7 flange

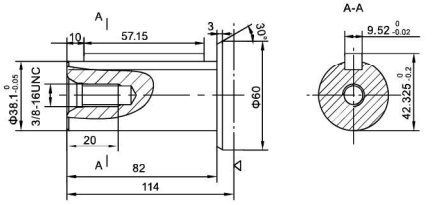
R: Φ40 Cylindrical shaft，parallel key12×8×50



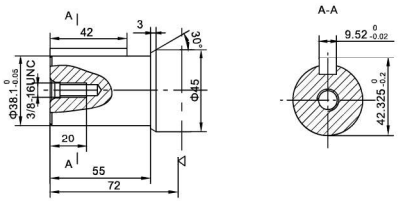
R1: Φ32 Cylindrical shaft，parallel key10×8×50



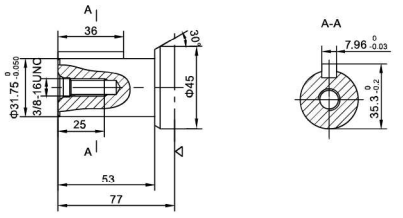
R11: Φ38.1 Cylindrical shaft，parallel key9.525×9.525×57.15



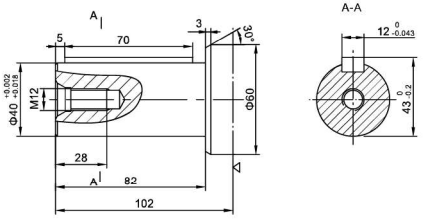
R12: Φ38.1 Cylindrical shaft，parallel key9.525×9.525×42



R13: Φ31.75 Cylindrical shaft，parallel key7.96×7.96×36



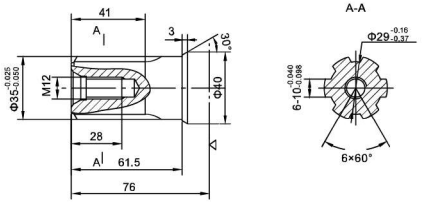
R33: Φ40 Cylindrical shaft，parallel key12×8×70



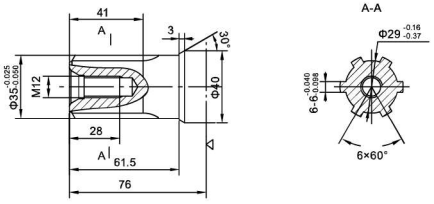
■ AH4MT series SHAFT VERSION

Only match A, AH, A7 flange

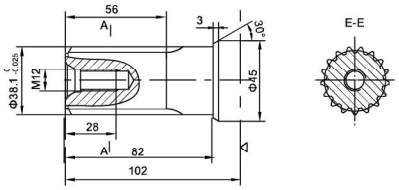
H4: Φ35 Splined shaft，6–35 × 29 × 10



H5: Φ35 Splined shaft，6–35 × 29 × 6

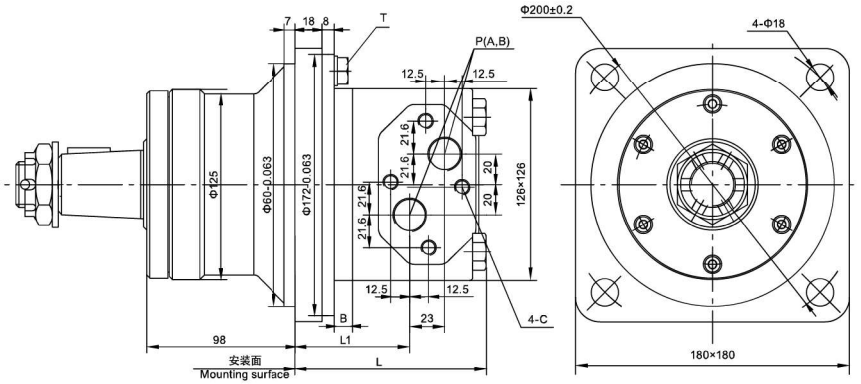


K3: Φ38.1 involute splined shaft 17–DP12/24 a=30°



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

■ AH4MTW series ORDERING CODE



Type	AH4MTW-160	AH4MTW-200	AH4MTW-250	AH4MTW-320	AH4MTW-400	AH4MTW-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

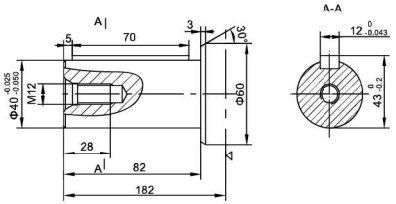
■ AH4MTW series PORTS CODE

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

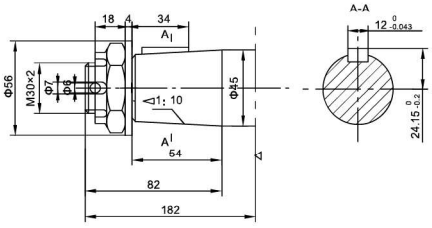
P(A、B)--Ports，C--Mounting Thread （—Indicates no this thread），T--Drain connettion

■ AH4MTW series SHAFT VERSION

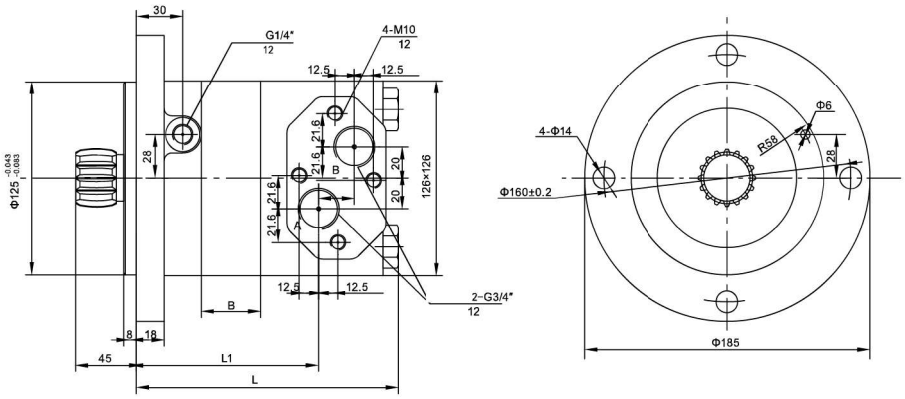
R31: Φ40 Cylindrical shaft，parallel key12 × 8 × 70



Z2: Φ45 Tapered shaft，taper1:10， parallel keyB12 × 8 × 28

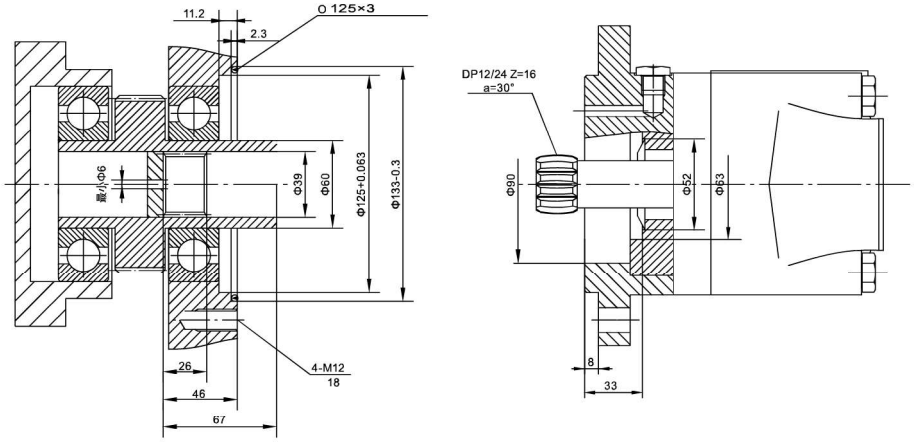


■ AH4MTS series INSTALLATION



Type	AH4MTS-160	AH4MTS-200	AH4MTS-250	AH4MTS-320	AH4MTS-400	AH4MTS-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

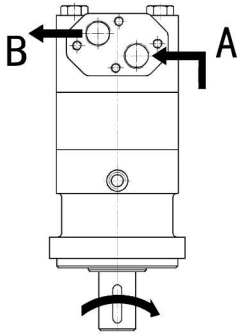
■ AH4MTS series SHAFT VERSION

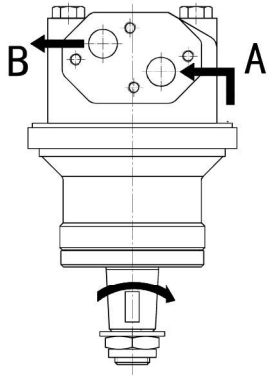


■ AH4MT, AH4MTW, AH4MTS Series Mortor

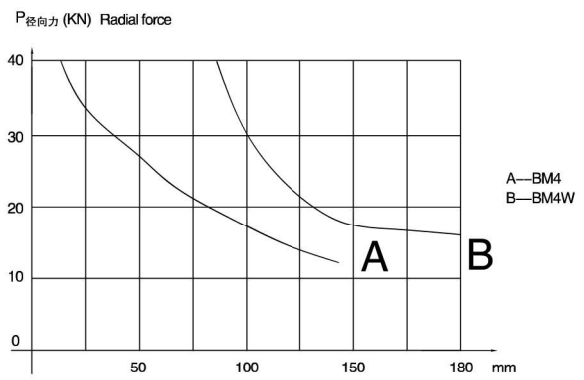
Direction of shaft ration：Standard

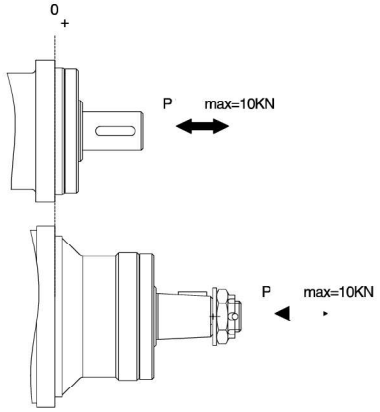
When facing shaft end of motor，shaft to rotate：
Clockwise when port “A” is pressurized.
Counter–clockwise port “B” is pressurized.





■ PERMISSIBLE SHAFT LOADS





■ AH4MT, AH4MTW, AH4MTS ORDERING CODE

1		2	3	4	5		6		7
AH4MT	—					/		—	

Pos.1	2	3		4		5			6		7	
Series	Disp	Output		Flange		Code	Ports		Special features		Rotation direction	
							Ports(A,B)(deep)	Drain port T(deep)				
AH4MT	160	R33	Φ40 Cylincrical shaft, parallel key12×8×70	A	4–Φ14 Oval flange, pilot Φ125	Y	G3/4(15)	G1/4(12)	Omit	Standard	Omit	Standard
		R	Φ40 Cylindrical shaft, parallel key12×8×50									
	200	R1	Φ32 Cylindrical shaft, parallel key10×8×50	AH	4–Φ14 Oval flange, pilot Φ90	Y3	M27×2(15)	M14×1.5(12)				
	250	R11	Φ38.1 Cylindrical shaft, parallel key9.525×9.525×57.15									
		R12	Φ38.1 Cylindrical shaft, parallel key9.525×9.525×42			Y4	M22×1.5(15)	M14×1.5(12)				
	320	R13	Φ31.75 Cylindrical shaft, parallel key7.96×7.96×36	A4	4–Φ14 Oval flange, pilot Φ125				TD	With dustproof ring	L	Opposite
	400	H4	Φ35 Splined shaft, 6–35×29×10			Y8	7/8–14UNF(15)	7/16–20UNF(12)				
		H5	Φ35 Splined shaft, 6–35×29×6	A7	4–Φ14.5 Oval flange, pilot Φ127							
	500	K3	Φ38.1 involute splined shaft, 17–DP12/24 a=30°			Y10	1 1/16–12UN(15)	9/16–18UNF(12)				

AH4MT, AH4MTW, AH4MTS series motor

■ AH4MT, AH4MTW, AH4MTS ORDERING CODE

1		2	3	4	5		6		7
AH4MTW	—					/		—	

Pos.1	2	3		4		5			6		7	
Series	Disp	Output		Flange		Code	Ports		Special features		Rotation direction	
							Ports(A,B)(deep)	Drain port T(deep)				
AH4MTW	160 200 250 320 400 500	R31	Φ40 Cylindrical shaft, parallel key12×8×70	A	4–Φ18 Oval flange, pilot Φ160	Y	G3/4(15)	G1/4(12)	Omit	Standard	Omit	Standard
		Z2	Φ45 Tapered shaft, taper1:10, parallel key B12×8×28								L	Opposite

1		2	/	3
AH4MTS	—		/	

Pos.1	2	3	
Series	Disp	Special features	
AH4MTS	160 200 250 320 400 500	Omit	Standard

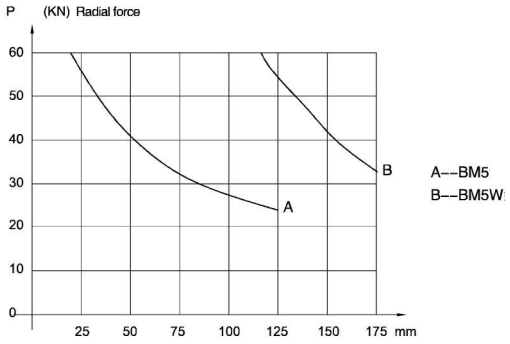
AH5MV series TECHNICAL DATA

TYPE		AH5MV-315 AH5MVS-315 AH5MVW-315	AH5MV-400 AH5MVS-400 AH5MVW-400	AH5MV-500 AH5MVS-500 AH5MVW-500	AH5MV-630 AH5MVS-630 AH5MVW-630	AH5MV-800 AH5MVS-800 AH5MVW-800	AH5MV-985 AH5MVS-985 AH5MVW-985
Displacement(ml/r)		314.9	399.7	496.6	617.8	787.4	969.1
Max.Pressure.Drop (Mpa)	cont.	20	20	20	18	16	14
	int.	24	24	24	21	18	16
	peak.	28	28	28	24	21	18
Max.torque (N.m)	cont.	873	1108	1385	1570	1773	1900
	int.	1119	1440	1783	1951	2122	2133
	peak.	1293	1650	2060	2249	2481	2399
Speed.Range(cont.)(r/min)		10-475	9-375	8-300	6-238	5-187	5-154
Max.Flow(cont.)(L/min)		150	150	150	150	150	150
Max.Output.Power(cont.)(Kw)		32	32	32	32	32	24
Weight (kg)		30.7	31.5	32.4	33.6	35.2	37.2

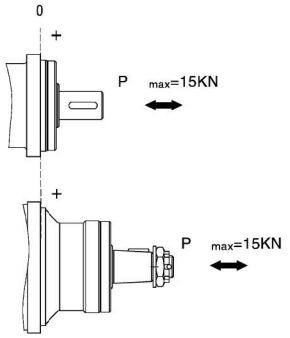
Intermittent operation the permissible values may occur for max. 10% of every minute

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

AH5MV series PERMISSIBLE SHAFT LOADS



A--BM5
B--BM5W



AH5MV series PERFORMANCE DATA

AH5MV 315[314.9ml/r]

Pressure (Mpa)

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

AH5MV 400[399.7ml/r]

Pressure (Mpa)

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

AH5MV 500[496.6ml/r]

Pressure (Mpa)

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

AH5MV 630[617.8ml/r]

Pressure (Mpa)

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

AH5MV 800[787.4ml/r]

Pressure (Mpa)

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

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

Cont.

Int.

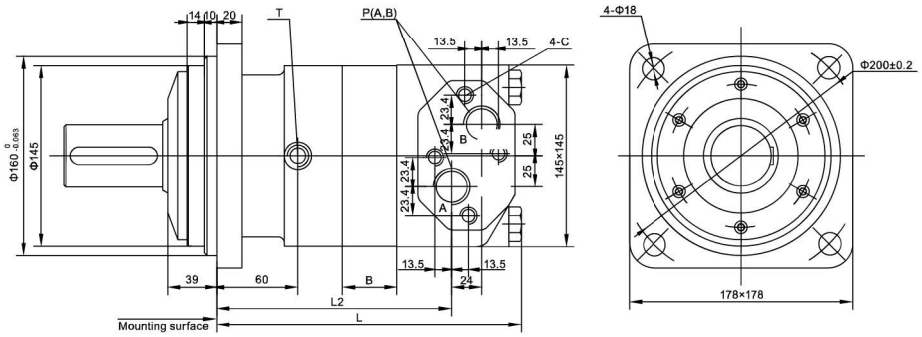
AH5MV 985[969.1ml/r]

Pressure (Mpa)

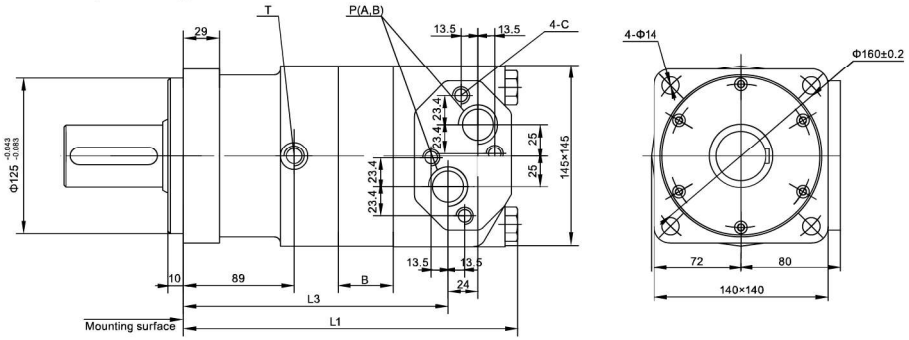
Flow(L/min)	2.5	5	7	10	14	16
10	305 **9**	627 **9**	951 **9**	1371 **8**	1936 **7**	2212 **6**
20	313 **29**	634 **28**	957 **27**	1380 **26**	1938 **23**	2222 **21**
50	319 **48**	641 **47**	971 **46**	1392 **44**	1973 **42**	2232 **39**
75	311 **74**	629 **73**	966 **72**	1395 **69**	1961 **67**	2228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

■ AH5MV series Installation

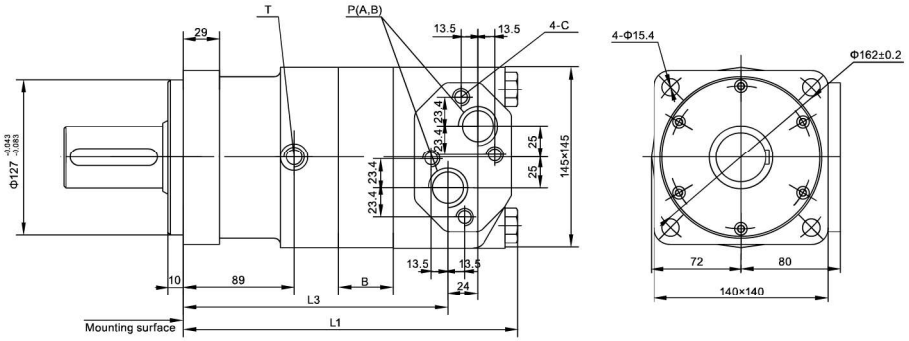
A: Square flange



A1: Square flange



A7: Square flange



Type	AH5MV-315	AH5MV-400	AH5MV-500	AH5MV-630	AH5MV-800	AH5MV-985
L	214	221	229	239	253	268
L1	244	251	259	269	283	298
L2	156	163	171	181	195	210
L3	186	193	201	211	225	240
B	19	26	34	44	58	73

■ AH5MV series PORTS CODE

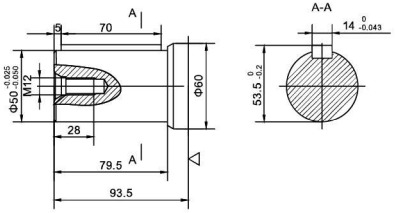
Code \ Ports	P(A、B)(deep)	C (deep)	T (deep)
Y	G1 (18)	M12(12)	G1/4(12)
Y1	G3/4(18)	M12(12)	G1/4(12)
Y2	M33×2(18)	M12(12)	M14×1.5(12)
Y3	M27×2(18)	M12(12)	M14×1.5(12)
Y8	1 5/16–12UN(18)	—	9/16–18UNF(12)

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

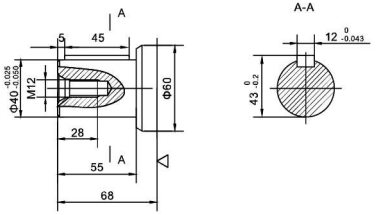
■ AH5MV series SHAFT VERSION

Only mach AH, A7 flange

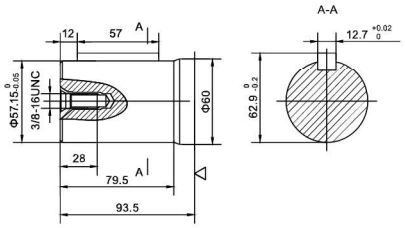
R: Φ50 Cylindrical shaft，parallel key14 × 9 × 70



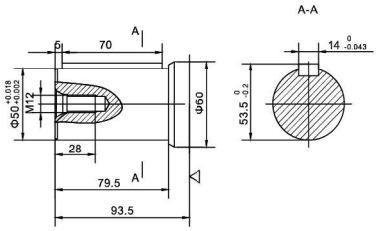
R1: Φ40 Cylindrical shaft，parallel key12 × 8 × 45



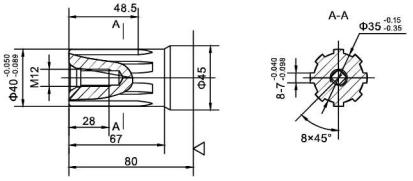
R12: Φ57.15 Cylindrical shaft，parallel key12.7 × 12.7 × 57



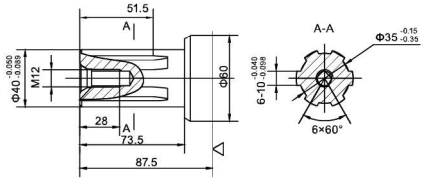
R99: Φ50 Cylindrical shaft，parallel key14 × 9 × 70



H4: Φ40 Splined shaft，8–40 × 35 × 7



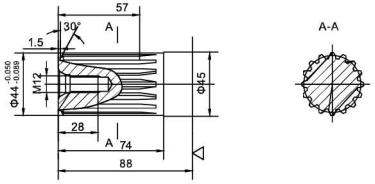
H5: Φ40 Splined shaft，6–40 × 35 × 10



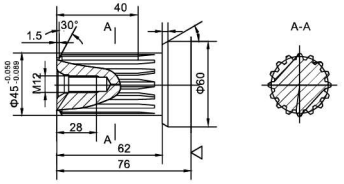
■ AH5MV series SHAFT VERSION

Only mach AH, A7 flange

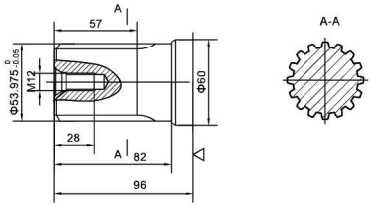
K2: Φ44 involute splined shaft m2.5 z16 a=30°



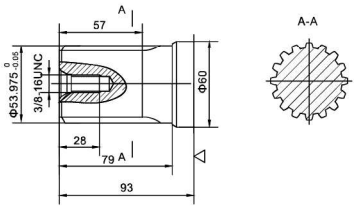
K3: Φ45 involute splined shaft m2.5 z17 a=30°



K5: Φ53.975 involute splined shaft 16–DP8/16 a=30°

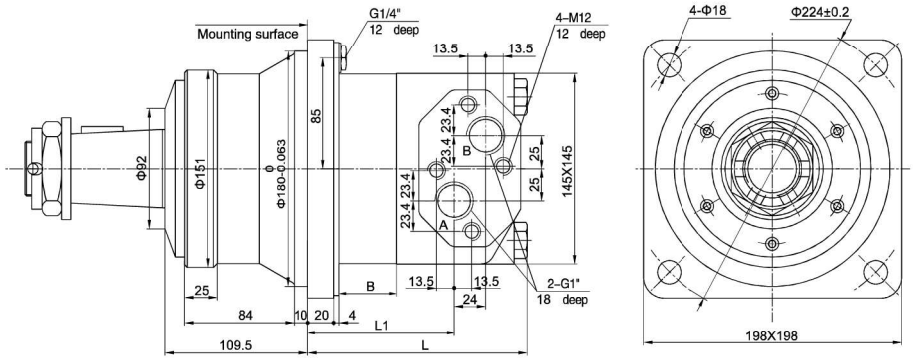


K12: Φ53.975 involute splined shaft 16–DP8/16 a=30°



Note: Flange with A type, hydraulic motor shaft from the mounting surface to increase 29mm.

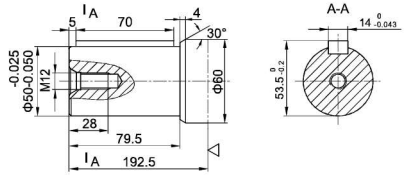
AH5MVW INSTALLATION



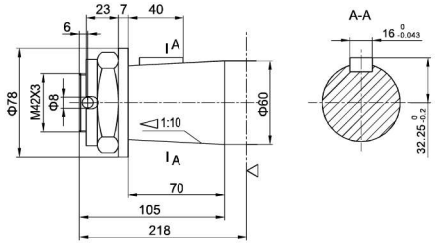
TYPE	AH5MVW-315	AH5MVW-400	AH5MVW-500	AH5MVW-630	AH5MVW-800	AH5MVW-985
L	146	153	161	172	185	200.5
L1	86	93	101	111	125	140
B	19	26	34	44	58	73

AH5MVW series SHAFT VERSION

R: Φ50 Cylindrical shaft, parallel key 14X9X70

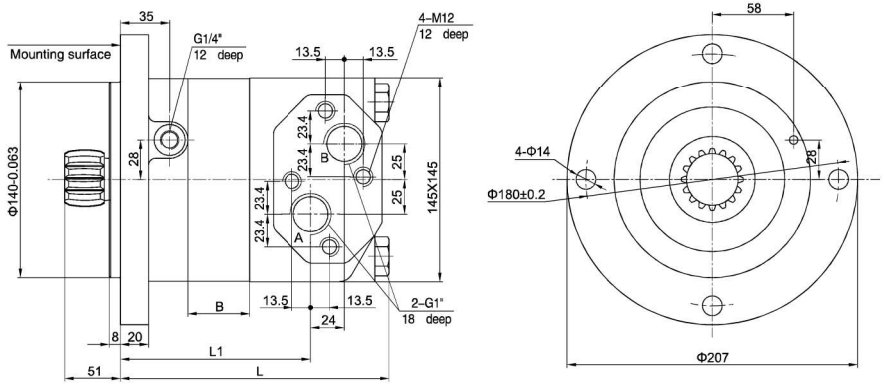


Z: Φ60 Tapered shaft, taper1: 10, parallel key B16X10X32



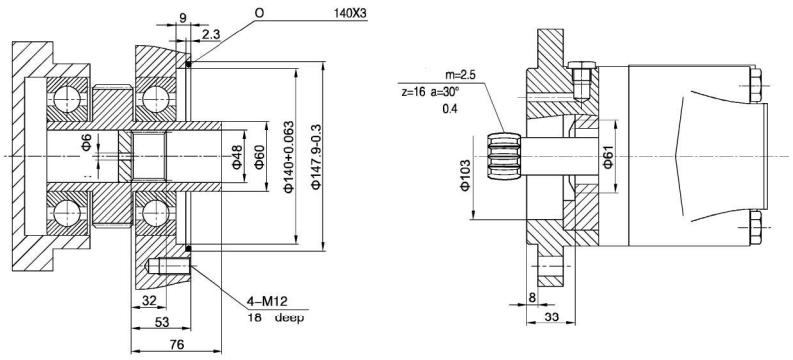
Motor mounting surface

AH5MVS series INSTALLATION



TYPE	AH5MVS-315	AH5MVS-400	AH5MVS-500	AH5MVS-630	AH5MVS-800	AH5MVS-985
L	168	175	183	193	207	222
L1	110	117	125	135	149	164
B	19	26	34	44	58	73

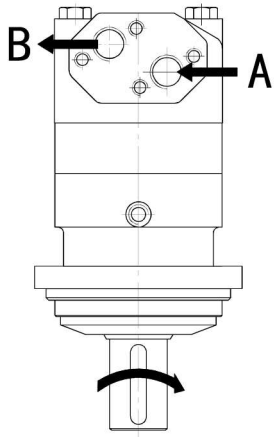
AH5MVS series SHAFT VERSION

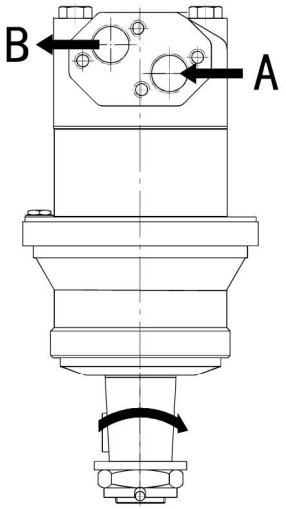


■ AH5MV, AH5MVW, AH5MVS Series Mortor

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.





■ AH5MV, AH5MVW, AH5MVS ORDERING CODE

1	2	3							4		5				6		7
AH5MV	—					/		—				Ports					
Pos.1	Disp	Output							Flange	Code	Ports(A,B)(deep)		Drain port T(deep)		Special features		Rotation direction
Series																	
AH5MV	315	R	Φ50 Cylincrical shaft，parallel key14×9×70						4–Φ18 Square flange, pilotΦ160	Y	G1(18)		G1/4(12)		Omit	Standard	Omit Standard
	400	R1	Φ40 Cylincrical shaft，parallel key12×8×45														L Opposite
		R12	Φ57.15 Cylindrical shaft，parallel key12.7×12.7×57							Y1	G3/4(18)		G1/4(12)				
		R99	Φ50 Cylincrical shaft，parallel key14×9×70														
	500	H4	Φ40 Splined shaft，8–40×35×7						4–Φ14 Square flange, pilotΦ125	Y2	M33×2(18)		M14×1.5(12)				
		H5	Φ40 Splined shaft，6–40×35×10														
	630	K2	Φ44 involute splined shaft，m2.5,z16,a=30°							Y3	M27×2(18)		M14×1.5(12)				
	800	K3	Φ45 involute splined shaft，m2.5,z17,a=30°						4–Φ15.4 Square flange, pilotΦ127								
		K5	Φ53.975 involute splined shaft，16–DP8/16 a=30°							Y8	1 5/16–12UN(18)		9/16–18UNF(12)				
	985	K12	Φ53.975 involute splined shaft，16–DP8/16 a=30°														

■ AH5MV, AH5MVW, AH5MVS ORDERING CODE

1	2	3	4	5	6	7
AH5MVW	—				/	—

Pos.1	2	3		4	5			6	7	
					Ports			Special features	Rotation direction	
Series	Disp	Output		Flange		Ports(A,B)(deep)	Drain port T(deep)			
AH5MVW	315 400 500 630 800 985	R	Φ50 Cylindrical shaft, parallel key14×9×70	A	Code	G1(18)	G1/4(12)	Omit	Omit	Standard
		Z	Φ60 Tapered shaft, taper1::10, parallel keyB16×10×32	4-Φ18 Square flange, pilotΦ180	Y			Standard	L	Opposite

1	2	3
AH5MVS	—	/

Pos.1	2	3	
		Special features	Standard
Series	Disp		Omit
AH5MVS	315 400 500 630 800 985		

■ AH6MZ series TECHNICAL DATA

TYPE		AH6MVZ-800	AH6MVZ-1000	AH6MVZ-1250
Displacement(ml/r)		759.6	949.5	1186.8
Max.Pressure.Drop (Mpa)	cont.	16	16	16
	int.	18	18	18
	peak.	21	21	21
Max.torque (N.m)	cont.	1690	2160	2650
	int.	1903	2379	2973
	peak.	2220	2774	3469
Speed.Range(cont.)(r/min)		5-200	5-160	5-130
Max.Flow(cont.)(L/min)		160	160	160
Max.Output.Power(cont.)(Kw)		35	35	35
Weight (kg)		54	56	58

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

■ AH6MZ series PERFORMANCE DATA

AH6MZ 800[759.6ml/r]

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

AH6MZ 1000[949.5ml/r]

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

(Torque) : 1165Nm
(Speed) : 192r/min

Cont.
Int.

■ AH6MZ series PERFORMANCE DATA

AH6MZ 1250[1186.8ml/r

Pressure (Mpa)

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

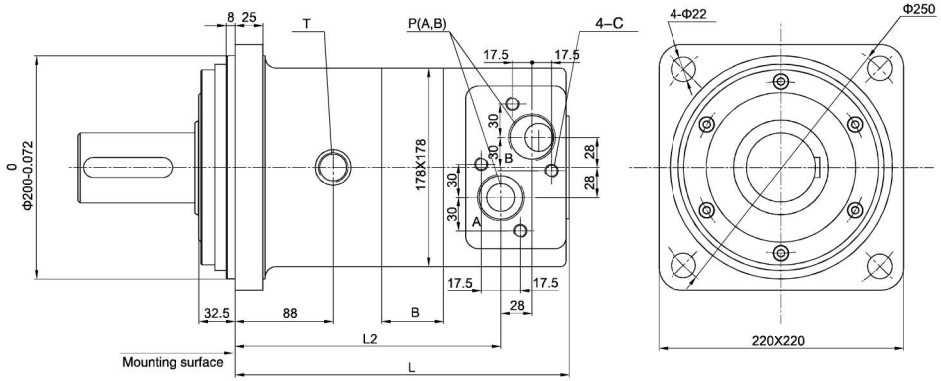
Max.cont. Max.int.

(Torque) : 1532Nm
(Speed) : 152r/min

Cont.
Int.

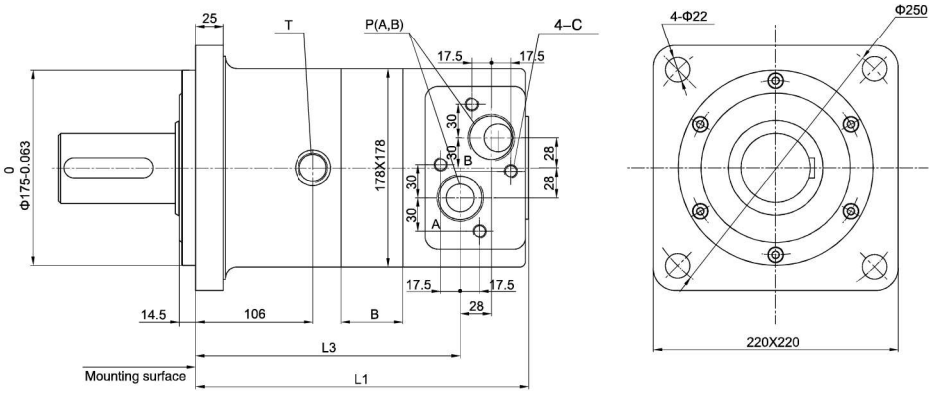
■ AH6MZ series INSTALLATION

A: 4–Φ22 square flange



■ AH6MZ series INSTALLATION

AH: 4–Φ22 square flange



TYPE	AH6MVZ-800	AH6MVZ-1000	AH6MVZ-1250
L	278	288	300
L1	296	306	318
L2	217	227	239
L3	235	245	257
B	33	43	55.5

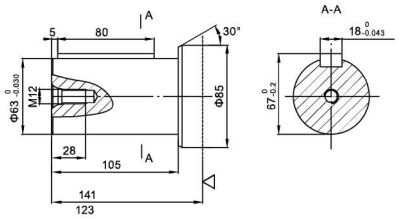
■ AH6MZ series PORTS CODE

Code \ Ports	P(A、B)(deep)	C (deep)	T (deep)
Y	G1–1/4(20)	M12(12)	G3/8" (12)
Y1	Φ36(20)	M12(12)	G3/8" (12)

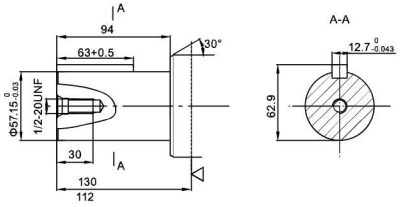
P(A、B)--Ports，C--Mounting Thread (—Indicates no this thread) ，T--Drain connettion

■ AH6MZ series SHAFT VERSION

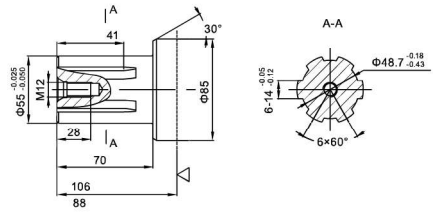
R: Φ63 Cylindrical shaft, parallel key18 × 11 × 80



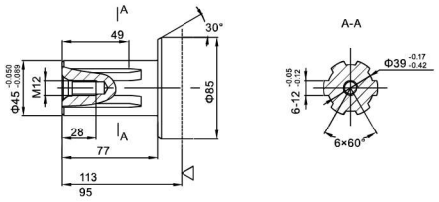
R1: Φ57.15 Cylindrical shaft, parallel key12.7 × 12.7 × 63



H1: Φ55 Splined shaft, 6–55 × 48.7 × 14



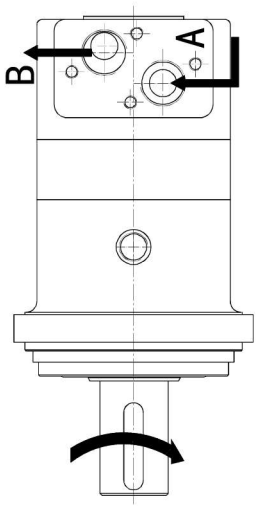
H2: Φ45 Splined shaft, 6–45 × 39 × 12



■ AH6MZ Series Mortor

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.



■ AH6MZ series ORDERING CODE

1	2	3	4	5	6	7
AH6MZ	—			/		—

Pos.1	2	3		4	5			6	7
Series	Disp	Output		Flange	Code	Ports		Special features	Rotation direction
						Ports(A,B)(deep)	Drain port T(deep)		
AH6MZ	800	R	Φ63 Cylincrical shaft, parallel key 18 × 11 × 80	A 4–Φ22 Square flange, pilot Φ200	Y	G1 1/4(20)	G3/8" (12)	Omit	Omit Standard
	1000	R1	Φ57.15 Cylindrical shaft, parallel key 12.7 × 12.7 × 63					Standard	L Opposite
		H1	Φ55 Splined shaft, 6–55 × 48.7 × 14	AH 4–Φ22 Square flange, pilot Φ175	Y1	Φ36(20)	G3/8" (12)		
	1250	H2	Φ45 Splined shaft, 6–45 × 39 × 12						

■ COMPARISON

TYPE	AHMP	AHMR	AH3MS	AH3MSS	AH4MT	AH4MTS	AH5MV	AH5MVS	AH6MZ
Danfoss	OMP	OMR	OMS	OMSS	OMT	OMTS	OMV	OMVS	–
M+S	EPM	EPRM	EPMS	–	EPMT	–	EPMV	–	–

■ USAGE AND NOTICE

1、Selecting motor by standard technical data.
2、The motor must be coaxial with the driven part and the bracket should be stiff enough.
3、Working temperature is 25~55 ℃, maximum temperature is 65 ℃. Hydraulic oil with kenimatic viscosity 25~70mm^2/s (50 ℃) is recommended. The filter is about 20μm. The oil must be clear, polluted oil will damage the motor badly.
4、For AH4-6 there should be a pipe connected the drain port and the oil tank; for AHMR, AHMP, AH3MS the back pressure should be lower than 0.7Mpa, if the back pressure is higher than 1.0Mpa, a drain line should be connected to the oil tank.
5、If nonstandard motor is needed, please contact our technical department.

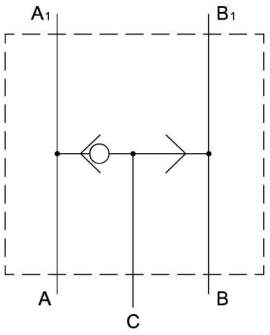
■ COMMON UNIT AND CONVERSION

Physical quantity		Nuit	Unit conversion
Force		N	1 N = 10^{-3} KN
		kgf	1 kgf = 9.81 N
		lbf	1 lbf = 4.45 N
Pressure		bar	1 bar = 10^5 Pa = 14.5 Psi
		Pa	1 Pa = 1 N/m^2 = 10^{-6} MPa
Torque		N · m	
		kgf · m	1kgf·m=9.81 N·m

■ FORMULA

(一) Speed n	(二) Torque Ts	(三) Power Ps
$n=\frac{q_s}{V}\eta_v$ (r/min) q_s Flow (L/min) V — Displacement (L/r) η_v — Volumetric efficiency	$Ts=\frac{\Delta pV}{2\pi}\eta_m$ (N·m) Δp — Working pressure(MPa) η_m — Mechanical efficiency	Ps=n*Ts/9550

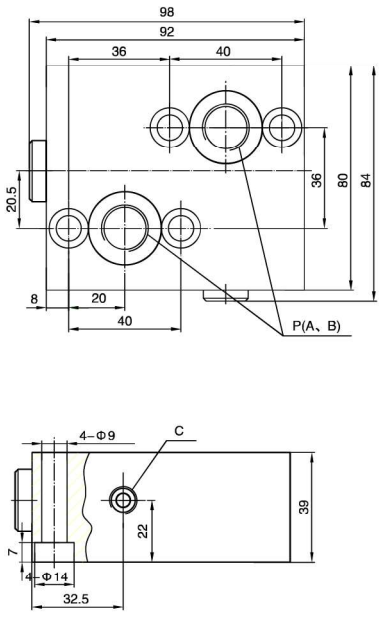
■ SWITCH VALVE



Specifications

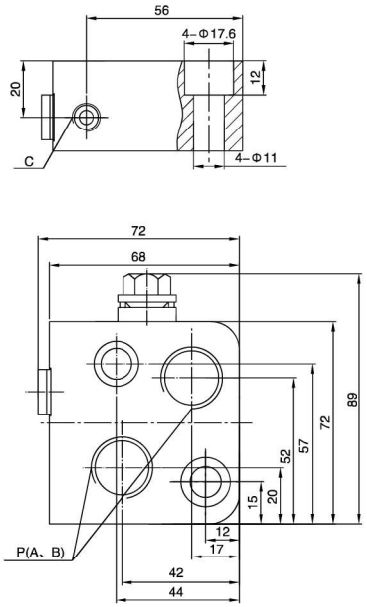
Specifications \ Type	AHMR	AH3MS
Flow Rate(L/min)	60	
Ratedpressure(Mpa)	25	

K1-AHMR



Code	P(A、B) (depth)	C (depth)
Y14	G3/8(15)	M10×1 (10)

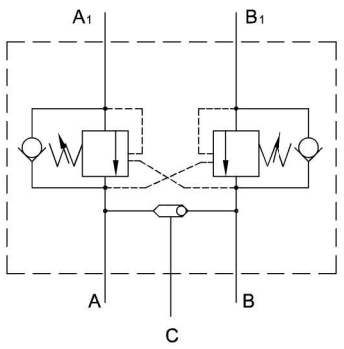
K3-AH3MS



Code	P(A、B) (depth)	C (depth)
Y	G1/2(15)	M10×1 (10)
Y2	M22×1.5 (15)	M10×1 (10)

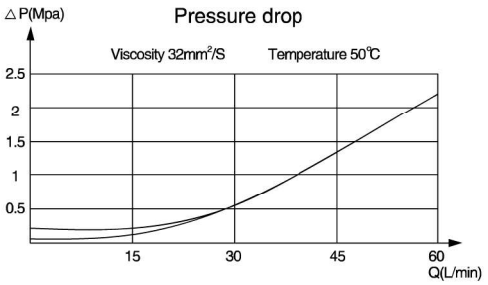
Note:The valve used for BMP series motor.

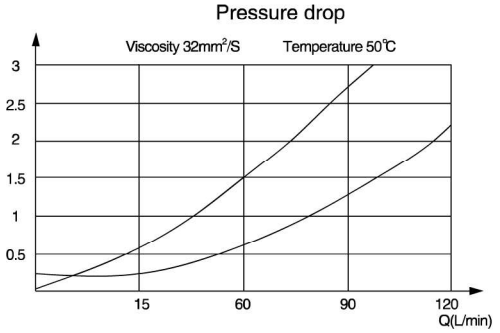
■ OVERCENTER VALVE



Specifications

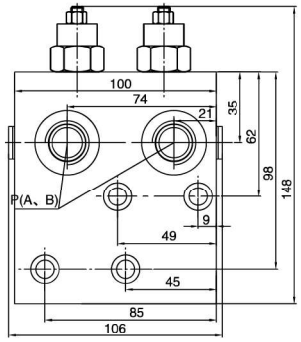
Specifications \ Type	AHMR	AH3MS	AH4MT	AH5MV
Flow Rate(L/min)	60	60	60	120
Ratedpressure(Mpa)	35	35	35	35
Range Pilof ratio	4.5	4.5	4.5	4.5

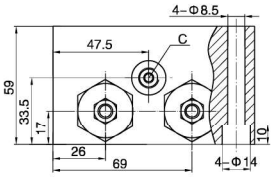




■ AHMR OVERCENTER VALVE USED TO AHMR SERIES MOTORS

K3- AHMR



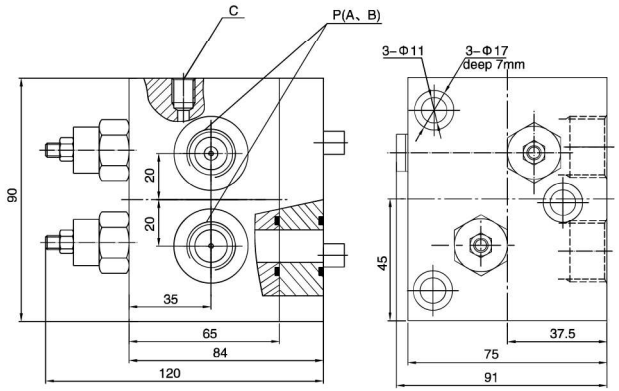


Code	P(A、B) (depth)	C (depth)
Y	G1/2(17)	M10×1 (10)

Note:The valve used for BMP series motor.

■ AH3MS OVERCENTER VALVE USED TO AH3MS SERIES MOTORS

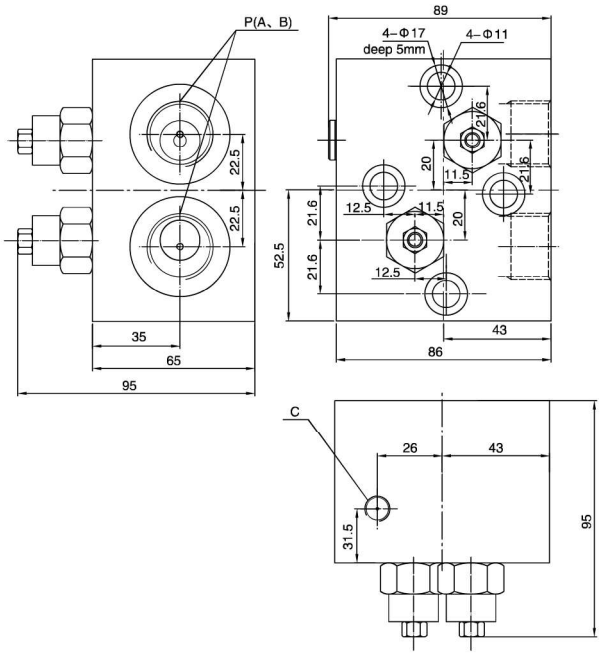
K3-AH3MS



Code	P(A、B) (depth)	C (depth)
Y	G1/2(15)	M10×1 (10)
Y2	M22×1.5 (15)	M10×1 (10)

■ AH4MT OVERCENTER VALVE USED TO AH4MT SERIES MOTORS

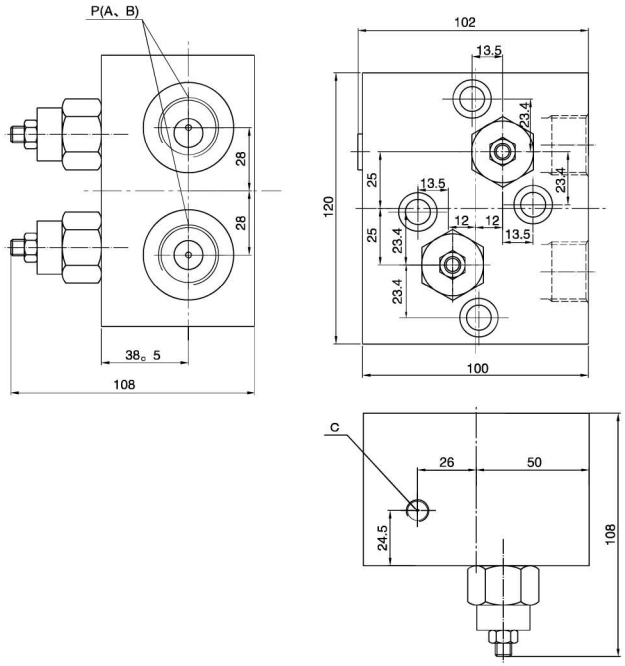
K3-AH4MT



Code	P(A、B) (depth)	C (depth)
Y	G3/4(16)	M10×1 (10)
Y4	M22×1.5 (16)	M10×1 (10)

■ AH5MV OVERCENTER VALVE USED TO AH5MV SERIES MOTORS

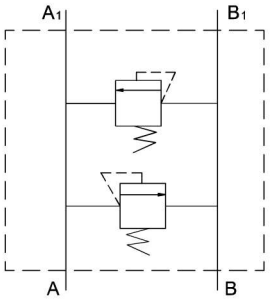
K3-AH5MV



Code	P(A、B) (depth)	C (depth)
Y	G1"(18)	M10×1 (10)
Y4	G3/4"(18)	M10×1 (10)

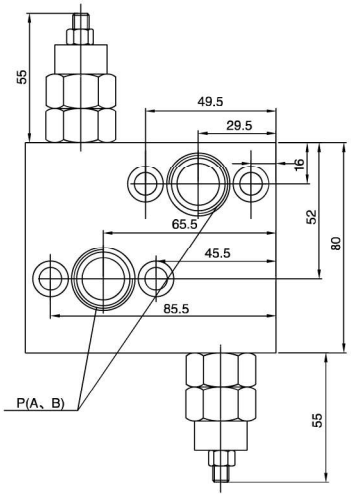
■ AHMR RELIEF VALVE USED TO AHMR SERIES MOTORS

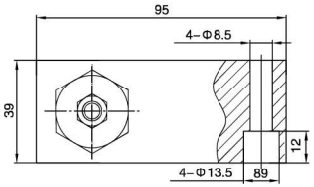
K6-AHMR Dual Crossover Relief Valve Type K6-AHMR



Specifications

Specifications \ Type	K6-AHMR
Flow Rate(L/min)	95
Ratedpressure(Mpa)	7–21

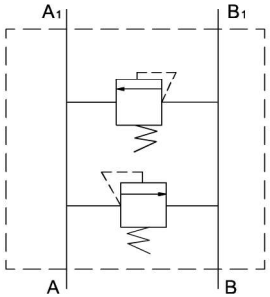




Code	P(A、B) (depth)
Y	G1/2(18)
Y5	7/8–14UNF(18)

■ AH3MS RELIEF VALVE USED TO AH3MS SERIES MOTORS

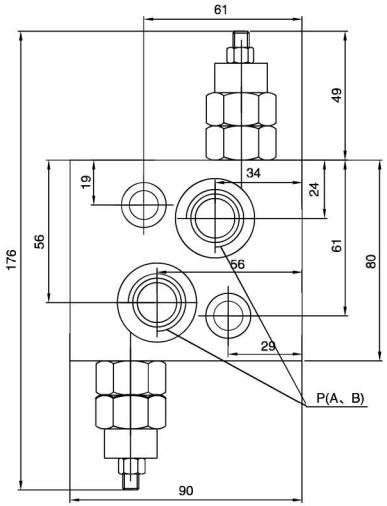
K6-AH3MS Dual Crossover Relief Valve Type AH3MS

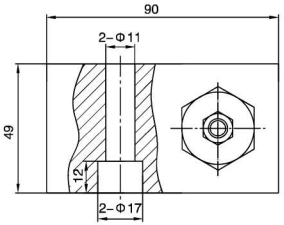


Specifications

Specifications \ Type	K6-AH3MS
Flow Rate(L/min)	95
Ratedpressure(Mpa)	7–25

■ AH3MS RELIEF VALVE USED TO AH3MS SERIES MOTORS

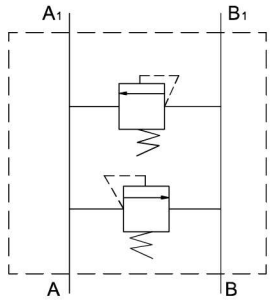




Code	P(A、B) (depth)
Y	G1/2(18)
Y2	M22×1.5(18)

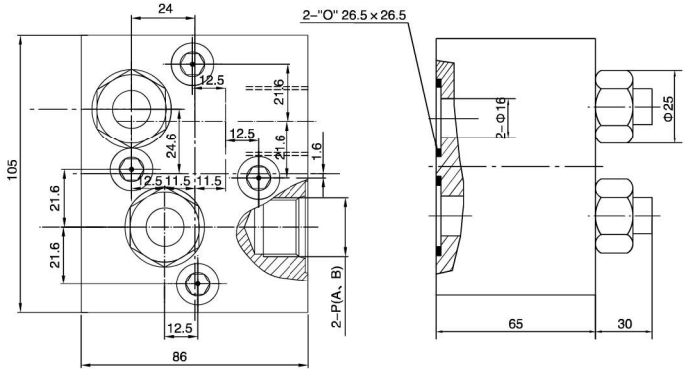
■ AH4MT RELIEF VALVE USED TO AH4MT SERIES MOTORS

K6-AH4MT Dual Crossover Relief Valve Type AH4MT



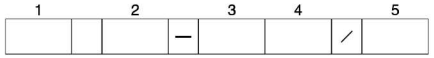
Specifications

Specifications \ Type	K6-AH4MT
Flow Rate(L/min)	18
Ratedpressure(Mpa)	7–21

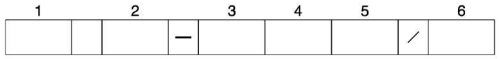


Code	P(A、B) (depth)
Y	G3/4(24)
Y4	M22×1.5(16)

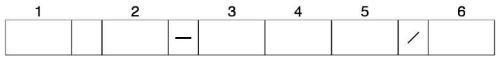
■ ORDERING CODE



Pos.1	2		3	4			5
Hydraulic contorl system code	With motor code		Switch Valve	Ports			Special features
				Code	Ports(A,B)(deep)	Port C(deep)	
K1		AHMR AHMP	Sx 1 - 9 (Different digital means switch valve)	Y14	G3/8(15)	M10 × 1(10)	T (nothing：Omit)
		AH3MS		Y	G1/2(15)	M10 × 1(10)	
				Y2	M22 × 1.5(15)		



Pos.1	2		3	4	5			6
Hydraulic contorl system code	With motor code		Overcenter Valve	Switch Valve	Ports			Special features
					Code	Ports(A,B)(deep)	Port C(deep)	
K3		AHMR AHMP	Px 1 - 9 (Different digital means different overcenter valve)	Sx 1 - 9 (Different digital means switch valve)	Y14	G5/8(15)	M10 × 1(10)	T (nothing：Omit)
		AH3MS			Y	G1/2(15)	M10 × 1(10)	
					Y2	M22 × 1.5(15)		
		AH4MT			Y	G3/4(15)	M10 × 1(10)	
					Y4	M22 × 1.5(15)		
		AH5MV			Y	G1″ (18)	M10 × 1(10)	
					Y4	G3/4″ (18)		



Pos.1	2		3	4	5			6
Hydraulic contorl system code	With motor code		Relief Valve	Switch Valve	Ports			Special features
					Code	Ports(A,B)(deep)	Port C(deep)	
K6		AHMR AHMP	Ax 1 - 9 (Different digital means different relief valve)	Sx 1 - 9 (Different digital means switch valve)	Y14	G5/8(15)	M10 × 1(10)	T (nothing：Omit)
		AH3MS			Y	G1/2(15)	M10 × 1(10)	
					Y2	M22 × 1.5(15)		
		AH4MT			Y	G3/4(15)	M10 × 1(10)	
					Y4	M22 × 1.5(15)		