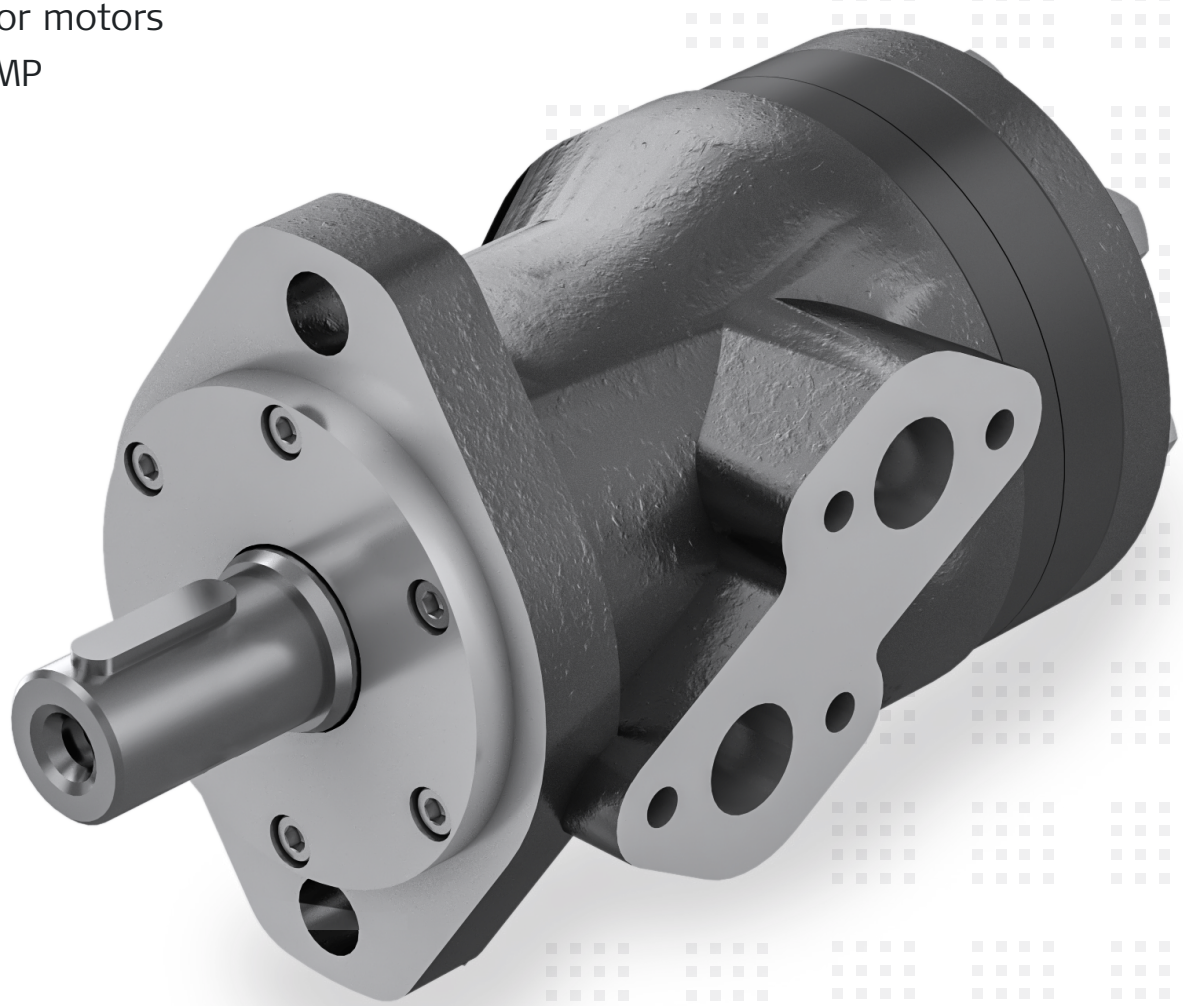
DANITECH

shop.danitech.com

forward products

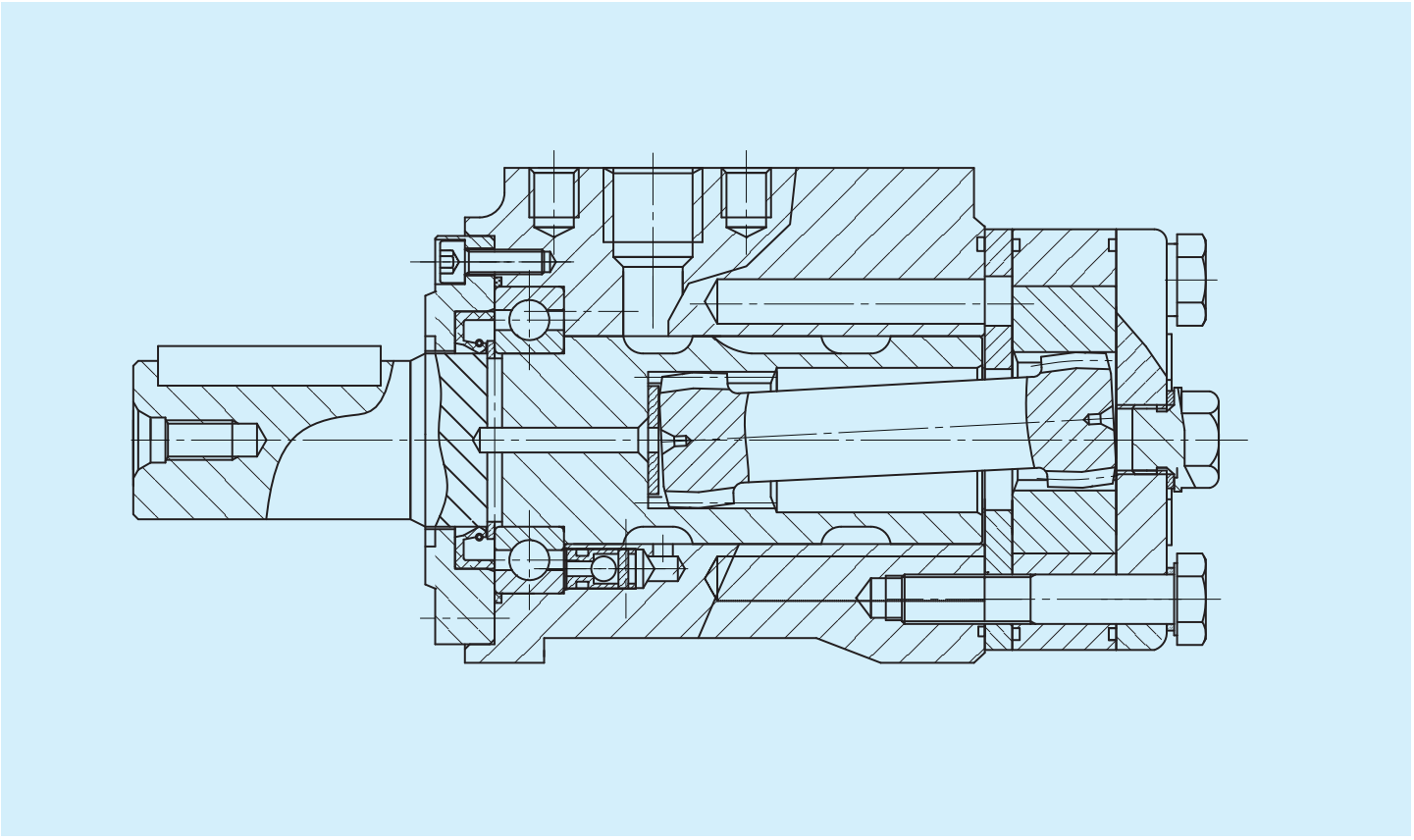
Orbital motors

Gerotor motors
Type MP



danitech.com

Before use, carefully read the general instructions for use of orbital motors.



Gerotor motor with radial distribution and ball bearings, suitable for use in medium pressure conditions.

	Displacement	Pressure			Torque			Rotational speed	Max. flow rate	Max. output power	Weight
		Continuous	Intermittent	Peak	Continuous	Intermittent	Peak				
	cm³/rev	bar	bar	bar	Nm	Nm	Nm	min-1	l/min	kW	kg
050	52.9	140	175	225	97	125	149	800	40	7	5.6
080	79.3	140	175	225	148	189	222	770	60	10	5.7
100	98.2	140	175	225	183	238	276	615	60	10	5.9
125	120.9	140	175	225	229	292	340	480	60	10	6.0
160	158.7	140	175	225	295	382	445	385	60	10	6.2
200	196.4	140	175	225	364	470	532	310	60	10	6.2
250	241.8	120	140	200	369	444	568	250	60	8.5	6.6
315	317.3	100	120	150	404	501	555	195	60	7	6.9
400	392.9	80	100	130	416	531	596	155	60	5.7	7.4

Intermittent conditions must not last more than 10% of each minute.
Peak conditions must not last more than 1% of each minute.

Performance

DANITECH

050 52.9 cm³/rev

Flow rate l/min	Pressure bar 30	60	80	100	125	140	160	175
8	18 **148**	38 **140**	55 **123**	69 **102**	87 **83**	100 **61**	115 **42**	
15	19 **277**	39 **264**	56 **251**	70 **242**	87 **233**	102 **219**	116 **202**	128 **188**
20	19 **370**	39 **359**	54 **348**	69 **337**	89 **328**	100 **320**	115 **301**	127 **282**
30	18 **556**	38 **541**	53 **529**	68 **516**	88 **509**	98 **500**	114 **487**	126 **461**
35	17 **649**	37 **629**	52 **619**	67 **608**	86 **601**	97 **595**	113 **578**	125 **559**
40	16 **741**	36 **725**	50 **718**	66 **710**	85 **695**	96 **688**	111 **673**	123 **627**
50	13 **927**	31 **919**	47 **910**	59 **900**	81 **888**	94 **874**	**104** **856**	115 **837**
60	9 **1122**	25 **1101**	42 **1094**	50 **1082**	76 **1075**	90 **1064**	98 **1042**	106 **1011**

Torque Nm
Rotational speed min-1

Pressure Continuous

Pressure Intermittent

080 79.3 cm³/rev

Flow rate l/min	Pressure bar 30	60	80	100	125	140	160	175
8	33 **99**	60 **91**	81 **79**	103 **67**	133 **56**	148 **42**	172 **32**	
15	36 **185**	61 **172**	82 **163**	104 **152**	133 **134**	149 **125**	173 **117**	192 **94**
20	34 **247**	62 **238**	83 **230**	105 **220**	134 **205**	150 **197**	174 **189**	192 **172**
30	33 **370**	60 **363**	82 **355**	104 **342**	133 **327**	149 **316**	172 **302**	190 **285**
35	32 **433**	59 **417**	80 **406**	102 **398**	131 **390**	148 **384**	170 **367**	189 **365**
40	30 **494**	57 **484**	78 **478**	101 **471**	129 **461**	147 **453**	169 **443**	188 **411**
50	29 **617**	56 **604**	77 **597**	100 **590**	128 **578**	145 **571**	168 **558**	186 **519**
60	28 **741**	55 **726**	76 **718**	99 **710**	127 **700**	144 **686**	167 **673**	184 **624**
75	22 **926**	48 **906**	71 **896**	93 **887**	120 **867**	134 **857**	160 **838**	175 **779**

Torque Nm
Rotational speed min-1

Pressure Continuous

Pressure Intermittent

100 98.2 cm³/rev

Flow rate l/min	Pressure bar 30	60	80	100	125	140	160	175
8	37 **80**	73 **68**	98 **59**	128 **50**	164 **163**	186 **33**		
15	38 **150**	74 **139**	99 **129**	129 **117**	165 **102**	187 **96**	218 **87**	240 **69**
20	39 **200**	75 **189**	100 **180**	130 **171**	166 **159**	188 **150**	219 **136**	241 **119**
30	37 **299**	73 **286**	98 **279**	127 **270**	163 **259**	185 **250**	216 **234**	239 **219**
35	36 **349**	71 **338**	97 **333**	126 **329**	161 **318**	183 **309**	214 **299**	238 **281**
40	35 **399**	70 **391**	96 **387**	124 **383**	160 **375**	182 **370**	213 **363**	236 **338**
50	34 **499**	69 **489**	95 **484**	123 **479**	159 **468**	181 **463**	211 **453**	235 **423**
60	33 **599**	68 **587**	94 **580**	122 **574**	158 **562**	180 **556**	210 **544**	233 **507**
75	27 **748**	61 **733**	86 **726**	111 **718**	149 **703**	168 **695**	198 **680**	202 **634**

Torque Nm
Rotational speed min-1

Pressure Continuous

Pressure Intermittent

125 120.9 cm³/rev

Flow rate l/min	Pressure bar 30	60	80	100	125	140	160	175
8	44 **65**	90 **61**	123 **51**	158 **44**	205 **36**	231 **30**		
15	45 **122**	91 **118**	124 **112**	159 **105**	206 **99**	232 **91**	265 **79**	294 **61**
20	46 **165**	90 **152**	125 **143**	160 **133**	206 **126**	233 **112**	266 **106**	295 **98**
30	45 **243**	88 **238**	123 **236**	158 **231**	204 **224**	230 **217**	264 **206**	293 **191**
35	43 **284**	86 **278**	121 **275**	156 **272**	202 **266**	229 **263**	263 **258**	292 **240**
40	42 **342**	85 **323**	120 **314**	154 **311**	200 **304**	226 **301**	262 **294**	290 **274**
50	41 **405**	84 **397**	118 **393**	152 **389**	197 **380**	223 **376**	261 **368**	288 **343**
60	40 **486**	83 **476**	116 **470**	150 **465**	195 **465**	221 **452**	259 **441**	286 **412**
75	31 **608**	78 **596**	107 **589**	139 **583**	187 **571**	211 **564**	241 **552**	272 **515**

Torque Nm
Rotational speed min-1

Pressure Continuous

Pressure Intermittent

160 158.7 cm³/rev

Flow rate l/min	Pressure bar 30	60	80	100	125	140	160	175
8	57 **49**	117 **46**	160 **41**	206 **34**	261 **29**			
15	58 **93**	118 **84**	161 **79**	207 **72**	262 **64**	298 **58**	349 **50**	385 **41**
20	59 **123**	119 **118**	162 **115**	208 **111**	263 **104**	299 **99**	350 **93**	386 **82**
30	58 **185**	117 **181**	160 **177**	205 **173**	261 **168**	298 **165**	348 **159**	384 **148**
35	57 **216**	115 **211**	159 **209**	203 **207**	260 **202**	295 **200**	346 **196**	382 **183**
40	55 **247**	114 **241**	156 **238**	201 **236**	259 **231**	293 **228**	344 **220**	380 **207**
50	53 **309**	111 **302**	154 **299**	199 **296**	258 **289**	292 **286**	342 **280**	378 **261**
60	52 **370**	109 **363**	152 **359**	197 **355**	256 **348**	290 **344**	340 **336**	376 **314**
75	43 **463**	101 **453**	143 **448**	190 **444**	249 **430**	282 **420**	322 **410**	358 **383**

Torque Nm
Rotational speed min-1

Pressure Continuous

Pressure Intermittent

200 196.4 cm³/rev

Flow rate l/min	Pressure bar 30	60	80	100	125	140	160	175
8	69 **40**	140 **33**	193 **29**	248 **25**				
15	70 **75**	141 **70**	194 **64**	249 **58**	324 **50**	366 **41**	428 **32**	
20	71 **100**	142 **92**	195 **83**	250 **75**	325 **69**	367 **58**	428 **52**	472 **47**
30	70 **150**	141 **140**	193 **136**	248 **129**	323 **120**	366 **112**	426 **101**	471 **93**
35	69 **175**	140 **170**	191 **164**	247 **160**	321 **154**	364 **148**	425 **140**	470 **129**
40	67 **199**	138 **194**	190 **191**	246 **188**	320 **183**	362 **179**	423 **171**	468 **159**
50	66 **249**	136 **244**	189 **241**	244 **239**	318 **234**	361 **230**	422 **226**	466 **211**
60	65 **299**	135 **293**	187 **290**	243 **287**	316 **281**	359 **278**	420 **255**	465 **238**
75	58 **374**	127 **366**	179 **362**	234 **358**	308 **351**	348 **347**	408 **339**	456 **317**

Torque Nm
Rotational speed min-1

Pressure Continuous

Pressure Intermittent

250 241.8 cm³/rev

Flow rate l/min	Pressure bar 30	60	80	100	120	140
8	86 **32**	172 **30**	234 **26**			
15	87 **61**	173 **59**	235 **54**	297 **49**	368 **40**	443 **33**
20	88 **81**	174 **78**	236 **73**	298 **68**	369 **62**	444 **56**
30	86 **123**	173 **120**	235 **118**	297 **116**	368 **112**	443 **103**
35	85 **142**	171 **138**	234 **132**	296 **125**	366 **117**	442 **108**
45	83 **162**	169 **159**	232 **154**	294 **150**	364 **144**	440 **135**
55	82 **203**	167 **198**	230 **195**	293 **193**	362 **191**	438 **186**
60	**81** **243**	166 **238**	228 **236**	292 **233**	360 **230**	437 **221**
75	74 **304**	153 **297**	212 **294**	281 **291**	349 **288**	423 **277**

Torque Nm
Rotational speed min-1

Pressure Continuous

Pressure Intermittent

315 317.3 cm³/rev

Flow rate l/min	Pressure bar 30	50	70	90	100	120
8	114 **25**	191 **22**	270 **19**			
15	115 **46**	192 **42**	271 **38**	355 **34**	403 **29**	500 **21**
20	116 **62**	193 **59**	272 **55**	356 **51**	404 **45**	501 **40**
30	114 **93**	191 **90**	270 **86**	354 **80**	403 **76**	499 **65**
35	112 **108**	189 **105**	268 **103**	352 **101**	400 **100**	497 **95**
40	110 **123**	187 **121**	266 **119**	350 **116**	398 **114**	495 **109**
50	108 **154**	184 **151**	264 **148**	348 **144**	396 **142**	493 **137**
60	106 **185**	182 **181**	262 **179**	346 **176**	394 **174**	491 **171**
75	100 **231**	175 **226**	156 **222**	339 **219**	387 **215**	482 **209**

Torque Nm
Rotational speed min-1

Pressure Continuous

Pressure Intermittent

Performance

DANITECH

400 392.9 cm³/rev

Flow rate l/min	Pressure bar 30	40	50	70	80	100
8	155 **20**	204 **18**				
15	156 **37**	205 **34**	262 **31**	366 **27**	428 **24**	544 **19**
20	157 **50**	208 **47**	264 **44**	368 **39**	434 **37**	549 **32**
30	152 **75**	204 **72**	258 **69**	362 **66**	424 **64**	540 **60**
35	148 **87**	198 **84**	252 **81**	356 **77**	416 **74**	531 **69**
45	142 **100**	193 **97**	246 **94**	348 **90**	406 **88**	523 **84**
55	136 **125**	186 **122**	238 **120**	341 **117**	398 **115**	515 **111**
60	131 **150**	180 **148**	231 **146**	333 **142**	390 **140**	506 **137**
75	123 **187**	168 **183**	215 **179**	312 **172**	371 **169**	492 **162**

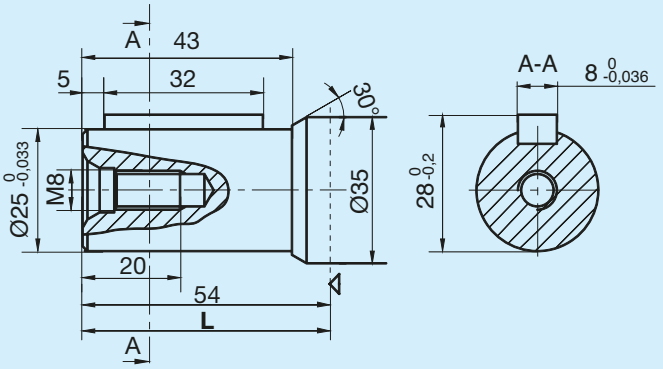
Torque Nm
Rotational speed min-1

Pressure
Continuous

Pressure
Intermittent

Ø25 key DIN 6885 A 8x7x32 mm

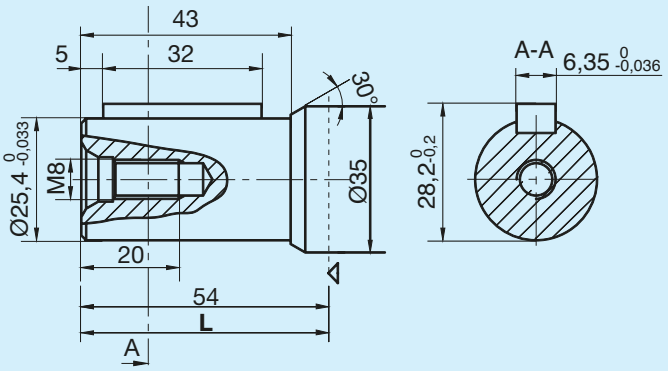
Max. torque 400 Nm



For flange C-C1 L = 48 mm

1" EU key BS46 ¼"x¼"x1 ¼"

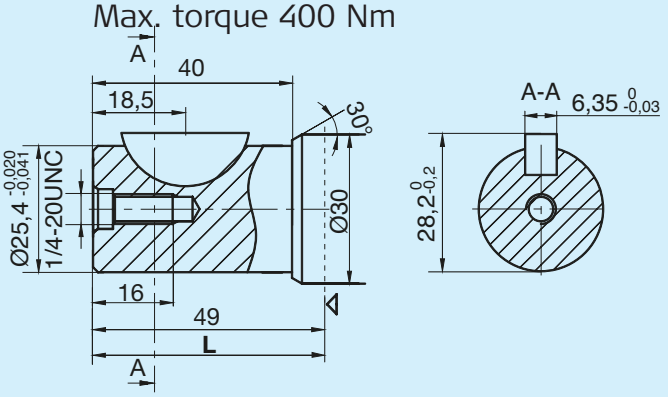
Max. torque 400 Nm



For flange C-C1 L = 45 mm

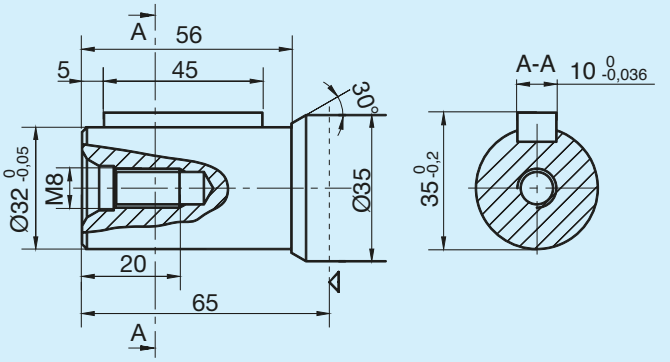
1" US key BS46 ¼"x¼"x1 ¼"

Max. torque 400 Nm



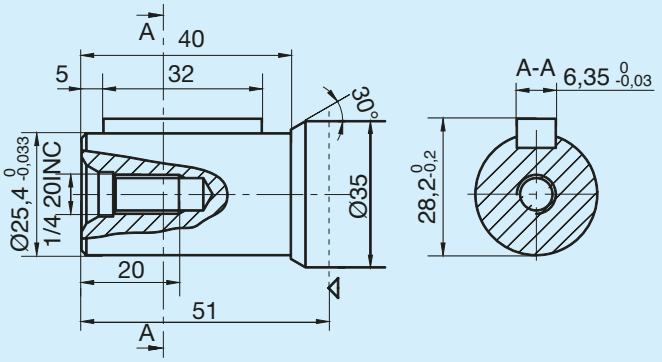
Ø32 key DIN 6885 A 10x8x45 mm

Max. torque 610 Nm



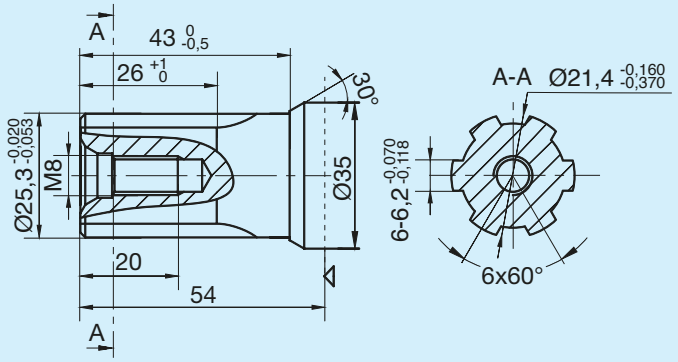
1" US key BS46 ¼"x¼"x1 ¼"

Max. torque 400 Nm



SAE 6 B (BS2059) EU

Max. torque 400 Nm

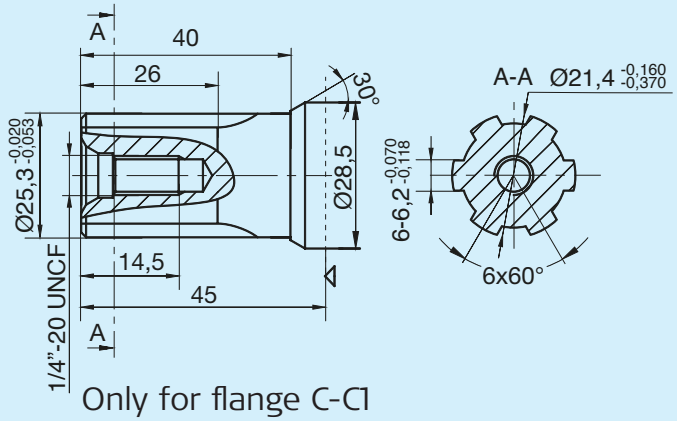


The shafts come with anti-corrosion treatment as standard.

Shaft profile

SAE 6 B (BS2059) US

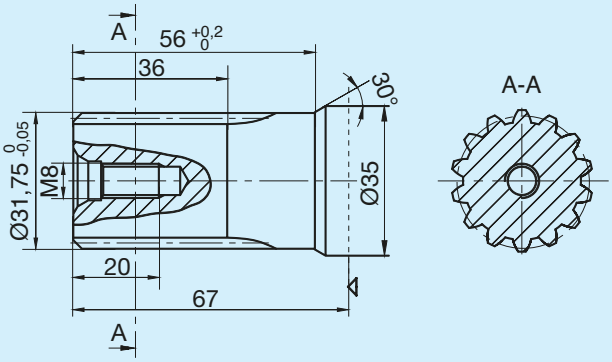
Max. torque 400 Nm



Only for flange C-C1

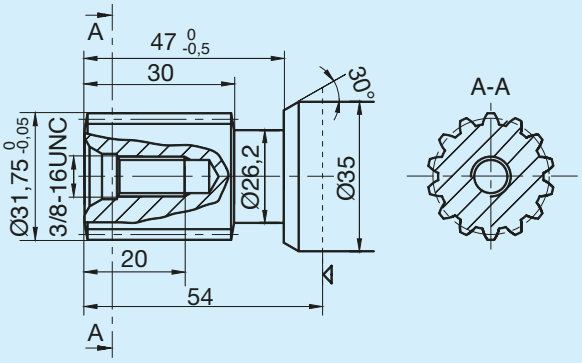
1 ¼" ANSI B92.1 DP12/24 30° Z14

Max. torque 610 Nm



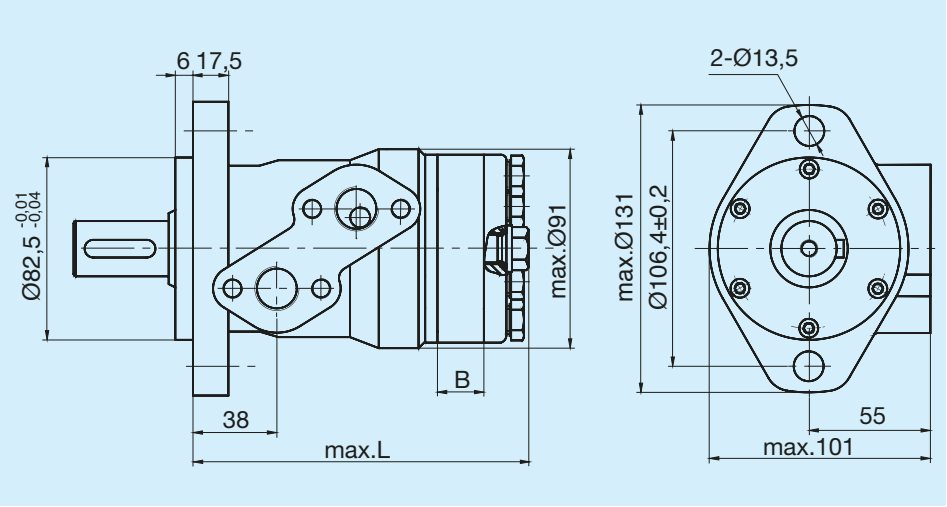
ANSI-B92.1 DP12/24 30° Z14

Max. torque 400 Nm



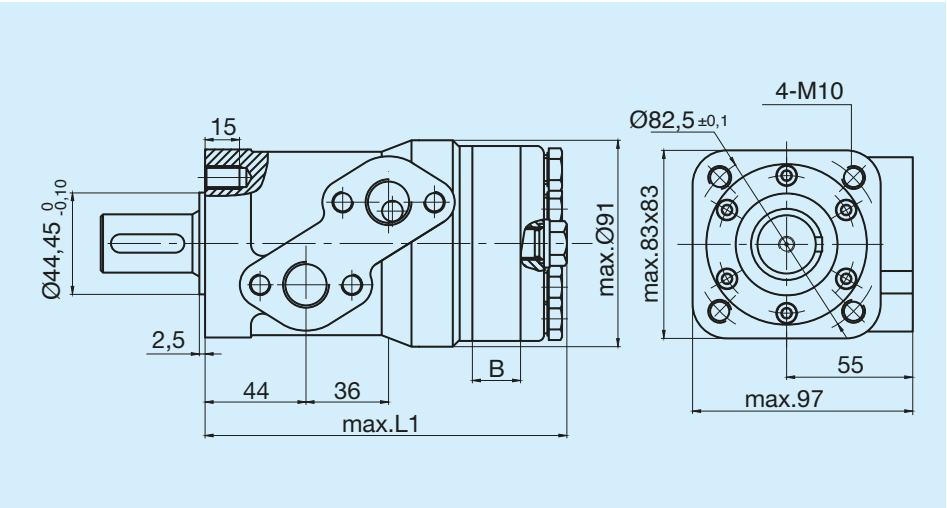
The shafts come with anti-corrosion treatment as standard.

SAE A 2 hole



Type	L	L1	B
	mm	mm	mm
500	143.5	151.5	7
080	144.5	152.5	11
100	146.5	154.5	13
125	149.5	157.5	16
160	154.5	162.5	21
200	159.5	164.5	26
250	165.5	173.5	32
315	175.5	183.5	42
400	185.5	193.5	52

M46C EU

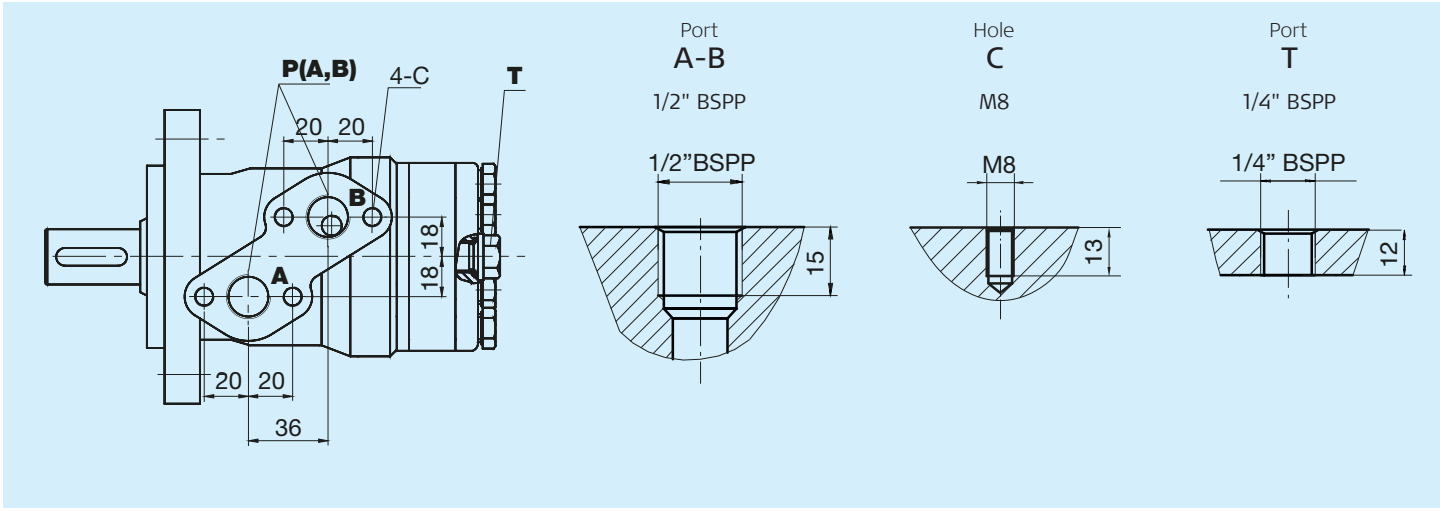


Type	L	L1	B
	mm	mm	mm
050	143.5	151.5	7
080	144.5	152.5	11
100	146.5	154.5	13
125	149.5	157.5	16
160	154.5	162.5	21
200	159.5	164.5	26
250	165.5	173.5	32
315	175.5	183.5	42
400	185.5	193.5	52

The flanges come with anti-corrosion treatment as standard.

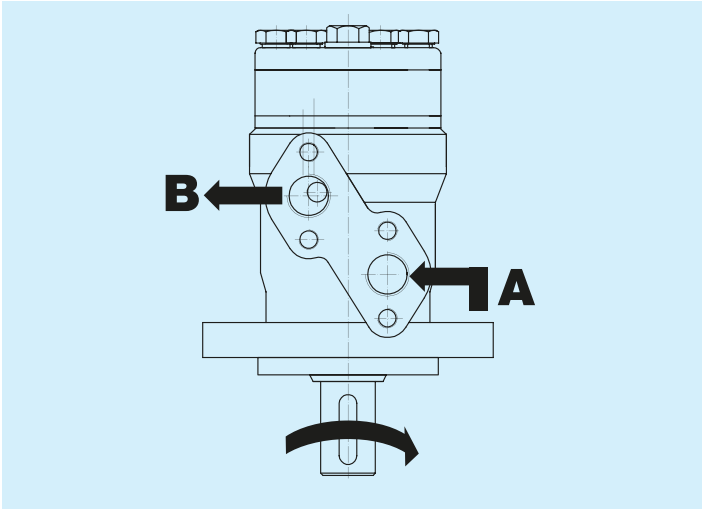
Port combinations

With lateral ports



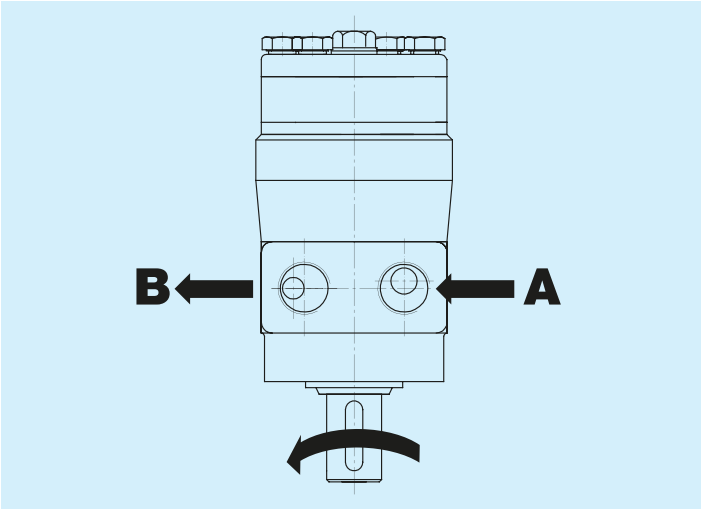
Direction of rotation of shafts

Standard



When facing the motor shaft, rotation is:
- Clockwise, when port A is pressurised.
- Counterclockwise, when port B is pressurised.

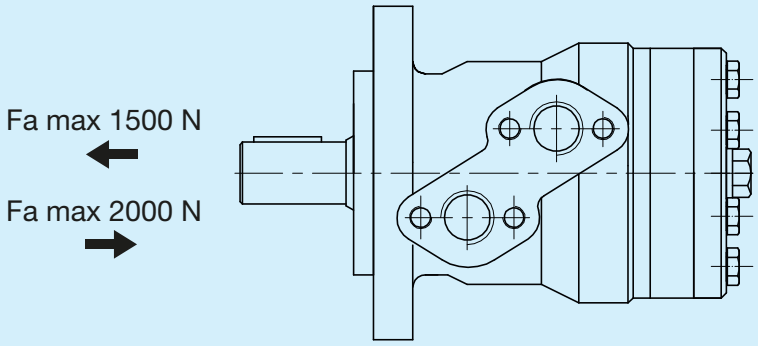
Reverse



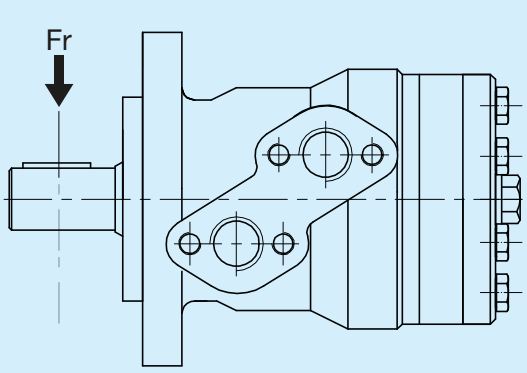
When facing the motor shaft, rotation is:
- Counterclockwise, when port A is pressurised.
- Clockwise, when port B is pressurised.

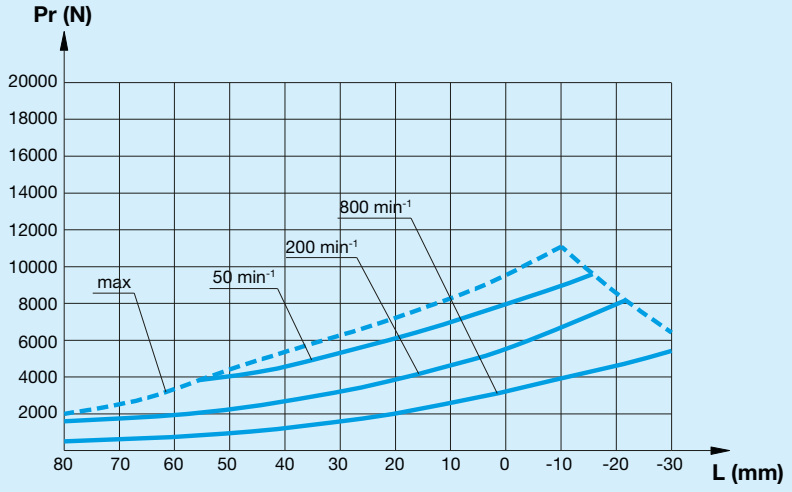
Permitted loads

Axial load



Radial load





Headquarters

Denmark

Bredholm 4
DK-6100 Haderslev
infodk@danitech.com
+45 76 34 23 00

Netherlands

Energieweg 41A
NL-2382 NC Zoeterwoude
infonl@danitech.com
+31 (0) 715 417 704

Germany

infode@danitech.com
+49 (0) 44 88 52 054 52
+49 (0) 151 53 60 09 79

Sweden

infose@danitech.com
+46 (0) 46 23 30 60