

forward products 

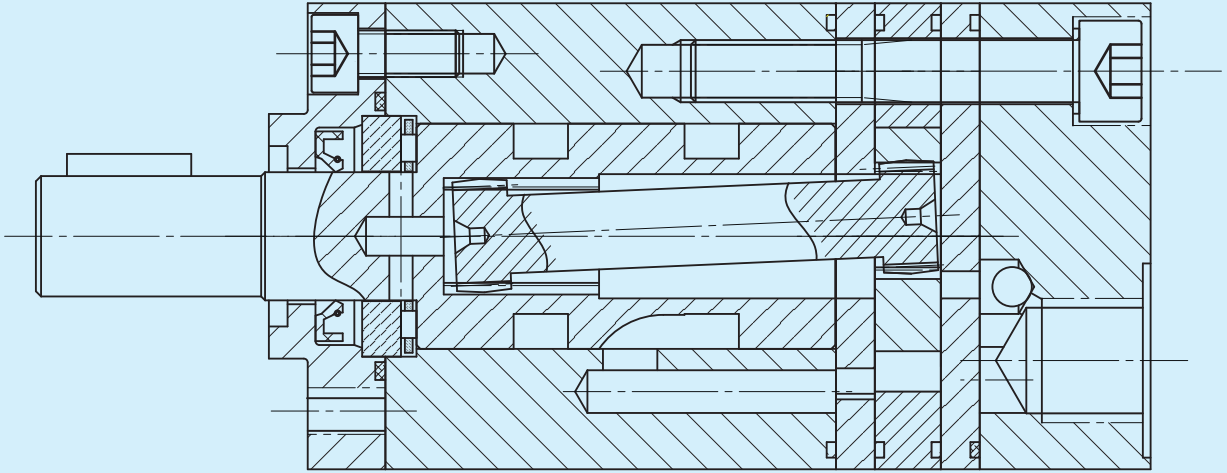
## Orbital motors

Compact gerotor motors

Type MM



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



Compact gerotor motor with radial distribution and axial needle bearings, suitable for use where high rotation speeds and small dimensions are required.

	Displacement		Pressure			Torque			Rotational speed min-1	Max. flow rate l/min	Max. output power kW	Weight kg
	cm <sup>3</sup> /rev	Continuous bar	Intermittent bar	Peak bar	Continuous Nm	Intermittent Nm	Peak Nm					
<b>08</b>	8.2	100	140	200	11	15	21	1950	16	1.8	1.9	
<b>12</b>	12.9	100	140	200	16	23	33	1550	20	2.4	2	
<b>20</b>	19.9	100	140	200	25	35	51	1000	20	2.4	2.1	
<b>32</b>	31.6	100	140	160	40	57	64	630	20	2.4	2.2	
<b>40</b>	39.8	90	140	160	45	70	82	500	20	2.4	2.3	
<b>50</b>	50.3	70	140	160	46	88	100	400	20	1.8	2.4	

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

## 08 8.2 cm<sup>3</sup>/rev

Flow rate l/min	Pressure bar					
	35	50	70	100	120	140
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
15		4 1912	7 1900	10 1861	12 1833	14 1780
20			6 2395	10 2350	11 2328	14 2281

Torque Nm  
Rotational speed min-1

Pressure  
Continuous

Pressure  
Intermittent

## 12 12.9 cm<sup>3</sup>/rev

Flow rate l/min	Pressure bar					
	35	50	70	100	120	140
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
20	3 1542	7 1532	10 1521	15 1500	19 2328	22 1437
25	2 1910	6 1891	9 1878	14 1848	18 1828	22 1788

Torque Nm  
Rotational speed min-1

Pressure  
Continuous

Pressure  
Intermittent

## 20 19.9 cm<sup>3</sup>/rev

Flow rate l/min	Pressure bar						
	17	35	50	70	100	120	140
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
20	1 998	6 995	11 991	19 985	24 962	29 916	35 885
25		4 1247	9 1245	14 1242	23 1189	28 1180	33 1176

Torque Nm  
Rotational speed min-1

Pressure  
Continuous

Pressure  
Intermittent

## 32 31.6 cm<sup>3</sup>/rev

Flow rate l/min	Pressure bar						
	20	35	50	70	100	120	140
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
20	3 633	10 630	17 627	25 619	37 601	46 585	55 566
25	1 791	8 789	15 787	23 783	35 766	43 753	52 732

Torque Nm  
Rotational speed min-1

Pressure  
Continuous

Pressure  
Intermittent

## 40 39.8 cm<sup>3</sup>/rev

Flow rate l/min	Pressure bar					
	30	50	70	85	100	120
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
20	10 497	21 492	31 487	39 480	48 472	59 463
25	7 622	19 617	29 612	37 607	44 600	56 591

Torque Nm  
Rotational speed min-1

Pressure  
Continuous

Pressure  
Intermittent

## 50 50.3 cm<sup>3</sup>/rev

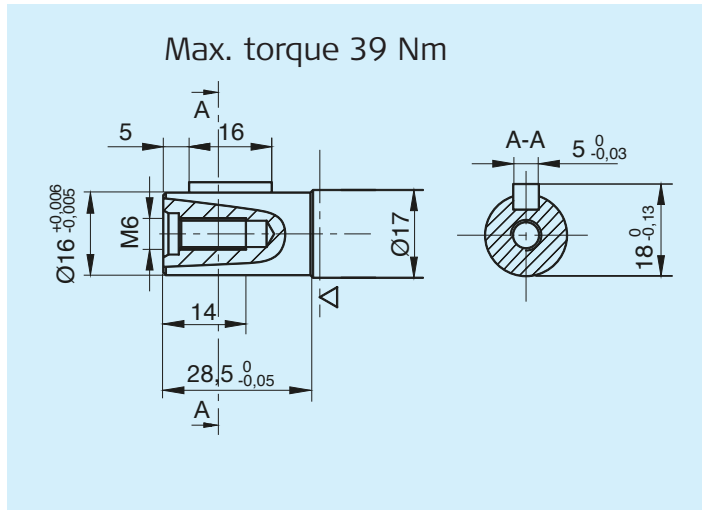
Flow rate l/min	Pressure bar				
	15	30	50	70	100
2	11 37	23 33	36 27	50 22	
4	11 76	22 73	36 68	50 63	70 55
8	11 157	21 154	35 149	50 145	71 137
12	11 237	20 234	33 231	49 226	71 218
15	10 296	18 295	32 294	47 288	69 282
20	8 395	14 395	29 393	44 390	64 381
25	4 498	10 496	25 494	40 490	59 484

Torque Nm  
Rotational speed min-1

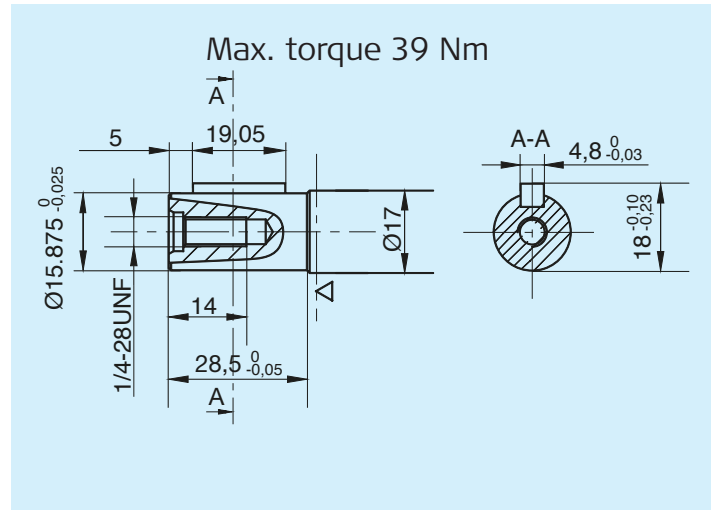
Pressure  
Continuous

Pressure  
Intermittent

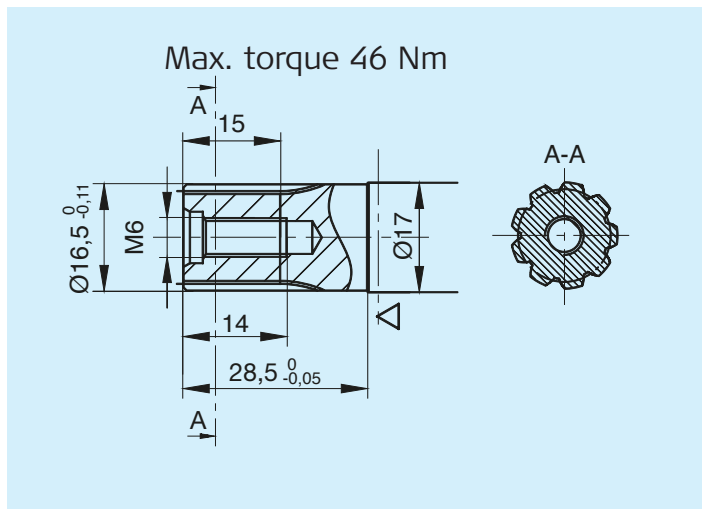
Ø16 key DIN68885 A 5x5x16 mm



5/8" key BS46 3/16"x3/16"x3/4"

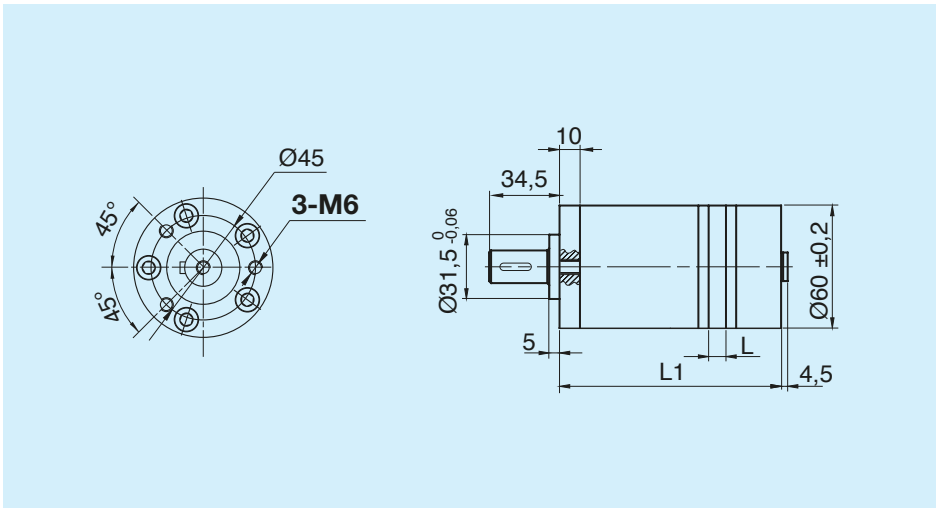


Grooved DIN 5482 17x14 mm



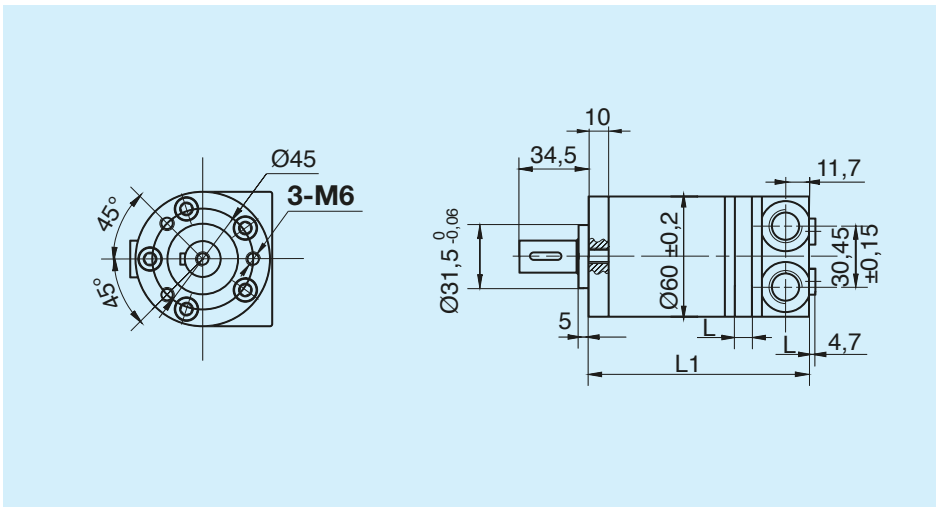
The shafts come with anti-corrosion treatment as standard.

## EU rear ports



Type	L mm	L1 mm
08	3.5	104.5
12	5.5	106.5
20	8.5	109.5
32	13.5	114.5
40	17	118
50	21.5	122.5

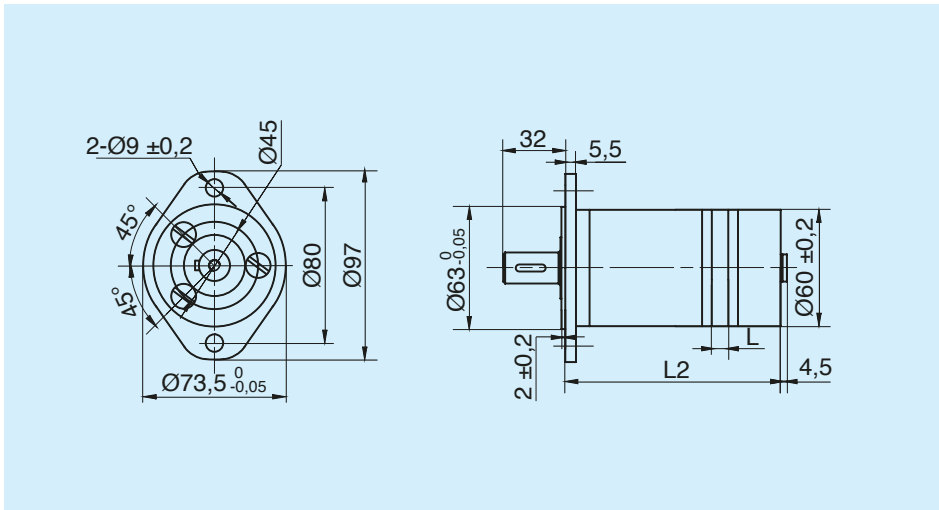
## EU lateral ports



Type	L mm	L1 mm
08	3.5	106
12	5.5	108
20	8.5	111
32	13.5	116
40	17	119.5
50	21.5	124

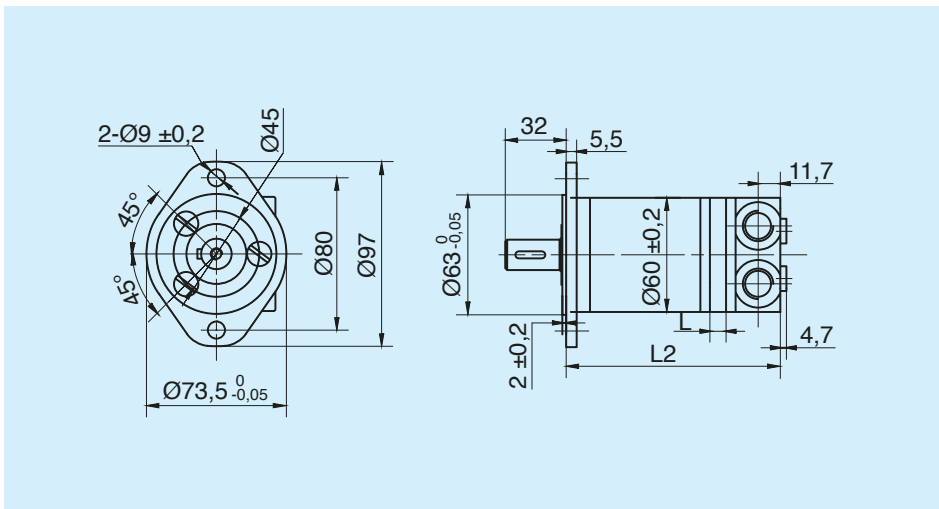
The flanges come with anti-corrosion treatment as standard.

## Rear ports with flange



Type	L mm	L2 mm
08	3.5	107
12	5.5	109
20	8.5	112
32	13.5	117
40	17	120.5
50	21.5	125

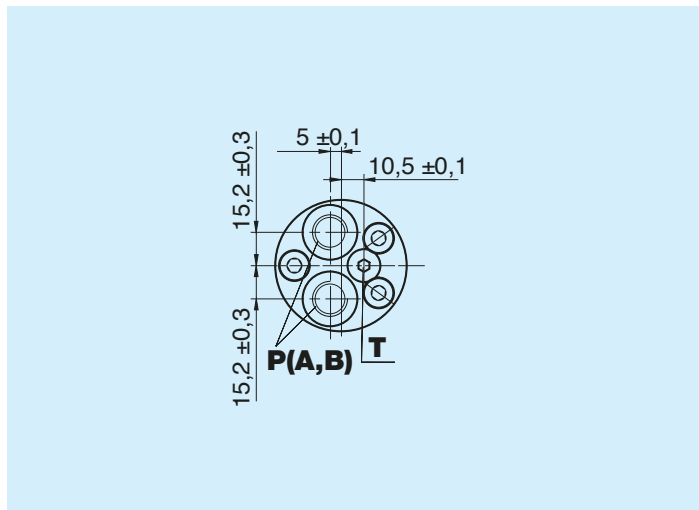
## Lateral ports with flange



Type	L mm	L2 mm
08	3.5	108.5
12	5.5	110.5
20	8.5	113.5
32	13.5	118.5
40	17	122
50	21.5	126.5

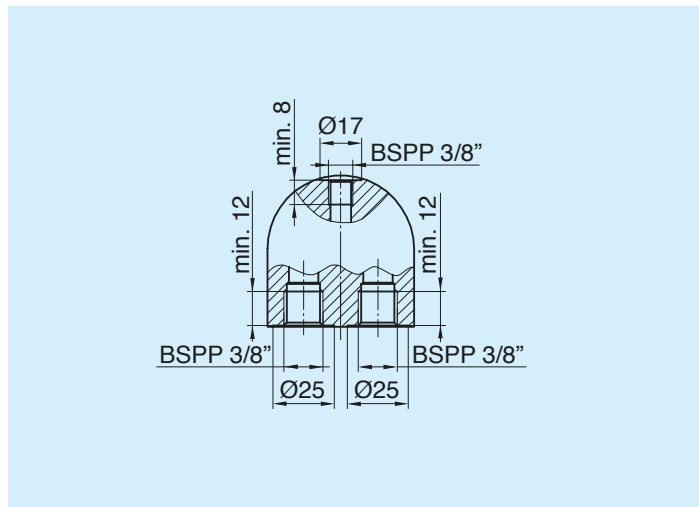
The flanges come with anti-corrosion treatment as standard.

## With rear ports



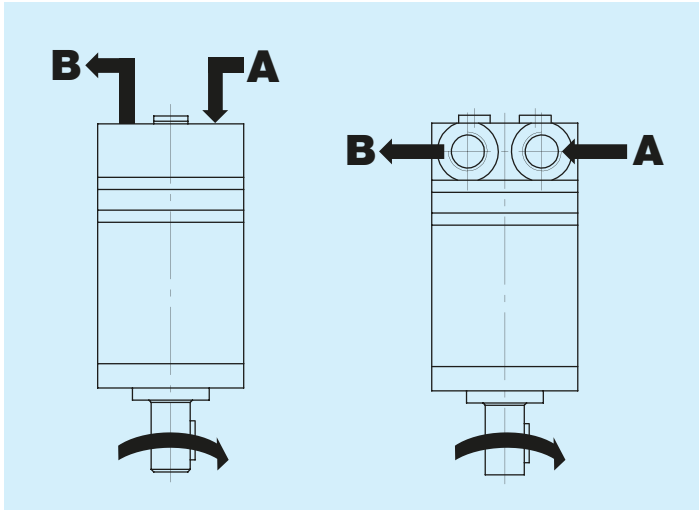
Port <b>A-B</b>	Port <b>T</b>
3/8" BSPP	1/8" BSPP

## With lateral ports



Port <b>A-B</b>	Port <b>T</b>
3/8" BSPP	1/8" BSPP

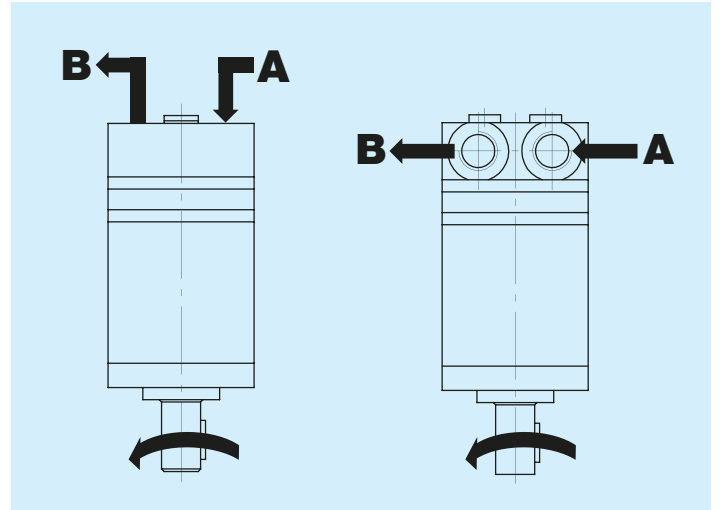
### Standard



When facing the motor shaft, rotation is:

- Clockwise, when port A is pressurised.
- Counterclockwise, when port B is pressurised.

### Reverse

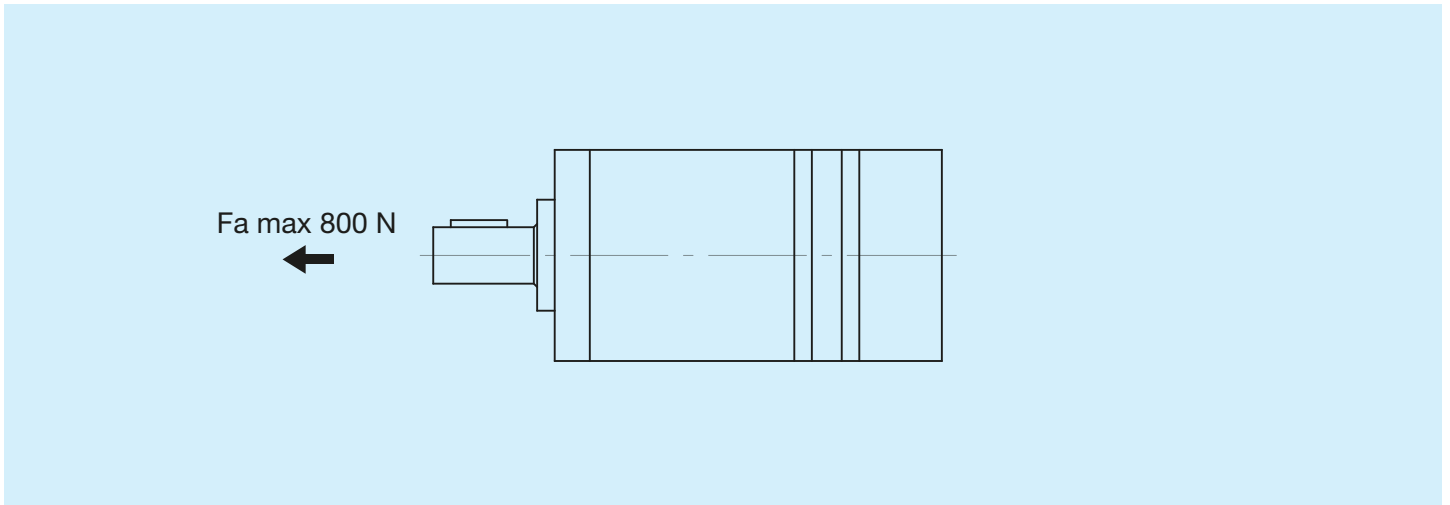


When facing the motor shaft, rotation is:

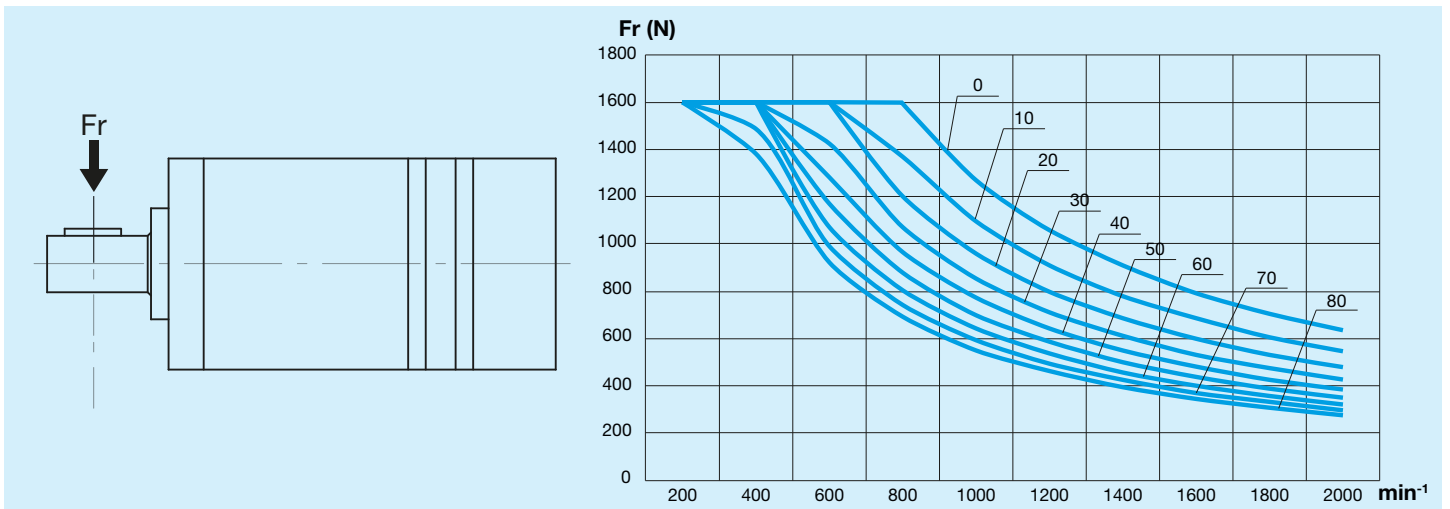
- Counterclockwise, when port A is pressurised.
- Clockwise, when port B is pressurised.



## Axial load



## Radial load





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