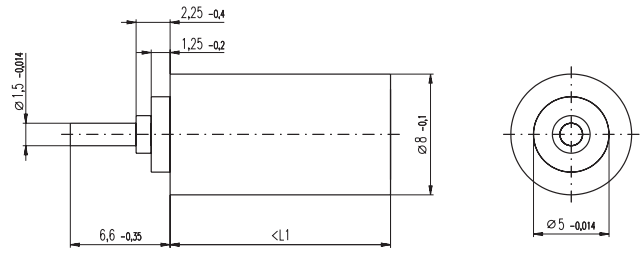
Planetary Gearhead GP 8 B ∅8 mm, 0.002 - 0.03 Nm



M 2:1

Technical Data

Planetary Gearhead	straight teeth
Output shaft	stainless steel
Bearing at output	ball bearing
Option	sleeve bearing
Radial play, 5 mm from flange	max. 0.12 mm
Axial play	0.02 - 0.10 mm
Max. radial load, 5 mm from flange	5 N
Max. permissible axial load	5 N
Max. permissible force for press fits	10 N
Sense of rotation, drive to output	=
Recommended input speed	< 40 000 rpm
Recommended temperature range	-15 ... +100°C
Extended area as option	-35 ... +100°C

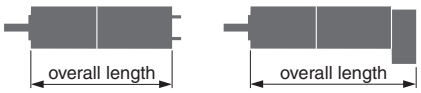
Option: sterilisable version

Stock program
Standard program
Special program (on request)

Order Number

Gearhead Data		264054	264055	264056	264057	264058
1 Reduction		3.9 : 1	15 : 1	57 : 1	221 : 1	854 : 1
2 Reduction absolute		$^{27}/_{7}$	$^{729}/_{49}$	$^{19683}/_{343}$	$^{531441}/_{2401}$	$^{14348907}/_{16807}$
3 Max. motor shaft diameter	mm	1	1	1	1	1
4 Number of stages		1	2	3	4	5
5 Max. continuous torque	Nm	0.002	0.005	0.010	0.030	0.030
6 Intermittently permissible torque at gear output	Nm	0.005	0.010	0.020	0.060	0.060
7 Max. efficiency	%	88	77	68	60	52
8 Weight	g	1.8	2.2	2.6	3.0	3.4
9 Average backlash no load	°	1.8	2.0	2.2	2.5	2.8
10 Mass inertia	gcm²	0.0008	0.001	0.001	0.001	0.001
11 Gearhead length L1*	mm	9.5	12.0	14.6	17.2	19.8

*L1 - 1.5 mm for calculating the overall length



Combination

+ Motor	Page	+ Tacho / Brake	Page	Overall length [mm] = Motor length + gearhead length + (tacho / brake) + assembly parts				
RE 8, 0.5 W	51			25.1	27.6	30.2	32.8	35.4
RE 8, 0.5 W	51	MR	253	31.7	34.2	36.8	39.4	42.0