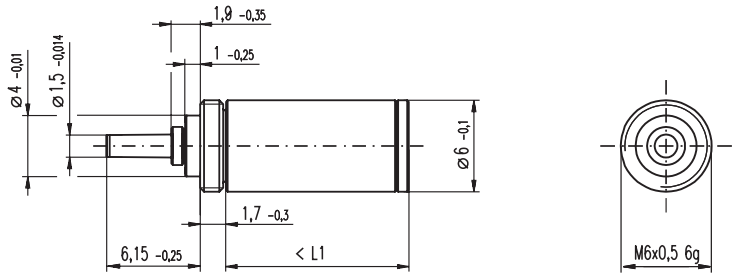
Planetary Gearhead GP 6 ∅6 mm, 0.002 - 0.03 Nm



M 2:1

Technical Data

Planetary Gearhead	straight teeth
Output shaft	stainless steel
Bearing at output	ball 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

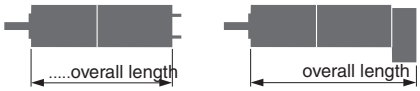
*Options: Sleeve bearings

Stock program
Standard program
Special program (on request!)

Order Number

Gearhead Data (provisional)

			199687	199688	199689	199690	199691
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	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	7.0	9.5	12.1	14.7	17.3



Combination

+ Motor	Page	+ Tacho / Encoder / Brake	Page	Overall length [mm] = Motor length + gearhead length + (tacho / encoder / brake) + assembly parts				
EC 6, 1.2 W	150			28.1	30.6	33.2	35.8	38.4