

Technical drawing of a 100mm stroke pneumatic cylinder. The drawing includes a perspective view of the cylinder and a detailed cross-sectional view with dimensions.

Dimensions:

- Total length: 56 MAX
- Stroke: $L \pm 0.5$
- Bore diameter: $\varnothing 6_{-0.01}$
- Rod diameter: $\varnothing 8_{-0.022}$
- Flange diameter: $\varnothing 12$
- Flange mounting holes: 4- $\varnothing 2.3$
- Other dimensions: 15, 0.6, 0.3, 3.1, 2.7, 3.5, 3.2, $\varnothing 10 \pm 0.1$, $M8 \times 0.75$, $\varnothing 4$.

Screw(Diameter*Lead)	Tr4*2, SUS304	Radial play (5mm from flange)	< 0.1mm						
Standard length	56mm	Axial play	preloaded						
Special length (5mm steps)	Max.120mm	Max.countinuous input speed	8000rpm						
Nut (standard)	thread nut	Recommended Temperature Range	-15°C ~ +80°C						
Material	copper	Max.axial load(static)	50N						
Axial play	<0.13mm	Number of stages	0	1	2	3	4	5	
Planetary	straight teeth	Max. radial load: (5mm from flange)	10N	10N	15N	17N	17N	17N	
Bearing	ball bearing/thrust ball bearing								

Reduction	1:1	4:1	16:1	64:1	256:1	1024:1		
Absolute reduction	1/1	4/1	16/1	64/1	256/1	1024/1		
Max.feed velocity (mm/s)	100	66.7	16.6	4.1	1.0	0.26		
Max.feed force (continous) (N)	5	8	12	20	32	50		
Max.feed force (intermittent) (N)	10	16	24	40	50	50		
Max. Gear Hole "A"	1.5	1.5	1.5	1.5	1.5	1.5		

Number of stages	0	1	2	3	4	5		
Max. efficiency gearhead incl. screw (%)	45.6	41	36.9	33.2	29.9	26.9		
Weight (g)	35	35	40	45	50	55		
Average backlash no load (°)	1.28	1.38	1.58	1.68	1.68	1.68		
Mechanical positioning accuracy (mm)	0.166	0.167	0.168	0.171	0.171	0.171		
Mass inertia gearhead incl. screw (g.cm²)	0.28	0.05	0.01	0.01	0.01	0.01		
Gearhead length L1 (mm)	25	25	28.2	31.4	34.6	37.8		

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