



## Metric table

Dimensions in: millimeters - inches

Ø Linear actuator	Fx	Fy for length l =			Fz for length l =			Mx in Nm	My in Nm	Mz in Nm
		500	1000	1500	500	1000	1500			
18 0.71	400 N 89.92 lbf	80 N 17.98 lbf	-	-	65 N 14.61 lbf	-	-	1.5	4.5	4.5
30 1.18	850 N 191 lbf	500 N 112 lbf	70 N 15.74 lbf	15 N 3.37 lbf	550 N 124 lbf	55 N 12.36 lbf	10 N 2.25 lbf	6.5	15	15
40 1.57	1100 N 247 lbf	2150 N 483 lbf	250 N 56.20 lbf	65 N 14.61 lbf	1900 N 427 lbf	150 N 33.72 lbf	50 N 11.24 lbf	15	42	42
50 1.97	1750 N 393 lbf	3100 N 697 lbf	650 N 146 lbf	150 N 33.72 lbf	3100 N 697 lbf	650 N 146 lbf	150 N 33.72 lbf	29	69	69
60 2.36	2600 N 585 lbf	4550 N 1023 lbf	1500 N 337 lbf	400 N 89.92 lbf	4550 N 1023 lbf	1400 N 315 lbf	350 N 78.68 lbf	45	125	125

The load data apply to GN 291, GN 292, GN 293 linear actuators made of steel (SCR) or stainless steel (NI).  
The specified forces Fy and Fz cause a flexure of the guide tube of approx. 0.5 mm.

## Description

A lead nut moves in axial direction over the ball bearing trapezoidal thread spindle of the linear actuators. The drive key ensures the anti-rotation and provides the connection to the different linear actuator connectors. The linear actuators are designed for manual operation (handwheel).

The positioning accuracy is 0.2 mm / 300 mm stroke, the backlash is max. 0.1 mm.

Guide tubes are available in chrome plated steel (SCR) or stainless steel (NI). They are manufactured with the tolerance range of DIN 2391 or DIN 2462 precision steel tubes.

A wide variety of different components are available in the connector clamp range to mount the linear actuators in place and to upgrade them to linear actuator connectors.

Also, digital position indicators (EN 953 / EN 954 / EN 9053 / EN 9054 → page 372 / 374 / 378 / 380) may be attached to measure the movement or the position.

For applications where high torsional moments Mx occur, linear actuators with square tube or double tube linear actuators should be given preference.

Also for square tubes there is a wide variety of different components available from the connector clamp range. The linear actuator connectors are composed of two-part elements, with the effect that the precision of the square tubes involves no special requirements.