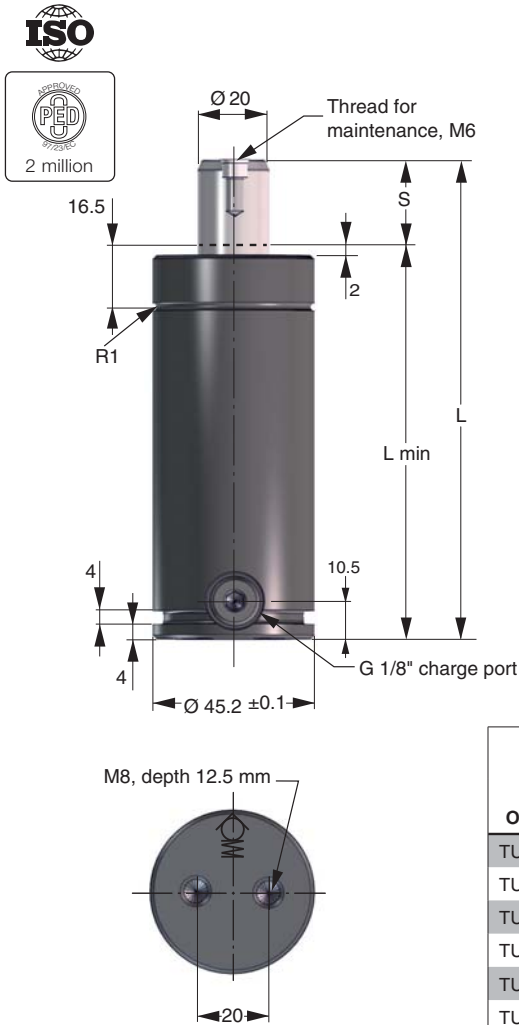


TU 500



The TU line constitutes our standard line of gas springs. Sizes 250 to 10000 conform to the ISO 11901 gas spring standard.

The TU 500 has a total length of 85 mm + (2 × stroke).

Order No.	S stroke	Force in N at 150 bar/+20°C		Force in lbf at 150 bar/+20°C		L ±0.25	L min.	Gas vol. (l)	Weight (kg)	ISO
		Initial	End force*	Initial	End force*					
TU 500-010	10	4,700	6,000	1,055	1,350	105	95	0.023	0.93	
TU 500-013	** 12.7		6,100		1,370	110.4	97.7	0.025	0.95	
TU 500-025	** 25		6,400		1,440	135	110	0.038	1.04	✓
TU 500-038	** 38.1		6,500		1,460	161.2	123.1	0.051	1.13	
TU 500-050	** 50		6,600		1,480	185	135	0.063	1.21	✓
TU 500-064	** 63.5		6,600		1,480	212	148.5	0.077	1.31	
TU 500-080	** 80		6,700		1,510	245	165	0.093	1.43	✓
TU 500-100	** 100		6,700		1,510	285	185	0.114	1.57	
TU 500-125	** 125		6,700		1,510	335	210	0.139	1.74	
TU 500-160	** 160		6,700		1,510	405	245	0.175	1.99	

* = at full stroke

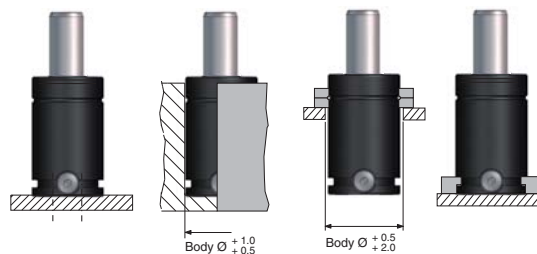
** Recommended stroke length for optimal delivery

Basic Information

For general information see "About gas springs", 2.1
 Pressure medium Nitrogen
 Max. charging pressure 150 bar
 Min. charging pressure 25 bar
 Operating temperature 0 to +80°C
 Force increase by temperature ±0.3%/°C
 Recommended max strokes/min ... ~ 40-80 (at 20°C)
 Max piston rod velocity 1.6 m/s

Rod surface..... Nitrided
 Tube surface Black oxide
 Repair kit 2013691-0500

Mounting Possibilities



Base mount
B, MP

Drop-in

Top mount
FC, FCS

Foot mount
K, FFC

Note! For dimensions on mounting possibility K-500 refer to Chapter 3.