






## READY DESIGN-TITE® PE Series Performance Line Nitrogen Gas (N<sub>2</sub>) Springs

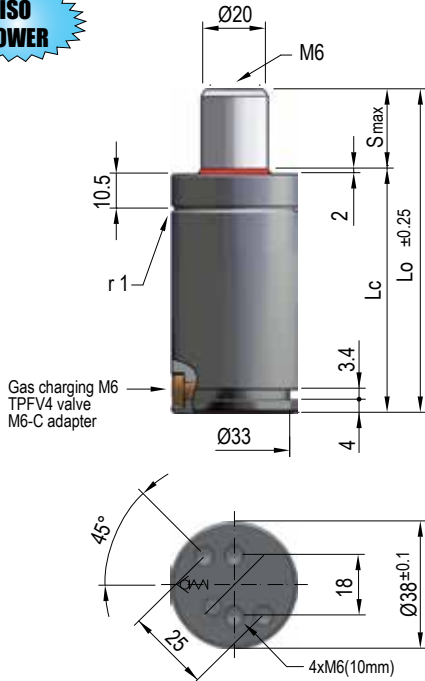
The PE Series provides greater force in a smaller body than the SE and LE Series gas springs.

Body Diameter: 38mm to 50mm  
Open Force: 1050 lbs to 2250 lbs  
Closed Force: 1450 lbs to 4100 lbs



MODEL	ØBody mm	Strokes mm	 Fo daN		 ACTIVE SAFETY			ISO STANDARD
PE-500	38	10 - 125	470	✓	✓	✓	✓	
PE-750	45	13 - 125	740	✓	✓	✓	✓	
PE-1000	50	13 - 300	920	✓	✓	✓	✓	✓

ISO POWER

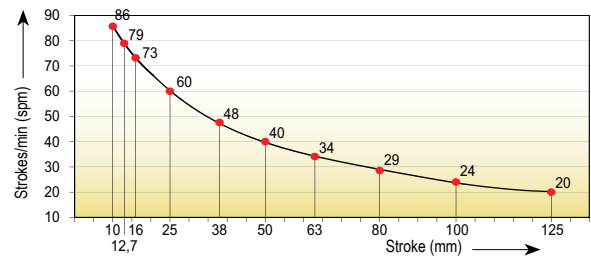


Pressure medium	Gas Nitrogen (N <sub>2</sub> )
Max. charging pressure	150 Bar
Min. charging pressure	35 Bar
Rod seal area	3,14 cm <sup>2</sup>
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit SP500.1

PED  
2014/68/UE

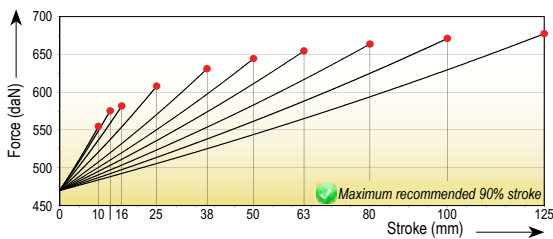


Maximum strokes / minute (at 20°C)

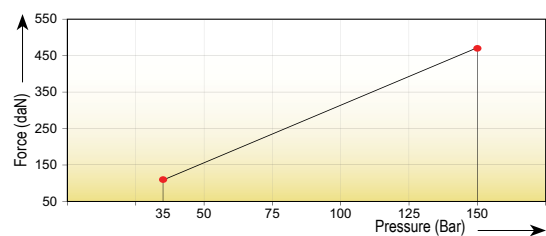


MODEL	S <sub>max</sub> mm	L <sub>o</sub> mm	L <sub>c</sub> mm	F <sub>o</sub> daN	90% F daN	100% F <sub>c</sub> daN	P Bar	V l	Kg
PE-500x10	10	70	60	470 ±5% (20°C)	545	555	150 (20°C)	0,021	0,43
PE-500x13	12,7	75,4	62,7		565	575		0,022	0,44
PE-500x16	16	82	66		570	585		0,026	0,46
PE-500x25	25	100	75		590	610		0,035	0,51
PE-500x38	38	126	88		610	635		0,047	0,59
PE-500x50	50	150	100		625	645		0,058	0,66
PE-500x63	63	177	114		630	655		0,070	0,73
PE-500x80	80	210	130		640	665		0,086	0,83
PE-500x100	100	250	150		645	675		0,105	0,96
PE-500x125	125	300	175		650	680		0,128	1,05

Force/stroke ratio



Initial force/charging pressure ratio

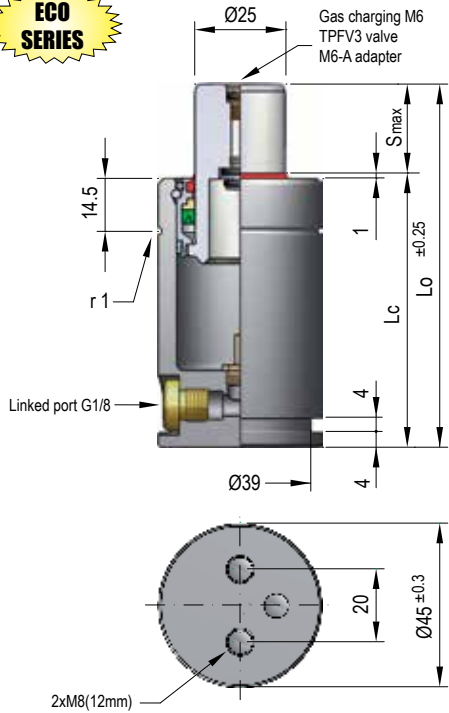


Assembly possibilities



Product improvement through research and development is an ongoing process. All specifications are subject to change without notice.

**ECO SERIES**

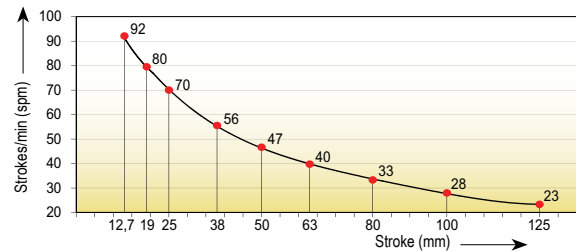


Pressure medium	<b>Gas Nitrogen (N<sub>2</sub>)</b>
Max. charging pressure	<b>150 Bar</b>
Min. charging pressure	<b>35 Bar</b>
Rod seal area	<b>4,91 cm<sup>2</sup></b>
Operating temperature	<b>0°C - 80°C</b>
Force increase by temperature	<b>0,33 %/°C</b>
Max. stem speed	<b>1,6 m/s</b>
Maintenance kit	<b>Kit KS750</b>

PED  
2014/68/UE

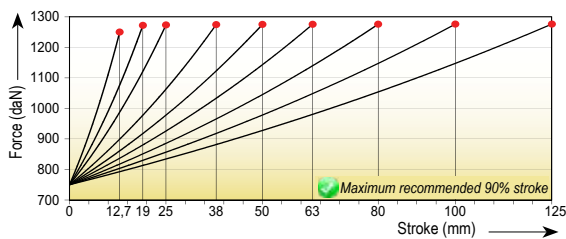


Maximum strokes / minute (at 20°C)

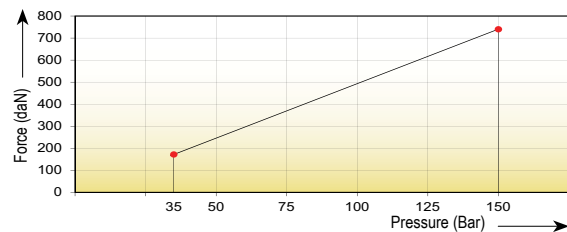


MODEL	Smax mm	Lo mm	Lc mm	Fo daN	90% F daN	100% Fc daN	P Bar	V l	Kg
PE-750x13	12,7	75,4	62,7	740 ±5% (20°C)	1150	1225	150 (20°C)	0,016	0,60
PE-750x19	19	88	69		1170	1250		0,023	0,65
PE-750x25	25	100	75		1170	1250		0,030	0,70
PE-750x38	38	126	88		1170	1250		0,045	0,80
PE-750x50	50	150	100		1170	1250		0,060	0,88
PE-750x63	63	177	114		1170	1255		0,075	0,98
PE-750x80	80	210	130		1170	1255		0,095	1,10
PE-750x100	100	250	150		1170	1255		0,119	1,24
PE-750x125	125	300	175		1170	1255		0,149	1,37

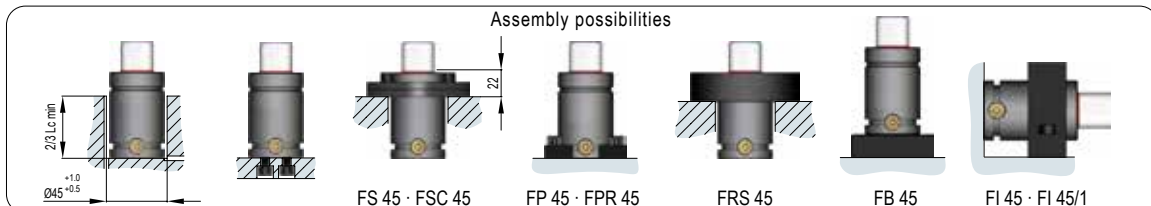
Force/stroke ratio



Initial force/charging pressure ratio

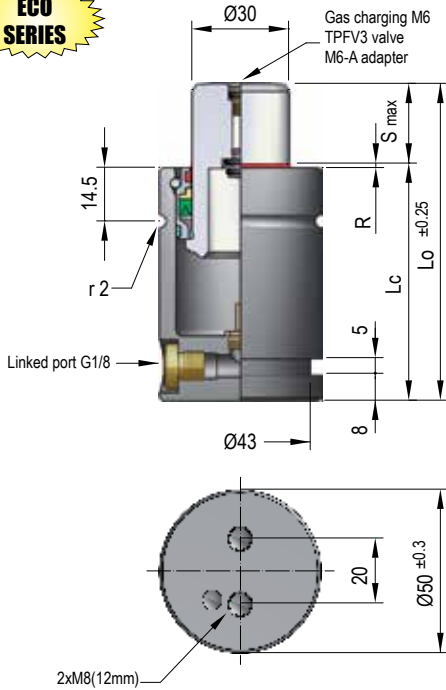


Assembly possibilities



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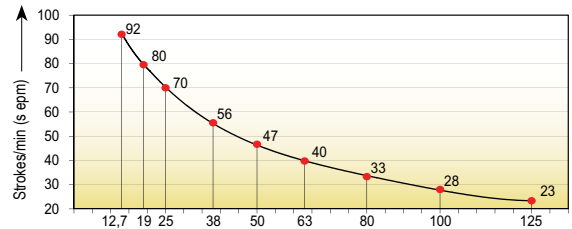
**ECO SERIES**



Pressure medium	<b>Gas Nitrogen (N<sub>2</sub>)</b>
Max. charging pressure	<b>150 Bar</b>
Min. charging pressure	<b>35 Bar</b>
Rod seal area	<b>7,07 cm<sup>2</sup></b>
Operating temperature	<b>0°C - 80°C</b>
Force increase by temperature	<b>0,33 %/°C</b>
Max. stem speed	<b>1,2 m/s</b>
Maintenance kit	<b>Kit KS1000</b>

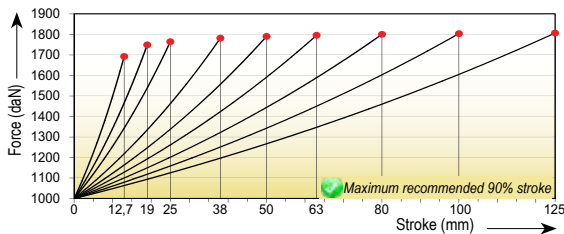


**Maximum strokes / minute (at 20°C)**

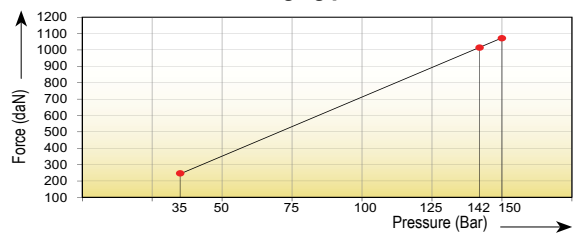


MODEL	Smax mm	Lo mm	Lc mm	R mm	Fo daN	90% F daN	100% Fc daN	P Bar	V l	Kg
PE-1000x13	12,7	75,4	62,7	1	1000 ±5% (20°C)	1590	1700	142 (20°C)	0,022	0,59
PE-1000x19	19	88	69	1		1635	1755		0,031	0,62
PE-1000x25	25	100	75	1		1645	1770		0,041	0,69
PE-1000x38	38	126	88	1		1660	1790		0,061	0,81
PE-1000x50	50	150	100	1		1665	1795		0,080	0,91
PE-1000x63	63	177	114	1		1670	1805		0,101	1,05
PE-1000x80	80	210	130	1		1675	1805		0,127	1,20
PE-1000x100	100	250	150	1		1675	1810		0,159	1,41
PE-1000x125	125	300	175	3		1680	1815		0,198	1,55

**Force/stroke ratio**



**Initial force/charging pressure ratio**



**Assembly possibilities**

