






READY DESIGN-TITE® CE Series Sub-Compact Nitrogen Gas (N₂) Springs

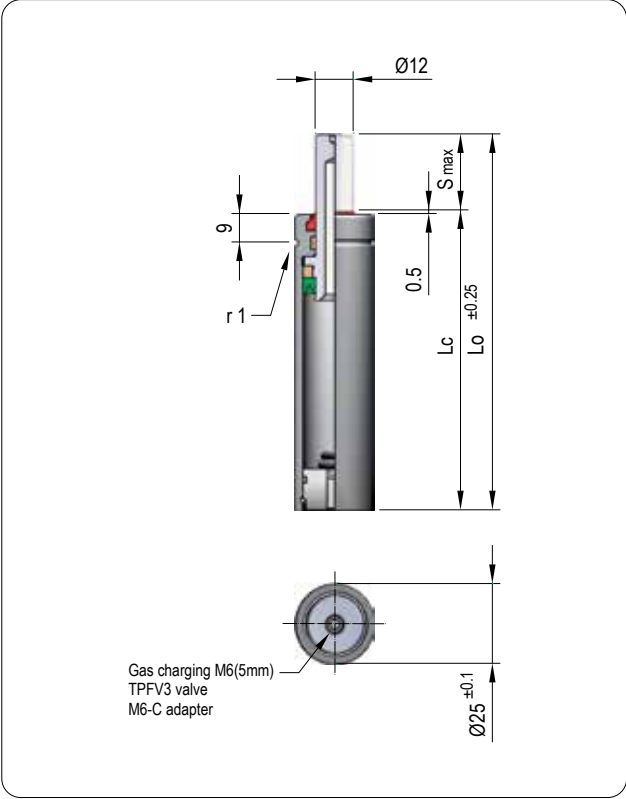
Every Sub Compact gas spring combines the convenience of a self-contained gas spring with the increased on-contact force and shorter body height of a bore seal cylinder.

Body Diameter: 25mm to 63mm
 Open Force: 945 lbs to 6750 lbs.
 Closed Force: 1765 lbs to 12,000 lbs.



MODEL	ØBody mm	Strokes mm	 Fo daN		 ACTIVE SAFETY		
CE-420	25	6 - 50	420	✓	✓		
CE-750	32	6 - 50	750	✓	✓		✓
CE-1000	38	6 - 50	1000	✓	✓	✓	✓
CE-1800	50	6 - 65	1800	✓	✓	✓	✓
CE-3000	63	10 - 65	3000	✓	✓	✓	✓
CE-4700	75	10 - 65	4700	✓	✓	✓	✓
CE-7500	95	10 - 50	7500	✓	✓		
CE-11800	120	10 - 50	11800	✓	✓		
CE-18300	150	10 - 50	18300	✓	✓		

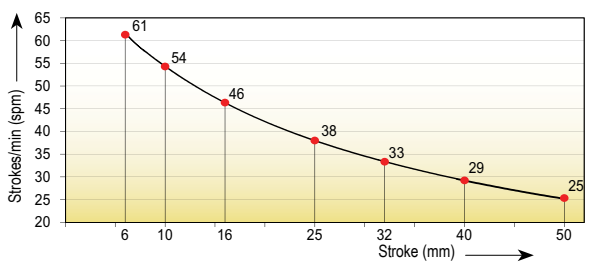
CE-420



Pressure medium	Gas Nitrogen (N₂)
Max. charging pressure	150 Bar
Min. charging pressure	50 Bar
Rod seal area	3,14 cm²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit F420

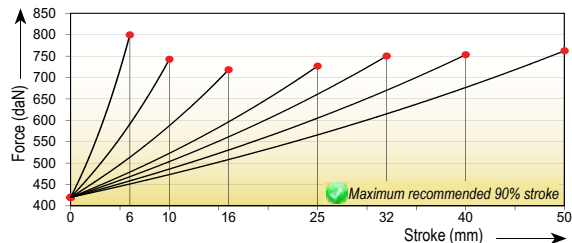


Maximum strokes / minute (at 20°C)

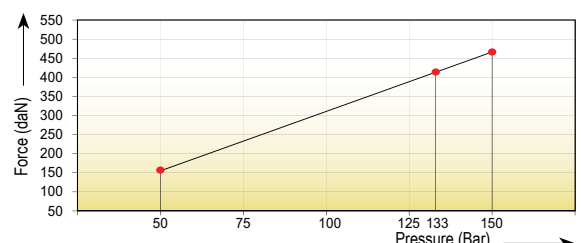


MODEL	Smax mm	Lo mm	Lc mm	Fo daN	90% F daN	100% Fc daN	P Bar	V l	Kg	Kit
CE-420x6	6	56	50	420 ±5% (20°C)	730	795	133 (20°C)	0,004	0,13	✓
CE-420x10	10	70	60		685	740		0,007	0,15	✓
CE-420x16	16	91	75		665	715		0,012	0,20	✓
CE-420x25	25	120	95		675	725		0,019	0,30	✓
CE-420x32	32	140	108		690	745		0,023	0,38	✓
CE-420x40	40	165	125		695	750		0,028	0,46	-
CE-420x50	50	195	145		700	760		0,035	0,57	-

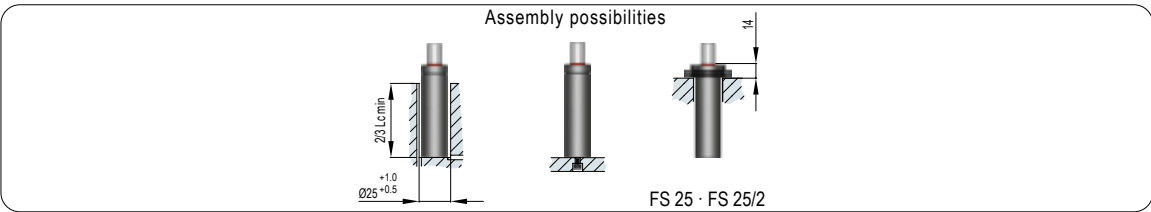
Force/stroke ratio



Initial force/charging pressure ratio

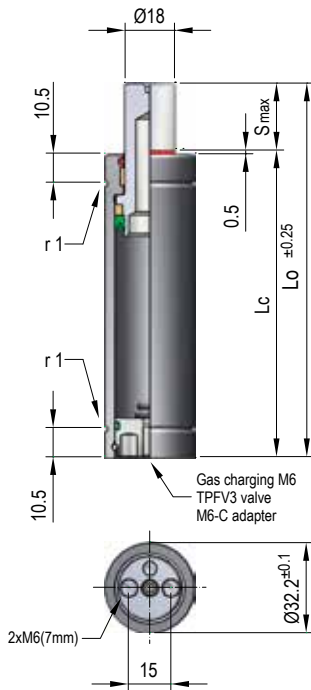


Assembly possibilities



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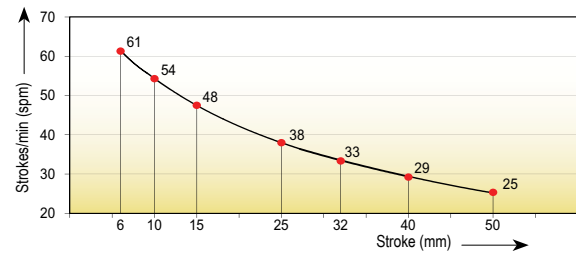
CE-750



Pressure medium	Gas Nitrogen (N ₂)
Max. charging pressure	150 Bar
Min. charging pressure	50 Bar
Piston seal area	4,91 cm ²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit F750

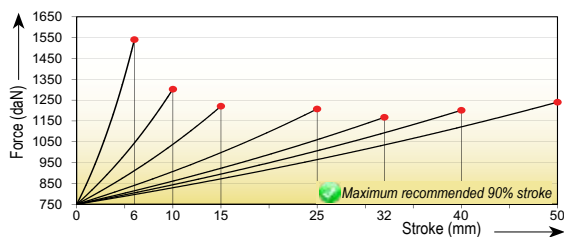


Maximum strokes / minute (at 20°C)

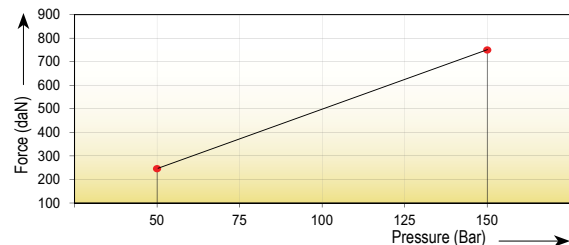


MODEL	Smax mm	Lo mm	Lc mm	Fo daN	90% F daN	100% Fc daN	P Bar	V l	Kg
CE-750x6	6	63	57	750 ±5% (20°C)	1395	1540	150 (20°C)	0,006	0,29
CE-750x10	10	80	70		1215	1306		0,012	0,35
CE-750x15	15	100	85		1150	1225		0,019	0,42
CE-750x25	25	135	110		1140	1210		0,032	0,51
CE-750x32	32	140	108		1105	1170		0,044	0,55
CE-750x40	40	165	125		1135	1205		0,052	0,61
CE-750x50	50	195	145		1165	1240		0,062	0,67

Force/stroke ratio



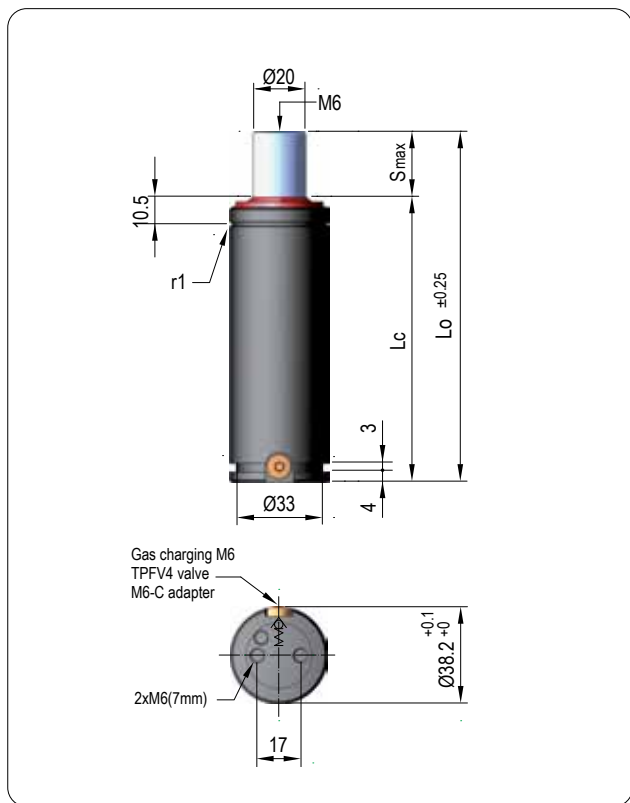
Initial force/charging pressure ratio



Assembly possibilities



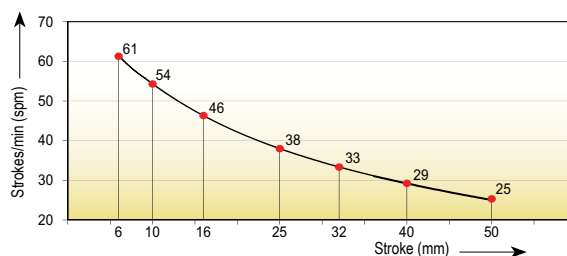
CE-1000



Pressure medium	Gas Nitrogen (N ₂)
Max. charging pressure	150 Bar
Min. charging pressure	50 Bar
Piston seal area	7,07 cm ²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit FS1000

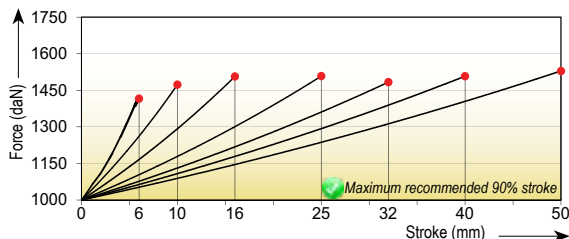


Maximum strokes / minute (at 20°C)

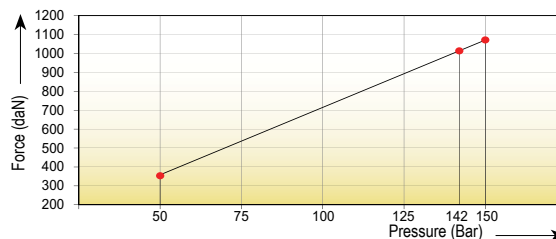


MODEL	Smax mm	Lo mm	Lc mm	Fo daN	90% F daN	100% Fc daN	P Bar	V l	Kg
CE-1000x6	6	61	55	1000 ±5% (20°C)	1320	1370	142 (20°C)	0,016	0,37
CE-1000x10	10	78	68		1375	1435		0,024	0,42
CE-1000x16	16	100	84		1410	1475		0,035	0,51
CE-1000x25	25	135	110		1420	1485		0,055	0,58
CE-1000x32	32	167	135		1395	1455		0,073	0,66
CE-1000x40	40	195	155		1415	1485		0,087	0,78
CE-1000x50	50	230	180		1435	1505		0,106	0,95

Force/stroke ratio



Initial force/charging pressure ratio



Assembly possibilities

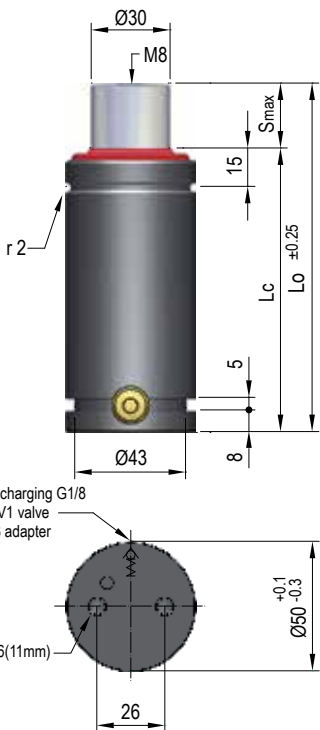


FP 38 · FPR 38

FS 32 · FSC 38

FI 38 · FI 38/1

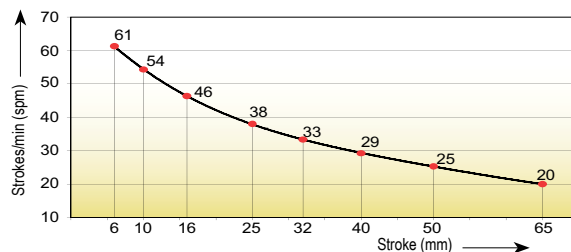
CE-1800



Pressure medium	Gas Nitrogen (N ₂)
Max. charging pressure	150 Bar
Min. charging pressure	50 Bar
Piston seal area	12,57 cm ²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit FS1800

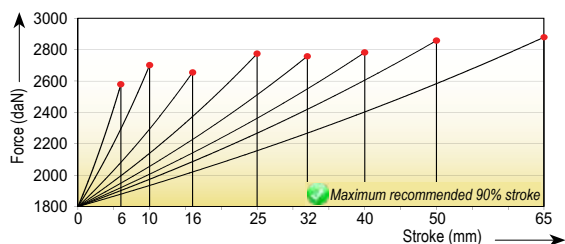


Maximum strokes / minute (at 20°C)

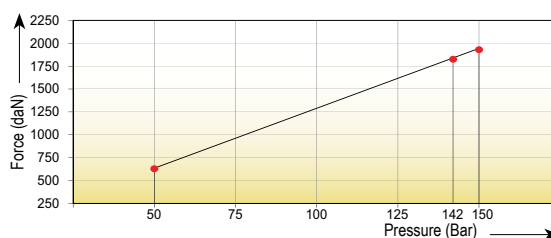


MODEL	S _{max} mm	L _o mm	L _c mm		F _o daN	90%	F daN	100%	F _c daN		P Bar	V l		Kg
CE-1800x6	6	66	60	1800 ±5% (20°C)	2450		2555		2555	142 (20°C)	0,025	0,62		
CE-1800x10	10	80	70										0,038	0,73
CE-1800x16	16	106	90										0,062	0,85
CE-1800x25	25	135	110										0,090	0,98
CE-1800x32	32	162	130										0,116	1,20
CE-1800x40	40	190	150										0,142	1,25
CE-1800x50	50	220	170										0,170	1,42
CE-1800x65	65	271	206										0,218	1,65

Force/stroke ratio

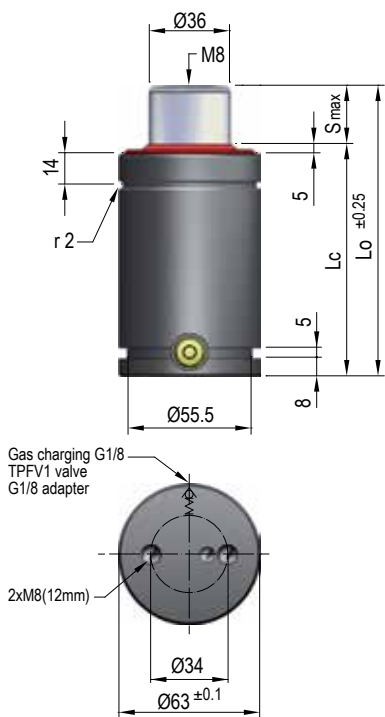


Initial force/charging pressure ratio



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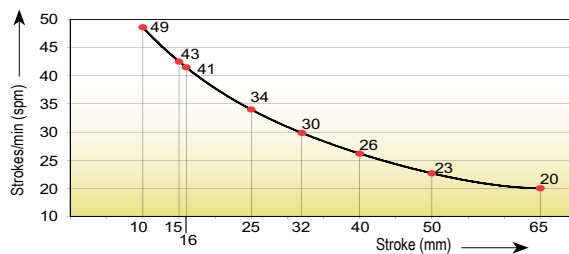
CE-3000



Pressure medium	Gas Nitrogen (N ₂)
Max. charging pressure	150 Bar
Min. charging pressure	50 Bar
Rod seal area	19,63 cm ²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit FS3000

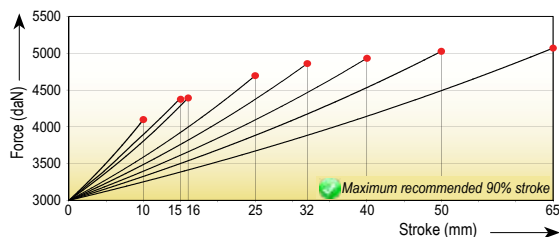


Maximum strokes / minute (at 20°C)

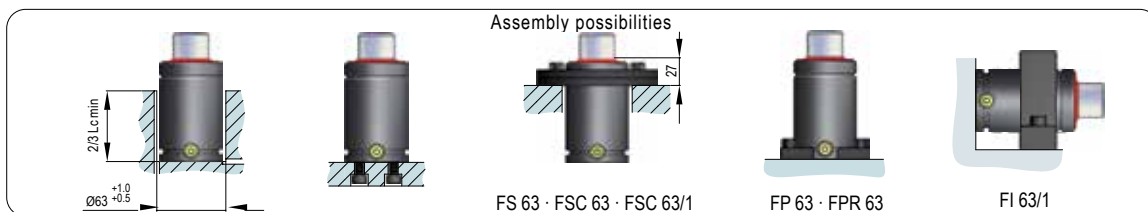
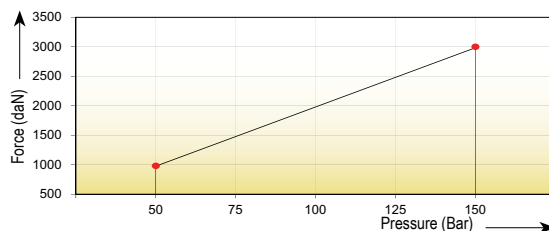


MODEL	Smax mm	Lo mm	Lc mm	Fo daN	F daN	Fc daN	P Bar	V l	Kg
CE-3000x10	10	85	75	3000 ±5% (20°C)	3960	4105	150 (20°C)	0,073	1,15
CE-3000x15	15	100	85		4160	4350		0,095	1,30
CE-3000x16	16	103	87		4205	4400		0,099	1,32
CE-3000x25	25	130	105		4450	4705		0,136	1,50
CE-3000x32	32	150	118		4585	4870		0,164	1,57
CE-3000x40	40	175	135		4640	4940		0,200	1,77
CE-3000x50	50	205	155		4715	5035		0,243	2,07
CE-3000x65	65	256	191		4750	5080		0,313	2,38

Force/stroke ratio

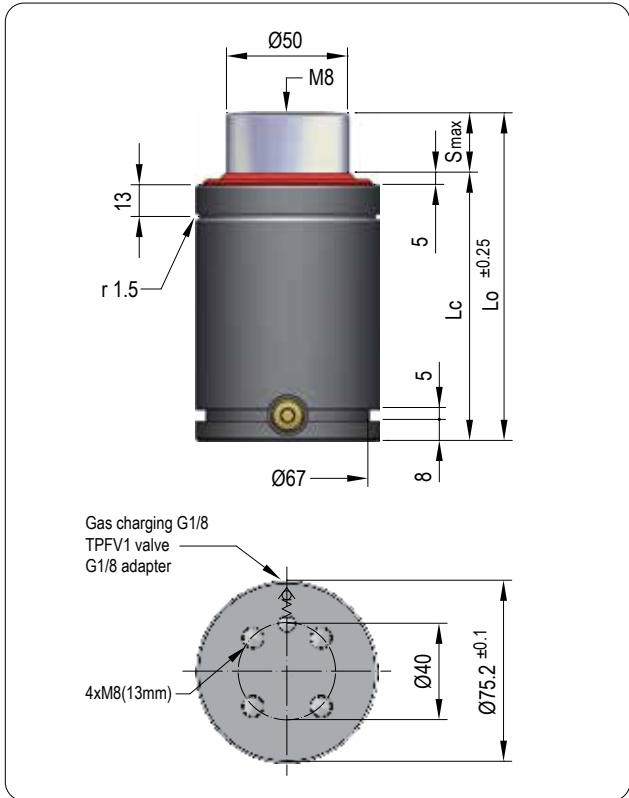


Initial force/charging pressure ratio



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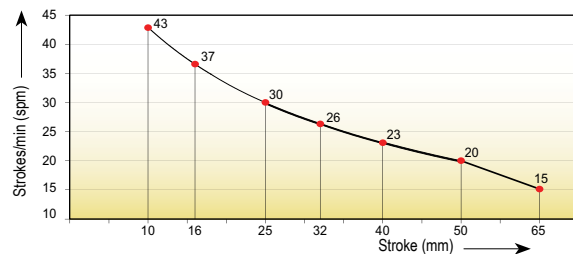
CE-4700



Pressure medium	Gas Nitrogen (N ₂)
Max. charging pressure	150 Bar
Min. charging pressure	50 Bar
Piston seal area	31,17 cm ²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit FS4700

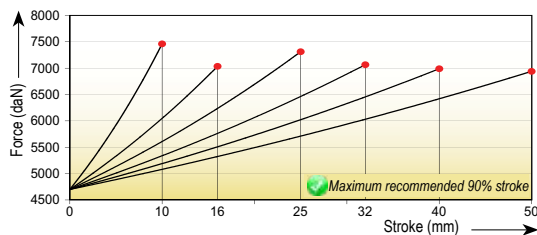


Maximum strokes / minute (at 20°C)

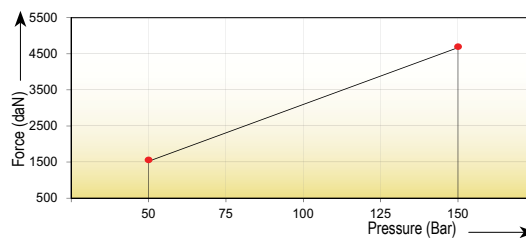


MODEL	Smax mm	Lo mm	Lc mm	Fo daN	90% F daN	100% Fc daN	P Bar	V l	Kg
CE-4700x10	10	80	70	4700 ±5% (20°C)	6770	7120	150 (20°C)	0,091	1,55
CE-4700x16	16	106	90		6550	6860		0,157	1,83
CE-4700x25	25	135	110		6770	7125		0,227	2,15
CE-4700x32	32	167	135		6585	6900		0,310	2,37
CE-4700x40	40	200	160		6540	6845		0,394	2,70
CE-4700x50	50	240	190		6525	6825		0,495	3,10
CE-4700x65	65	273	208		6905	7290		0,565	3,65

Force/stroke ratio

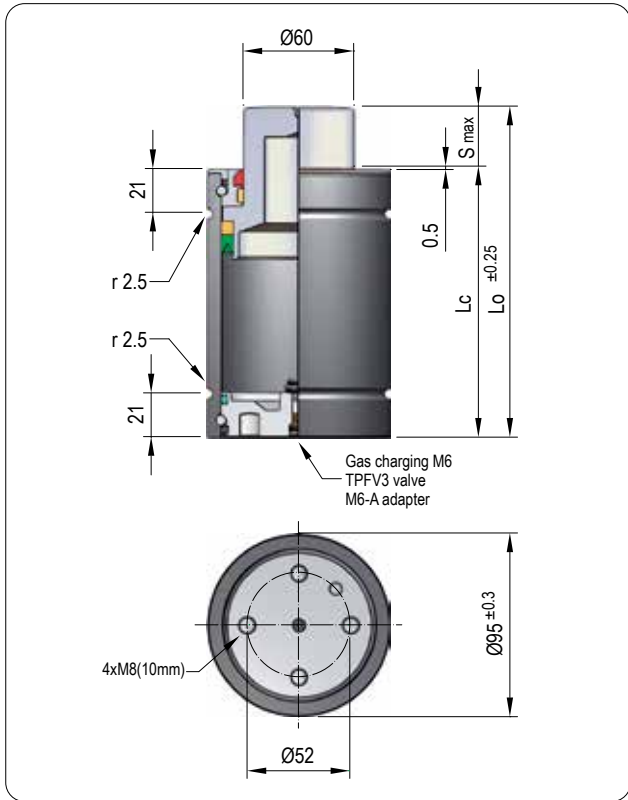


Initial force/charging pressure ratio



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CE-7500



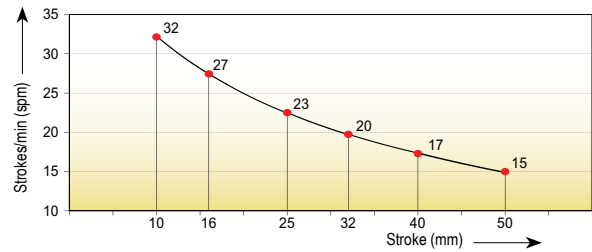
Pressure medium	Gas Nitrogen (N ₂)
Max. charging pressure	150 Bar
Min. charging pressure	50 Bar
Piston seal area	50,27 cm ²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit F7500



VDI SAFETY

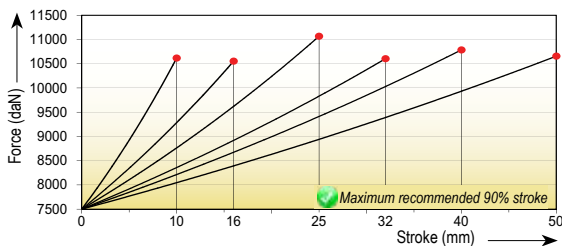


Maximum strokes / minute (at 20°C)

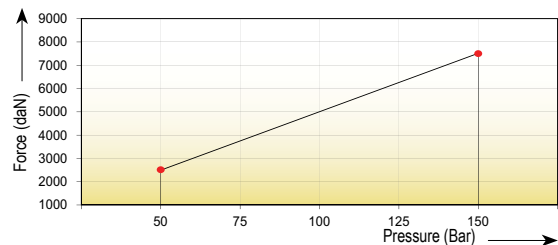


MODEL	Smax mm	Lo mm	Lc mm	Fo daN	90% F daN	100% Fc daN	P Bar	V l	Kg
CE-7500x10	10	90	80	7500 ±5% (20°C)	10245	10675	150 (20°C)	0,171	3,10
CE-7500x16	16	116	100		10195	10610		0,278	3,30
CE-7500x25	25	145	120		10620	11125		0,390	3,85
CE-7500x32	32	182	150		10235	10660		0,550	4,46
CE-7500x40	40	210	170		10390	10845		0,660	4,69
CE-7500x50	50	255	205		10280	10715		0,849	5,50

Force/stroke ratio



Initial force/charging pressure ratio

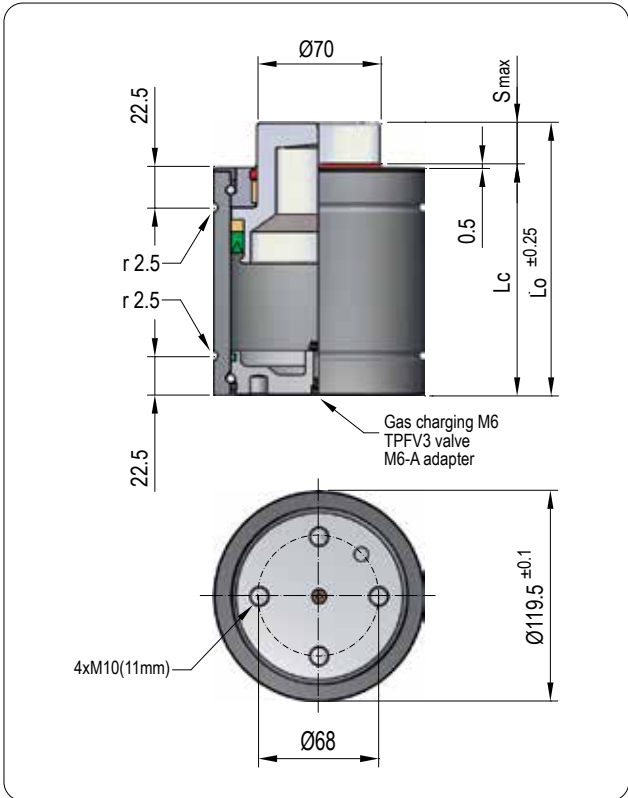


Assembly possibilities



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CE-11800



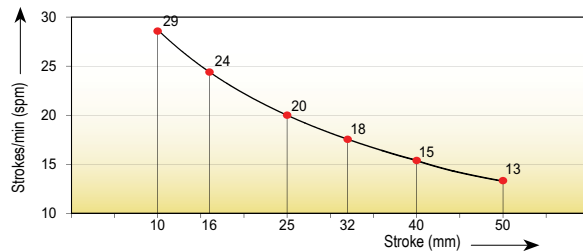
Pressure medium	Gas Nitrogen (N₂)
Max. charging pressure	150 Bar
Min. charging pressure	50 Bar
Piston seal area	78,54 cm²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit F11800



VDI SAFETY

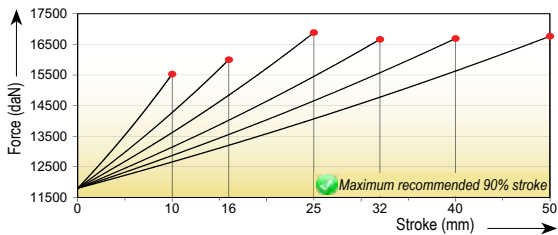


Maximum strokes / minute (at 20°C)

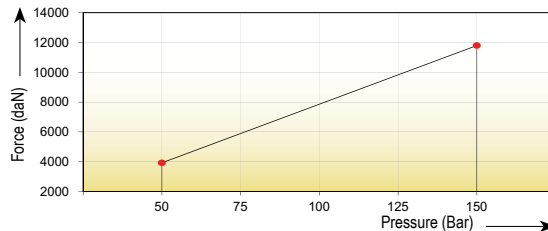


MODEL	Smax mm	Lo mm	Lc mm	Fo daN	90% F daN	100% Fc daN	P Bar	V l	Kg
CE-11800x10	10	100	90	11800 ±5% (20°C)	15030	15505	150 (20°C)	0,327	5,60
CE-11800x16	16	126	110		15425	15975		0,479	6,39
CE-11800x25	25	155	130		16160	16860		0,652	7,15
CE-11800x32	32	187	155		15980	16640		0,861	7,96
CE-11800x40	40	220	180		16005	16665		1,072	8,91
CE-11800x50	50	260	210		16065	16740		1,326	10,15

Force/stroke ratio



Initial force/charging pressure ratio

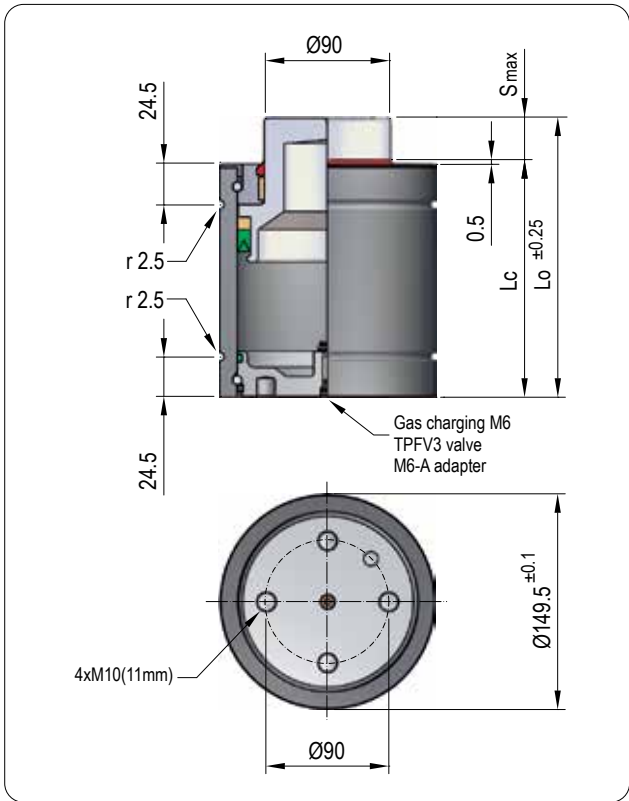


Assembly possibilities



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CE-13800



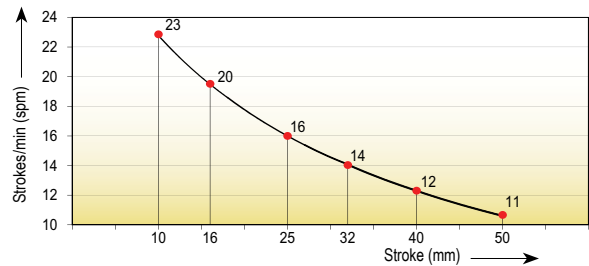
Pressure medium	Gas Nitrogen (N₂)
Max. charging pressure	150 Bar
Min. charging pressure	50 Bar
Piston seal area	122,72 cm²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit F18300



VDI SAFETY

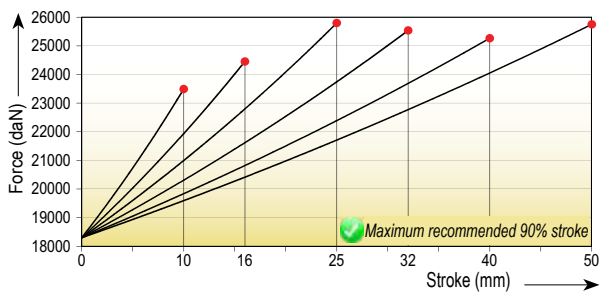


Maximum strokes / minute (at 20°C)

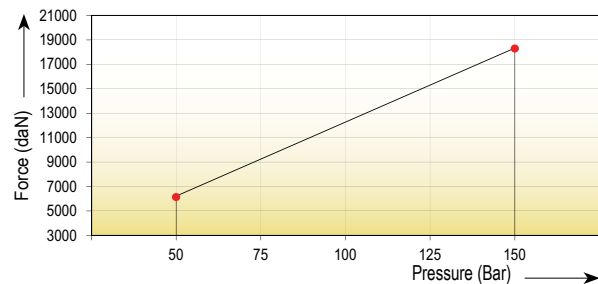


MODEL	Smax mm	Lo mm	Lc mm	Fo daN	90% F daN	100% Fc daN	P Bar	V l	Kg
CE-18300x10	10	110	100	18300 ±5% (20°C)	22980	23630	150 (20°C)	0,555	9,10
CE-18300x16	16	136	120		23800	24600		0,780	9,95
CE-18300x25	25	165	140		24930	25950		1,055	10,80
CE-18300x32	32	197	165		24710	25690		1,385	13,26
CE-18300x40	40	235	195		24485	25415		1,780	15,10
CE-18300x50	50	270	220		24890	25905		2,120	16,80

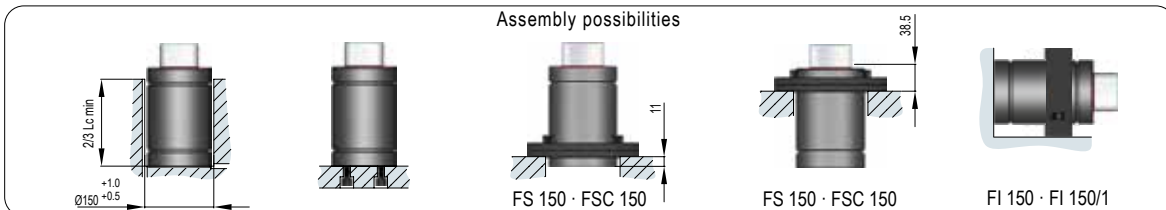
Force/stroke ratio



Initial force/charging pressure ratio



Assembly possibilities



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