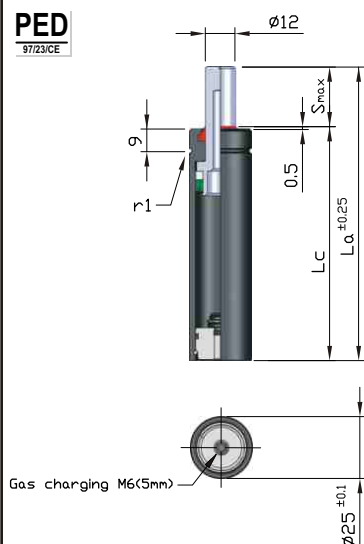


TPF 420

PED
97/23/CE



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

150 Bar

Min. charging pressure

50 Bar

Rod seal area

3,14 cm²

Max. working temperature

80°C

Force increase by temperature

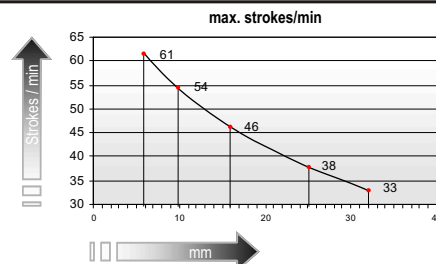
0,33% / 1°C

Max. stem speed

20 m/min

Maintenance kit

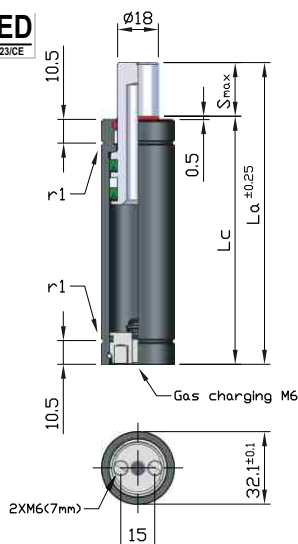
kit F420



Code	S max mm	La mm	Lc mm	Fa daN	Fc daN	P Bar	V l	kg
TPF 420x6	6	56	50	420 (±5%)	840	133	0,004	0,13
TPF 420x10	10	70	60		750		0,007	0,15
TPF 420x16	16	91	75		730		0,012	0,20
TPF 420x25	25	120	95		735		0,019	0,30
TPF 420x32	32	140	108		755		0,023	0,38

TPF 750

PED
97/23/CE



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

150 Bar

Min. charging pressure

50 Bar

Rod seal area

4,91 cm²

Max. working temperature

80°C

Force increase by temperature

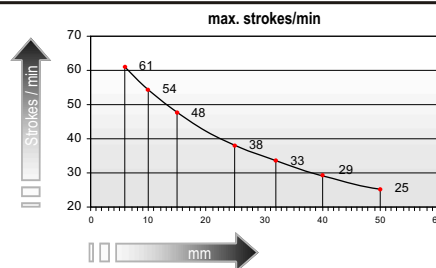
0,33% / 1°C

Max. stem speed

20 m/min

Maintenance kit

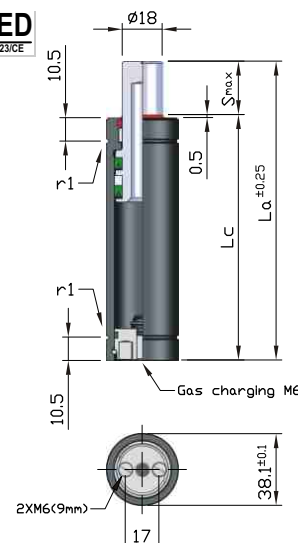
kit F750



Code	S max mm	La mm	Lc mm	Fa daN	Fc daN	P Bar	V l	kg
TPF 750x6	6	63	57	750 (±5%)	1510	150	0,006	0,29
TPF 750x10B	10	75	65		1595		0,009	0,33
TPF 750x10	10	80	70		1280		0,012	0,35
TPF 750x15B	15	93	78		1480		0,016	0,39
TPF 750x15	15	100	85		1250		0,019	0,42
TPF 750x25B	25	120	95		1445		0,025	0,48
TPF 750x25	25	135	110		1185		0,032	0,51
TPF 750x32	32	140	108		1145		0,044	0,55
TPF 750x40	40	165	125		1180		0,052	0,61
TPF 750x50	50	195	145		1220		0,062	0,67

TPF 1000

PED
97/23/CE



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

150 Bar

Min. charging pressure

50 Bar

Rod seal area

7,07 cm²

Max. working temperature

80°C

Force increase by temperature

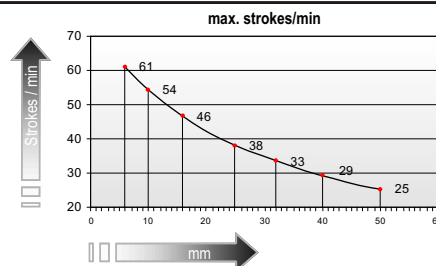
0,33% / 1°C

Max. stem speed

20 m/min

Maintenance kit

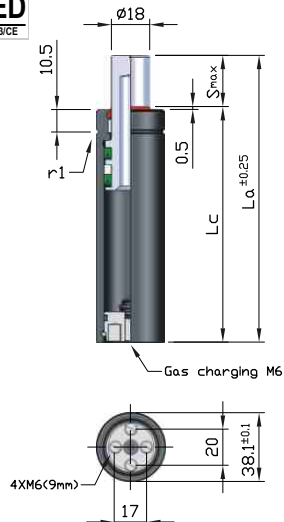
kit F1000



Code	S max mm	La mm	Lc mm	Fa daN	Fc daN	P Bar	V l	kg
TPF 1000x6	6	61	55	1000 (±5%)	1680	142	0,010	0,35
TPF 1000x10	10	78	68		1840		0,015	0,40
TPF 1000x16	16	100	84		1705		0,027	0,48
TPF 1000x25	25	135	110		1615		0,046	0,56
TPF 1000x32	32	167	135		1535		0,064	0,63
TPF 1000x40	40	195	155		1550		0,078	0,75
TPF 1000x50	50	230	180		1560		0,096	0,90

TPF 1000 B

PED
97/23/CE



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

150 Bar

Min. charging pressure

50 Bar

Rod seal area

7,07 cm²

Max. working temperature

80°C

Force increase by temperature

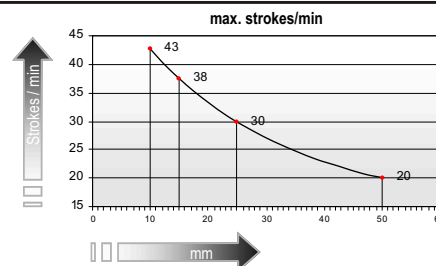
0,33% / 1°C

Max. stem speed

15 m/min

Maintenance kit

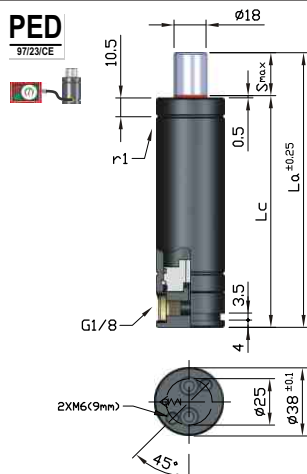
kit F1000B



Code	S max mm	La mm	Lc mm	Fa daN	Fc daN	P Bar	V l	kg
TPF 1000x10B	10	75	65	1000 (±5%)	1965	142	0,014	0,39
TPF 1000x15B	15	90	75		1915		0,022	0,45
TPF 1000x25B	25	120	95		1990		0,035	0,51
TPF 1000x50B	50	195	145		1950		0,072	0,75

TPF 1000 C

PED
97/23/CE



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

150 Bar

Min. charging pressure

50 Bar

Rod seal area

7,07 cm²

Max. working temperature

80°C

Force increase by temperature

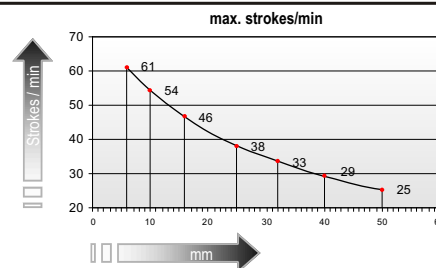
0,33% / 1°C

Max. stem speed

20 m/min

Maintenance kit

kit F1000C

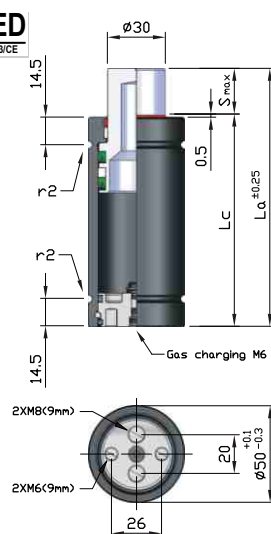


Code	S max mm	La mm	Lc mm	Fa daN	Fc daN	P Bar	V l	kg
TPF 1000x6C	6	81	75	1000 (±5%)	1700	142	0,010	0,50
TPF 1000x10C	10	98	88		1860		0,015	0,55
TPF 1000x16C	16	120	104		1725		0,027	0,63
TPF 1000x25C	25	155	130		1630		0,046	0,71
TPF 1000x32C	32	187	155		1550		0,064	0,78
TPF 1000x40C	40	215	175		1565		0,078	0,90
TPF 1000x50C	50	250	200		1580		0,096	1,05

The TPF 1000C model does not have a filling valve. It can only be pressurised through a control panel. This model is supplied without pressure.

TPF 1800

PED
97/23/CE



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

150 Bar

Min. charging pressure

50 Bar

Rod seal area

12,57 cm²

Max. working temperature

80°C

Force increase by temperature

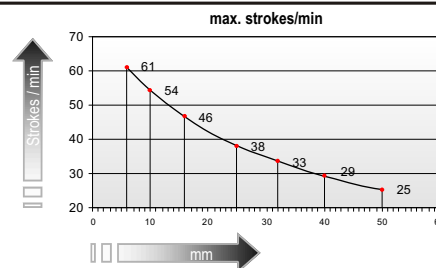
0,33% / 1°C

Max. stem speed

20 m/min

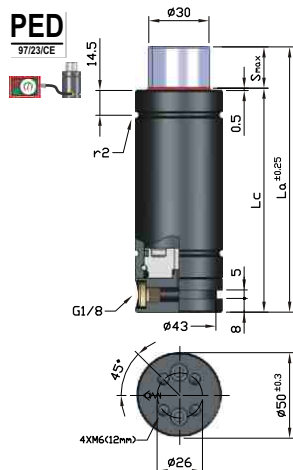
Maintenance kit

kit F1800



Code	S max mm	La mm	Lc mm	Fa daN	Fc daN	P Bar	V l	kg
TPF 1800x6	6	66	60	1800 (±5%)	2585	142	0,024	0,52
TPF 1800x10	10	80	70		2940		0,031	0,63
TPF 1800x16	16	106	90		2700		0,058	0,75
TPF 1800x25	25	135	110		2800		0,085	0,88
TPF 1800x32	32	162	130		2755		0,111	1,10
TPF 1800x40	40	190	150		2770		0,138	1,15
TPF 1800x50	50	220	170		2840		0,165	1,32

TPF 1800 C



The TPF 1800C model does not have a filling valve. It can only be pressurised through a control panel. This model is supplied without pressure.

Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

150 Bar

Min. charging pressure

50 Bar

Rod seal area

12,57 cm²

Max. working temperature

80°C

Force increase by temperature

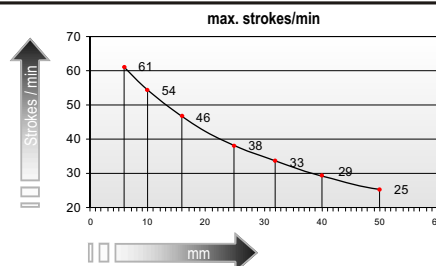
0,33% / 1°C

Max. stem speed

20 m/min

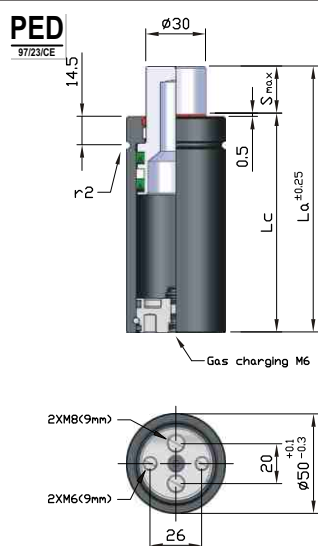
Maintenance kit

kit F1800C



Code	S max mm	La mm	Lc mm	Fa daN	Fc daN	P Bar	V	Kg
TPF 1800x6C	6	86	80	1800 (±5%)	2585	142	0,024	0,72
TPF 1800x10C	10	100	90		2940		0,031	0,83
TPF 1800x16C	16	126	110		2700		0,058	0,95
TPF 1800x25C	25	155	130		2800		0,085	1,08
TPF 1800x32C	32	182	150		2755		0,111	1,30
TPF 1800x40C	40	210	170		2770		0,138	1,35
TPF 1800x50C	50	240	190		2840		0,165	1,52

TPF 2000



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

155 Bar

Min. charging pressure

50 Bar

Rod seal area

12,57 cm²

Max. working temperature

80°C

Force increase by temperature

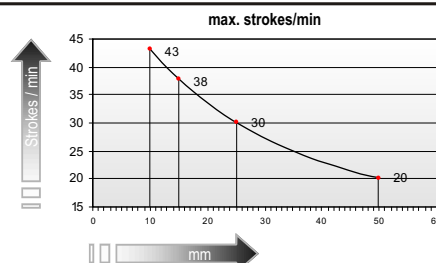
0,33% / 1°C

Max. stem speed

15 m/min

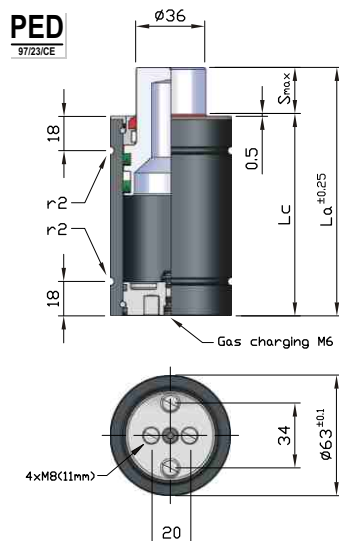
Maintenance kit

kit F2000



Code	S max mm	La mm	Lc mm	Fa daN	Fc daN	P Bar	V	Kg
TPF 2000x10	10	80	70	2000 (±5%)	3255	155	0,031	0,63
TPF 2000x15	15	95	80		3280		0,046	0,70
TPF 2000x25	25	125	100		3450		0,072	0,81
TPF 2000x50	50	200	150		3560		0,139	1,05

TPF 3000



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

150 Bar

Min. charging pressure

50 Bar

Rod seal area

19,63 cm²

Max. working temperature

80°C

Force increase by temperature

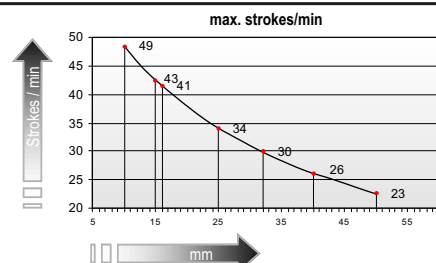
0,33% / 1°C

Max. stem speed

20 m/min

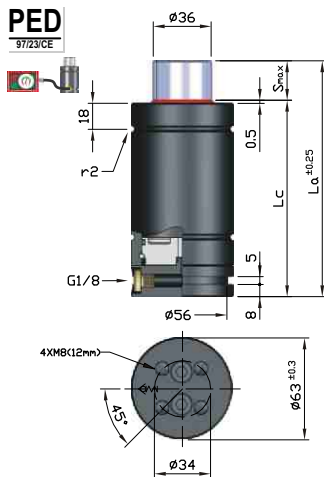
Maintenance kit

kit F3000



Code	S max mm	La mm	Lc mm	Fa daN	Fc daN	P Bar	V	Kg
TPF 3000x10	10	85	75	3000 (±5%)	4495	150	0,057	1,25
TPF 3000x15	15	100	85		4730		0,078	1,38
TPF 3000x16	16	103	87		4775		0,082	1,42
TPF 3000x25	25	130	105		4970		0,121	1,60
TPF 3000x32	32	150	118		5170		0,146	1,67
TPF 3000x40	40	175	135		5240		0,179	1,87
TPF 3000x50	50	205	155		5200		0,227	2,17

TPF 3000 C



The TPF 3000C model does not have a filling valve. It can only be pressurised through a control panel. This model is supplied without pressure.

Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

150 Bar

Min. charging pressure

50 Bar

Rod seal area

19,63 cm²

Max. working temperature

80°C

Force increase by temperature

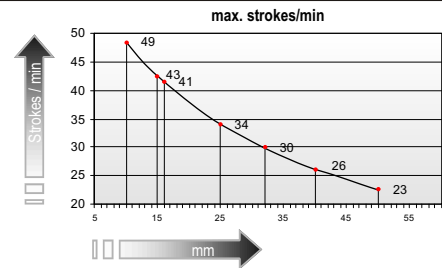
0,33% / 1°C

Max. stem speed

20 m/min

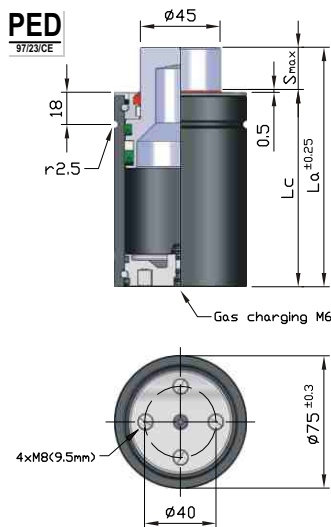
Maintenance kit

kit F3000C



Code	S max mm	La mm	Lc mm	Fa daN	Fc daN	P Bar	V l	Kg
TPF 3000x10 C	10	105	95	3000 (±5%)	4495	150	0,057	1,50
TPF 3000x15 C	15	120	105		4730		0,078	1,63
TPF 3000x16 C	16	123	107		4775		0,082	1,57
TPF 3000x25 C	25	150	125		4970		0,121	1,85
TPF 3000x32 C	32	170	138		5170		0,146	1,92
TPF 3000x40 C	40	195	155		5240		0,179	2,12
TPF 3000x50 C	50	225	175		5200		0,227	2,42

TPF 4000



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

150 Bar

Min. charging pressure

50 Bar

Rod seal area

31,17 cm²

Max. working temperature

80°C

Force increase by temperature

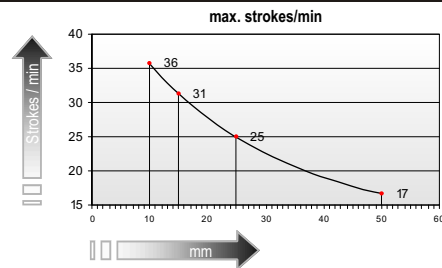
0,33% / 1°C

Max. stem speed

20 m/min

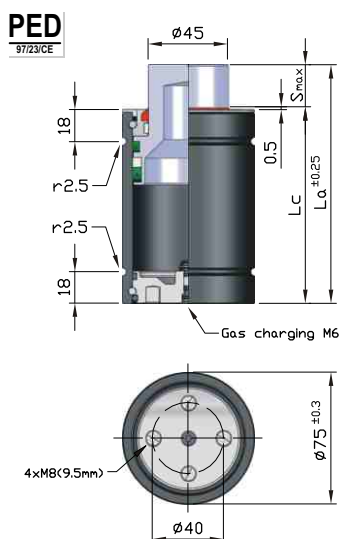
Maintenance kit

kit F4000



Code	S max mm	La mm	Lc mm	Fa daN	Fc daN	P Bar	V l	Kg
TPF 4000x10	10	85	75	4000 (±5%)	5810	128	0,099	1,55
TPF 4000x15	15	100	85		6210		0,131	1,69
TPF 4000x25	25	130	105		6635		0,196	2,02
TPF 4000x50	50	205	155		6895		0,370	2,75

TPF 4700



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

150 Bar

Min. charging pressure

50 Bar

Rod seal area

31,17 cm²

Max. working temperature

80°C

Force increase by temperature

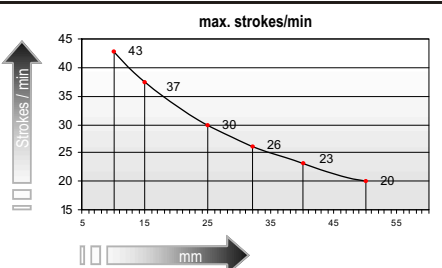
0,33% / 1°C

Max. stem speed

20 m/min

Maintenance kit

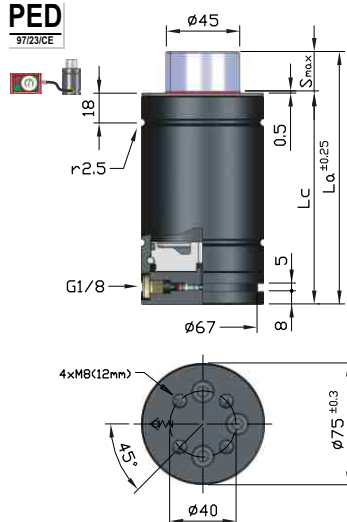
kit F4700



Code	S max mm	La mm	Lc mm	Fa daN	Fc daN	P Bar	V l	Kg
TPF 4700x10	10	80	70	4700 (±5%)	7435	150	0,084	1,50
TPF 4700x16	16	106	90		7092		0,146	1,78
TPF 4700x25	25	135	110		7410		0,211	2,10
TPF 4700x32	32	167	135		7045		0,297	2,32
TPF 4700x40	40	200	160		6965		0,379	2,65
TPF 4700x50	50	240	190		6930		0,479	3,05

TPF 4700 C

PED
97/23/CE



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

150 Bar

Min. charging pressure

50 Bar

Rod seal area

31,17 cm²

Max. working temperature

80°C

Force increase by temperature

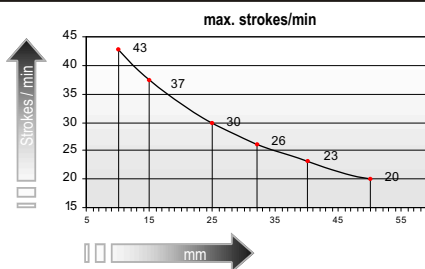
0,33% / 1°C

Max. stem speed

20 m/min

Maintenance kit

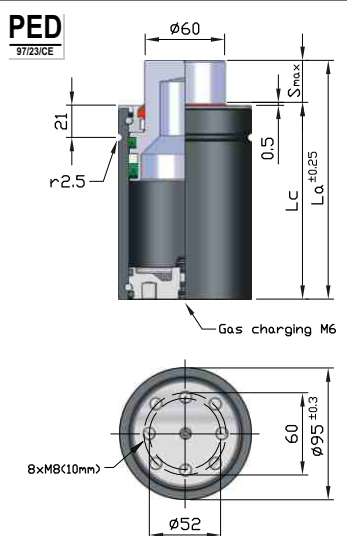
kit F4700C



Code	S max mm	La mm	Lc mm	Fa daN	Fc daN	P Bar	V l	kg
TPF 4700x10 C	10	100	90	4700 (±5%)	7435	150	0,084	2,00
TPF 4700x16 C	16	126	110		7092		0,146	2,28
TPF 4700x25 C	25	155	130		7410		0,211	2,60
TPF 4700x32 C	32	187	155		7045		0,297	2,82
TPF 4700x40 C	40	220	180		6965		0,379	3,15
TPF 4700x50 C	50	260	210		6930		0,479	3,55

TPF 7000

PED
97/23/CE



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

150 Bar

Min. charging pressure

50 Bar

Rod seal area

50,27 cm²

Max. working temperature

80°C

Force increase by temperature

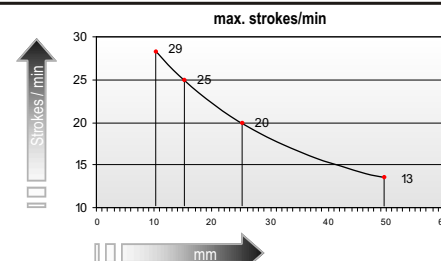
0,33% / 1°C

Max. stem speed

20 m/min

Maintenance kit

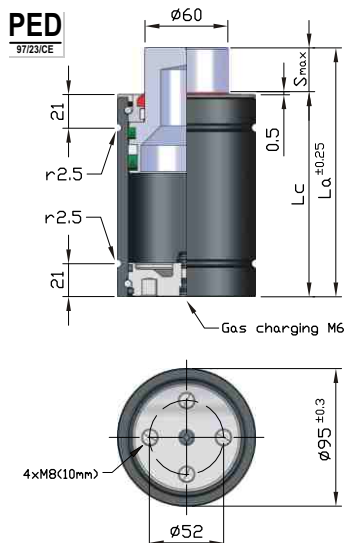
kit F7000



Code	S max mm	La mm	Lc mm	Fa daN	Fc daN	P Bar	V l	kg
TPF 7000x10	10	90	80	7000 (±5%)	10880	139	0,142	3,10
TPF 7000x15	15	105	90		11575		0,192	3,20
TPF 7000x25	25	135	110		12350		0,292	3,45
TPF 7000x50	50	210	160		12505		0,575	4,95

TPF 7500

PED
97/23/CE



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

150 Bar

Min. charging pressure

50 Bar

Rod seal area

50,27 cm²

Max. working temperature

80°C

Force increase by temperature

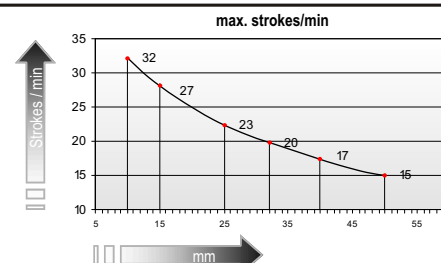
0,33% / 1°C

Max. stem speed

20 m/min

Maintenance kit

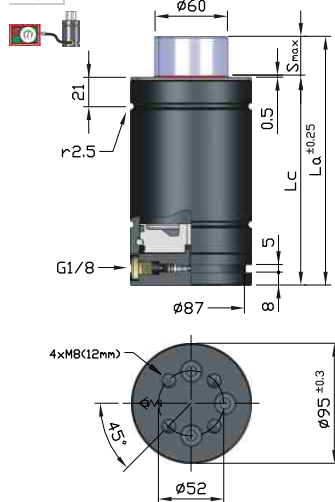
kit F7500



Code	S max mm	La mm	Lc mm	Fa daN	Fc daN	P Bar	V l	kg
TPF 7500x10	10	90	80	7500 (±5%)	11655	150	0,142	3,10
TPF 7500x16	16	116	100		11280		0,243	3,30
TPF 7500x25	25	145	120		11910		0,342	3,85
TPF 7500x32	32	182	150		11095		0,502	4,46
TPF 7500x40	40	210	170		11225		0,613	4,69
TPF 7500x50	50	255	205		10985		0,801	5,50

TPF 7500 C

PED
97/23/CE



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

150 Bar

Min. charging pressure

50 Bar

Rod seal area

50,27 cm²

Max. working temperature

80°C

Force increase by temperature

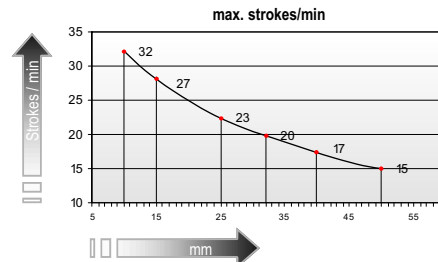
0,33% / 1°C

Max. stem speed

20 m/min

Maintenance kit

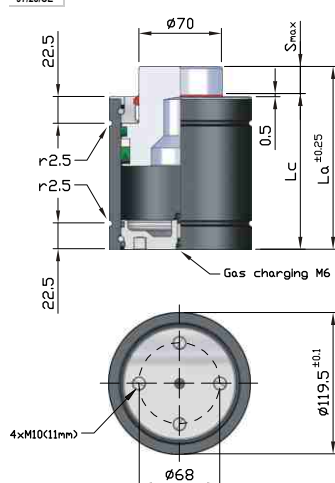
kit F7500C



Code	S max mm	La mm	Lc mm	Fa daN	Fc daN	P Bar	V l	Kg
TPF 7500x10C	10	110	100	7500 (±5%)	11655	150	0,142	4,05
TPF 7500x16C	16	136	120		11280		0,243	4,25
TPF 7500x25C	25	165	140		11910		0,342	4,80
TPF 7500x32C	32	202	170		11095		0,502	5,41
TPF 7500x40C	40	230	190		11225		0,613	5,64
TPF 7500x50C	50	275	225		10985		0,801	6,45

TPF 11800

PED
97/23/CE



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

150 Bar

Min. charging pressure

50 Bar

Rod seal area

78,54 cm²

Max. working temperature

80°C

Force increase by temperature

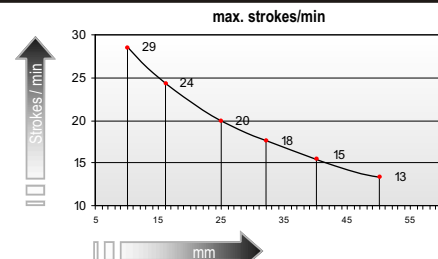
0,33% / 1°C

Max. stem speed

20 m/min

Maintenance kit

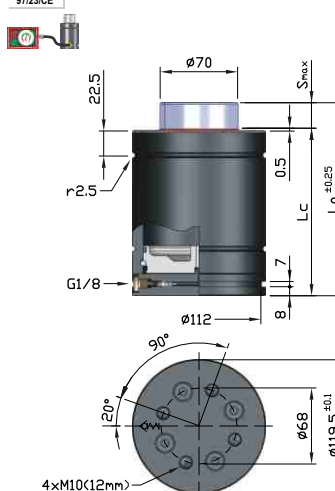
kit F11800



Code	S max mm	La mm	Lc mm	Fa daN	Fc daN	P Bar	V l	Kg
TPF 11800x10	10	100	90	11800 (±5%)	17570	150	0,238	5,60
TPF 11800x16	16	126	110		17350		0,392	6,39
TPF 11800x25	25	155	130		18055		0,565	7,15
TPF 11800x32	32	187	155		17445		0,774	7,96
TPF 11800x40	40	220	180		17300		0,985	8,91
TPF 11800x50	50	260	210		17250		1,238	10,15

TPF 11800 C

PED
97/23/CE



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

150 Bar

Min. charging pressure

50 Bar

Rod seal area

78,54 cm²

Max. working temperature

80°C

Force increase by temperature

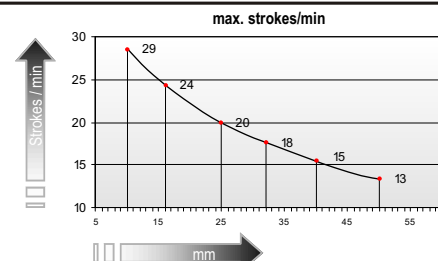
0,33% / 1°C

Max. stem speed

20 m/min

Maintenance kit

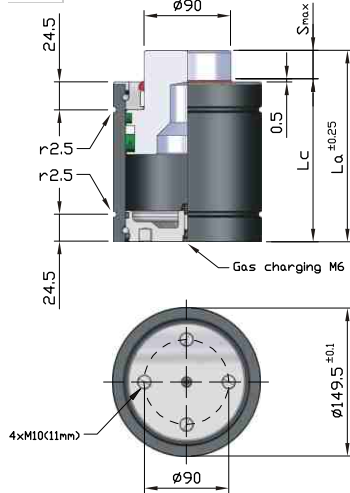
kit F11800C



Code	S max mm	La mm	Lc mm	Fa daN	Fc daN	P Bar	V l	Kg
TPF 11800x10C	10	120	110	11800 (±5%)	17570	150	0,238	7,10
TPF 11800x16C	16	146	130		17350		0,392	7,89
TPF 11800x25C	25	175	150		18055		0,565	8,65
TPF 11800x32C	32	207	175		17445		0,774	9,46
TPF 11800x40C	40	240	200		17300		0,985	10,41
TPF 11800x50C	50	280	230		17250		1,238	11,65

TPF 18300

PED
97/23/CE



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

150 Bar

Min. charging pressure

50 Bar

Rod seal area

122,72 cm²

Max. working temperature

80°C

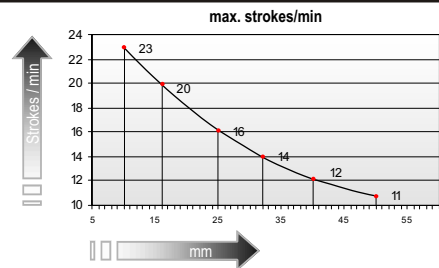
Force increase by temperature





0,33% / 1°C

Max. stem speed

20 m/min

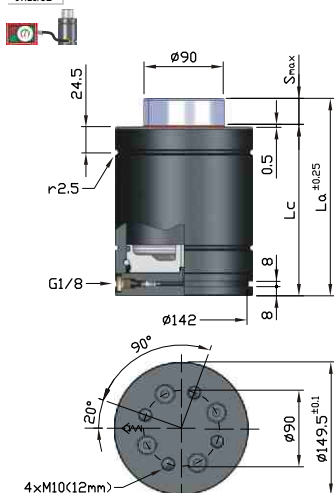
Maintenance kit

kit F18300

Code	S max mm	La mm	Lc mm	 Fa daN	 Fc daN	 P Bar	V l	 Kg
TPF 18300x10	10	110	100	18300 (±5%)	24810	150	0,476	9,10
TPF 18300x16	16	136	120		25205		0,728	9,95
TPF 18300x25	25	165	140		26505		1,004	10,80
TPF 18300x32	32	197	165		26080		1,335	13,26
TPF 18300x40	40	235	195		25695		1,731	15,10
TPF 18300x50	50	270	220		26155		2,072	16,80

TPF 18300 C

PED
97/23/CE



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

150 Bar

Min. charging pressure

50 Bar

Rod seal area

122,72 cm²

Max. working temperature

80°C

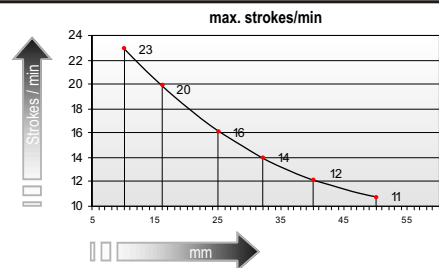
Force increase by temperature





0,33% / 1°C

Max. stem speed

20 m/min

Maintenance kit

kit F18300C

Code	S max mm	La mm	Lc mm	 Fa daN	 Fc daN	 P Bar	Y	 Kg
TPF 18300x10C	10	130	120	18300 (±5%)	24670	150	0,48	11,20
TPF 18300x16C	16	156	140		25060		0,73	12,15
TPF 18300x25C	25	185	160		26350		1,00	13,00
TPF 18300x32C	32	217	185		25930		1,34	15,46
TPF 18300x40C	40	255	215		25550		1,73	17,30
TPF 18300x50C	50	290	240		26000		2,07	19,00