PED 2014/68/UE

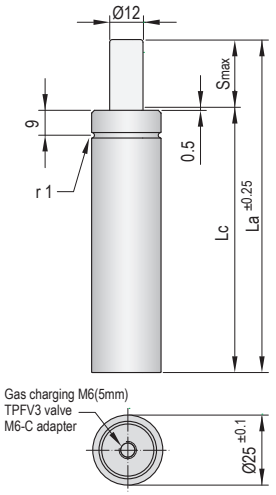


Gasdruckfedern mit maximaler Kraft. Kolbendichtung

Code	ØBody mm	Strokes mm	Fa daN		VDI SAFETY		
TPF 420	25	6 - 50	420	√	√		
TPF 750.1	32	6 - 50	750	√	√		√
TPF 1000 B.1	38	10 - 50	1000	√	√		
TPFS 1000.2	38	6 - 50	1000	√	√	√	√
TPFS 1800.2	50	6 - 65	1800	√	√	√	√
TPFS 2000.2	50	16 - 50	2000	√	√	√	√
TPFS 3000.2	63	10 - 65	3000	√	√	√	√
TPFS 4700.3	75	10 - 65	4700	√	√	√	√
TPF 7000	95	10 - 50	7000	√	√		
TPF 7500	95	10 - 50	7500	√	√		
TPF 7500C	95	10 - 50	7500	√	√	√	
TPF 11800	120	10 - 50	11800	√	√		
TPF 11800C	120	10 - 50	11800	√	√	√	
TPF 18300	150	10 - 50	18300	√	√		
TPF 18300C	150	10 - 50	18300	√	√	√	

VDI SAFETY

PED 2014/68/UE

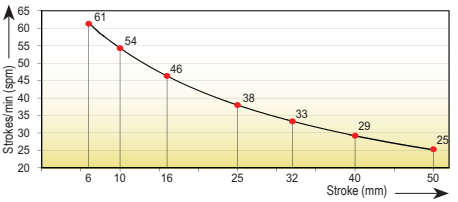


Pressure medium	Nitrogen (N_2)
Max. charging pressure	133 Bar
Min. charging pressure	50 Bar
Piston seal area	3,14 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit F420



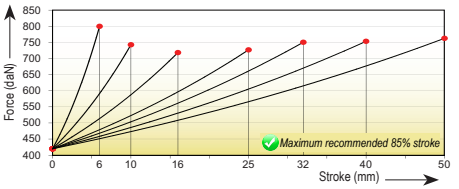


Maximum strokes / minute (at 20°C)

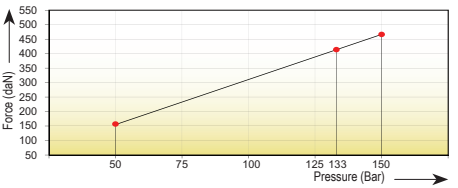


Code	Smax mm	La mm	Lc mm	Fa daN	85% F daN	100% Fc daN	P Bar	V l	Kg	Kit
TPF 420x6	6	56	50	420 ±5% (20°C)	700	795	133 (20°C)	0,004	0,13	✓
TPF 420x10	10	70	60		665	740		0,007	0,15	✓
TPF 420x16	16	91	75		645	715		0,012	0,20	✓
TPF 420x25	25	120	95		650	725		0,019	0,30	✓
TPF 420x32	32	140	108		670	745		0,023	0,38	✓
TPF 420x40	40	165	125		670	750		0,028	0,46	-
TPF 420x50	50	195	145		675	760		0,035	0,57	-

Force/stroke ratio



Initial force/charging pressure ratio



Einbaumöglichkeiten

Hinweise beachten
Seite 287



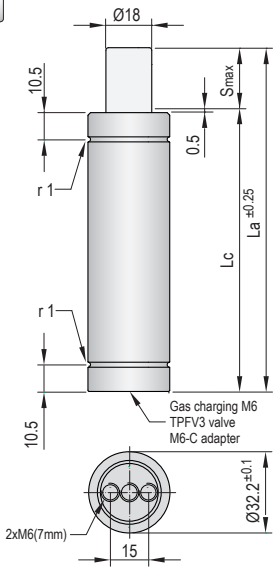
DROP-IN SCREWS FS 25/1·FS 25/2

Pieper Normteile GmbH +++ www.pieper-normteile.de +++
Tel.: +49 (0) 7644.929588 +++ info@pieper-normteile.de

TPF 750.1

VDI SAFETY

PED 2014/68/UE



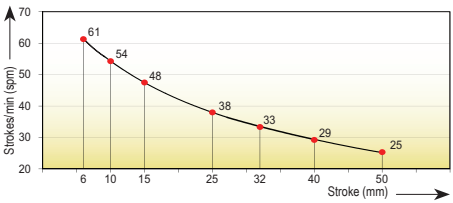
Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	50 Bar
Piston seal area	4,91 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit F750.1





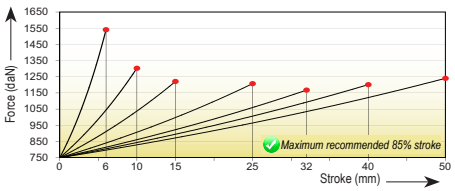


Maximum strokes / minute (at 20°C)

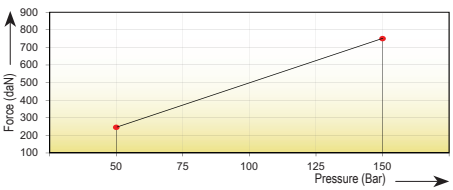


Code	Smax mm	La mm	Lc mm	Fa daN	85% F daN	100% Fc daN	P Bar	V l	Kg
TPF 750x6.1	6	63	57		1330	1540		0,006	0,29
TPF 750x10B.1	10	75	65		1385	1625		0,009	0,33
TPF 750x10.1	10	80	70		1175	1305		0,012	0,35
TPF 750x15B.1	15	93	78		1250	1420		0,016	0,39
TPF 750x15.1	15	100	85	750 ±5%	1120	1225	150	0,019	0,42
TPF 750x25B.1	25	120	95	(20°C)	1290	1475	(20°C)	0,025	0,48
TPF 750x25.1	25	135	110		1110	1210		0,032	0,51
TPF 750x32.1	32	140	108		1080	1170		0,044	0,55
TPF 750x40.1	40	165	125		1105	1205		0,052	0,61
TPF 750x50.1	50	195	145		1130	1240		0,062	0,67

Force/stroke ratio

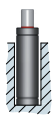


Initial force/charging pressure ratio



Einbaumöglichkeiten

Hinweise beachten
Seite 287



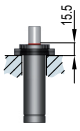
DROP-IN



SCREWS



FS 32·FS 32/1



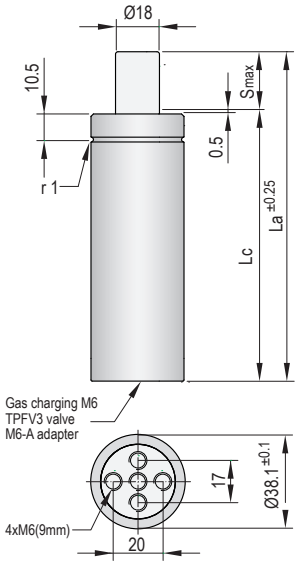
FS 32·FS 32/1



FI 32·FI 32/1

VDI SAFETY

PED 2014/68/UE

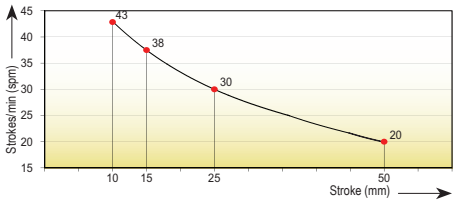


Pressure medium	Nitrogen (N_2)
Max. charging pressure	140 Bar
Min. charging pressure	50 Bar
Piston seal area	7,07 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit F1000B.1



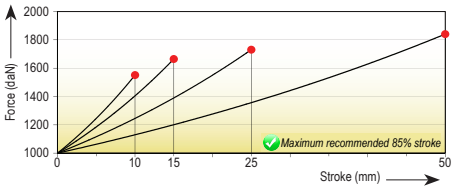


Maximum strokes / minute (at 20°C)

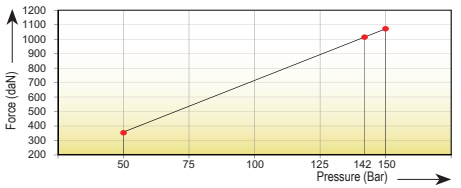


Code	Smax mm	La mm	Lc mm	Fa daN	85% F daN	100% Fc daN	P Bar	V l	Kg
TPF 1000x10B.1	10	75	65	1000 ±5% (20°C)	1420	1535	140 (20°C)	0,020	0,39
TPF 1000x15B.1	16	90	74		1500	1645		0,027	0,45
TPF 1000x25B.1	25	120	95		1545	1715		0,042	0,51
TPF 1000x50B.1	50	195	145		1620	1820		0,077	0,75

Force/stroke ratio

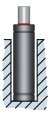


Initial force/charging pressure ratio



Einbaumöglichkeiten

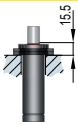
Hinweise beachten
Seite 287



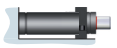
DROP-IN



SCREWS



FS 38·FSC 38

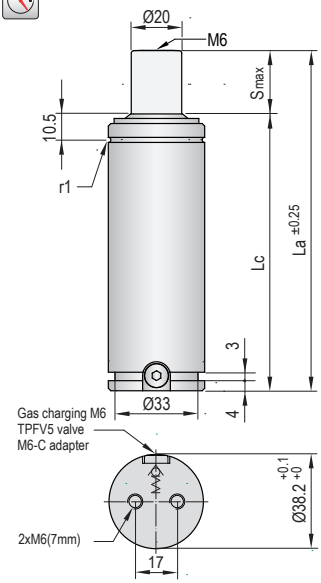


FI 38·FI 38/1

TPFS 1000.2

VDI SAFETY

PED 2014/68/UE

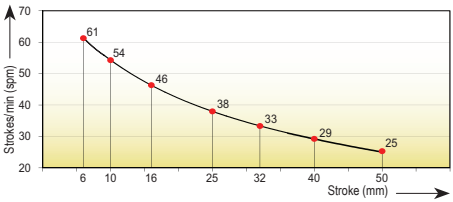


Pressure medium	Nitrogen (N_2)
Max. charging pressure	140 Bar
Min. charging pressure	50 Bar
Piston seal area	7,07 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit FS1000.2



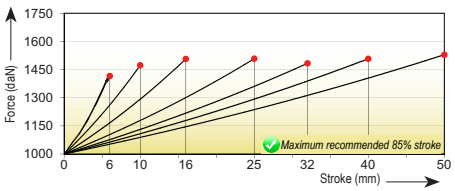


Maximum strokes / minute (at 20°C)

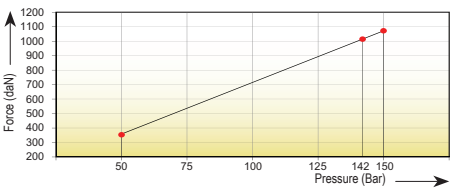


Code	Smax mm	La mm	Lc mm	Fa daN	F 85% daN	Fc 100% daN	P Bar	V l	Kg
TPFS 1000x6.2	6	61	55	1000 ±5% (20°C)	1300	1370	140 (20°C)	0,016	0,37
TPFS 1000x10.2	10	78	68		1345	1435		0,024	0,42
TPFS 1000x16.2	16	100	84		1380	1475		0,035	0,51
TPFS 1000x25.2	25	135	110		1385	1485		0,055	0,58
TPFS 1000x32.2	32	167	135		1365	1455		0,073	0,66
TPFS 1000x40.2	40	195	155		1385	1485		0,087	0,78
TPFS 1000x50.2	50	230	180		1400	1505		0,106	0,95

Force/stroke ratio

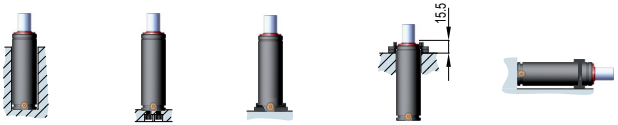


Initial force/charging pressure ratio



Einbaumöglichkeiten

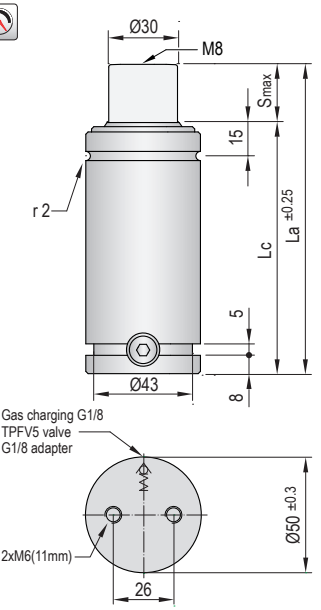
Hinweise beachten
Seite 287



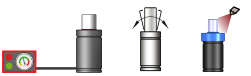
DROP-IN | SCREWS | FP 38·FPR 38 | FS 32·FSC 38 | FI 38·FI 38/1

VDI SAFETY

PED 2014/68/UE

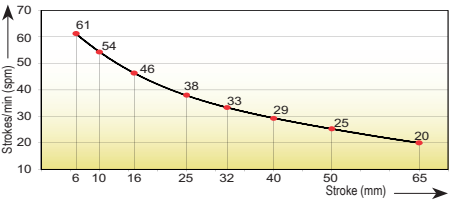


Pressure medium	Nitrogen (N_2)
Max. charging pressure	140 Bar
Min. charging pressure	50 Bar
Piston seal area	12,57 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit FS1800.2



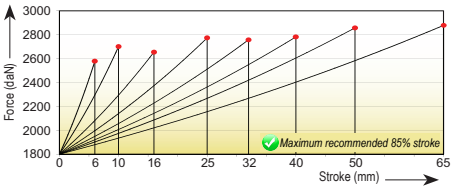


Maximum strokes / minute (at 20°C)

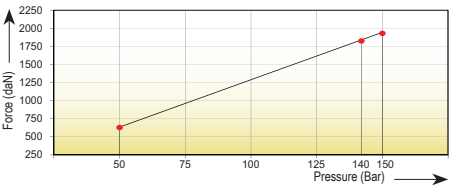


Code	Smax mm	La mm	Lc mm	Fa daN	85% F daN	100% Fc daN	P Bar	V l	Kg
TPFS 1800x6.2	6	66	60		2400	2555		0,025	0,62
TPFS 1800x10.2	10	80	70		2490	2680		0,038	0,73
TPFS 1800x16.2	16	106	90		2455	2630		0,062	0,85
TPFS 1800x25.2	25	135	110	1800 ±5%	2545	2750	140	0,090	0,98
TPFS 1800x32.2	32	162	130	(20°C)	2535	2735	(20°C)	0,116	1,20
TPFS 1800x40.2	40	190	150		2550	2760		0,142	1,25
TPFS 1800x50.2	50	220	170		2605	2835		0,170	1,42
TPFS 1800x65.2	65	271	206		2620	2855		0,218	1,65

Force/stroke ratio



Initial force/charging pressure ratio

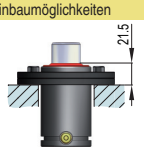


Einbaumöglichkeiten

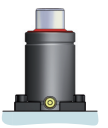
Hinweise beachten
Seite 287

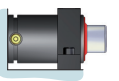

DROP-IN


SCREWS



FS 50·FSC 50

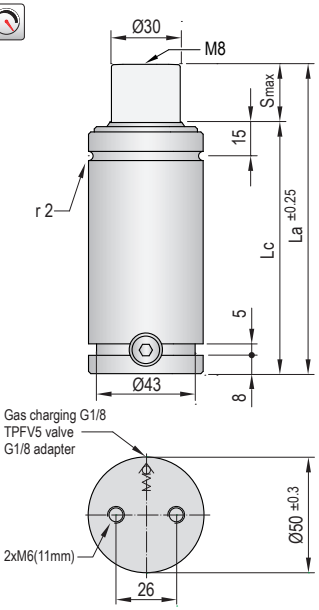

FP 50·FPR 50


FI 50·FI 50/1

TPFS 2000.2

VDI SAFETY

PED 2014/68/UE

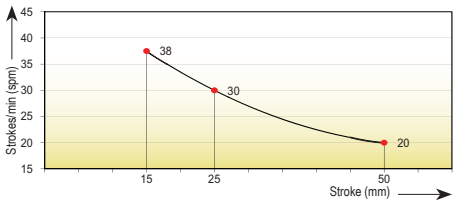


Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	50 Bar
Piston seal area	12,57 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit FS2000.2



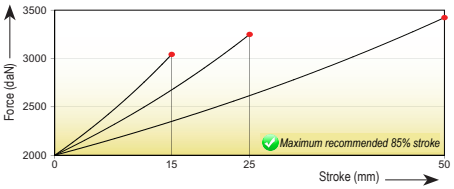


Maximum strokes / minute (at 20°C)

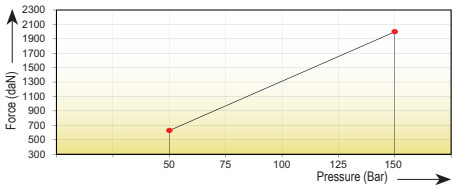


Code	Smax mm	La mm	Lc mm	Fa daN	85% F daN	100% Fc daN	P Bar	V l	Kg
TPFS 2000x16.2	16	95	79	2000 ±5% (20°C)	2730	3015	150 (20°C)	0,055	0,70
TPFS 2000x25.2	25	125	100		2725	3000		0,082	0,81
TPFS 2000x50.2	50	200	150		2815	33135		0,151	1,05

Force/stroke ratio

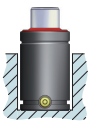


Initial force/charging pressure ratio

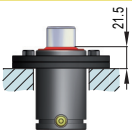


Einbaumöglichkeiten

Hinweise beachten
Seite 287

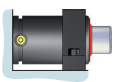

DROP-IN


SCREWS



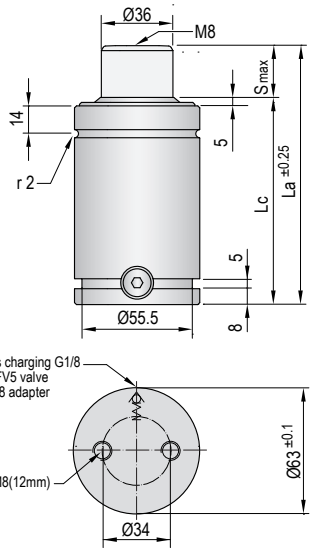
FS 50·FSC 50


FP 50·FPR 50


FI 50·FI 50/1

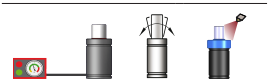
VDI SAFETY

PED 2014/68/UE

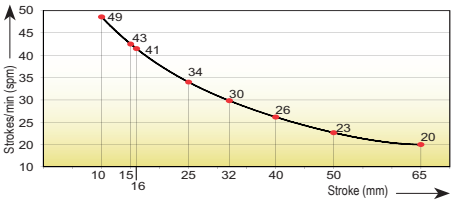


Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	50 Bar
Piston seal area	19,63 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit FS3000.2



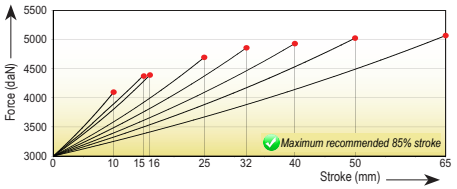


Maximum strokes / minute (at 20°C)

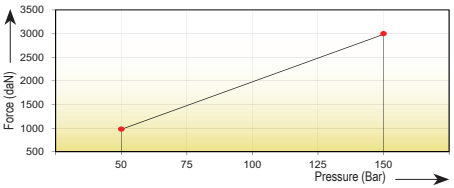


Code	Smax mm	La mm	Lc mm	Fa daN	85% F daN	100% Fc daN	P Bar	V l	Kg
TPFS 3000x10.2	10	85	75		3890	4105		0,073	1,15
TPFS 3000x15.2	15	100	85		4075	4350		0,095	1,30
TPFS 3000x16.2	16	103	87		4115	4400		0,099	1,32
TPFS 3000x25.2	25	130	105	3000 ±5%	4335	4705	150	0,136	1,50
TPFS 3000x32.2	32	150	118	(20°C)	4455	4870	(20°C)	0,164	1,57
TPFS 3000x40.2	40	175	135		4505	4940		0,200	1,77
TPFS 3000x50.2	50	205	155		4570	5035		0,243	2,07
TPFS 3000x65.2	65	256	191		4600	5080		0,313	2,38

Force/stroke ratio



Initial force/charging pressure ratio

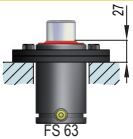


Einbaumöglichkeiten

Hinweise beachten
Seite 287

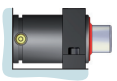

DROP-IN


SCREWS



FS 63
FSC 63·FSC 63/1

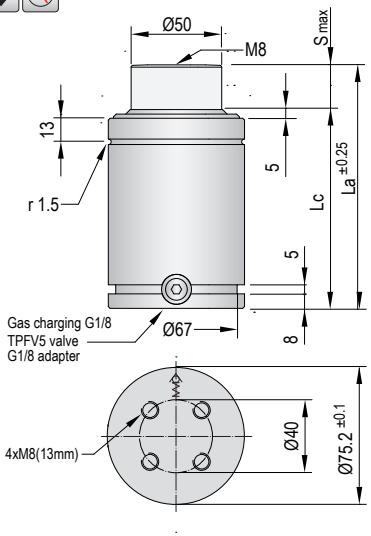

FP 63·FPR 63


FI 63/1

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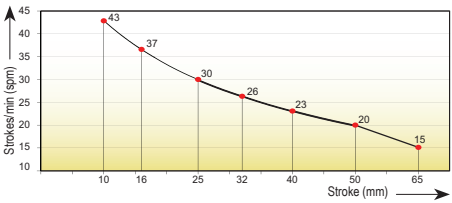


Pressure medium	Nitrogen (N_2)
Max. charging pressure	140 Bar
Min. charging pressure	50 Bar
Piston seal area	31,17 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit FS4700.3



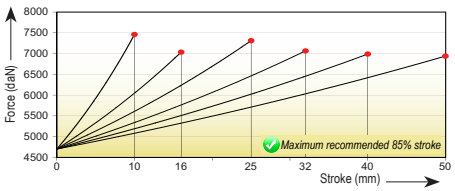


Maximum strokes / minute (at 20°C)

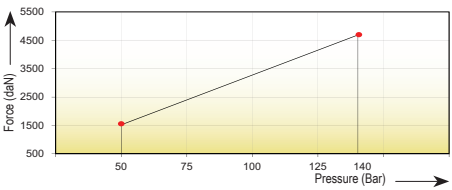


Code	Smax mm	La mm	Lc mm	Fa daN	85% F daN	100% Fc daN	P Bar	V l	Kg
TPFS 4700x10.3	10	80	70	4700 ±5% (20°C)	6605	7120	140 (20°C)	0,091	1,55
TPFS 4700x16.3	16	106	90		6410	6860		0,157	1,83
TPFS 4700x25.3	25	135	110		6605	7125		0,227	2,15
TPFS 4700x32.3	32	167	135		6440	6900		0,310	2,37
TPFS 4700x40.3	40	200	160		6400	6845		0,394	2,70
TPFS 4700x50.3	50	240	190		6385	6825		0,495	3,10
TPFS 4700x65.3	65	273	208		6725	7290		0,565	3,65

Force/stroke ratio



Initial force/charging pressure ratio

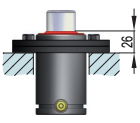


Einbaumöglichkeiten

Hinweise beachten
Seite 287

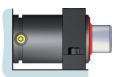

DROP-IN


SCREWS



FSCS 75

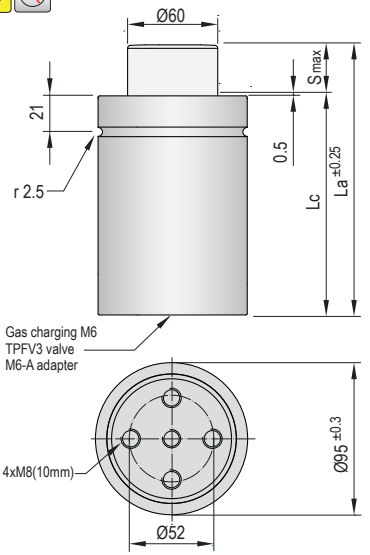

FP 75·FPR 75


FI 75·FI 75/1

TPF
TPK
TPC
TPR
TPB
TPHC
TPA
TPG
TPCT
TPSL
STOP CYLINDER
STOP CYLINDER
TPSR
TPSRS
TPNS
TPHT

VDI SAFETY

PED 2014/68/UE

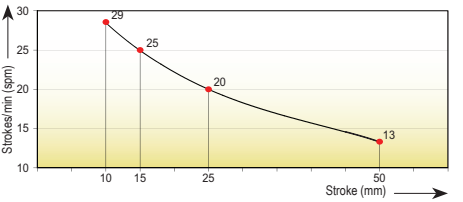


Pressure medium	Nitrogen (N_2)
Max. charging pressure	140 Bar
Min. charging pressure	50 Bar
Piston seal area	50,27 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit F7000





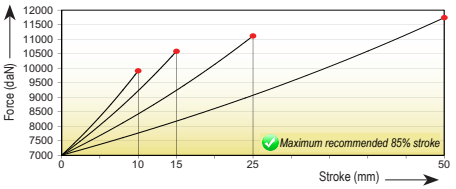
Maximum strokes / minute (at 20°C)



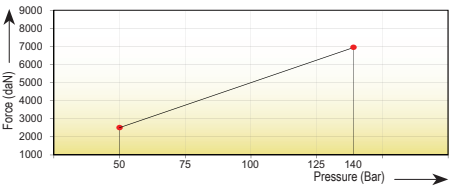
Under request

Code	Smax mm	La mm	Lc mm	Fa daN	85% F daN	100% Fc daN	P Bar	V l	Kg
TPF 7000x10	10	90	80		9310	9890		0,171	3,10
TPF 7000x15	15	105	90	7000 ±5%	9810	10560	140	0,223	3,20
TPF 7000x25	25	135	110	(20°C)	10195	11090	(20°C)	0,340	3,45
TPF 7000x50	50	210	160		10640	11720		0,622	4,95

Force/stroke ratio



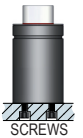
Initial force/charging pressure ratio

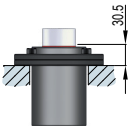


Einbaumöglichkeiten

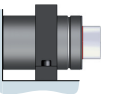
Hinweise beachten
Seite 287


DROP-IN


SCREWS



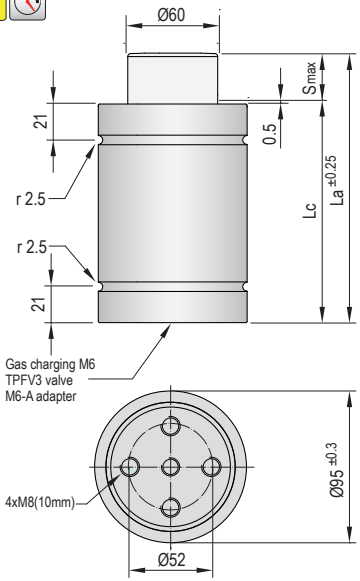
FS 95·FSC 95


FI 95·FI 95/1

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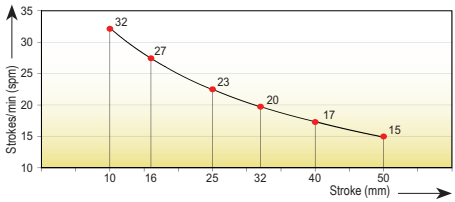
Under request

Pressure medium	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



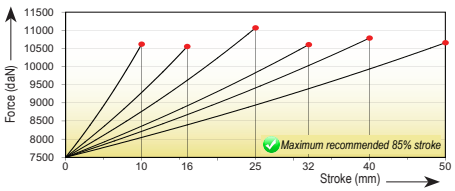


Maximum strokes / minute (at 20°C)

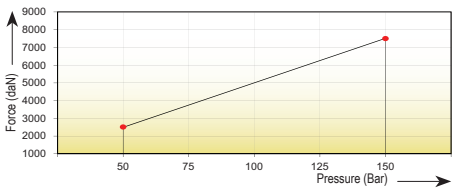


Code	Smax mm	La mm	Lc mm	Fa daN	85% F daN	100% Fc daN	P Bar	V l	Kg
TPF 7500x10	10	90	80		10045	10675		0,171	3,10
TPF 7500x16	16	116	100		10000	10610		0,278	3,30
TPF 7500x25	25	145	120	7500 ±5%	10385	11125	150	0,390	3,85
TPF 7500x32	32	182	150	(20°C)	10035	10660	(20°C)	0,550	4,46
TPF 7500x40	40	210	170		10175	10845		0,660	4,69
TPF 7500x50	50	255	205		10075	10715		0,849	5,50

Force/stroke ratio



Initial force/charging pressure ratio

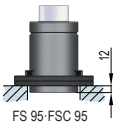


Einbaumöglichkeiten

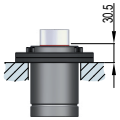

Hinweise beachten Seite 287


DROP-IN

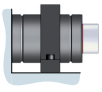

SCREWS



FS 95·FSC 95



FS 95·FSC 95

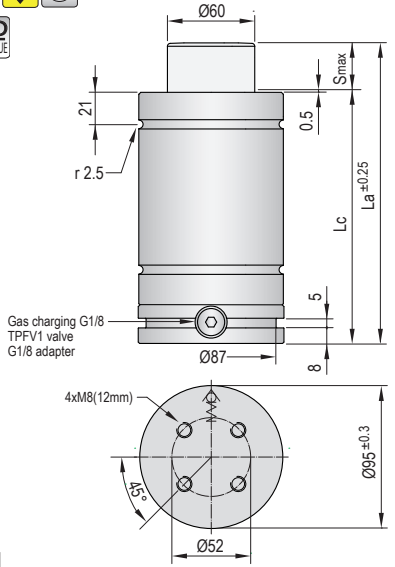

FI 95·FI 95/1

Ø95mm · G1/8 anschließbar
7500daN

TPF 7500 C

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PED 2014/68/UE



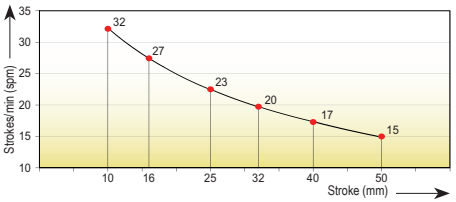
Under request

Pressure medium	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 F7500C





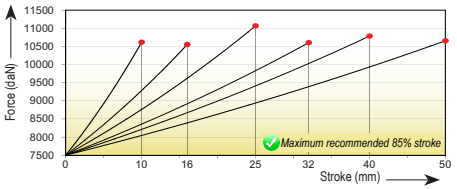
Maximum strokes / minute (at 20°C)



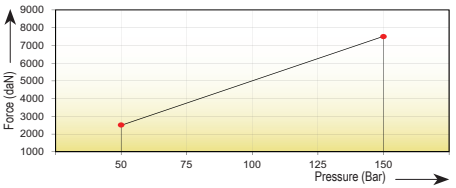
Code	Smax mm	La mm	Lc mm	Fa daN	85% F daN	100% Fc daN	P Bar	V l	Kg
TPF 7500x10 C	10	110	100		10045	10675		0,171	4,05
TPF 7500x16 C	16	136	120		10000	10610		0,278	4,25
TPF 7500x25 C	25	165	140	7500 ±5%	10385	11125	150	0,390	4,80
TPF 7500x32 C	32	202	170	(20°C)	10035	10660	(20°C)	0,550	5,41
TPF 7500x40 C	40	230	190		10175	10845		0,660	5,64
TPF 7500x50 C	50	275	225		10075	10715		0,849	6,45

Achtung! Dieses Modell ist für den Betrieb in einem Schlauchsystem vorgesehen.

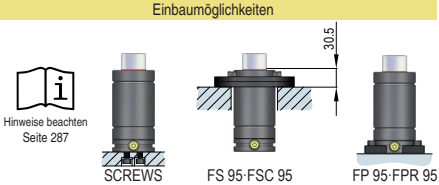
Force/stroke ratio



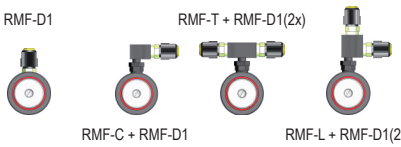
Initial force/charging pressure ratio



Einbaumöglichkeiten



Anschlussmöglichkeiten

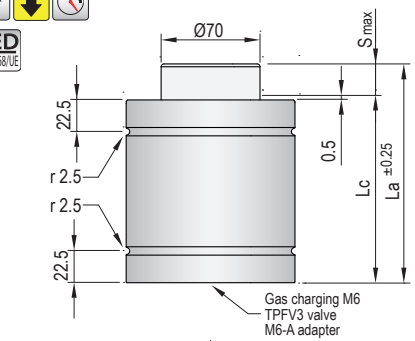


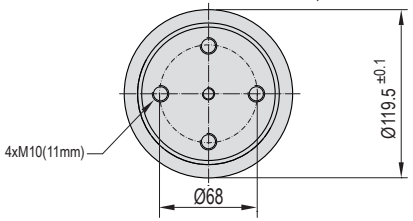
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Tel.: +49 (0) 7644.929588 +++ info@pieper-normteile.de

TPF 11800

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PED 2014/68/UE





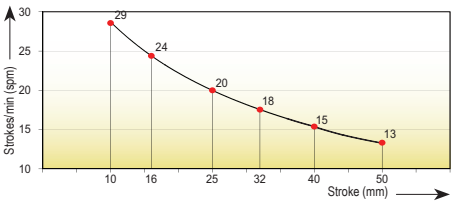
Under request

Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	50 Bar
Piston seal area	78,54 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit F11800



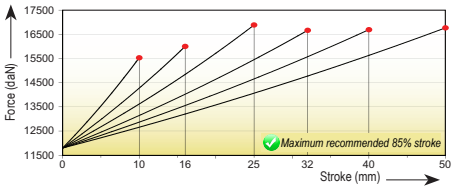


Maximum strokes / minute (at 20°C)

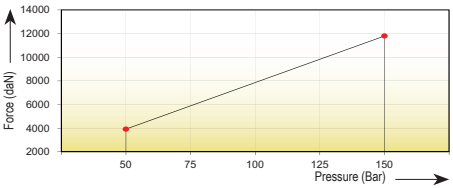


Code	Smax mm	La mm	Lc mm	Fa daN	85% F daN	100% Fc daN	P Bar	V l	Kg
TPF 11800x10	10	100	90		14805	15505		0,327	5,60
TPF 11800x16	16	126	110		15165	15975		0,479	6,39
TPF 11800x25	25	155	130	11800 ±5%	15835	16860	150	0,652	7,15
TPF 11800x32	32	187	155	(20°C)	15670	16640	(20°C)	0,861	7,96
TPF 11800x40	40	220	180		15690	16665		1,072	8,91
TPF 11800x50	50	260	210		15745	16740		1,326	10,15

Force/stroke ratio



Initial force/charging pressure ratio

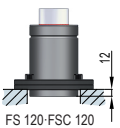


Einbaumöglichkeiten

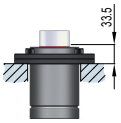

Hinweise beachten
Seite 287


DROP-IN

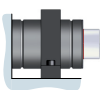

SCREWS



FS 120·FSC 120

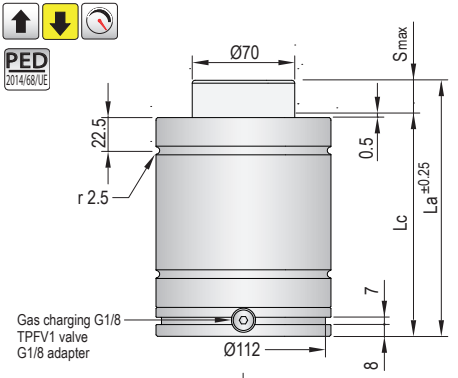


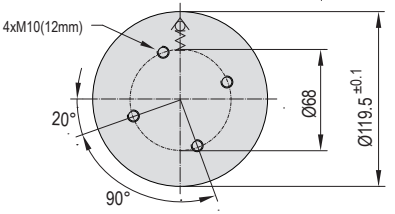
FS 120·FSC 120


FI 120·FI 120/1

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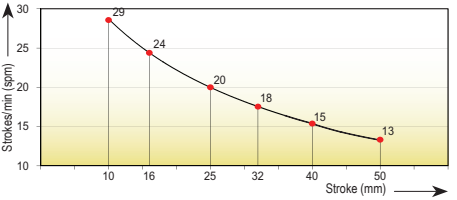


Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	50 Bar
Piston seal area	78,54 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit F11800C





Maximum strokes / minute (at 20°C)

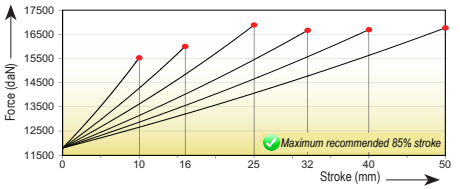


Under request

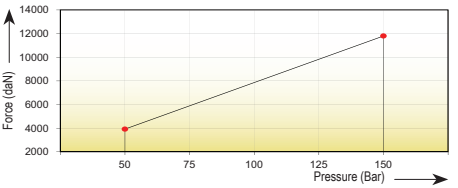
Code	Smax mm	La mm	Lc mm	Fa daN	F 85% daN	Fc 100% daN	P Bar	V l	Kg
TPF 11800x10 C	10	120	110		14805	15505		0,327	7,10
TPF 11800x16 C	16	146	130		15165	15975		0,479	7,89
TPF 11800x25 C	25	175	150	11800 ±5%	15835	16860	150	0,652	8,65
TPF 11800x32 C	32	207	175	(20°C)	15670	16640	(20°C)	0,861	9,46
TPF 11800x40 C	40	240	200		15690	16665		1,072	10,41
TPF 11800x50 C	50	280	230		15745	16740		1,326	11,65

Achtung! Dieses Modell ist für den Betrieb in einem Schlauchsystem vorgesehen.

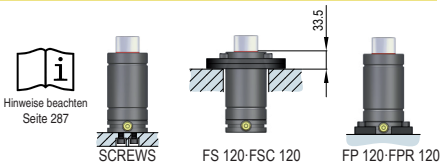
Force/stroke ratio



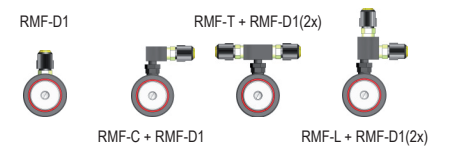
Initial force/charging pressure ratio



Einbaumöglichkeiten



Anschlussmöglichkeiten

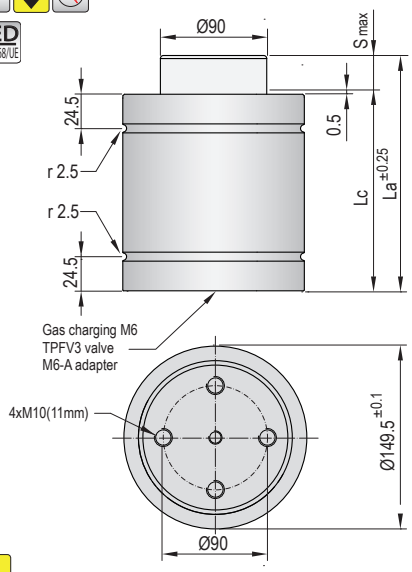


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TPF 18300

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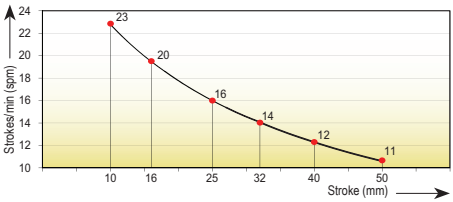
Under request

Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	50 Bar
Piston seal area	122,72 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit F18300



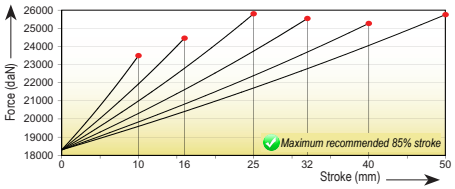


Maximum strokes / minute (at 20°C)

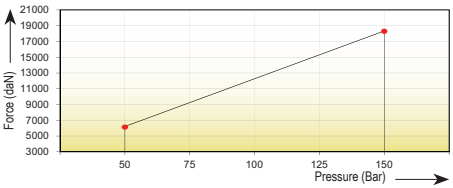


Code	Smax mm	La mm	Lc mm	Fa daN	85% F daN	100% Fc daN	P Bar	V l	Kg
TPF 18300x10	10	110	100		22665	23630		0,555	9,10
TPF 18300x16	16	136	120		23420	24600		0,780	9,95
TPF 18300x25	25	165	140	18300 ±5%	24450	25950	150	1,055	10,80
TPF 18300x32	32	197	165	(20°C)	24250	25690	(20°C)	1,385	13,26
TPF 18300x40	40	235	195		24045	25415		1,780	15,10
TPF 18300x50	50	270	220		24415	25905		2,120	16,80

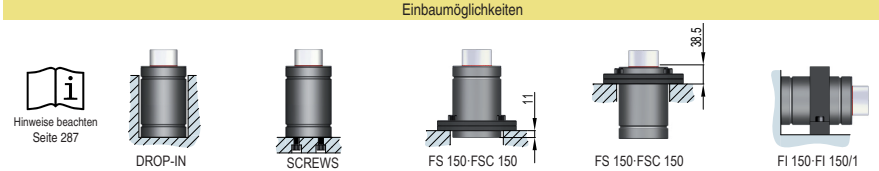
Force/stroke ratio



Initial force/charging pressure ratio

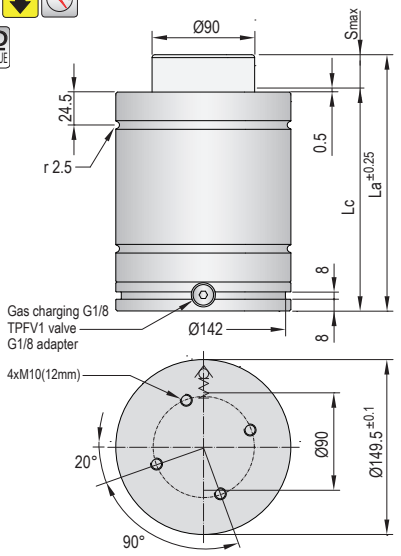


Einbaumöglichkeiten



VDI SAFETY

PED 2014/68/UE

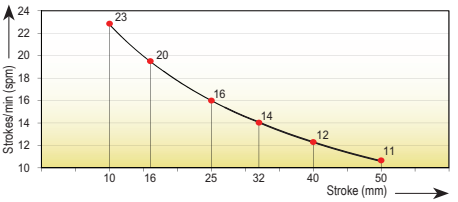


Pressure medium	Nitrogen (N_2)
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Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit F18300C





Maximum strokes / minute (at 20°C)

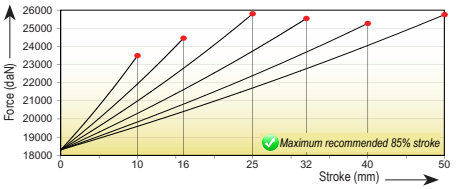


Under request

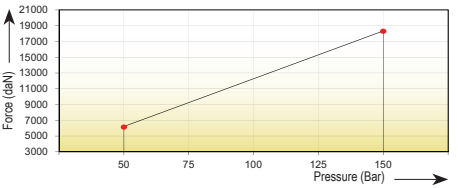
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TPF 18300x32 C	32	197	165	(20°C)	24250	25690	(20°C)	1,385	13,26
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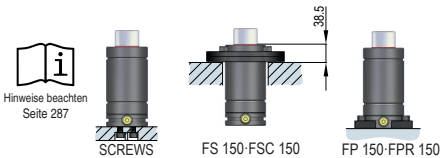
Force/stroke ratio



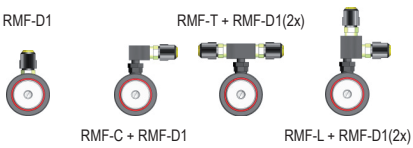
Initial force/charging pressure ratio



Einbaumöglichkeiten



Anschlussmöglichkeiten



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