PED 2014/68/UE

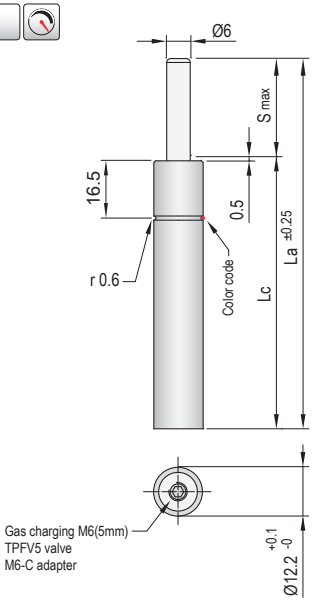


Mittelkompakte Gasdruckfedern

Code	ØBody mm	Strokes mm	Fa daN		VDI SAFETY		
TPC 12.1	12	7 - 63	42	√	√		√
TPC 14	14	15 - 80	50	√	√		√
TPC 19.2	19	7 - 125	90	√	√		√
TPC 25.1	25	7 - 200	200	√	√		√
TPC 350.1	32	10 - 125	350	√	√		√
TPC 500.1	38	10 - 80	500	√	√		√
TPC 1000	50	25 - 100	1000	√	√	√	√
TPC 1500.1	63	25 - 100	1500	√	√	√	√
TPC 2500	75	25 - 125	2500	√	√	√	√
TPC 3000	75	25 - 200	3000	√	√	√	√
TPC 4000	95	25 - 100	4000	√	√	√	√
TPC 6500	120	25 - 160	6500	√	√	√	√
TPC 10000	150	25 - 125	9500	√	√	√	√

VDI SAFETY

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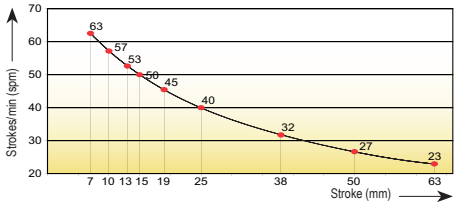


Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	20 Bar
Rod seal area	0,28 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	0,5 m/s
Maintenance kit	Kit C12.1





Maximum strokes / minute (at 20°C)



Code	Smax mm	La mm	Lc mm	V l	Kg
TPC 12x7.1	7	56	49	0,001	0,03
TPC 12x10.1	10	62	52	0,001	0,03
TPC 12x13.1	13	68	55	0,001	0,03
TPC 12x15.1	15	72	57	0,001	0,04
TPC 12x19.1	19	80	61	0,001	0,05
TPC 12x25.1	25	92	67	0,002	0,05
TPC 12x38.1	38	118	80	0,003	0,06
TPC 12x50.1	50	142	92	0,004	0,06
TPC 12x63.1	63	172	109	0,005	0,07

Color code	Fa daN	90% F daN	P Bar
GR *(Green)*	13 (±5%)	≈ 19	45
BL *(Blue)*	25 (±5%)	≈ 38	90
RD *(Red)*	38 (±5%)	≈ 57	135
YW *(Yellow)*	42 (±5%)	≈ 63	150
(Other forces)	6 - 42	≈ 10 - 63	20 - 150

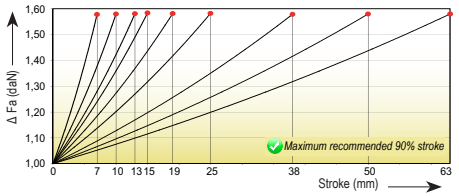
Der schwarze Farbcode kennzeichnet einen abweichenden Fülldruck, den Sie bei der Bestellung zwischen dem minimalen und maximalen Fülldruck wählen können. Ohne andere Angabe wird die Gasdruckfeder in der Ausführung mit gelbem Farbcode (YW) geliefert.

Bestellbeispiel

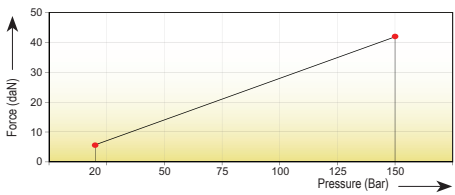
TPC 12 x 7.1 YW

Model | Stroke | Color code

Force/stroke ratio



Initial force/charging pressure ratio



Einbaumöglichkeiten

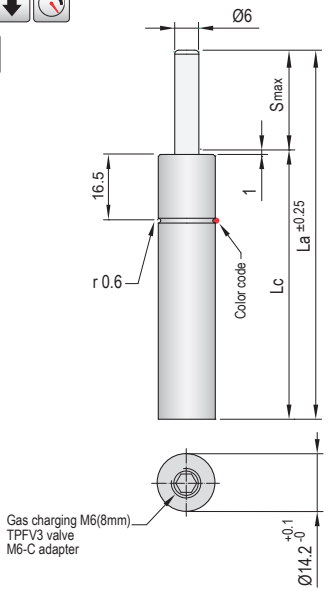
Hinweise beachten
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DROP-IN SCREWS FS 12

VDI SAFETY

PED 2014/68/UE

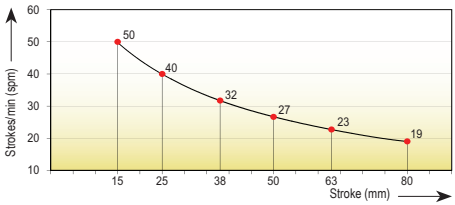


Pressure medium	Nitrogen (N_2)
Max. charging pressure	175 Bar
Min. charging pressure	50 Bar
Rod seal area	0,28 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	0,5 m/s
Maintenance kit	Kit C14





Maximum strokes / minute (at 20°C)



Code	Smax mm	La mm	Lc mm	V l	Kg
TPC 14x15	15	72	57	0,002	0,06
TPC 14x25	25	92	67	0,003	0,08
TPC 14x38	38	118	80	0,005	0,09
TPC 14x50	50	142	92	0,006	0,10
TPC 14x63	63	169	106	0,007	0,12
TPC 14x80	80	205	125	0,009	0,15

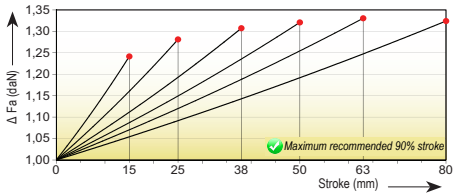
Color code	Fa daN	90% F daN	P Bar
GR *(Green)*	20 (±5%)	≈ 25	70
BL *(Blue)*	30 (±5%)	≈ 40	110
RD *(Red)*	40 (±5%)	≈ 50	142
YW *(Yellow)*	50 (±5%)	≈ 62	175
(Other forces)	14 - 50	≈ 20 - 62	50 - 175

Der schwarze Farbcode kennzeichnet einen abweichenden Fülldruck, den Sie bei der Bestellung zwischen dem minimalen und maximalen Fülldruck wählen können. Ohne andere Angabe wird die Gasdruckfeder in der Ausführung mit gelbem Farbcode (YW) geliefert.

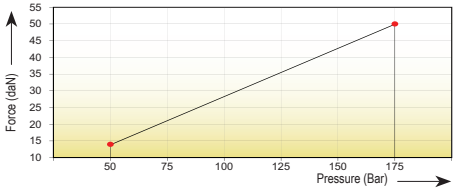
Bestellbeispiel

TPC 14	x	15	YW
Model		Stroke	Color code

Force/stroke ratio



Initial force/charging pressure ratio



Einbaumöglichkeiten

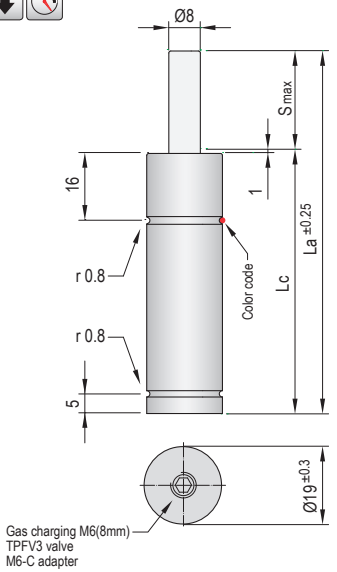
Hinweise beachten
Seite 287


DROP-IN


SCREWS

VDI SAFETY

PED 2014/68/UE



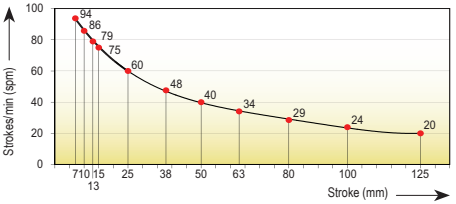
Pressure medium	Nitrogen (N_2)
Max. charging pressure	175 Bar
Min. charging pressure	25 Bar
Rod seal area	0,50 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit C19.2

ISO 11901 VDI 3003





Maximum strokes / minute (at 20°C)



Code	Smax mm	La mm	Lc mm	V l	Kg
TPC 19x7.2	7	56	49	0,002	0,08
TPC 19x10.2	10	62	52	0,003	0,08
TPC 19x13.2	13	67,4	54,4	0,003	0,08
TPC 19x15.2	15	72	57	0,004	0,09
TPC 19x25.2	25	92	67	0,006	0,10
TPC 19x38.2	38,1	118,2	80,1	0,008	0,12
TPC 19x50.2	50	142	92	0,011	0,13
TPC 19x63A.2	63	168	105	0,013	0,15
TPC 19x63.2	63	172	109	0,014	0,15
TPC 19x80A.2	80	202	122	0,016	0,16
TPC 19x80.2	80	205	125	0,017	0,17
TPC 19x100.2	100	245	145	0,021	0,18
TPC 19x125.2	125	295	170	0,026	0,21

Color code	Fa daN	90% F daN	P Bar
GR *(Green)*	30 (±5%)	≈ 38	60
BL *(Blue)*	50 (±5%)	≈ 63	100
RD *(Red)*	70 (±5%)	≈ 88	140
YW *(Yellow)*	90 (±5%)	≈ 109	175
(Other forces)	13 - 90	≈ 16 - 109	25 - 175

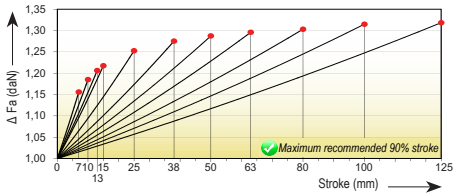
Der schwarze Farbcode kennzeichnet einen abweichenden Fülldruck, den Sie bei der Bestellung zwischen dem minimalen und maximalen Fülldruck wählen können. Ohne andere Angabe wird die Gasdruckfeder in der Ausführung mit gelbem Farbcode (YW) geliefert.

Bestellbeispiel

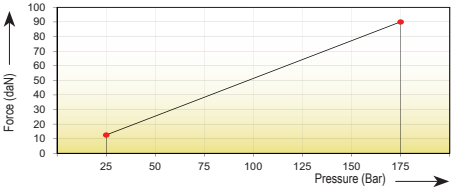
TPC 19 x 125.2 YW

Model | Stroke | Color code

Force/stroke ratio



Initial force/charging pressure ratio

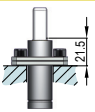


Einbaumöglichkeiten

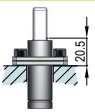
Hinweise beachten Seite 287


DROP-IN


SCREWS



FS19·FS19/2



FS19/1

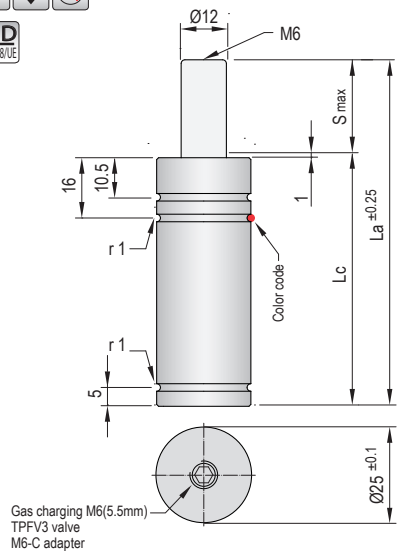

FS19·FS19/2

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TPC 25.1

VDI SAFETY

PED 2014/68/UE



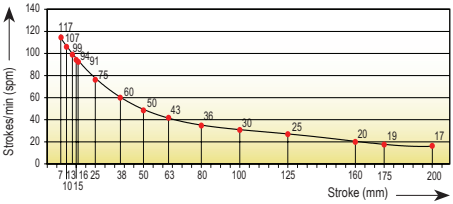
Pressure medium	Nitrogen (N_2)
Max. charging pressure	175 Bar
Min. charging pressure	25 Bar
Rod seal area	1,13 cm²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit C25.1

ISO 11901 VDI 3003





Maximum strokes / minute (at 20°C)



Code	Smax mm	La mm	Lc mm	V l	Kg
TPC 25x7.1	7	56	49	0,004	0,13
TPC 25x10.1	10	62	52	0,005	0,14
TPC 25x13.1	13	67,4	54,7	0,006	0,14
TPC 25x15.1	15	72	57	0,006	0,15
TPC 25x16.1	16	74,3	58,3	0,007	0,15
TPC 25x25.1	25	92	67	0,010	0,16
TPC 25x38.1	38,1	118,2	80,1	0,014	0,19
TPC 25x50.1	50	142	92	0,019	0,21
TPC 25x63.1	63	172	109	0,022	0,25
TPC 25x80.1	80	205	125	0,028	0,26
TPC 25x100.1	100	245	145	0,035	0,29
TPC 25x125.1	125	295	170	0,046	0,33
TPC 25x160.1	160	373	213	0,057	0,37
TPC 25x175.1	175	403	228	0,062	0,40
TPC 25x200.1	200	453	253	0,071	0,43

Color code	Fa daN	90% F daN	P Bar
GR *(Green)*	50 (±5)	≈ 70	45
BL *(Blue)*	100 (±10)	≈ 135	90
RD *(Red)*	150 (±15)	≈ 205	135
YW *(Yellow)*	200 (±20)	≈ 265	175
(Other forces)	28 - 200	≈ 40 - 277	25 - 175

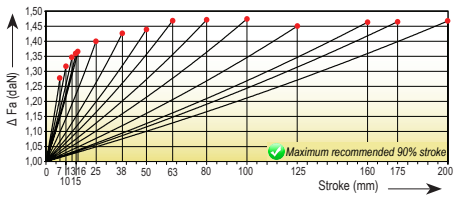
Der schwarze Farbcode kennzeichnet einen abweichenden Fülldruck, den Sie bei der Bestellung zwischen dem minimalen und maximalen Fülldruck wählen können. Ohne andere Angabe wird die Gasdruckfeder in der Ausführung mit gelbem Farbcode (YW) geliefert.

Bestellbeispiel

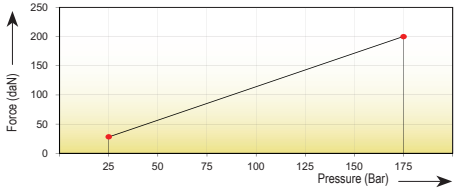
TPC 25 x 50.1 BL

Model | Stroke | Color code

Force/stroke ratio

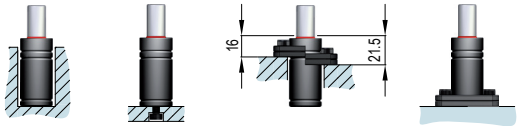


Initial force/charging pressure ratio



Einbaumöglichkeiten

Hinweise beachten Seite 287

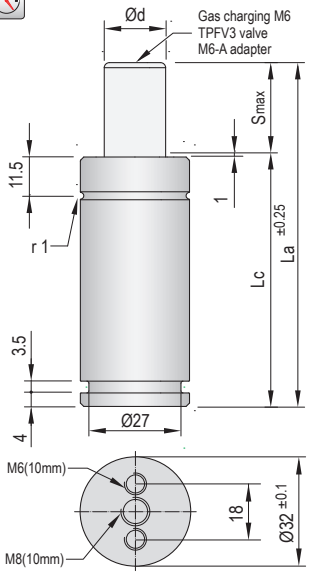


DROP-IN SCREWS FS 25/1·FS 25/2 FS 25/1·FS 25/2

TPC 350.1

VDI SAFETY

PED 2014/68/UE

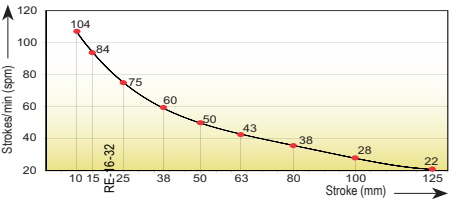


Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	35 Bar
Rod seal area	Ø16 - 2,01cm² Ø18 - 2,54cm²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Ø18mm - Kit C350.1/18 Ø16mm - Kit C350.1/16



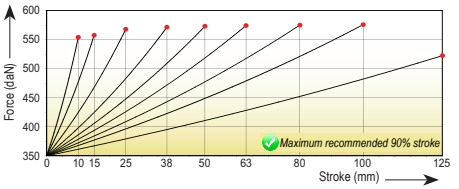


Maximum strokes / minute (at 20°C)

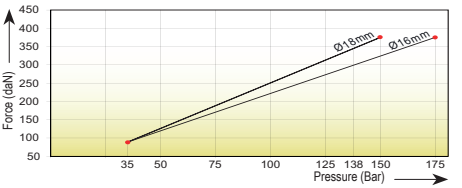


Code	Smax mm	La mm	Lc mm	Ød mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPC 350x10.1	10	70	60	18	350 ±5% (20°C)	520	550	138 (20°C)	0,007	0,28
TPC 350x15.1	15	80	65	18		525	555		0,010	0,30
TPC 350x25.1	25	100	75	18		535	565		0,017	0,32
TPC 350x38.1	38	126	88	18		535	570		0,025	0,36
TPC 350x50.1	50	150	100	18		537	570		0,033	0,40
TPC 350x63.1	63	176	113	18		540	570		0,041	0,44
TPC 350x80.1	80	210	130	18		540	575		0,052	0,50
TPC 350x100.1	100	250	150	18		540	575		0,065	0,57
TPC 350x125.1	125	300	175	16		500	520	175 (20°C)	0,076	0,65

Force/stroke ratio

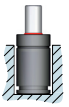


Initial force/charging pressure ratio

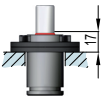


Einbaumöglichkeiten

Hinweise beachten
Seite 287

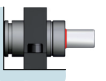

DROP-IN


SCREWS



FS 32·FSC 32/1


FP 32·FPR 32


FI 32·FI 32/1

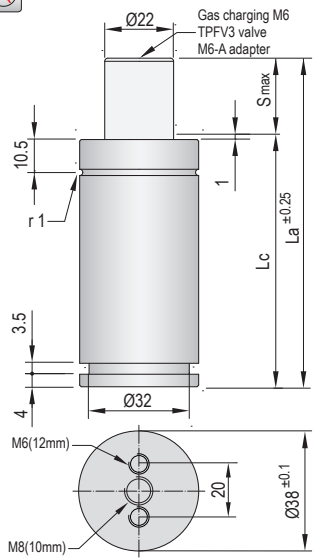
Pieper Normteile GmbH +++ www.pieper-normteile.de +++
Tel.: +49 (0) 7644.929588 +++ info@pieper-normteile.de

Ø38mm
500daN

TPC 500.1

VDI SAFETY

PED 2014/68/UE

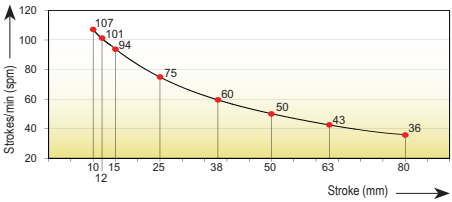


Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	35 Bar
Rod seal area	3,80 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit C500.1



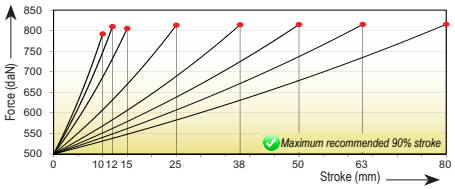


Maximum strokes / minute (at 20°C)

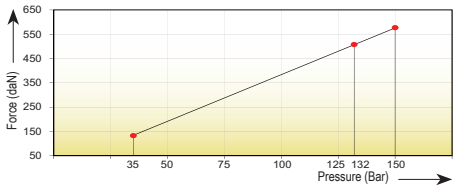


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPC 500x10.1	10	75	65		750	795		0,010	0,38
TPC 500x12.1	12	79	67		765	815		0,012	0,40
TPC 500x15.1	15	85	70		760	810		0,015	0,43
TPC 500x25.1	25	105	80	500 ±5%	770	815	132	0,025	0,45
TPC 500x38.1	38	131	93	(20°C)	770	815	(20°C)	0,037	0,52
TPC 500x50.1	50	155	105		770	820		0,049	0,55
TPC 500x63.1	63	186	123		770	820		0,062	0,62
TPC 500x80.1	80	220	140		770	820		0,079	0,69

Force/stroke ratio

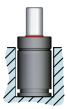


Initial force/charging pressure ratio

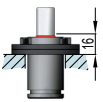


Einbaumöglichkeiten

Hinweise beachten Seite 287

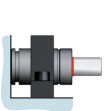

DROP-IN


SCREWS



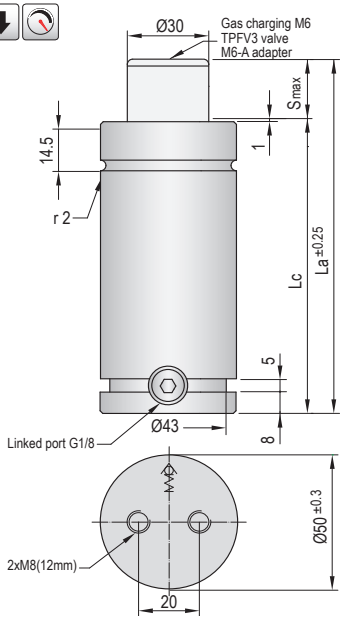
FS 38·FSC 38


FP 38·FPR 38

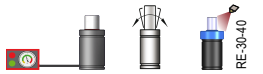

FI 38·FI 38/1

VDI SAFETY

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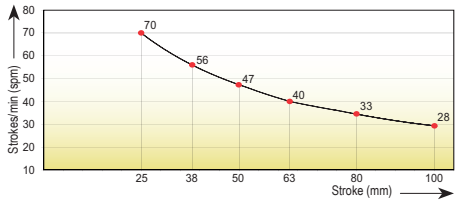


Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	35 Bar
Rod seal area	7,07 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,2 m/s
Maintenance kit	Kit C1000.1



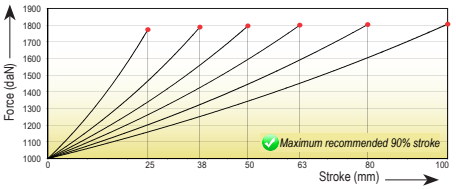


Maximum strokes / minute (at 20°C)

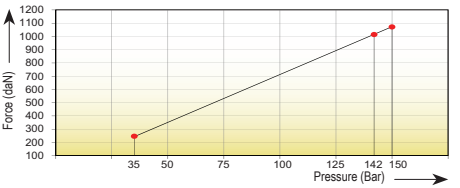


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPC 1000x25	25	135	110		1650	1780		0,041	1,20
TPC 1000x38	38	161	123		1665	1795		0,061	1,35
TPC 1000x50	50	185	135	1000 ±5%	1670	1800	142	0,080	1,46
TPC 1000x63	63	211	148	(20°C)	1675	1805	(20°C)	0,100	1,52
TPC 1000x80	80	245	165		1675	1810		0,127	1,73
TPC 1000x100	100	295	195		1680	1815		0,158	2,41

Force/stroke ratio

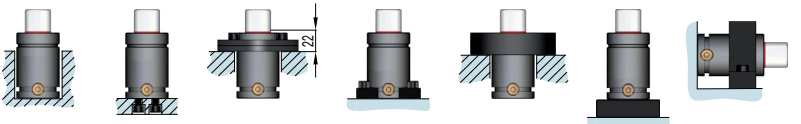


Initial force/charging pressure ratio



Einbaumöglichkeiten

Hinweise beachten
Seite 287



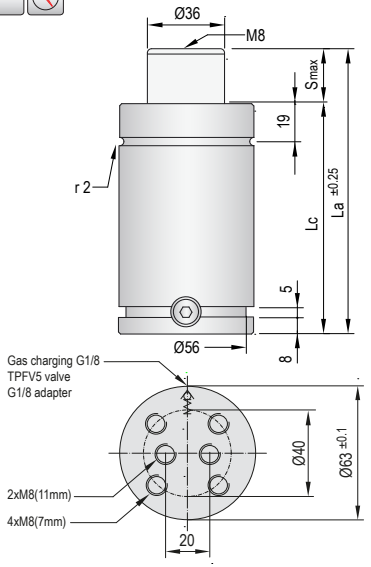
DROP-IN | SCREWS | FS 50·FSC 50 | FP 50·FPR 50 | FRS 50 | FB 45·FB 50 | FI 50·FI 50/1

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TPC 1500.1

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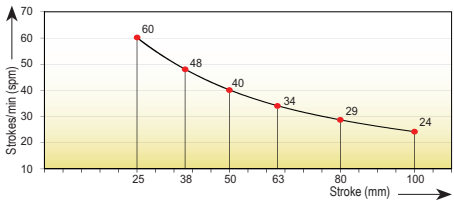


Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	35 Bar
Rod seal area	10,18 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit C1500.1



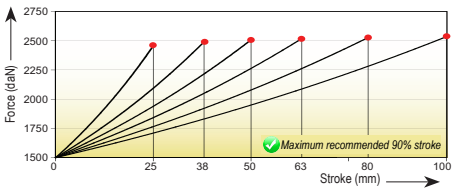


Maximum strokes / minute (at 20°C)

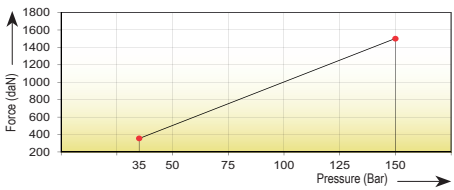


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPC 1500x25.1	25	135	110		2275	2420		0,065	1,86
TPC 1500x38.1	38	161	123		2300	2450		0,097	2,10
TPC 1500x50.1	50	185	135	1500 ±5%	2310	2470	148	0,127	2,25
TPC 1500x63.1	63	211	148	(20°C)	2320	2480	(20°C)	0,159	2,30
TPC 1500x80.1	80	245	165		2330	2485		0,200	2,55
TPC 1500x100.1	100	285	185		2335	2495		0,249	3,15

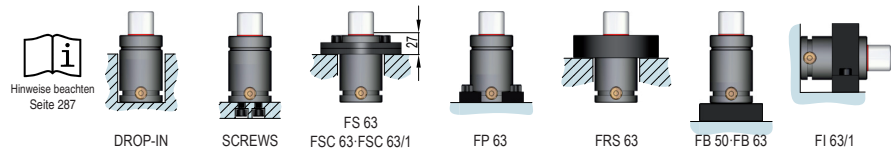
Force/stroke ratio



Initial force/charging pressure ratio

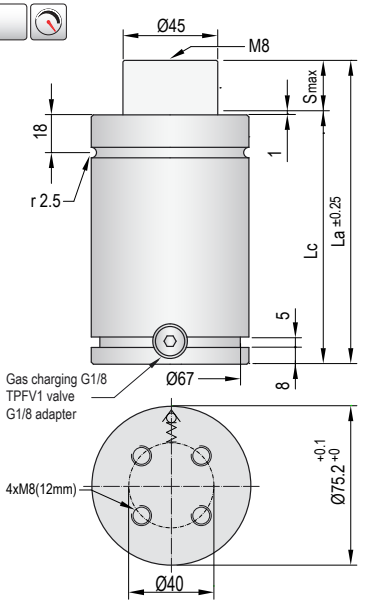


Einbaumöglichkeiten



VDI SAFETY

PED 2014/68/UE

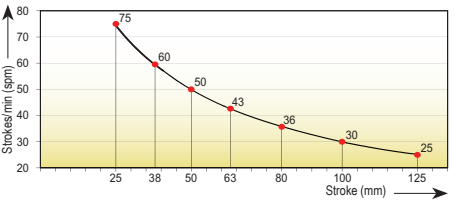


Pressure medium	Nitrogen (N_2)
Max. charging pressure	155 Bar
Min. charging pressure	35 Bar
Rod seal area	15,90 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit C2500



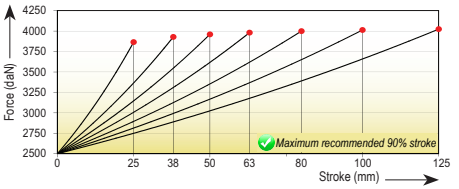


Maximum strokes / minute (at 20°C)

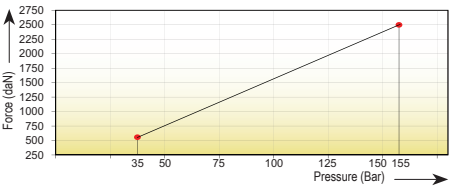


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPC 2500x25	25	145	120	2500 ±5% (20°C)	3655	3855	155 (20°C)	0,113	2,50
TPC 2500x38	38	171	133		3710	3920		0,167	3,25
TPC 2500x50	50	195	145		3735	3950		0,216	4,00
TPC 2500x63	63	221	158		3750	3975		0,270	4,40
TPC 2500x80	80	255	175		3765	3990		0,340	5,05
TPC 2500x100	100	300	200		3780	4005		0,422	5,55
TPC 2500x125	125	350	225		3785	4020		0,525	5,98

Force/stroke ratio

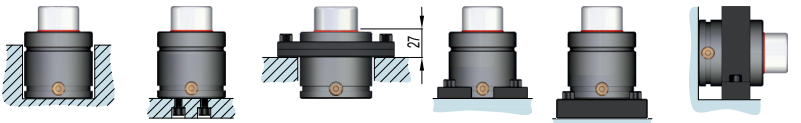


Initial force/charging pressure ratio



Einbaumöglichkeiten

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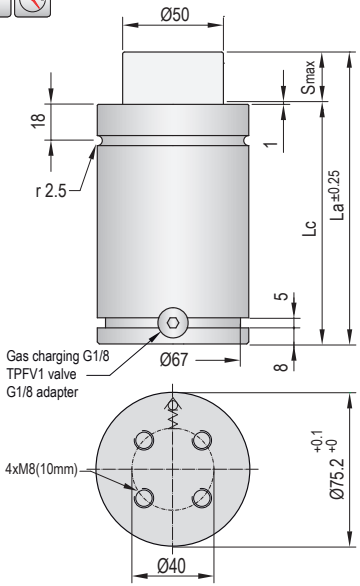
DROP-IN | SCREWS | FS 75·FSC 75 | FP 75·FPR 75 | FB 75 | FI 75·FI 75/1

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TPC 3000

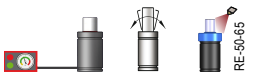
VDI SAFETY

PED 2014/68/UE

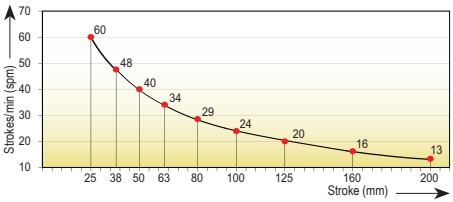


Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	35 Bar
Rod seal area	19,63 cm²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	0,8 m/s
Maintenance kit	Kit C3000



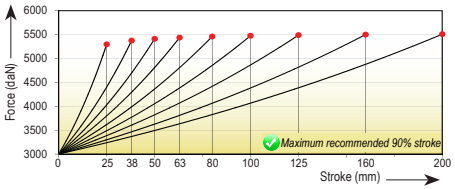


Maximum strokes / minute (at 20°C)

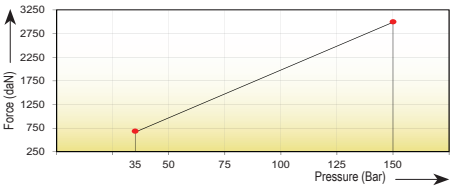


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPC 3000x25	25	145	120		4925	5305		0,113	2,70
TPC 3000x38	38	171	133		4990	5380		0,169	3,30
TPC 3000x50	50	195	145		5015	5420		0,221	4,10
TPC 3000x63	63	221	158	3000 ±5% (20°C)	5035	5445	150 (20°C)	0,276	4,50
TPC 3000x80	80	255	175		5055	5470		0,349	5,10
TPC 3000x100	100	300	200		5065	5485		0,434	5,90
TPC 3000x125	125	350	225		5075	5495		0,541	6,50
TPC 3000x160	160	425	265		5085	5510		0,691	7,40
TPC 3000x200	200	510	310		5090	5515		0,862	7,85

Force/stroke ratio

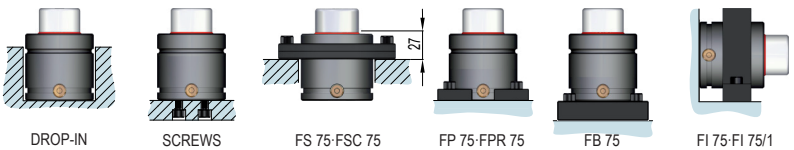


Initial force/charging pressure ratio



Einbaumöglichkeiten

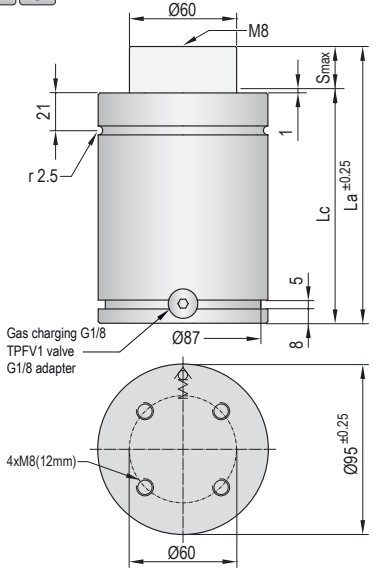
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DROP-IN | SCREWS | FS 75·FSC 75 | FP 75·FPR 75 | FB 75 | FI 75·FI 75/1

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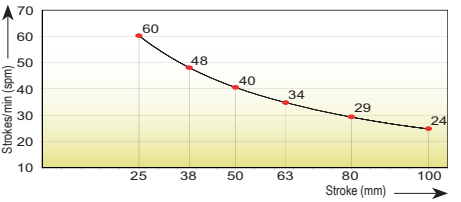


Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	35 Bar
Rod seal area	28,27 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit C4000



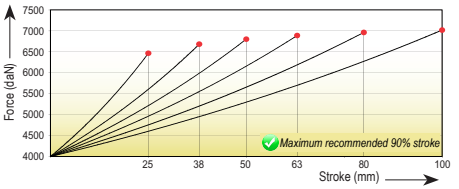


Maximum strokes / minute (at 20°C)

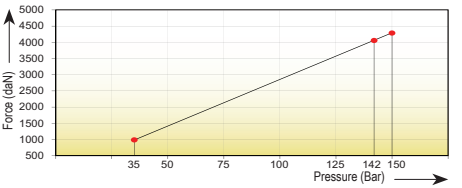


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPC 4000x25	25	155	130		6115	6490		0,185	4,20
TPC 4000x38	38	181	143		6285	6705		0,268	4,90
TPC 4000x50	50	205	155	4000 ±5%	6380	6830	142	0,343	5,30
TPC 4000x63	63	236	173	(20°C)	6450	6915	(20°C)	0,425	6,10
TPC 4000x80	80	270	190		6505	6990		0,532	7,20
TPC 4000x100	100	310	210		6550	7045		0,657	7,80

Force/stroke ratio

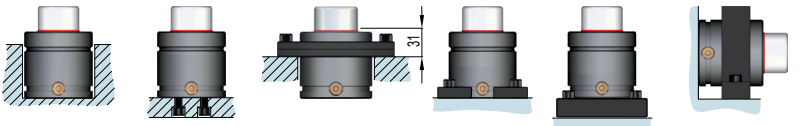


Initial force/charging pressure ratio



Einbaumöglichkeiten

Hinweise beachten
Seite 287



DROP-IN | SCREWS | FS 95·FSC 95 | FP 95·FPR 95 | FB 95 | FI 95·FI 95/1

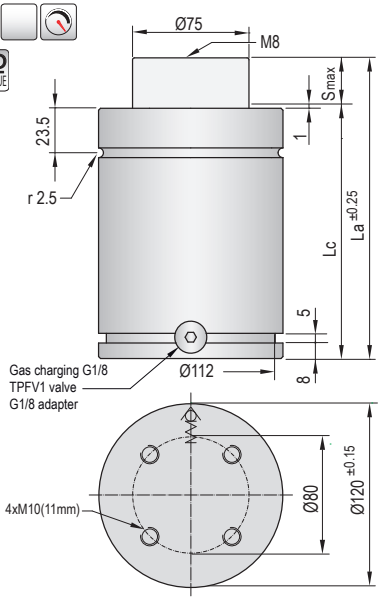
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Ø120mm
6500daN

TPC 6500

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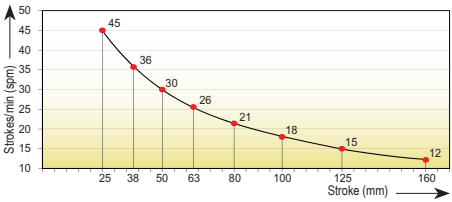


Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	35 Bar
Rod seal area	44,18 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit C6500



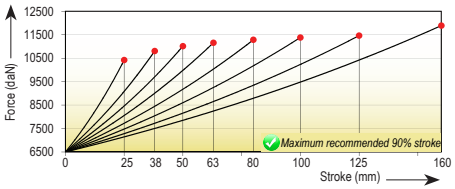


Maximum strokes / minute (at 20°C)

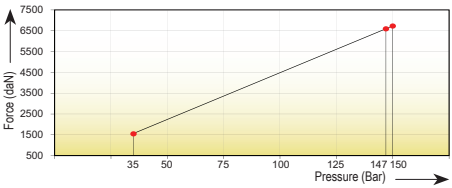


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPC 6500x25	25	165	140	6500 ±5% (20°C)	9820	10400	147 (20°C)	0,294	9,45
TPC 6500x38	38	191	153		10125	10800		0,421	10,05
TPC 6500x50	50	215	165		10290	11000		0,539	10,75
TPC 6500x63	63	241	178		10405	11150		0,667	11,67
TPC 6500x80	80	275	195		10500	11275		0,834	12,28
TPC 6500x100	100	315	215		10580	11375		1,030	13,35
TPC 6500x125	125	375	250		10640	11455		1,275	14,29
TPC 6500x160	160	450	290		10970	11880		1,559	17,53

Force/stroke ratio

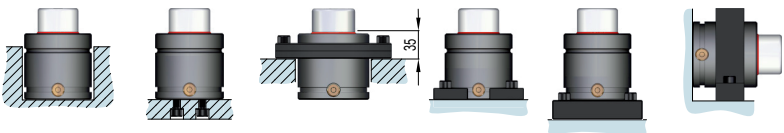


Initial force/charging pressure ratio



Einbaumöglichkeiten

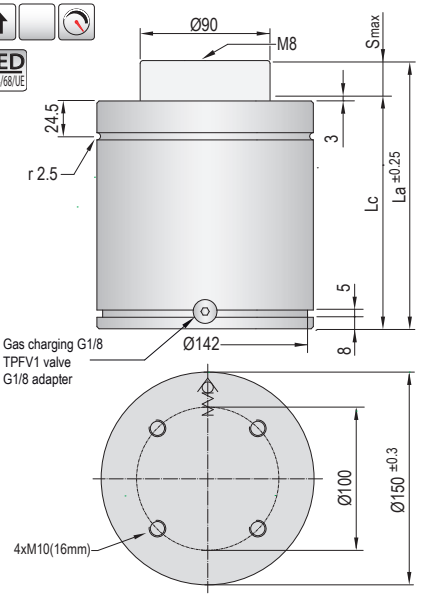
Hinweise beachten Seite 287



DROP-IN | SCREWS | FS 120·FSC 120 | FP 120·FPR 120 | FB 120 | FI 120·FI 120/1

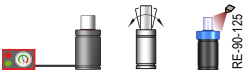
VDI SAFETY

PED 2014/68/UE

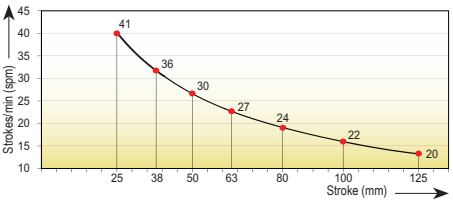


Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	35 Bar
Rod seal area	63,62 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit C10000



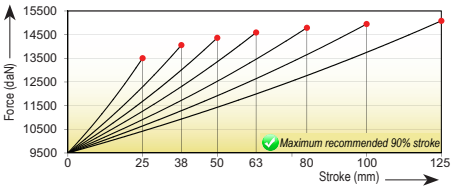


Maximum strokes / minute (at 20°C)

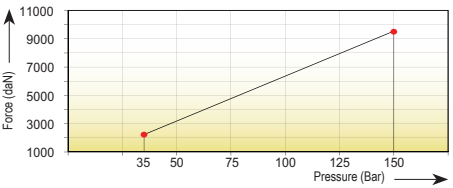


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPC 10000x25	25	186	161	9500 ±5% (20°C)	13020	13570	150 (20°C)	0,536	19,70
TPC 10000x38	38	212	174		13475	14120		0,745	21,70
TPC 10000x50	50	236	186		13730	14430		0,939	22,90
TPC 10000x63	63	262	199		13910	14655		1,149	24,10
TPC 10000x80	80	296	216		14075	14860		1,422	26,40
TPC 10000x100	100	336	236		14200	15015		1,745	29,60
TPC 10000x125	125	386	261		14310	15150		2,148	31,50

Force/stroke ratio

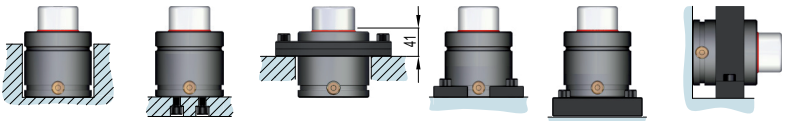


Initial force/charging pressure ratio



Einbaumöglichkeiten

Hinweise beachten
Seite 287



DROP-IN | SCREWS | FS 150·FSC 150 | FP 150·FPR 150 | FB 150 | FI 150·FI 150/1

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