PED 2014/68/UE

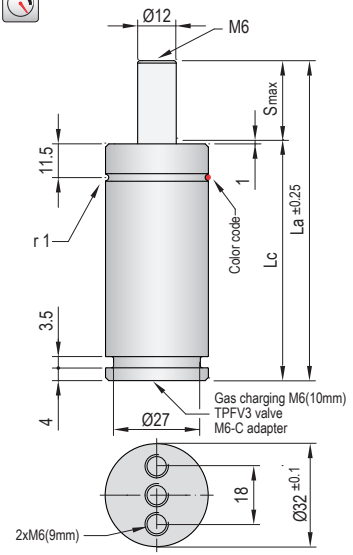


ISO-Gasdruckfedern

Code	ØBody mm	Strokes mm	Fa daN		VDI SAFETY			ISO STANDARD
TPS 32.2	32	10 - 125	200	√	√			√
TPS 250.2	38	10 - 125	250	√	√	√	√	√
TPS 500.2	45	10 - 160	470	√	√	√	√	√
TPS 750	50	13 - 300	740	√	√	√	√	√
TPS 1500.2	75	13 - 300	1500	√	√	√	√	√
TPS 3000.1	95	25 - 300	3000	√	√	√	√	√
TPS 5000	120	25 - 300	5000	√	√	√	√	√
TPS 7500	150	25 - 300	7500	√	√	√	√	√
TPS 10000	195	25 - 200	10000	√	√	√		√

VDI SAFETY

PED 2014/68/UE



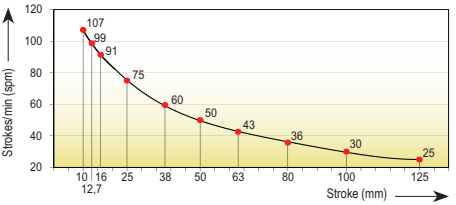
Pressure medium	Nitrogen (N_2)
Max. charging pressure	175 Bar
Min. charging pressure	25 Bar
Rod seal area	1,13 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit S32.2

ISO 11901 · VDI 3003 · E.24.54.815.G





Maximum strokes / minute (at 20°C)



Code	Smax mm	La mm	Lc mm	V l	Kg
TPS 32x10.2	10	70	60	0,006	0,30
TPS 32x13.2	12,7	75,4	62,7	0,007	0,32
TPS 32x16.2	16	82	66	0,008	0,33
TPS 32x25.2	25	100	75	0,011	0,37
TPS 32x38.2	38	126	88	0,015	0,42
TPS 32x50.2	50	150	100	0,019	0,47
TPS 32x63.2	63	177	114	0,024	0,52
TPS 32x80.2	80	210	130	0,030	0,60
TPS 32x100.2	100	250	150	0,037	0,75
TPS 32x125.2	125	300	175	0,045	0,85

Color code	Fa daN	90% F daN	P Bar
GR *(Green)*	50 (±5)	≈ 65	45
BL *(Blue)*	100 (±10)	≈ 135	90
RD *(Red)*	150 (±15)	≈ 200	135
YW *(Yellow)*	200 (±20)	≈ 260	175
(Other forces)	28 - 200	≈ 40 - 260	25 - 175

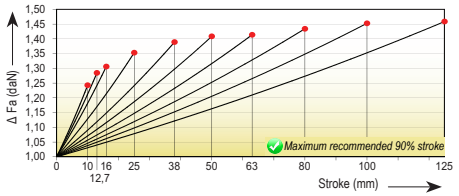
Der schwarze Farbcode kennzeichnet einen abweichenden Fülldruck, den Sie bei der Bestellung zwischen dem minimalen und maximalen Fülldruck wählen können. Ohne andere Angabe wird die Gasdruckfeder in der Ausführung mit gelbem Farbcode (YW) geliefert.

Bestellbeispiel

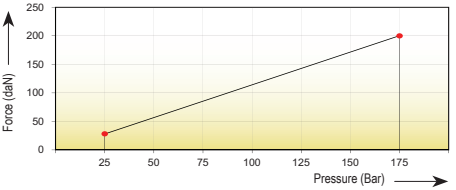
TPS 32 x 63.2 RD

Model · Stroke · Color code

Force/stroke ratio

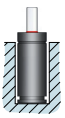


Initial force/charging pressure ratio

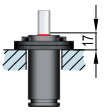


Einbaumöglichkeiten

Hinweise beachten Seite 287

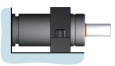

DROP-IN


SCREWS



FS 32
FS 32/1·FSC 32


FP 32·FPR 32

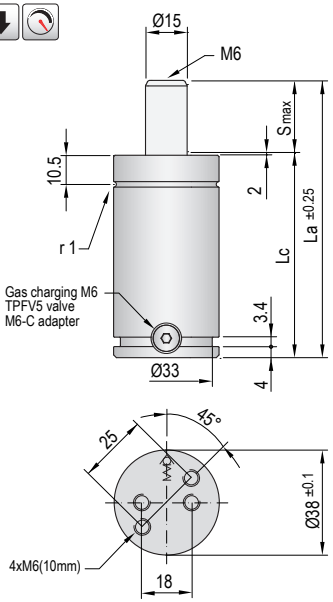

FI 32·FI 32/1

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

TPS 250.2

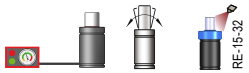
VDI SAFETY

PED 2014/68/UE



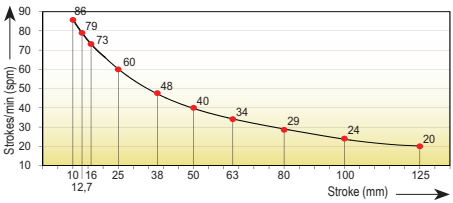
Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	50 Bar
Rod seal area	1,77 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit S250.2

VDI 3003 · ISO 11901 · CNOMO E.24.54.815.G



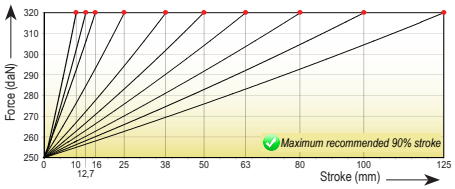


Maximum strokes / minute (at 20°C)

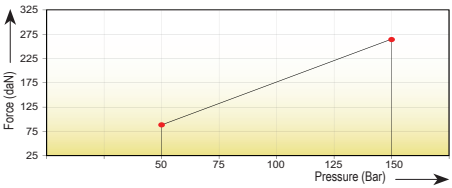


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPS 250x10.2	10	70	60		315	320		0,012	0,43
TPS 250x13.2	12,7	75,4	62,7		310	320		0,014	0,44
TPS 250x16.2	16	82	66		310	320		0,017	0,46
TPS 250x25.2	25	100	75		310	320		0,024	0,51
TPS 250x38.2	38	126	88	250 ±5%	310	320	142	0,035	0,59
TPS 250x50.2	50	150	100	(20°C)	310	320	(20°C)	0,044	0,66
TPS 250x63.2	63	177	114		310	320		0,055	0,73
TPS 250x80.2	80	210	130		310	320		0,068	0,83
TPS 250x100.2	100	250	150		310	320		0,085	0,96
TPS 250x125.2	125	300	175		310	320		0,105	1,05

Force/stroke ratio



Initial force/charging pressure ratio

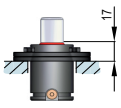


Einbaumöglichkeiten

Hinweise beachten Seite 287

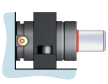

DROP-IN


SCREWS



FS 38·FSC 38

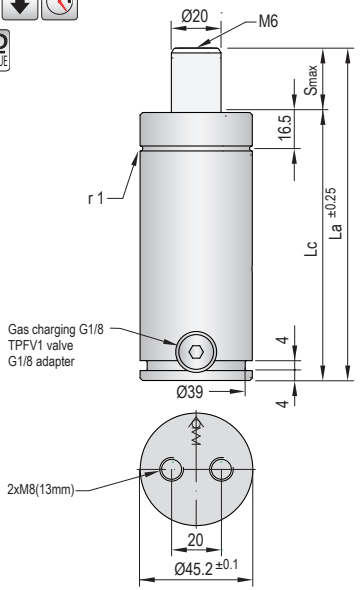

FP 38·FPR 38


FI 38·FI 38/1

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

VDI SAFETY

PED 2014/68/UE



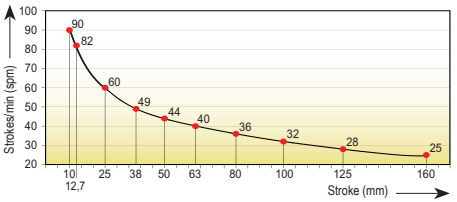
Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	35 Bar
Rod seal area	3,14 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit S500.2

VDI 3003 · ISO 11901 · E.24.54.815.G



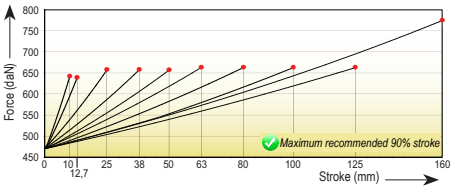


Maximum strokes / minute (at 20°C)

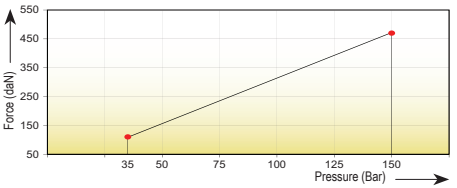


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPS 500x10.2	10	105	95		620	645		0,016	0,43
TPS 500x13.2	12,7	110,4	97,7		620	645		0,019	0,44
TPS 500x25.2	25	135	110		630	655		0,032	0,46
TPS 500x38.2	38	161	123		630	655		0,046	0,51
TPS 500x50.2	50	185	135	470 ±5%	630	655	150	0,060	0,59
TPS 500x63.2	63	212	149	(20°C)	635	660	(20°C)	0,074	0,66
TPS 500x80.2	80	245	165		635	660		0,092	0,73
TPS 500x100.2	100	285	185		635	660		0,114	0,83
TPS 500x125.2	125	335	210		635	660		0,142	0,96
TPS 500x160.2	160	405	245		725	775		0,133	1,05

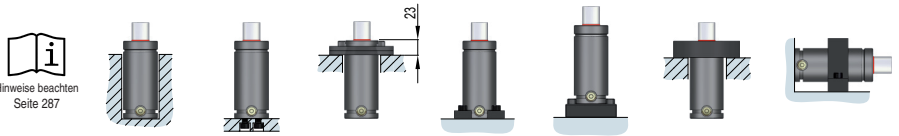
Force/stroke ratio



Initial force/charging pressure ratio



Einbaumöglichkeiten

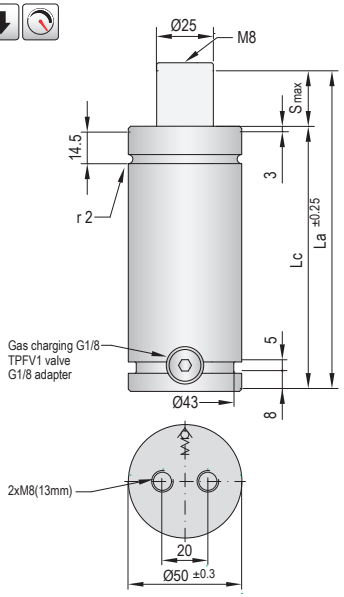


Ø50mm
740daN

TPS 750

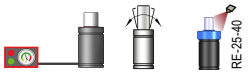
VDI SAFETY

PED 2014/68/UE



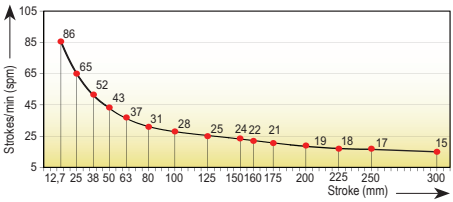
Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	35 Bar
Rod seal area	4,91 cm²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit S750

VDI 3003 · ISO 11901 · CNOMO E.24.54.815.G



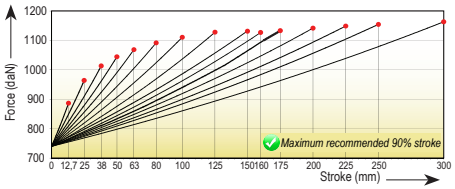


Maximum strokes / minute (at 20°C)

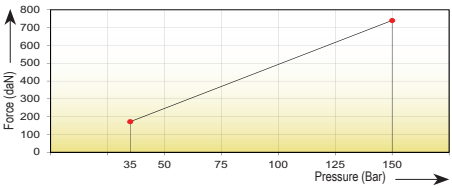


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPS 750x13	12,7	120,4	107,7	740 ±5% (20°C)	865	880	150 (20°C)	0,037	1,20
TPS 750x25	25	145	120		930	960		0,053	1,35
TPS 750x38	38	171	133		975	1010		0,069	1,40
TPS 750x50	50	195	145		1000	1040		0,084	1,52
TPS 750x63	63	222	159		1020	1065		0,101	1,70
TPS 750x80	80	255	175		1035	1085		0,122	1,82
TPS 750x100	100	295	195		1055	1105		0,147	1,85
TPS 750x125	125	345	220		1065	1120		0,178	2,20
TPS 750X150	150	395	245		1075	1135		0,210	2,25
TPS 750X160	160	415	255		1065	1120		0,229	2,30
TPS 750X175	175	445	270		1070	1130		0,248	2,65
TPS 750X200	200	495	295		1080	1135		0,279	3,10
TPS 750X225	225	545	320		1085	1145		0,310	3,27
TPS 750X250	250	595	345		1090	1150		0,342	3,60
TPS 750X300	300	695	395		1095	1160		0,405	4,15

Force/stroke ratio

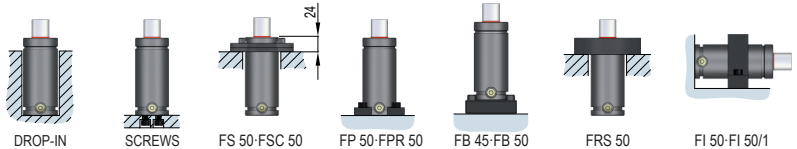


Initial force/charging pressure ratio



Einbaumöglichkeiten

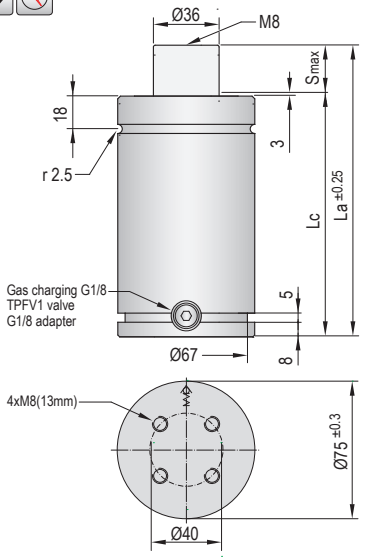
Hinweise beachten Seite 287



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

VDI SAFETY

PED 2014/68/UE



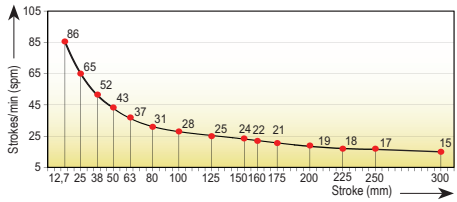
Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	35 Bar
Rod seal area	10,18 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit S1500.2

VDI 3003 · ISO 11901 · E.24.54.815.G



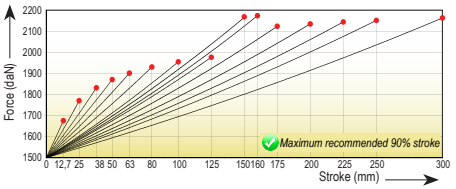


Maximum strokes / minute (at 20°C)

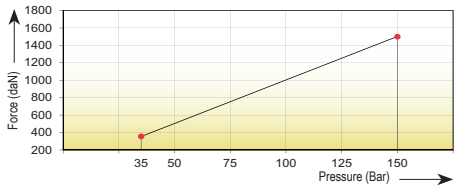


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPS 1500x13.2	12,7	135,4	122,7	1500 ±5% (20°C)	1665	1685	148 (20°C)	0,123	3,15
TPS 1500x25.2	25	160	135		1745	1780		0,167	3,30
TPS 1500x38.2	38	186	148		1800	1840		0,214	3,50
TPS 1500x50.2	50	210	160		1835	1880		0,257	3,65
TPS 1500x63.2	63	237	174		1860	1910		0,304	3,90
TPS 1500x80.2	80	270	190		1885	1940		0,365	4,45
TPS 1500x100.2	100	310	210		1905	1965		0,437	4,80
TPS 1500x125.2	125	360	235		1925	1985		0,494	5,36
TPS 1500X150.2	150	410	260		2090	2180		0,530	5,80
TPS 1500x160.2	160	430	270		2090	2185		0,540	6,10
TPS 1500x175.2	175	460	285		2050	2135		0,606	6,55
TPS 1500x200.2	200	510	310		2060	2145		0,684	7,15
TPS 1500x225.2	225	560	335		2065	2155		0,762	7,45
TPS 1500x250.2	250	610	360		2070	2160		0,840	7,86
TPS 1500x300.2	300	710	410		2080	2175		0,996	8,66

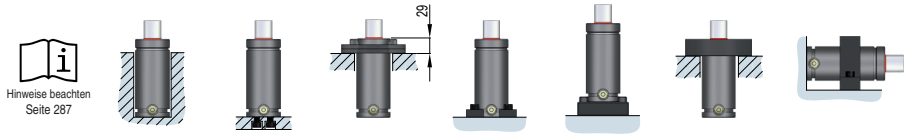
Force/stroke ratio



Initial force/charging pressure ratio

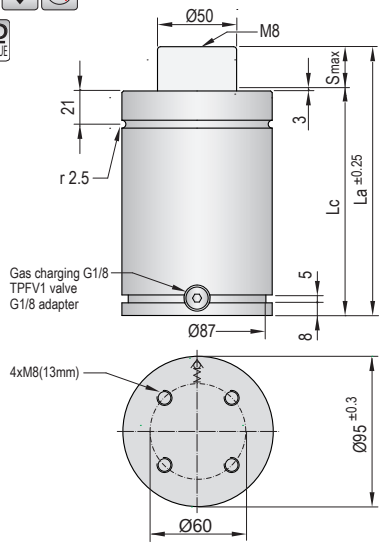


Einbaumöglichkeiten



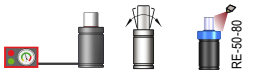
VDI SAFETY

PED 2014/68/UE



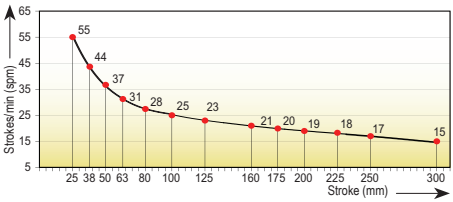
Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	35 Bar
Rod seal area	19,63 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit S3000.1

VDI 3003 · ISO 11901 · CNOMO E.24.54.815.G



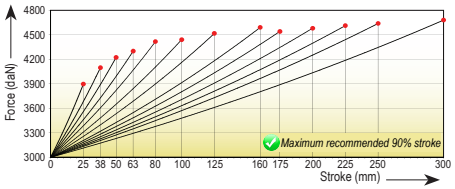


Maximum strokes / minute (at 20°C)

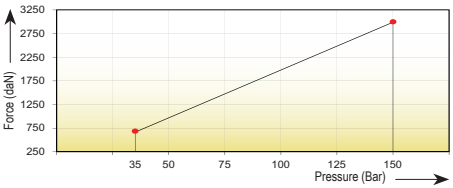


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPS 3000x25.1	25	170	145	3000 ±5% (20°C)	3790	3900	150 (20°C)	0,213	5,75
TPS 3000x38.1	38	196	158		3960	4105		0,279	6,15
TPS 3000x50.1	50	220	170		4065	4230		0,339	6,53
TPS 3000x63.1	63	247	184		4045	4220		0,409	6,91
TPS 3000x80.1	80	280	200		4225	4420		0,490	7,25
TPS 3000x100.1	100	320	220		4245	4445		0,605	8,00
TPS 3000x125.1	125	370	245		4305	4520		0,731	8,15
TPS 3000x160.1	160	440	280		4365	4595		0,907	9,24
TPS 3000x175.1	175	470	295		4325	4545		1,013	9,60
TPS 3000x200.1	200	520	320		4355	4585		1,138	10,31
TPS 3000x225.1	225	570	345		4385	4620		1,264	11,36
TPS 3000x250.1	250	620	370		4405	4645		1,390	11,90
TPS 3000x300.1	300	720	420		4440	4685		1,641	14,87

Force/stroke ratio

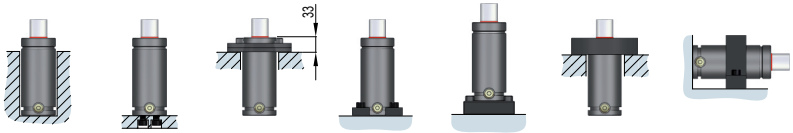


Initial force/charging pressure ratio



Einbaumöglichkeiten

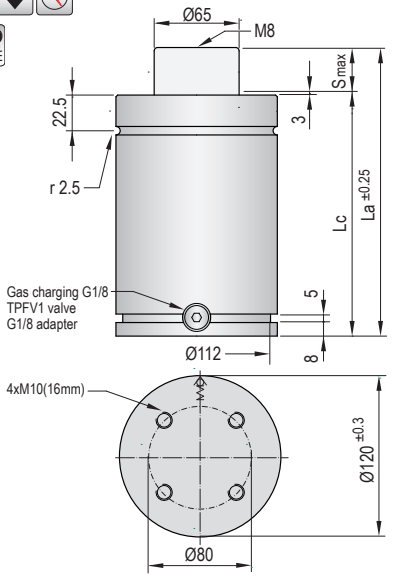
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DROP-IN · SCREWS · FS 95·FSC 95 · FP 95·FPR 95 · FB 95 · FRS 95 · FI 95·FI 95/1

VDI SAFETY

PED 2014/68/UE



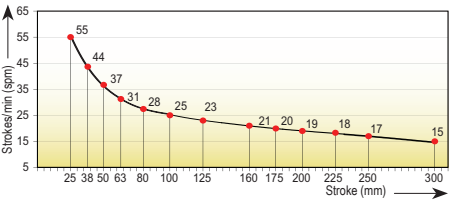
Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	35 Bar
Rod seal area	33,18 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit S5000

VDI 3003 · ISO 11901 · CNOMO E.24.54.815.G



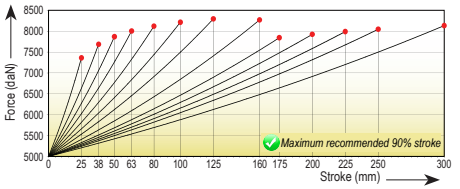


Maximum strokes / minute (at 20°C)

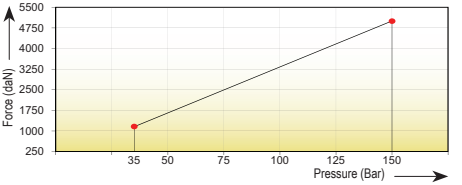


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPS 5000x25	25	190	165	5000 ±5% (20°C)	7000	7330	150 (20°C)	0,258	12,01
TPS 5000x38	38	216	178		7265	7655		0,361	12,85
TPS 5000x50	50	240	190		7410	7835		0,455	13,60
TPS 5000x63	63	267	204		7515	7970		0,557	14,50
TPS 5000x80	80	300	220		7610	8085		0,690	15,39
TPS 5000x100	100	340	240		7685	8180		0,847	16,48
TPS 5000x125	125	390	265		7750	8260		1,044	18,05
TPS 5000x160	160	460	300		7730	8235		1,342	19,83
TPS 5000x175	175	490	315		7390	7810		1,601	20,11
TPS 5000x200	200	540	340		7455	7890		1,798	21,70
TPS 5000x225	225	590	365		7505	7955		1,994	22,60
TPS 5000x250	250	640	390		7550	8010		2,191	23,85
TPS 5000x300	300	740	440		7620	8100		2,583	25,60

Force/stroke ratio

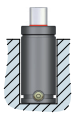


Initial force/charging pressure ratio

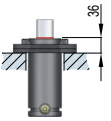


Einbaumöglichkeiten

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DROP-IN

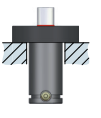

SCREWS

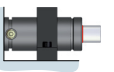


FS 120·FSC 120


FP 120·FPR 120


FB 120


FRS 120

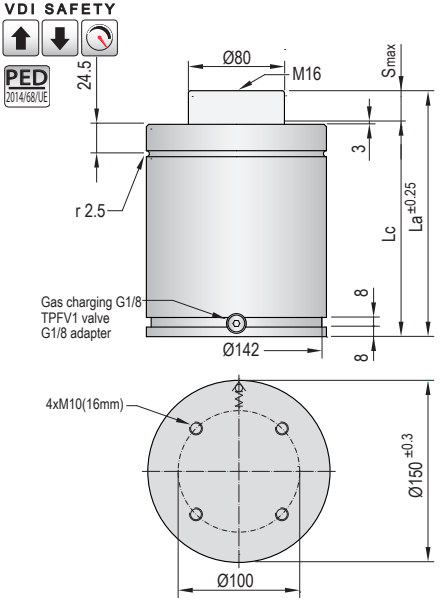

FI 120·FI 120/1

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Ø150mm
7500daN

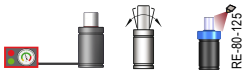
TPS 7500

VDI SAFETY

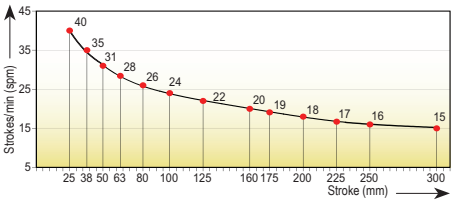


Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	35 Bar
Rod seal area	50,27 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit S7500

VDI 3003 · ISO 11901 · E.24.54.815.G

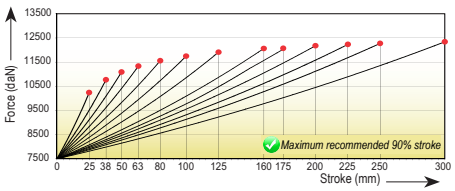


Maximum strokes / minute (at 20°C)

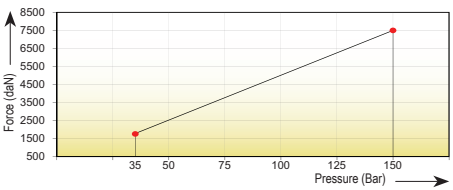


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPS 7500x25	25	205	180	7500 ±5% (20°C)	9935	10295	150 (20°C)	0,469	19,50
TPS 7500x38	38	231	193		10375	10830		0,629	20,60
TPS 7500x50	50	255	205		10640	11150		0,776	21,50
TPS 7500x63	63	282	219		10845	11400		0,936	22,30
TPS 7500x80	80	315	235		11030	11625		1,144	23,70
TPS 7500x100	100	355	255		11180	11815		1,390	25,40
TPS 7500x125	125	405	280		11310	11975		1,697	27,00
TPS 7500x160	160	475	315		11430	12130		2,126	30,60
TPS 7500x175	175	505	330		11470	12175		2,310	31,40
TPS 7500x200	200	555	355		11525	12245		2,617	37,40
TPS 7500x225	225	605	380		11565	12295		2,924	35,60
TPS 7500x250	250	655	405		11600	12340		3,230	37,40
TPS 7500x300	300	755	455		11655	12405		3,844	40,10

Force/stroke ratio

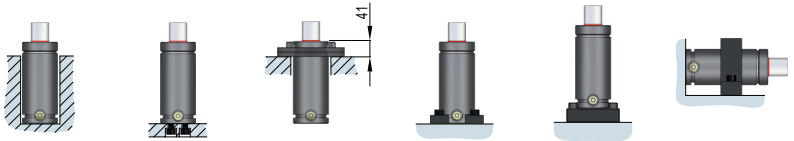


Initial force/charging pressure ratio



Einbaumöglichkeiten

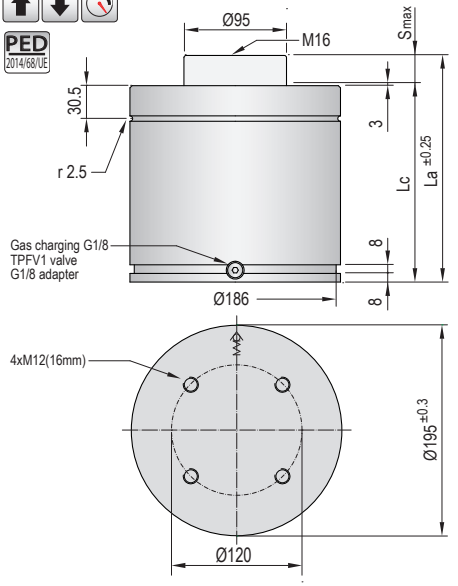
Hinweise beachten Seite 287



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

VDI SAFETY

PED 2014/68/UE



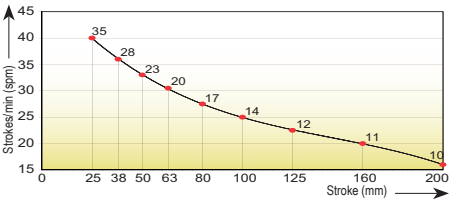
Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	35 Bar
Rod seal area	70,88 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit S10000

VDI 3003 · ISO 11901 · E.24.54.815.G





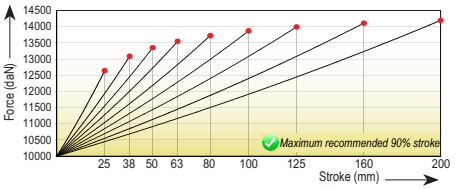
Maximum strokes / minute (at 20°C)



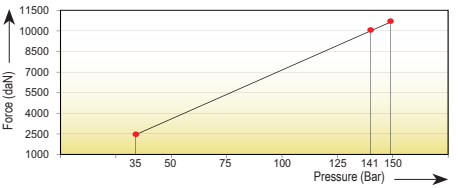
Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPS 10000x25	25	210	185	10000 ±5% (20°C)	12310	12635	141 (20°C)	0,848	35,60
TPS 10000x38	38	236	198		12690	13085		1,141	37,30
TPS 10000x50	50	260	210		12910	13345		1,412	39,10
TPS 10000x63	63	287	224		13075	13540		1,705	41,20
TPS 10000x80	80	320	240		13225	13720		2,089	43,50
TPS 10000x100	100	360	260		13345	13865		2,540	46,10
TPS 10000x125	125	410	285		13450	13985		3,104	50,50
TPS 10000x160	160	480	320		13545	14100		3,894	55,90
TPS 10000x200	200	560	360		13615	14190		4,797	61,30

(Andere Hübe auf Anfrage)

Force/stroke ratio

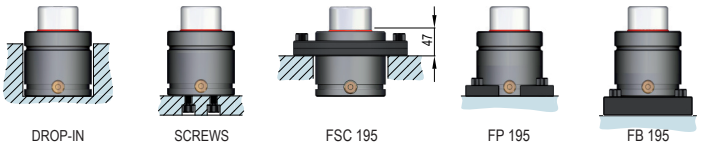


Initial force/charging pressure ratio



Einbaumöglichkeiten

Hinweise beachten
Seite 287



DROP-IN · SCREWS · FSC 195 · FP 195 · FB 195

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