PED 2014/68/UE



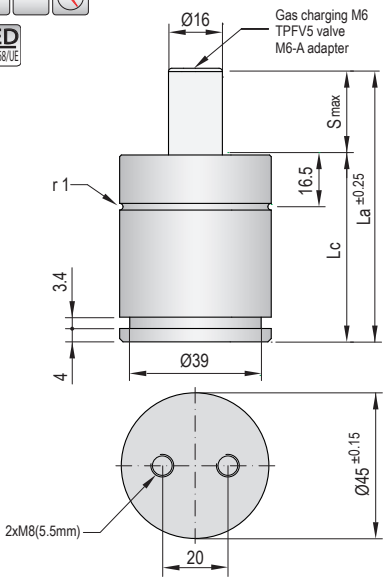
Gasdruckfedern mit geringer Kompression

Code	ØBody mm	Strokes mm	Fa daN		VDI SAFETY	
TPB 350	45	13 - 100	350	√	√	
TPB 850.1	63	13 - 100	850	√	√	√
TPB 750	75	13 - 300	740	√	√	√
TPB 1250	75	25 - 100	1250	√	√	√
TPB 1500	95	13 - 300	1500	√	√	√
TPB 1800	95	25 - 100	1800	√	√	√
TPB 2800	120	25 - 100	2800	√	√	√
TPB 3000	120	25 - 300	3000	√	√	√
TPB 5000	150	25 - 300	5000	√	√	√

TPB 350

VDI SAFETY

PED 2014/68/UE

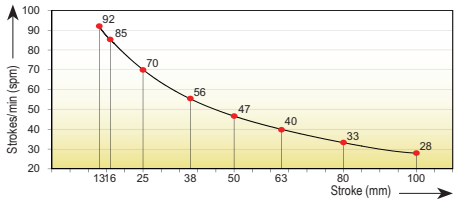


Pressure medium	Nitrogen (N_2)
Max. charging pressure	175 Bar
Min. charging pressure	25 Bar
Rod seal area	2,01 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,2 m/s
Maintenance kit	Kit B350.1



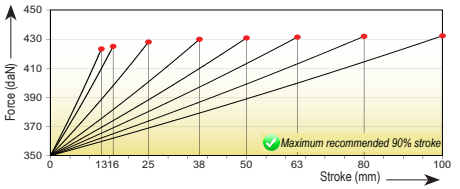


Maximum strokes / minute (at 20°C)

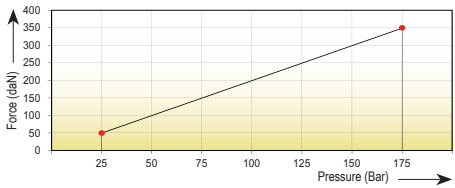


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPB 350x13	13	58	45	350 ±5% (20°C)	415	425	175 (20°C)	0,015	0,34
TPB 350x16	16	64	48		420	425		0,018	0,38
TPB 350x25	25	82	57		420	430		0,028	0,39
TPB 350x38	38	108	70		425	430		0,041	0,43
TPB 350x50	50	132	82		425	435		0,054	0,46
TPB 350x63	63	158	95		425	435		0,067	0,49
TPB 350x80	80	192	112		425	435		0,085	0,57
TPB 350x100	100	232	132		425	435		0,106	0,63

Force/stroke ratio

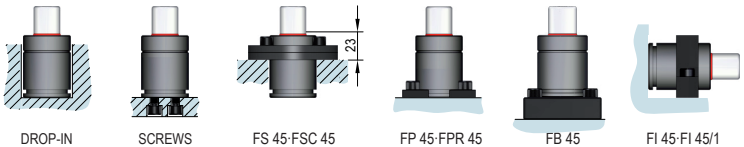


Initial force/charging pressure ratio



Einbaumöglichkeiten

Hinweise beachten
Seite 287



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

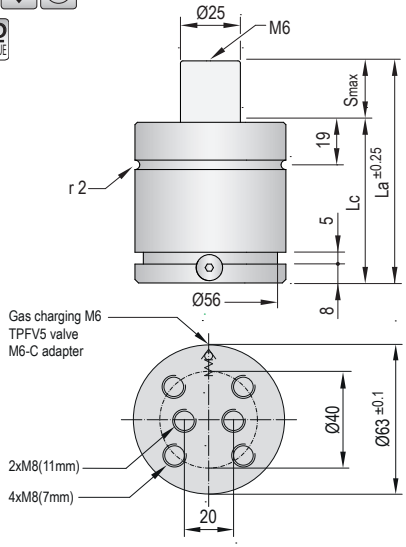
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Ø63mm · Geringe Kompression
850daN

TPB 850.1

VDI SAFETY

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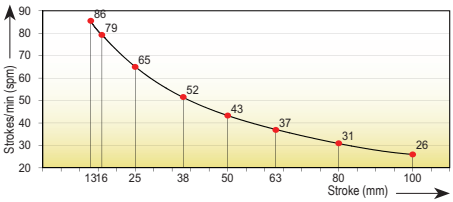


Pressure medium	Nitrogen (N_2)
Max. charging pressure	175 Bar
Min. charging pressure	35 Bar
Rod seal area	4,91 cm²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,2 m/s
Maintenance kit	Kit B850.1



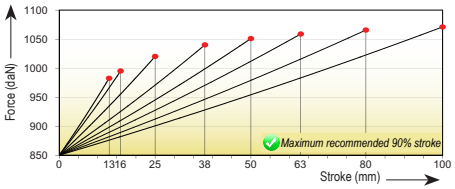


Maximum strokes / minute (at 20°C)

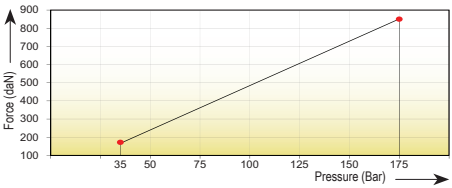


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPB 850x13.1	13	70	57	850 ±5% (20°C)	980	995	175 (20°C)	0,047	0,92
TPB 850x16.1	16	76	60		990	1005		0,054	0,95
TPB 850x25.1	25	94	69		1010	1030		0,074	1,24
TPB 850x38.1	38	120	82		1030	1050		0,102	1,32
TPB 850x50.1	50	144	94		1040	1060		0,128	1,37
TPB 850x63.1	63	170	107		1045	1070		0,157	1,52
TPB 850x80.1	80	204	124		1050	1075		0,194	1,68
TPB 850x100.1	100	244	144		1055	1080		0,238	1,80

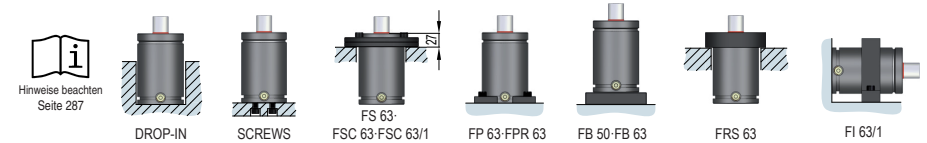
Force/stroke ratio



Initial force/charging pressure ratio

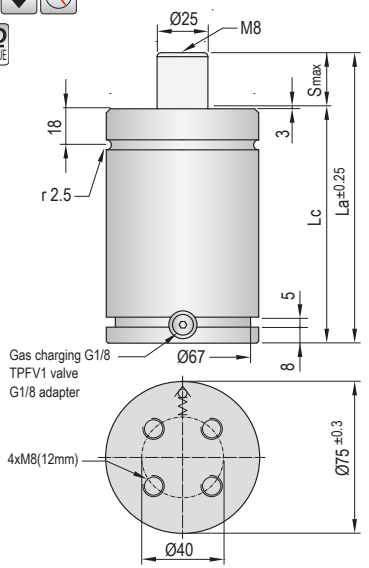


Einbaumöglichkeiten



VDI SAFETY

PED 2014/68/UE

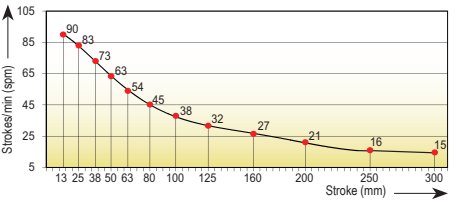


Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	35 Bar
Rod seal area	4,91 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit B750



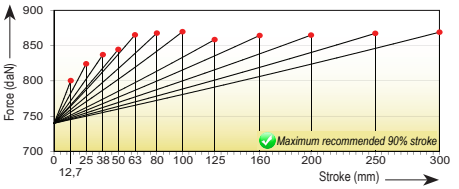


Maximum strokes / minute (at 20°C)

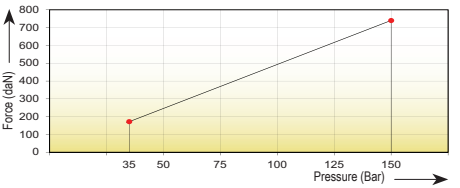


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPB 750x13	12,7	120,4	107,7	740 ±5% (20°C)	790	795	150 (20°C)	0,083	3,00
TPB 750x25	25	145	120		810	820		0,120	3,15
TPB 750x38	38	171	133		820	835		0,161	3,35
TPB 750x50	50	195	145		830	840		0,198	3,50
TPB 750x63	63	222	159		845	860		0,214	3,75
TPB 750x80	80	255	175		850	865		0,267	4,30
TPB 750x100	100	295	195		850	865		0,329	4,65
TPB 750x125	125	345	220		840	855		0,444	5,21
TPB 750x160	160	415	255		845	860		0,546	5,94
TPB 750x200	200	495	295		845	860		0,680	7,00
TPB 750x250	250	595	345		850	865		0,835	7,68
TPB 750x300	300	695	395		850	865		0,991	8,09

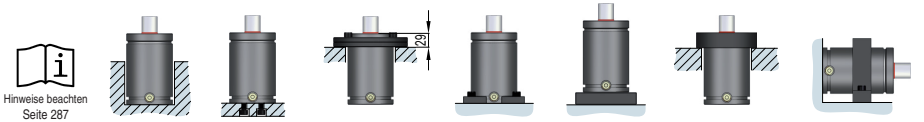
Force/stroke ratio



Initial force/charging pressure ratio



Einbaumöglichkeiten

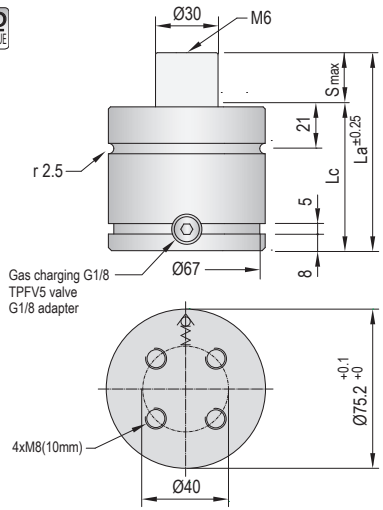


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TPB 1250

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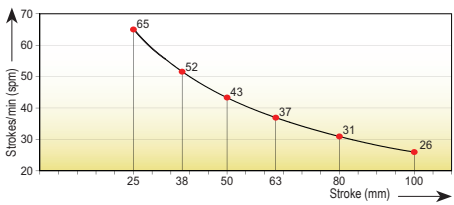


Pressure medium	Nitrogen (N_2)
Max. charging pressure	175 Bar
Min. charging pressure	35 Bar
Rod seal area	7,07 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,2 m/s
Maintenance kit	Kit B1250.1



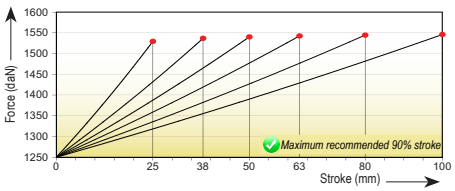


Maximum strokes / minute (at 20°C)

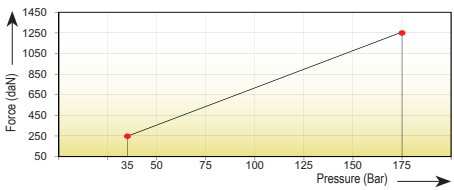


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPB 1250x25	25	95	70		1505	1540		0,097	1,30
TPB 1250x38	38	121	83		1510	1545		0,144	1,51
TPB 1250x50	50	145	95	1250 ±5%	1510	1545	175	0,188	1,58
TPB 1250x63	63	171	108	(20°C)	1510	1550	(20°C)	0,235	1,67
TPB 1250x80	80	205	125		1515	1550		0,297	2,08
TPB 1250x100	100	245	145		1515	1550		0,369	2,49

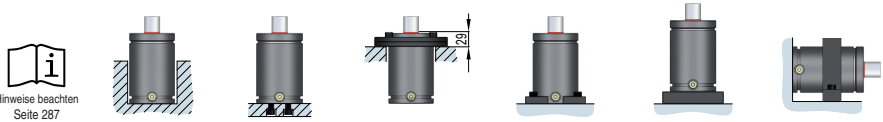
Force/stroke ratio



Initial force/charging pressure ratio



Einbaumöglichkeiten



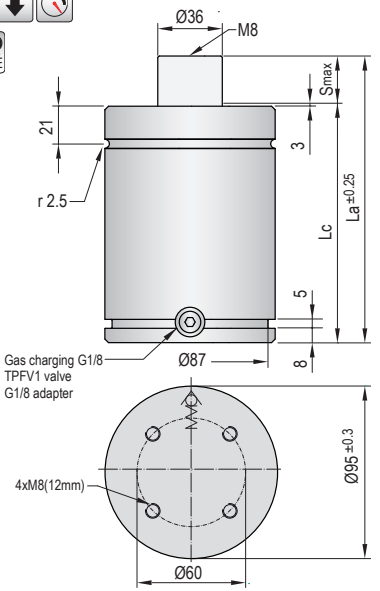
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DROP-IN | SCREWS | FS 75 · FSC 75 | FP 75 · FPR 75 | FB 75 | FI 75 · FI 75/1

TPB 1500

VDI SAFETY

PED 2014/68/UE

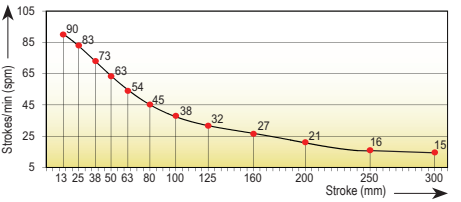


Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	35 Bar
Rod seal area	10,18 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit B1500



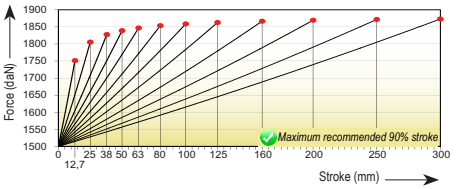


Maximum strokes / minute (at 20°C)

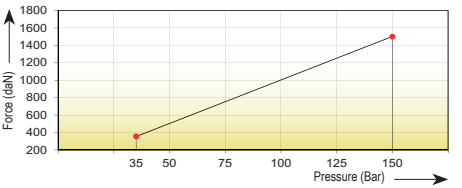


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPB 1500x13	12,7	135,4	122,7	1500 ±5% (20°C)	1730	1760	148 (20°C)	0,090	5,25
TPB 1500x25	25	160	135		1775	1815		0,150	5,50
TPB 1500x38	38	186	148		1795	1835		0,216	5,90
TPB 1500x50	50	210	160		1805	1845		0,276	6,28
TPB 1500x63	63	237	174		1815	1855		0,341	6,60
TPB 1500x80	80	270	190		1820	1860		0,427	7,05
TPB 1500x100	100	310	210		1825	1865		0,527	7,65
TPB 1500x125	125	360	235		1825	1870		0,653	7,90
TPB 1500x160	160	430	270		1830	1875		0,829	8,98
TPB 1500x200	200	510	310		1830	1880		1,030	10,05
TPB 1500x250	250	610	360		1835	1880		1,281	11,65
TPB 1500x300	300	710	410		1835	1880		1,533	14,60

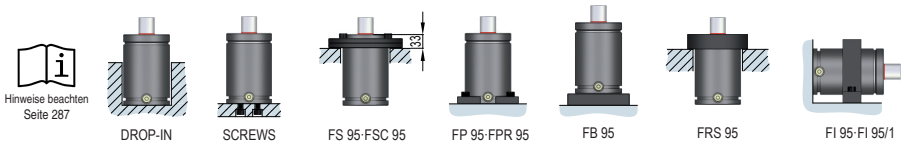
Force/stroke ratio



Initial force/charging pressure ratio



Einbaumöglichkeiten

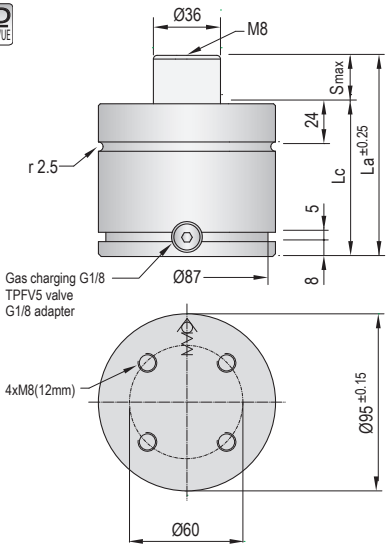


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TPB 1800

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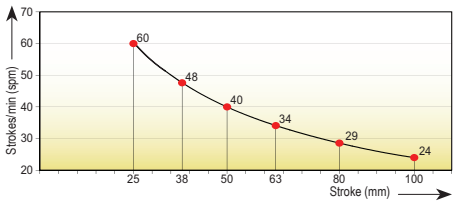


Pressure medium	Nitrogen (N_2)
Max. charging pressure	175 Bar
Min. charging pressure	35 Bar
Rod seal area	10,18 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,2 m/s
Maintenance kit	Kit B1800.1



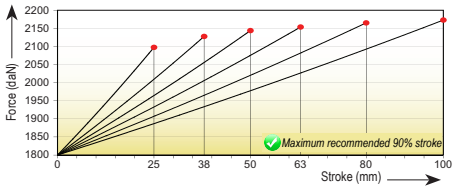


Maximum strokes / minute (at 20°C)

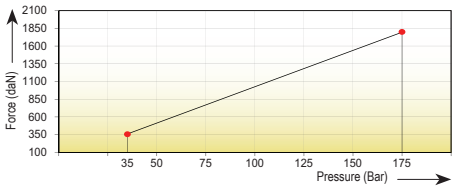


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPB 1800x25	25	108	83		2040	2075		0,179	3,05
TPB 1800x38	38	134	96		2070	2105		0,251	3,65
TPB 1800x50	50	158	108	1800 ±5%	2080	2120	175	0,317	3,84
TPB 1800x63	63	184	121	(20°C)	2090	2130	(20°C)	0,391	4,32
TPB 1800x80	80	218	138		2100	2145		0,483	4,79
TPB 1800x100	100	258	158		2105	2150		0,593	5,88

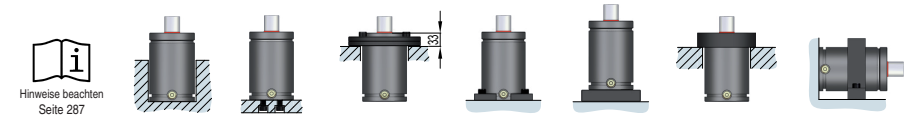
Force/stroke ratio



Initial force/charging pressure ratio

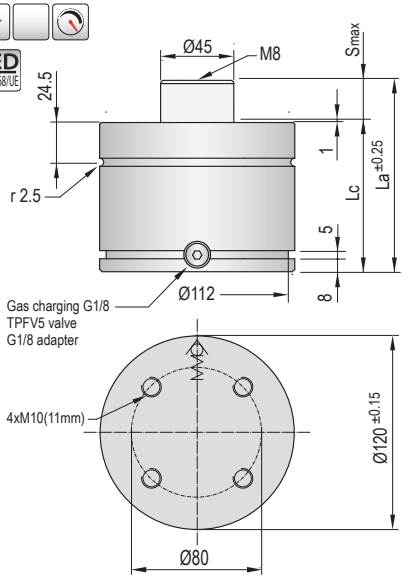


Einbaumöglichkeiten



VDI SAFETY

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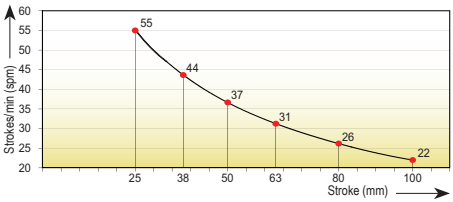


Pressure medium	Nitrogen (N_2)
Max. charging pressure	175 Bar
Min. charging pressure	35 Bar
Rod seal area	15,90 cm²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,2 m/s
Maintenance kit	Kit B2800.1



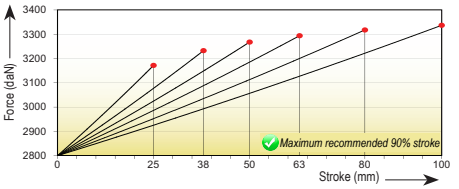


Maximum strokes / minute (at 20°C)

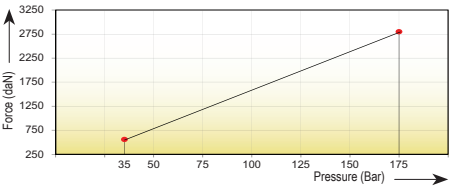


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPB 2800x25	25	118	93		3110	3155		0,339	4,80
TPB 2800x38	38	144	106		3165	3215		0,452	5,55
TPB 2800x50	50	168	118	2800 ±5%	3195	3250	175	0,556	6,25
TPB 2800x63	63	194	131	(20°C)	3215	3275	(20°C)	0,668	6,32
TPB 2800x80	80	228	148		3240	3300		0,816	7,15
TPB 2800x100	100	268	168		3255	3315		0,987	8,10

Force/stroke ratio



Initial force/charging pressure ratio

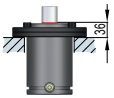


Einbaumöglichkeiten

Hinweise beachten
Seite 287


DROP-IN

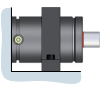

SCREWS



FS 120 · FSC 120


FP 120 · FPR 120


FB 120


FI 120 · FI 120/1

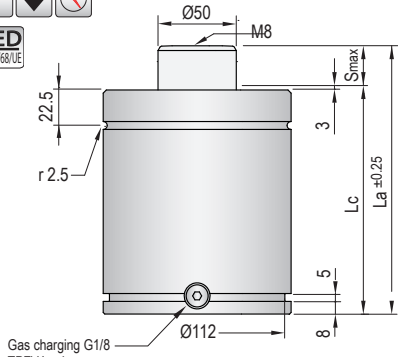
Pieper Normteile GmbH +++ www.pieper-normteile.de +++
Tel.: +49 (0) 7644.929588 +++ info@pieper-normteile.de

Ø120mm · Geringe Kompression
3000daN

TPB 3000

VDI SAFETY

PED 2014/68/UE

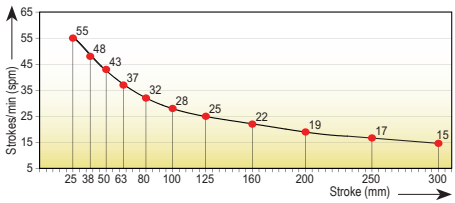


Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	35 Bar
Rod seal area	19,63 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit B3000



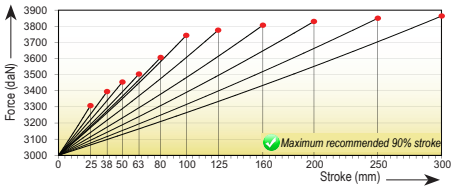


Maximum strokes / minute (at 20°C)

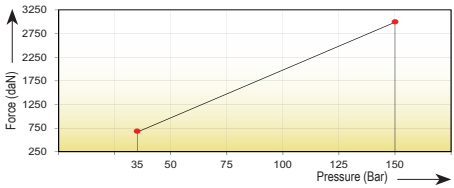


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPB 3000x25	25	170	145		3280	3315		0,527	11,75
TPB 3000x38	38	196	158		3275	3310		0,641	12,70
TPB 3000x50	50	220	170		3410	3460		0,746	13,45
TPB 3000x63	63	247	184		3450	3510		0,860	14,25
TPB 3000x80	80	280	200	3000 ±5%	3540	3610	150	0,934	15,16
TPB 3000x100	100	320	220	(20°C)	3660	3750	(20°C)	0,989	16,20
TPB 3000x125	125	370	245		3685	3780		1,195	17,85
TPB 3000x160	160	440	280		3710	3810		1,483	19,60
TPB 3000x200	200	520	320		3730	3835		1,812	21,50
TPB 3000x250	250	620	370		3750	3855		2,224	23,60
TPB 3000x300	300	720	420		3760	3870		2,635	25,30

Force/stroke ratio

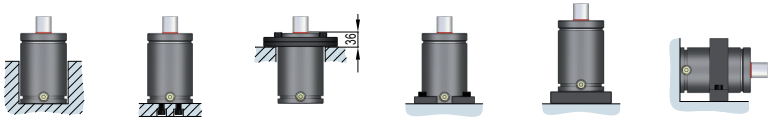


Initial force/charging pressure ratio



Einbaumöglichkeiten

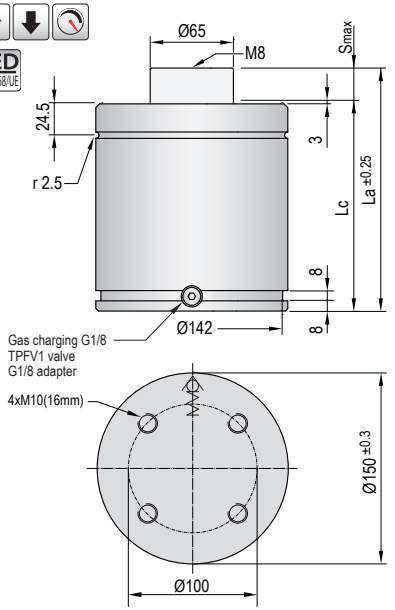
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DROP-IN · SCREWS · FS 120 · FSC 120 · FP 120 · FPR 120 · FB 120 · FI 120 · FI 120/1

VDI SAFETY

PED 2014/68/UE

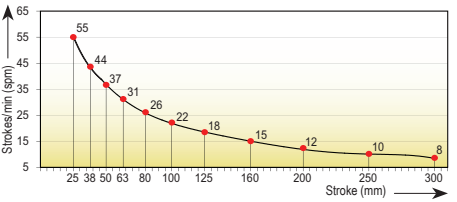


Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	35 Bar
Rod seal area	33,18 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit B5000



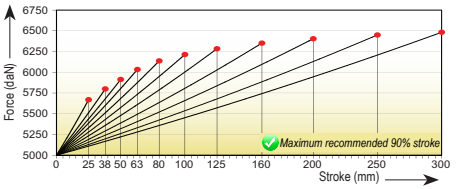


Maximum strokes / minute (at 20°C)

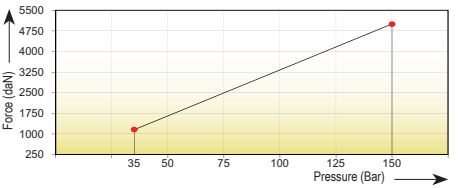


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPB 5000x25	25	190	165		5570	5645		0,702	18,50
TPB 5000x38	38	216	178		5685	5585		0,915	19,30
TPB 5000x50	50	240	190		5780	5885		1,074	20,10
TPB 5000x63	63	267	204		5885	6005		1,220	21,00
TPB 5000x80	80	300	220	5000 ±5%	5975	6110	150	1,432	22,85
TPB 5000x100	100	340	240	(20°C)	6040	6185	(20°C)	1,698	24,00
TPB 5000x125	125	390	265		6100	6255		2,030	26,45
TPB 5000x160	160	460	300		6155	6325		2,494	29,25
TPB 5000x200	200	540	340		6200	6375		3,025	32,10
TPB 5000x250	250	640	390		6240	6420		3,689	36,20
TPB 5000x300	300	740	440		6270	6455		4,352	39,10

Force/stroke ratio



Initial force/charging pressure ratio

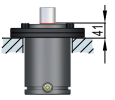


Einbaumöglichkeiten

Hinweise beachten
Seite 287


DROP-IN

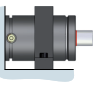

SCREWS



FS 150 · FSC 150


FP 150 · FPR 150


FB 150


FI 150 · FI 150/1

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