PED 2014/68/UE

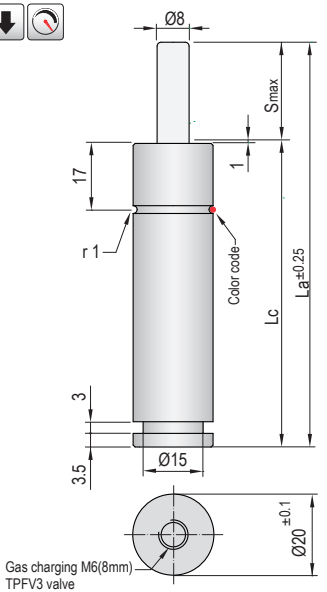


Kleine Gasdruckfedern für geringe Kräfte

Code	ØBody mm	Strokes mm	Fa daN		VDI SAFETY		
TPA 20	20	13 - 80	90	√	√		
TPA 25	25	10 - 50	200	√	√		√
TPG 22	22	12 - 160	90	√	√		
TPG 25	25	12 - 100	200	√	√		√
TPG 26	26	12 - 160	200	√	√		
TPG 32	32	12 - 125	300	√	√		√
TPGP 32	32	12 - 100	450	√	√		√
TPG 500	45	12 - 100	500	√	√		√

VDI SAFETY

PED 2014/68/UE

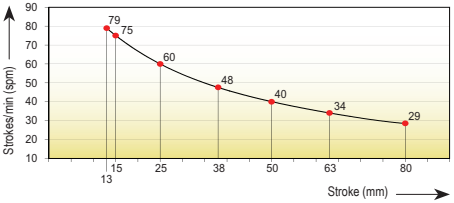


Pressure medium	Nitrogen (N_2)
Max. charging pressure	175 Bar
Min. charging pressure	25 Bar
Rod seal area	0,50 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit A20





Maximum strokes / minute (at 20°C)



Code	Smax mm	La mm	Lc mm	V l	Kg
TPA 20x13	12,7	79,4	66,7	0,004	0,11
TPA 20x15	15	86	71	0,005	0,12
TPA 20x25	25	104	79	0,007	0,13
TPA 20x38	38	130	92	0,009	0,15
TPA 20x50	50	154	104	0,012	0,16
TPA 20x63	63	180	117	0,014	0,18
TPA 20X80	80	214	134	0,017	0,20

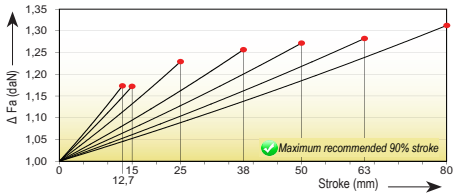
Color code	Fa daN	90% F daN	P Bar
GR *(Green)*	25 (±5)	≈ 31	50
BL *(Blue)*	50 (±5)	≈ 61	100
RD *(Red)*	75 (±5)	≈ 92	150
YW *(Yellow)*	90 (±5)	≈ 107	175
(Other forces)	13 - 90	≈ 16 - 107	25 - 175

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.

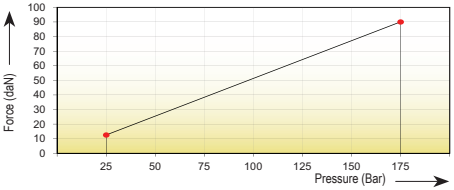
Bestellbeispiel

TPA 20	x	15	GR
Model		Stroke	Color code

Force/stroke ratio

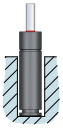


Initial force/charging pressure ratio



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DROP-IN


SCREWS

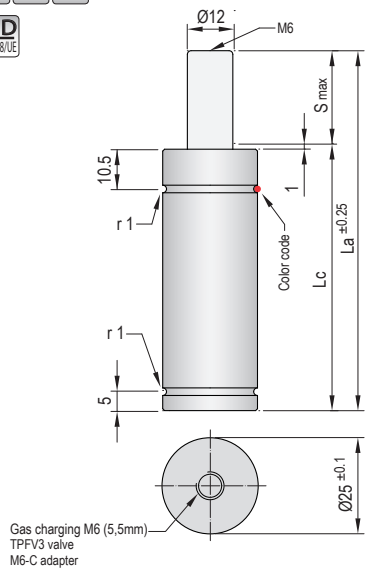

FP 20

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TPA 25

VDI SAFETY

PED 2014/68/UE



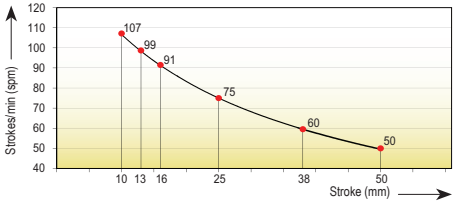
Pressure medium	Nitrogen (N_2)
Max. charging pressure	175 Bar
Min. charging pressure	25 Bar
Rod seal area	1,13 cm²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit A25







Maximum strokes / minute (at 20°C)



Code	Smax mm	La mm	Lc mm	V l	Kg
TPA 25x10	10	65	55	0,006	0,14
TPA 25x13	12,7	70,4	57,7	0,007	0,14
TPA 25x16	16	77	61	0,008	0,15
TPA 25x25	25	95	70	0,012	0,17
TPA 25x38	38	121,2	83,2	0,017	0,19
TPA 25x50	50	145	95	0,021	0,21

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

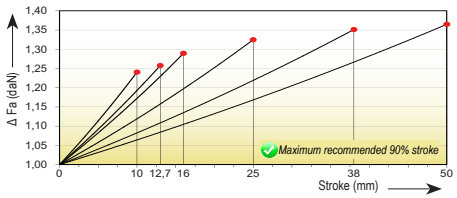
Der schwarze Farbcode kennzeichnet einen abweichenden Fülldruck, den Sie bei der Bestellung zwischen dem minimalen und maximalen Fülldruck wählen können. Ohne andere Angabe wird die Gasdruckfeder in der Ausführung mit gelbem Farbcode (YW) geliefert.

Bestellbeispiel

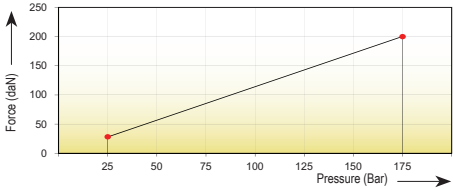
TPA 25 x 25 BL

Model | Stroke | Color code

Force/stroke ratio

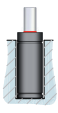


Initial force/charging pressure ratio

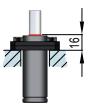


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DROP-IN


SCREWS

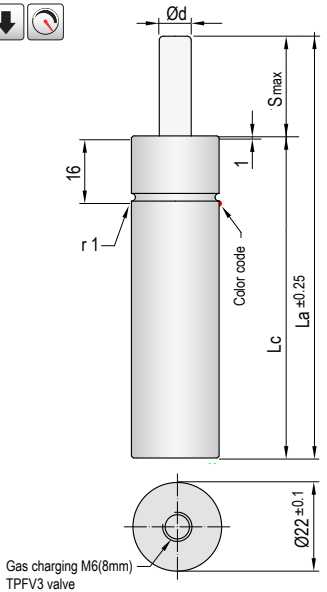


FS 25/1 · FS 25/2


FS 25/1 · FS 25/2

VDI SAFETY

PED 2014/68/UE

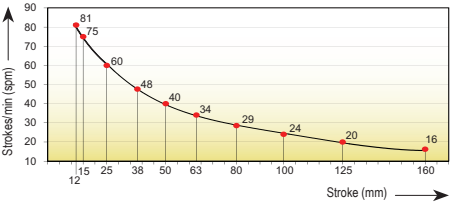


Pressure medium	Nitrogen (N_2)
Max. charging pressure	175 Bar
Min. charging pressure	50 Bar
Rod seal area	Ø8mm - 0,50 cm² / Ø10mm - 0,78 cm²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit G22





Maximum strokes / minute (at 20°C)



Code	Smax mm	La mm	Lc mm	Ød mm	V l	Kg
TPG 22x12	12	84	72	8	0,005	0,23
TPG 22x15	15	90	75	8	0,006	0,24
TPG 22x25	25	110	85	8	0,008	0,27
TPG 22x38	38	136	98	8	0,010	0,29
TPG 22x50	50	160	110	8	0,013	0,32
TPG 22x63	63	186	123	8	0,015	0,36
TPG 22x80	80	220	140	8	0,019	0,38
TPG 22x100	100	260	160	8	0,023	0,44
TPG 22x125	125	310	185	8	0,028	0,46
TPG 22x160	160	380	220	10	0,035	0,52

Color code	Fa daN	90% F daN	P Bar
GR *(Green)*	30 (±5%)	≈ 35	60*
BL *(Blue)*	50 (±5%)	≈ 60	100*
RD *(Red)*	70 (±5%)	≈ 85	140*
YW *(Yellow)*	90 (±5%)	≈ 106	175*
(Other forces)	25 - 90	≈ 32 - 106	50 - 175

* TPG22x160: YW - 130Bar / RD - 90Bar / BL - 65Bar / GR - 40Bar

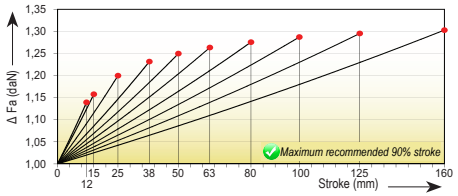
Der schwarze Farbcode kennzeichnet einen abweichenden Fülldruck, den Sie bei der Bestellung zwischen dem minimalen und maximalen Fülldruck wählen können. Ohne andere Angabe wird die Gasdruckfeder in der Ausführung mit gelbem Farbcode (YW) geliefert.

Bestellbeispiel

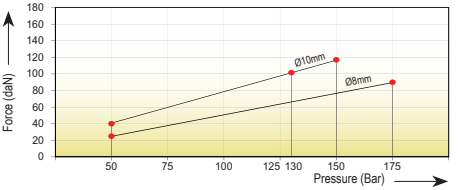
TPG 22 x 100 YW

Model | Stroke | Color code

Force/stroke ratio

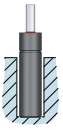


Initial force/charging pressure ratio



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DROP-IN

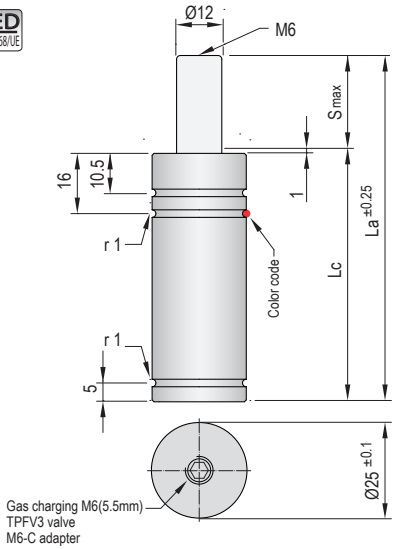


SCREWS

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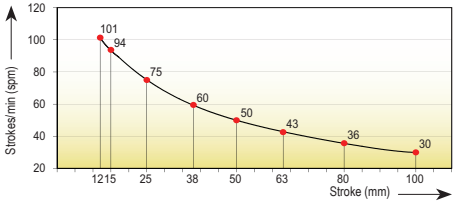


Pressure medium	Nitrogen (N_2)
Max. charging pressure	175 Bar
Min. charging pressure	25 Bar
Rod seal area	1,13 cm²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit G25





Maximum strokes / minute (at 20°C)



Code	Smax mm	La mm	Lc mm	V l	Kg
TPG 25x12	12	78	66	0,009	0,16
TPG 25x15	15	84	69	0,010	0,17
TPG 25x25	25	104	79	0,014	0,18
TPG 25x38	38	130	92	0,019	0,22
TPG 25x50	50	154	104	0,024	0,25
TPG 25x63	63	180	117	0,029	0,26
TPG 25x80	80	214	134	0,035	0,28
TPG 25x100	100	254	154	0,043	0,32

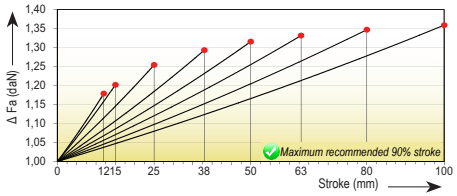
Color code	Fa daN	90% F daN	P Bar
GR *(Green)*	50 (±5)	≈ 70	45
BL *(Blue)*	100 (±10)	≈ 135	90
RD *(Red)*	150 (±15)	≈ 205	135
YW *(Yellow)*	200 (±20)	≈ 265	175
(Other forces)	28 - 200	≈ 40 - 277	25 - 175

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.

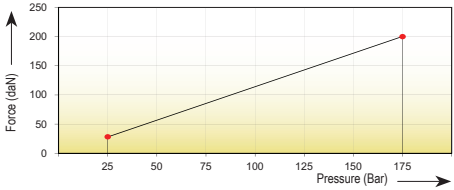
Bestellbeispiel

TPG 25	x	63	RD
Model		Stroke	Color code

Force/stroke ratio

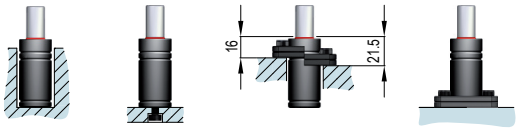


Initial force/charging pressure ratio



Einbaumöglichkeiten

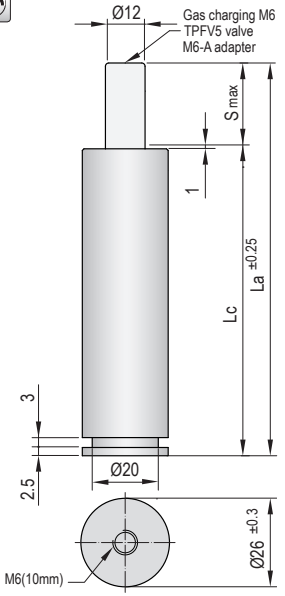
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VDI SAFETY

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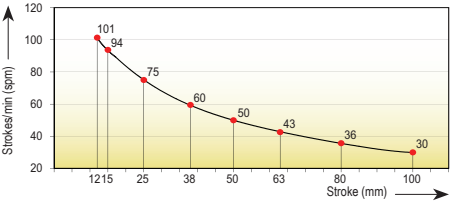


Pressure medium	Nitrogen (N_2)
Max. charging pressure	175 Bar
Min. charging pressure	25 Bar
Rod seal area	1,13 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit G26.1





Maximum strokes / minute (at 20°C)



Code	Smax mm	La mm	Lc mm	V l	Kg
TPG 26x12	12	93	81	0,009	0,16
TPG 26x25	25	119	94	0,014	0,20
TPG 26x38	38	145	107	0,019	0,22
TPG 26x50	50	169	119	0,024	0,24
TPG 26x63	63	195	132	0,029	0,26
TPG 26x80	80	229	149	0,035	0,30
TPG 26x100	100	269	169	0,039	0,33
TPG 26x125	125	319	194	0,049	0,39
TPG 26x160	160	389	229	0,062	0,48

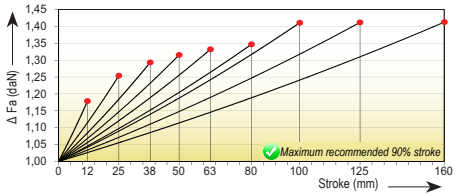
Color code	Fa daN	90% F daN	P Bar
GR *(Green)*	50 (±5)	≈ 70	45
BL *(Blue)*	100 (±10)	≈ 135	90
RD *(Red)*	150 (±15)	≈ 205	135
YW *(Yellow)*	200 (±20)	≈ 265	175
(Other forces)	28 - 200	≈ 40 - 265	25 - 175

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.

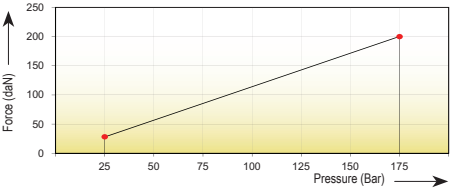
Bestellbeispiel

TPG 26	x	100	RD
Model		Stroke	Color code

Force/stroke ratio

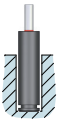


Initial force/charging pressure ratio



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DROP-IN

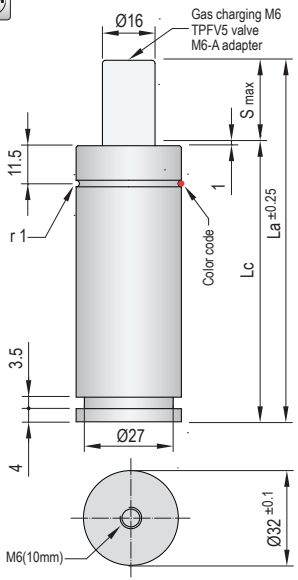


SCREWS

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VDI SAFETY

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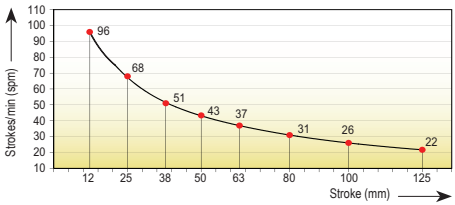
Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	25 Bar
Rod seal area	2,01 cm²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit G32.1







Maximum strokes / minute (at 20°C)



Code	Smax mm	La mm	Lc mm	V l	Kg
TPG 32x12	12	84	72	0,007	0,35
TPG 32x25	25	110	85	0,015	0,36
TPG 32x38	38	136	98	0,023	0,40
TPG 32x50	50	160	110	0,030	0,47
TPG 32x63	63	186	123	0,038	0,48
TPG 32x80	80	220	140	0,049	0,56
TPG 32x100	100	260	160	0,061	0,64
TPG 32x125	125	310	185	0,076	0,74

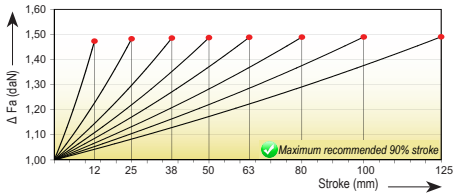
Color code	Fa daN	90% F daN	P Bar
GR *(Green)*	100 (±10)	≈ 145	50
BL *(Blue)*	200 (±15)	≈ 285	100
RD *(Red)*	250 (±20)	≈ 360	125
YW *(Yellow)*	300 (±20)	≈ 430	150
(Other forces)	50 - 300	≈ 75 - 430	25 - 150

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.

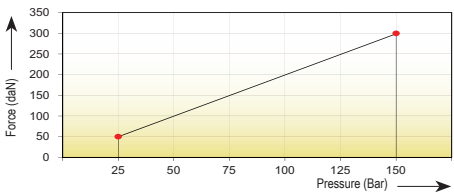
Bestellbeispiel

TPG 32	x	50	YW
Model		Stroke	Color code

Force/stroke ratio

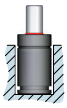


Initial force/charging pressure ratio

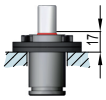


Einbaumöglichkeiten

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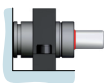

DROP-IN


SCREWS



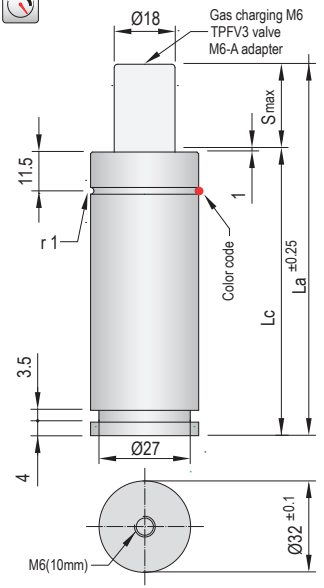
FS 32·FSC 32/1


FP 32·FPR 32


FI 32·FI 32/1

VDI SAFETY

PED 2014/68/UE



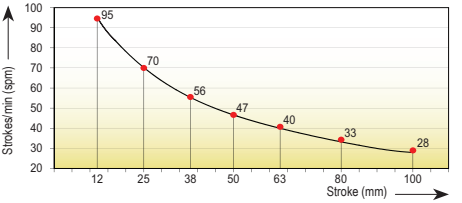
Pressure medium	Nitrogen (N_2)
Max. charging pressure	175 Bar
Min. charging pressure	25 Bar
Rod seal area	2,54 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit GP32







Maximum strokes / minute (at 20°C)



Code	Smax mm	La mm	Lc mm	V l	Kg
TPGP 32x12	12	84	72	0,008	0,36
TPGP 32x25	25	110	85	0,017	0,37
TPGP 32x38	38	136	98	0,025	0,41
TPGP 32x50	50	160	110	0,033	0,48
TPGP 32x63	63	186	123	0,041	0,49
TPGP 32x80	80	220	140	0,052	0,57
TPGP 32x100	100	260	160	0,065	0,65

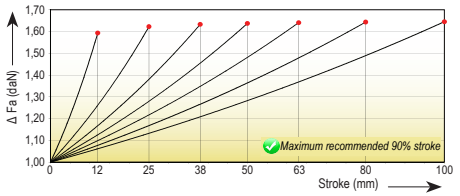
Color code	Fa daN	90% F daN	P Bar
GR *(Green)*	100 (±10)	≈ 155	40
BL *(Blue)*	200 (±15)	≈ 310	80
RD *(Red)*	300 (±20)	≈ 470	120
YW *(Yellow)*	450 (±20)	≈ 685	175
(Other forces)	60 - 450	≈ 25-685	25 - 175

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.

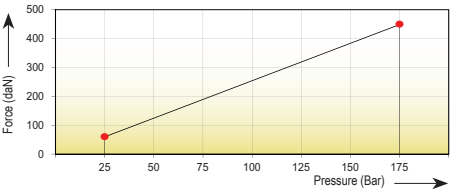
Bestellbeispiel

TPGP 32	x	25	YW
Model		Stroke	Color code

Force/stroke ratio

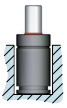


Initial force/charging pressure ratio

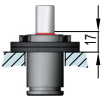


Einbaumöglichkeiten

Hinweise beachten
Seite 287

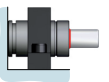

DROP-IN


SCREWS



FS 32·FSC 32/1

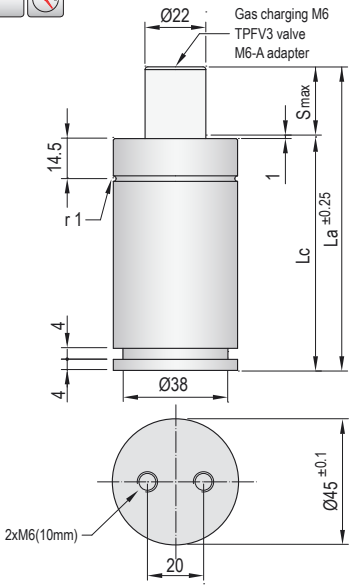

FP 32·FPR 32


FI 32·FI 32/1

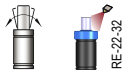
TPG 500

VDI SAFETY

PED 2014/68/UE

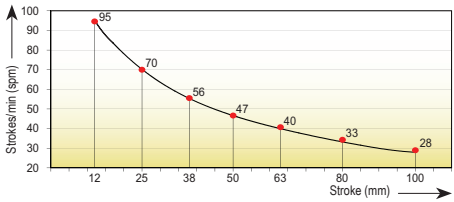


Pressure medium	Nitrogen (N_2)
Max. charging pressure	155 Bar
Min. charging pressure	35 Bar
Rod seal area	3,80 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit G500



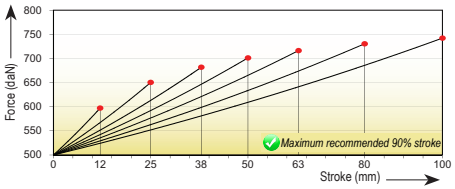


Maximum strokes / minute (at 20°C)

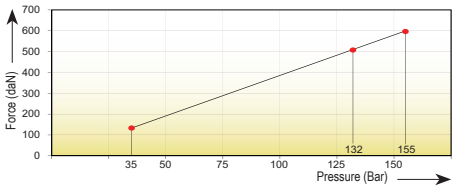


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPG 500x12	12	84	72	500 ±5% (20°C)	590	600	132 (20°C)	0,028	0,70
TPG 500x25	25	110	85		635	655		0,041	0,78
TPG 500x38	38	136	98		660	685		0,054	0,88
TPG 500x50	50	160	110		675	705		0,066	0,97
TPG 500x63	63	186	123		690	720		0,079	1,07
TPG 500x80	80	220	140		700	735		0,096	1,20
TPG 500x100	100	260	160		710	745		0,117	1,38

Force/stroke ratio

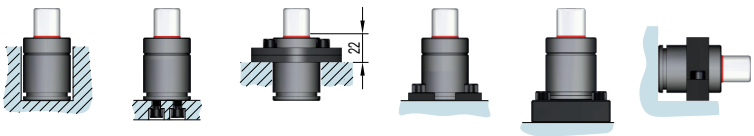


Initial force/charging pressure ratio



Einbaumöglichkeiten

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