PED 2014/68/UE

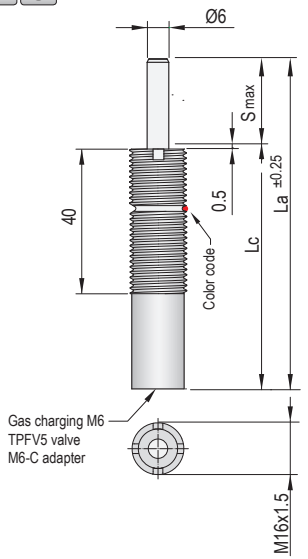


Gasdruckfedern mit Gewindegehäuse

Code	ØBody mm	Strokes mm	Fa daN		VDI SAFETY	
TPRF 16	M16 x 1,5	7 - 63	42	√	√	
TPRN 16	M16 x 2	7 - 63	42	√	√	
TPR 16	M16 x 1,5	10 - 100	50		√	
TPRB 16	M16 x 1,5	10 - 100	50		√	
TPRC 16	M16 x 2	10 - 125	40		√	
TPR 24	M24 x 1,5	10 - 100	140		√	
TPRB 24	M24 x 1,5	10 - 125	140		√	
TPRC 24	M24 x 1,5	7 - 125	90	√	√	
TPRT 24	M24 x 1,5	7 - 125	90	√	√	
TPR 28.1	M28 x 1,5	15 - 125	200	√	√	
TPR 38.1	M38 x 1,5	13 - 80	250	√	√	√
TPR 45	M45 x 1,5	13 - 100	740	√	√	√
TPR 50	M50 x 1,5	13 - 100	1000	√	√	√

VDI SAFETY

PED 2014/68/UE



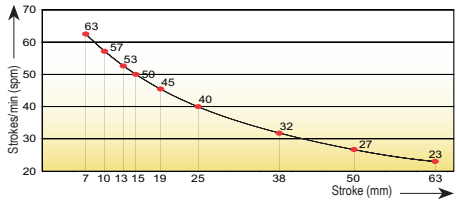
Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	20 Bar
Rod seal area	0,28 cm²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	0,5 m/s
Maintenance kit	Kit RF16







Maximum strokes / minute (at 20°C)



Code	Smax mm	La mm	Lc mm	V l	Kg
TPRF 16x7	7	56	49	0,001	0,05
TPRF 16x10	10	62	52	0,001	0,06
TPRF 16x13	13	68	55	0,001	0,06
TPRF 16x15	15	72	57	0,001	0,07
TPRF 16x19	19	80	61	0,001	0,08
TPRF 16x25	25	92	67	0,002	0,08
TPRF 16x38	38	118	80	0,003	0,09
TPRF 16x50	50	142	92	0,004	0,09
TPRF 16x63	63	172	109	0,005	0,10

Color code	Fa daN	Fc daN	P Bar
GR *(Green)*	13 (±5%)	≈ 20	45
BL *(Blue)*	25 (±5%)	≈ 40	90
RD *(Red)*	38 (±5%)	≈ 60	135
YW *(Yellow)*	42 (±5%)	≈ 65	150
(Other forces)	6 - 42	≈ 10 - 65	20 - 150

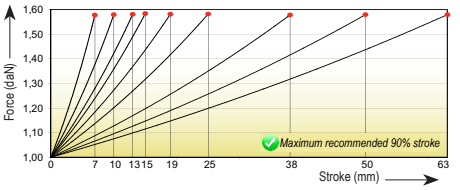
Der schwarze Farbcode kennzeichnet einen abweichenden Fülldruck, den Sie bei der Bestellung zwischen dem minimalen Fülldruck (20Bar) und dem maximalen Fülldruck (150Bar) wählen können.

Bestellbeispiel

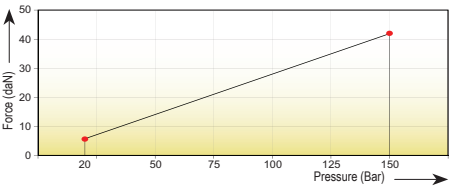
TPRF 16 x **25** **YW**

Model | Stroke | Force

Force/stroke ratio



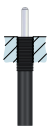
Initial force/charging pressure ratio



Einbaumöglichkeiten



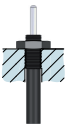
Hinweise beachten Seite 287



THREADED



FR 16



FR 16

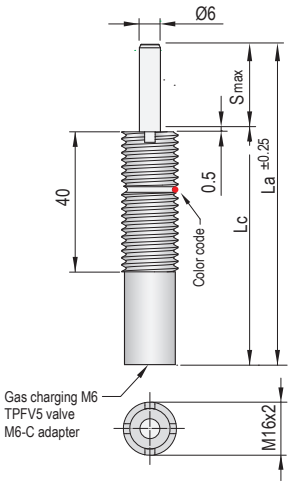


TPRN KEY

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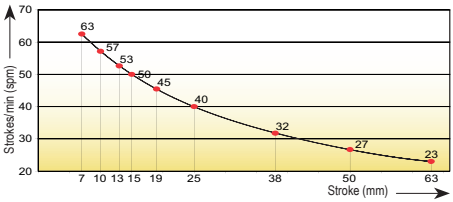
Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	20 Bar
Rod seal area	0,28 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	0,5 m/s
Maintenance kit	Kit RN16







Maximum strokes / minute (at 20°C)



Code	Smax mm	La mm	Lc mm	V l	Kg
TPRN 16x7	7	56	49	0,001	0,05
TPRN 16x10	10	62	52	0,001	0,06
TPRN 16x13	13	68	55	0,001	0,06
TPRN 16x15	15	72	57	0,001	0,07
TPRN 16x19	19	80	61	0,001	0,08
TPRN 16x25	25	92	67	0,002	0,08
TPRN 16x38	38	118	80	0,003	0,09
TPRN 16x50	50	142	92	0,004	0,09
TPRN 16x63	63	172	109	0,005	0,10

Color code	Fa daN	Fc daN	P Bar
GR *(Green)*	13 (±5%)	≈ 20	45
BL *(Blue)*	25 (±5%)	≈ 40	90
RD *(Red)*	38 (±5%)	≈ 60	135
YW *(Yellow)*	42 (±5%)	≈ 65	150
(Other forces)	6 - 42	≈ 10 - 65	20 - 150

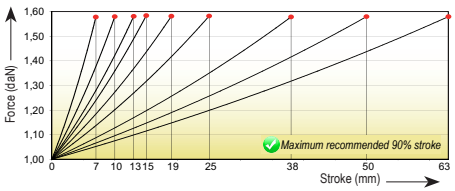
Der schwarze Farbcode kennzeichnet einen abweichenden Fülldruck, den Sie bei der Bestellung zwischen dem minimalen Fülldruck (20Bar) und dem maximalen Fülldruck (150Bar) wählen können.

Bestellbeispiel

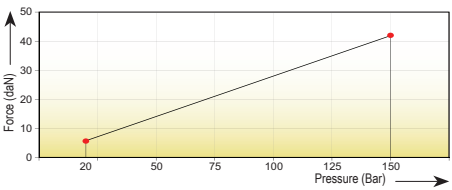
TPRN 16 x **25** **YW**

Model | Stroke | Force

Force/stroke ratio



Initial force/charging pressure ratio

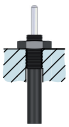


Einbaumöglichkeiten

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THREADED

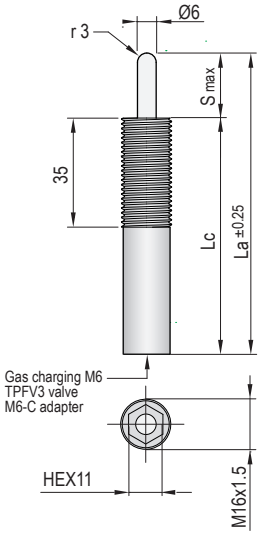

FRC 16.1


FRC 16.1


TPRN KEY

VDI SAFETY

PED 2014/68/UE

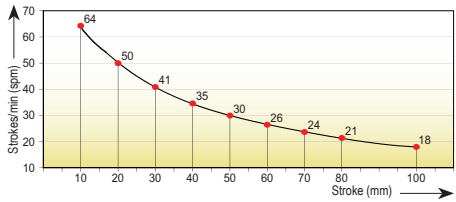


Pressure medium	Nitrogen (N_2)
Max. charging pressure	175 Bar
Min. charging pressure	35 Bar
Rod seal area	0,28 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit R16

VDI 3004



Maximum strokes / minute (at 20°C)



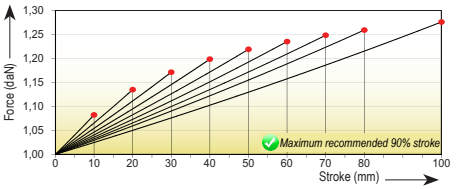
Code	Smax mm	La mm	Lc mm	V l	Kg
TPR 16x10	10	80	70	0,004	0,06
TPR 16x20	20	100	80	0,005	0,06
TPR 16x30	30	120	90	0,006	0,07
TPR 16x40	40	140	100	0,007	0,08
TPR 16x50	50	160	110	0,008	0,08
TPR 16x60	60	180	120	0,009	0,09
TPR 16x70	70	200	130	0,010	0,09
TPR 16x80	80	220	140	0,011	0,11
TPR 16x100	100	260	160	0,013	0,11

Code	Fa daN	Fc daN	P Bar
TPR 16x ... F10	10 (±5%)	≈ 12	35
TPR 16x ... F15	15 (±5%)	≈ 15	50
TPR 16x ... F20	20 (±5%)	≈ 25	70
TPR 16x ... F25	25 (±5%)	≈ 30	90
TPR 16x ... F30	30 (±5%)	≈ 35	110
TPR 16x ... F35	35 (±5%)	≈ 45	125
TPR 16x ... F40	40 (±5%)	≈ 50	140
TPR 16x ... F45	45 (±5%)	≈ 55	160
TPR 16x ... F50	50 (±5%)	≈ 60	175

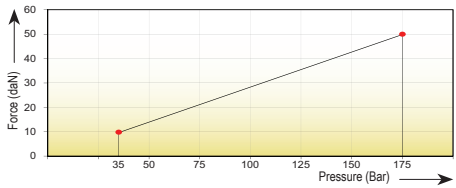
Bestellbeispiel

TPR 16	x	20	F50
Model		Stroke	Force

Force/stroke ratio



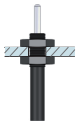
Initial force/charging pressure ratio



Einbaumöglichkeiten

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FR 16

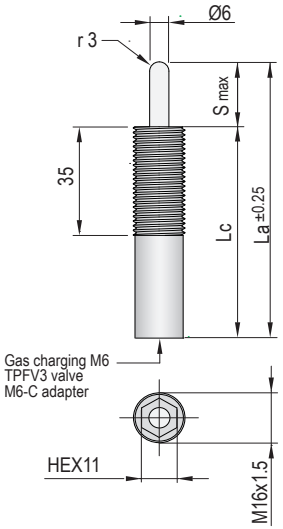

FR 16


TPR 16 KEY

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PED 2014/68/UE



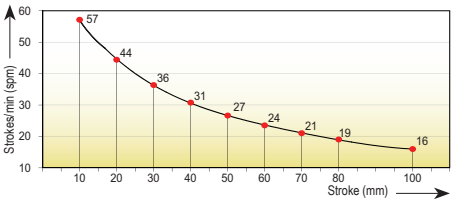
Pressure medium	Nitrogen (N_2)
Max. charging pressure	175 Bar
Min. charging pressure	35 Bar
Rod seal area	0,28 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit RB16

VDI 3004





Maximum strokes / minute (at 20°C)



Code	Smax mm	La mm	Lc mm	V l	Kg
TPRB 16x10	10	65	55	0,002	0,05
TPRB 16x20	20	85	65	0,003	0,05
TPRB 16x30	30	105	75	0,004	0,06
TPRB 16x40	40	125	85	0,005	0,07
TPRB 16x50	50	145	95	0,006	0,07
TPRB 16x60	60	165	105	0,007	0,08
TPRB 16x70	70	185	115	0,008	0,08
TPRB 16x80	80	205	125	0,009	0,10
TPRB 16x100	100	245	145	0,012	0,10

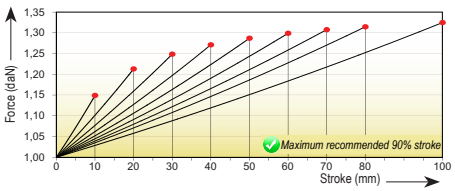
Code	Fa daN	Fc daN	P Bar
TPRB 16x ... F10	10 (±5%)	≈ 13	35
TPRB 16x ... F15	15 (±5%)	≈ 18	50
TPRB 16x ... F20	20 (±5%)	≈ 25	70
TPRB 16x ... F25	25 (±5%)	≈ 32	90
TPRB 16x ... F30	30 (±5%)	≈ 40	110
TPRB 16x ... F35	35 (±5%)	≈ 45	125
TPRB 16x ... F40	40 (±5%)	≈ 50	140
TPRB 16x ... F45	45 (±5%)	≈ 55	160
TPRB 16x ... F50	50 (±5%)	≈ 60	175

Bestellbeispiel

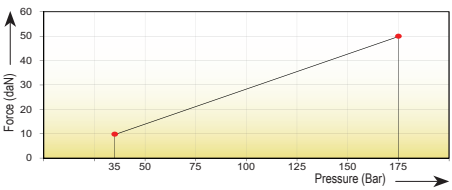
TPRB 16 x **40** **F30**

Model | Stroke | Force

Force/stroke ratio



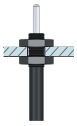
Initial force/charging pressure ratio



Einbaumöglichkeiten

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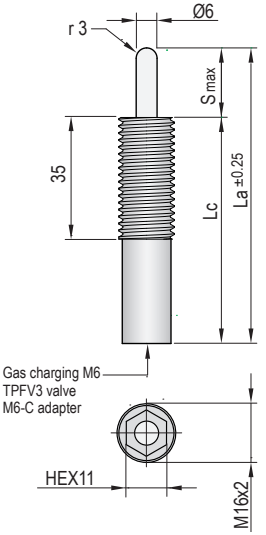

FR 16


FR 16


TPR 16 KEY

VDI SAFETY

PED 2014/68/UE

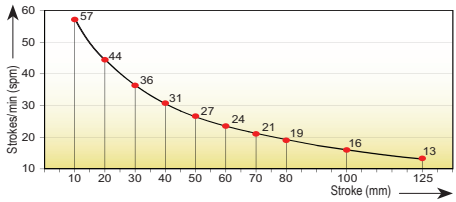


Pressure medium	Nitrogen (N_2)
Max. charging pressure	140 Bar
Min. charging pressure	20 Bar
Rod seal area	0,28 cm²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit RC16





Maximum strokes / minute (at 20°C)



Code	Smax mm	La mm	Lc mm	V l	Kg
TPRC 16x10	10	65	55	0,002	0,05
TPRC 16x20	20	85	65	0,003	0,05
TPRC 16x30	30	105	75	0,004	0,06
TPRC 16x40	40	125	85	0,005	0,07
TPRC 16x50	50	145	95	0,006	0,07
TPRC 16x60	60	165	105	0,007	0,08
TPRC 16x70	70	185	115	0,008	0,08
TPRC 16x80	80	205	125	0,009	0,10
TPRC 16x100	100	245	145	0,012	0,10
TPRC 16x125	125	295	170	0,014	0,13

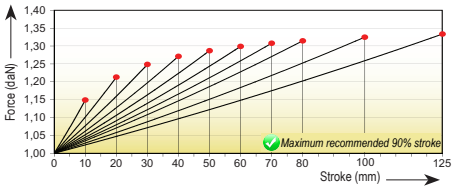
Code	Fa daN	Fc daN	P Bar
TPRC 16x ... F6	6 (±5%)	≈ 7	20
TPRC 16x ... F10	10 (±5%)	≈ 13	35
TPRC 16x ... F15	15 (±5%)	≈ 18	50
TPRC 16x ... F20	20 (±5%)	≈ 25	70
TPRC 16x ... F25	25 (±5%)	≈ 32	90
TPRC 16x ... F30	30 (±5%)	≈ 40	110
TPRC 16x ... F35	35 (±5%)	≈ 45	125
TPRC 16x ... F40	40 (±5%)	≈ 50	140

Bestellbeispiel

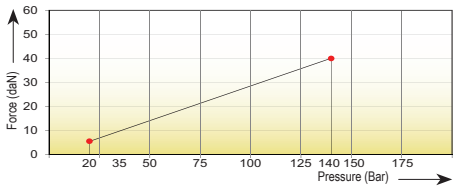
TPRC 16 x 60 F6

Model | Stroke | Force

Force/stroke ratio



Initial force/charging pressure ratio

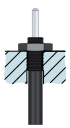


Einbaumöglichkeiten

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THREADED


FRC 16.1

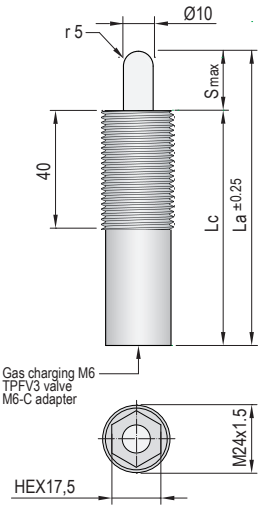

FRC 16.1


TPR 16 KEY

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VDI SAFETY

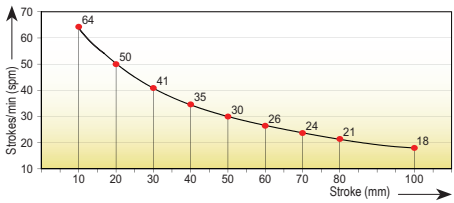
PED 2014/68/UE



Pressure medium	Nitrogen (N_2)
Max. charging pressure	175 Bar
Min. charging pressure	25 Bar
Rod seal area	0,78 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 R24



Maximum strokes / minute (at 20°C)



Code	Smax mm	La mm	Lc mm	V l	Kg
TPR 24x10	10	80	70	0,009	0,20
TPR 24x20	20	100	80	0,012	0,22
TPR 24x30	30	120	90	0,015	0,24
TPR 24x40	40	140	100	0,017	0,25
TPR 24x50	50	160	110	0,020	0,27
TPR 24x60	60	180	120	0,022	0,30
TPR 24x70	70	200	130	0,025	0,35
TPR 24x80	80	220	140	0,027	0,41
TPR 24x100	100	260	160	0,032	0,45

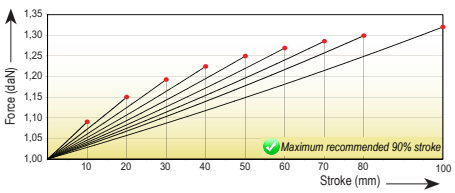
Code	Fa daN	Fc daN	P Bar
TPR 24x ... F20	20 (±5%)	≈ 25	25
TPR 24x ... F40	40 (±5%)	≈ 50	50
TPR 24x ... F60	60 (±5%)	≈ 75	75
TPR 24x ... F80	80 (±5%)	≈ 100	100
TPR 24x ... F100	100 (±5%)	≈ 125	125
TPR 24x ... F120	120 (±5%)	≈ 150	150
TPR 24x ... F140	140 (±5%)	≈ 175	175

Bestellbeispiel

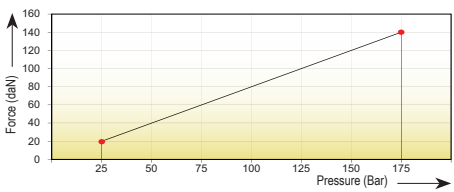
TPR 24 x 60 F140

Model | Stroke | Force

Force/stroke ratio



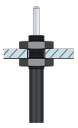
Initial force/charging pressure ratio

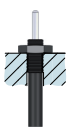


Einbaumöglichkeiten

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THREADED

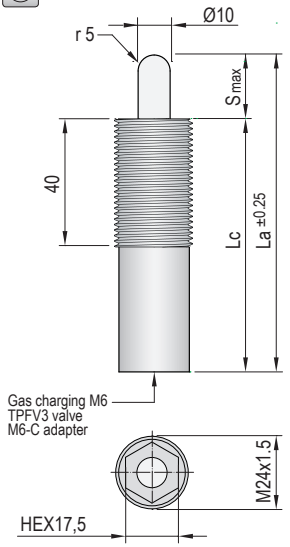

FR 24


FR 24


TPR 24 KEY

VDI SAFETY

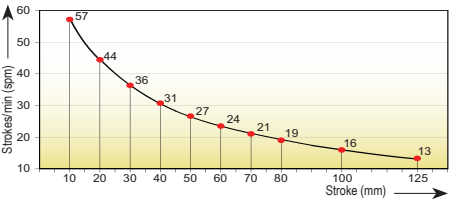
PED 2014/68/UE



Pressure medium	Nitrogen (N_2)
Max. charging pressure	175 Bar
Min. charging pressure	25 Bar
Rod seal area	0,78 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 RB24



Maximum strokes / minute (at 20°C)



Code	Smax mm	La mm	Lc mm	V l	Kg
TPRB 24x10	10	65	55	0,006	0,18
TPRB 24x20	20	85	65	0,008	0,20
TPRB 24x30	30	105	75	0,011	0,22
TPRB 24x40	40	125	85	0,013	0,23
TPRB 24x50	50	145	95	0,016	0,25
TPRB 24x60	60	165	105	0,018	0,28
TPRB 24x70	70	185	115	0,021	0,32
TPRB 24x80	80	205	125	0,024	0,38
TPRB 24x100	100	245	145	0,029	0,48
TPRB 24x125	125	295	170	0,035	0,61

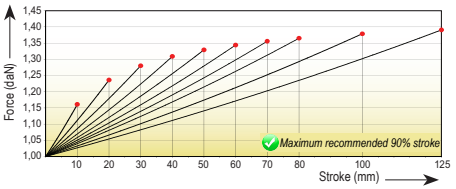
Code	Fa daN	Fc daN	P Bar
TPRB 24x ... F20	20 (±5%)	≈ 25	25
TPRB 24x ... F40	40 (±5%)	≈ 55	50
TPRB 24x ... F60	60 (±5%)	≈ 80	75
TPRB 24x ... F80	80 (±5%)	≈ 105	100
TPRB 24x ... F100	100 (±5%)	≈ 135	125
TPRB 24x ... F120	120 (±5%)	≈ 160	150
TPRB 24x ... F140	140 (±5%)	≈ 185	175

Bestellbeispiel

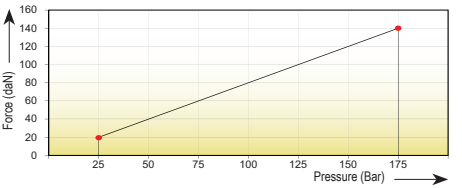
TPRB 24 x 30 F80

Model | Stroke | Force

Force/stroke ratio



Initial force/charging pressure ratio

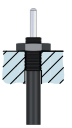


Einbaumöglichkeiten

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THREADED


FR 24


FR 24

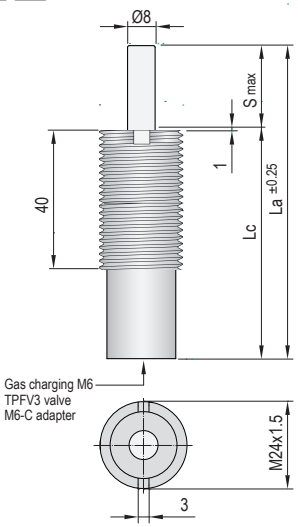

TPR 24 KEY

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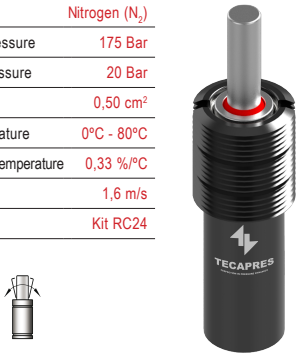
M24x1,5 90daN TPRC 24

VDI SAFETY

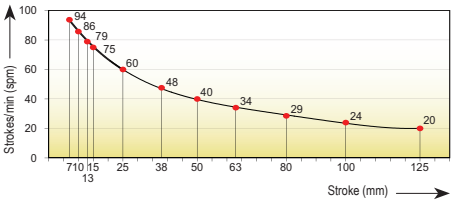
PED 2014/68/UE



Pressure medium	Nitrogen (N_2)
Max. charging pressure	175 Bar
Min. charging pressure	20 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 RC24



Maximum strokes / minute (at 20°C)



Code	Smax mm	La mm	Lc mm	V l	Kg
TPRC 24x7	7	56	49	0,002	0,08
TPRC 24x10	10	62	52	0,003	0,08
TPRC 24x13	13	67,4	54,4	0,003	0,08
TPRC 24x15	15	72	57	0,004	0,09
TPRC 24x25	25	92	67	0,006	0,10
TPRC 24x38	38	118	80	0,008	0,12
TPRC 24x50	50	142	92	0,011	0,13
TPRC 24x63	63	172	109	0,014	0,15
TPRC 24x80	80	205	125	0,017	0,17
TPRC 24x100	100	245	145	0,021	0,18
TPRC 24x125	125	295	170	0,026	0,21

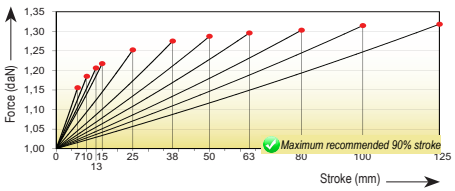
Code	Fa daN	Fc daN	P Bar
TPRC 24x ... F10	10 (±5%)	≈ 13	20
TPRC 24x ... F20	20 (±5%)	≈ 25	40
TPRC 24x ... F30	30 (±5%)	≈ 40	60
TPRC 24x ... F40	40 (±5%)	≈ 50	80
TPRC 24x ... F50	50 (±5%)	≈ 65	100
TPRC 24x ... F60	60 (±5%)	≈ 75	120
TPRC 24x ... F70	70 (±5%)	≈ 90	140
TPRC 24x ... F80	80 (±5%)	≈ 105	160
TPRC 24x ... F90	90 (±5%)	≈ 110	175

Bestellbeispiel

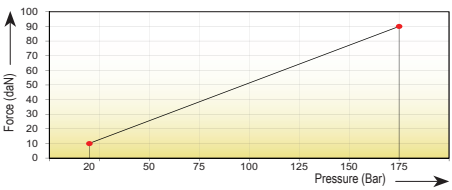
TPRC 24 x 100 F50

Model | Stroke | Force

Force/stroke ratio



Initial force/charging pressure ratio

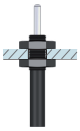


Einbaumöglichkeiten

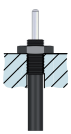
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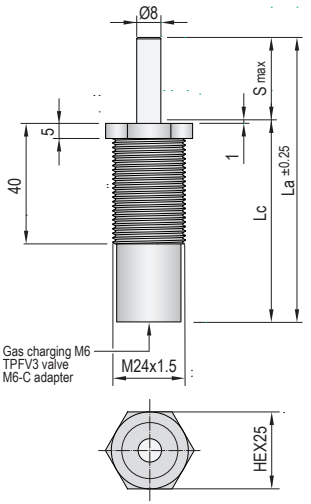
FR 24



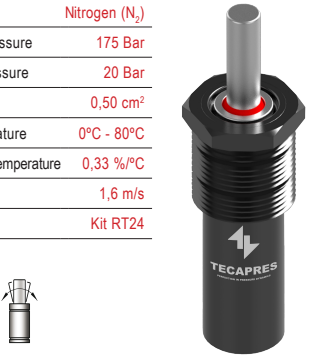
FR 24

VDI SAFETY

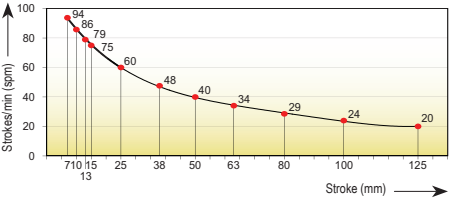
PED 2014/68/UE



Pressure medium	Nitrogen (N_2)
Max. charging pressure	175 Bar
Min. charging pressure	20 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 RT24



Maximum strokes / minute (at 20°C)



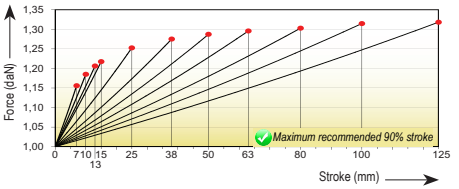
Code	Smax mm	La mm	Lc mm	V l	Kg
TPRT 24x7	7	56	49	0,002	0,08
TPRT 24x10	10	62	52	0,003	0,08
TPRT 24x13	13	67,4	54,4	0,003	0,08
TPRT 24x15	15	72	57	0,004	0,09
TPRT 24x25	25	92	67	0,006	0,10
TPRT 24x38	38	118	80	0,008	0,12
TPRT 24x50	50	142	92	0,011	0,13
TPRT 24x63	63	172	109	0,014	0,15
TPRT 24x80	80	205	125	0,017	0,17
TPRT 24x100	100	245	145	0,021	0,18
TPRT 24x125	125	295	170	0,026	0,21

Code	Fa daN	Fc daN	P Bar
TPRT 24x ... F10	10 (±5%)	≈ 13	20
TPRT 24x ... F20	20 (±5%)	≈ 25	40
TPRT 24x ... F30	30 (±5%)	≈ 40	60
TPRT 24x ... F40	40 (±5%)	≈ 50	80
TPRT 24x ... F50	50 (±5%)	≈ 65	100
TPRT 24x ... F60	60 (±5%)	≈ 75	120
TPRT 24x ... F70	70 (±5%)	≈ 90	140
TPRT 24x ... F80	80 (±5%)	≈ 105	160
TPRT 24x ... F90	90 (±5%)	≈ 110	175

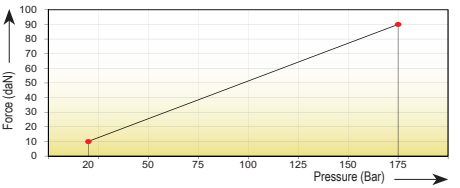
Bestellbeispiel

TPRT 24	x	10	F40
Model		Stroke	Force

Force/stroke ratio

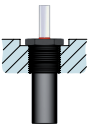


Initial force/charging pressure ratio



Einbaumöglichkeiten

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Seite 287

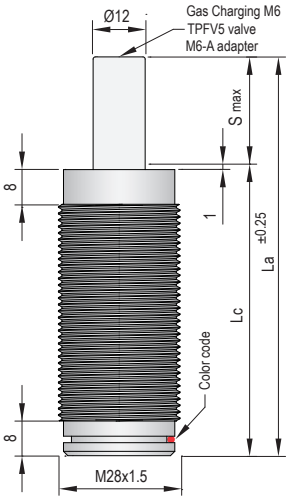


THREADED

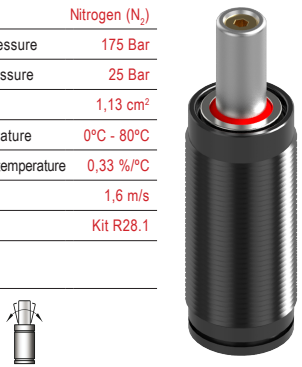
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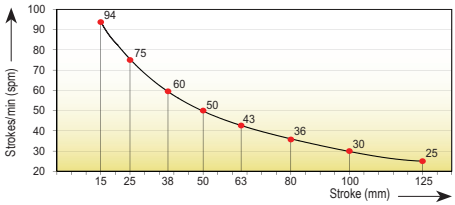
PED 2014/68/UE



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 R28.1



Maximum strokes / minute (at 20°C)



Code	Smax mm	La mm	Lc mm	V l	Kg
TPR 28x15.1	15	72	57	0,006	0,15
TPR 28x25.1	25	92	67	0,010	0,17
TPR 28x38.1	38	118	80	0,014	0,20
TPR 28x50.1	50	142	92	0,019	0,22
TPR 28x63.1	63	172	109	0,024	0,25
TPR 28x80.1	80	205	125	0,030	0,30
TPR 28x100.1	100	242	142	0,037	0,35
TPR 28x125.1	125	292	167	0,046	0,38

Color code	Fa daN	90% F daN	P Bar
GR *(Green)*	50 (±5)	≈ 70	45
BL *(Blue)*	100 (±10)	≈ 140	90
RD *(Red)*	150 (±15)	≈ 210	135
YW *(Yellow)*	200 (±20)	≈ 270	175
(Other forces)	28 - 200	≈ 40 - 270	25 - 175

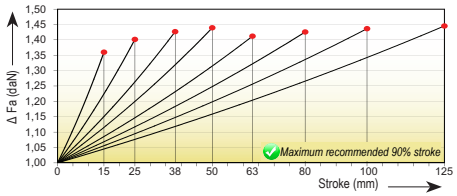
Der schwarze Farbcode kennzeichnet einen abweichenden Fülldruck, den Sie bei der Bestellung zwischen dem minimalen und maximalen Fülldruck wählen können. Ohne andere Angabe wird die Gasdruckfeder in der Ausführung mit gelbem Farbcode (YW) geliefert.

Bestellbeispiel

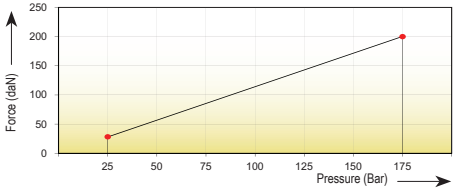
TPR 28 x 38.1 RD

Model | Stroke | Color code

Force/stroke ratio



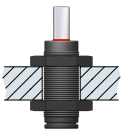
Initial force/charging pressure ratio



Einbaumöglichkeiten

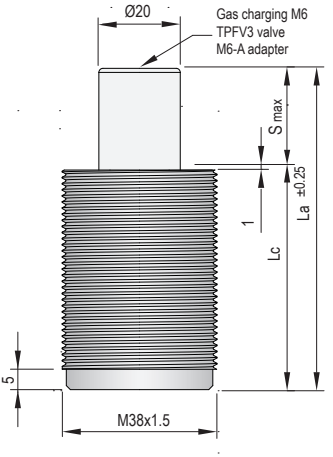
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VDI SAFETY

PED 2014/68/UE

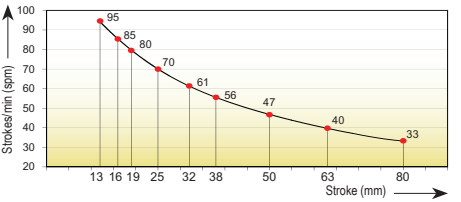


Pressure medium	Nitrogen (N_2)
Max. charging pressure	100 Bar
Min. charging pressure	35 Bar
Rod seal area	3,14 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit R38.1



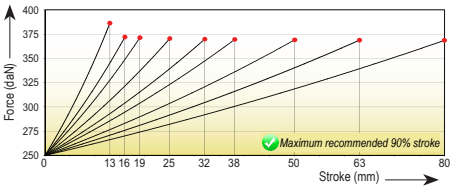


Maximum strokes / minute (at 20°C)

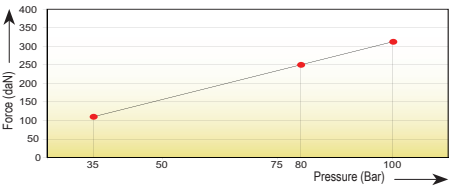


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPR 38x13.1	13	56	43		370	390		0,012	0,28
TPR 38x16.1	16	62	46		355	375		0,015	0,30
TPR 38x19.1	19	68	49		355	375		0,018	0,32
TPR 38x25.1	25	80	55	250 ±5%	355	370	80	0,024	0,33
TPR 38x32.1	32	94	62	(20°C)	355	370	(20°C)	0,031	0,35
TPR 38x38.1	38	106	68		355	370		0,037	0,39
TPR 38x50.1	50	130	80		355	370		0,049	0,43
TPR 38x63.1	63	156	93		355	370		0,062	0,48
TPR 38x80.1	80	190	110		355	370		0,078	0,55

Force/stroke ratio

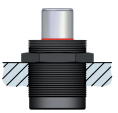


Initial force/charging pressure ratio

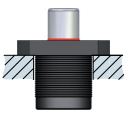


Einbaumöglichkeiten

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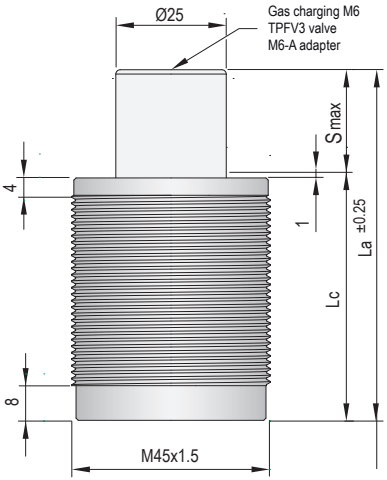

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FRS 38

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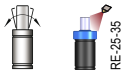
VDI SAFETY

PED 2014/68/UE

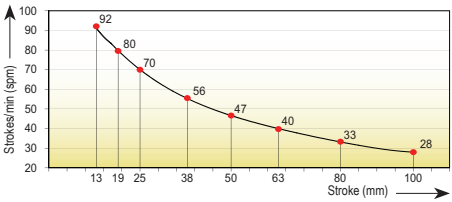


Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	35 Bar
Rod seal area	4,91 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit R45



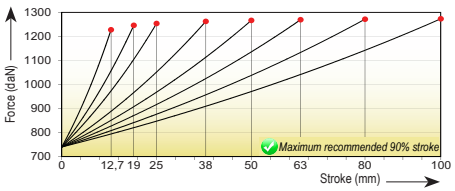


Maximum strokes / minute (at 20°C)

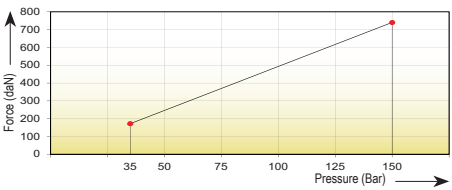


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPR 45x13	12,7	57,4	44,7	740 ±5% (20°C)	1145	1220	150 (20°C)	0,016	0,40
TPR 45x19	19	70	51		1160	1240		0,023	0,47
TPR 45x25	25	82	57		1165	1250		0,030	0,50
TPR 45x38	38	108	70		1175	1255		0,045	0,61
TPR 45x50	50	132	82		1175	1260		0,059	0,69
TPR 45x63	63	159	96		1180	1265		0,074	0,80
TPR 45x80	80	192	112		1180	1265		0,094	0,91
TPR 45x100	100	232	132		1180	1265		0,117	1,10

Force/stroke ratio



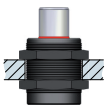
Initial force/charging pressure ratio



Einbaumöglichkeiten

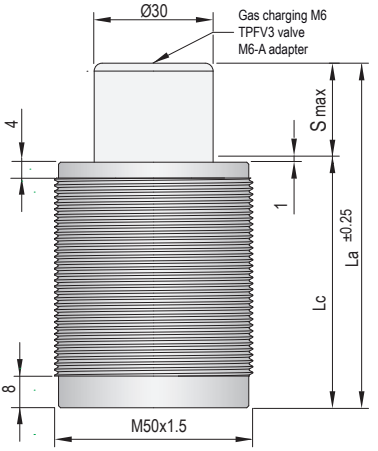
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VDI SAFETY

PED 2014/68/UE

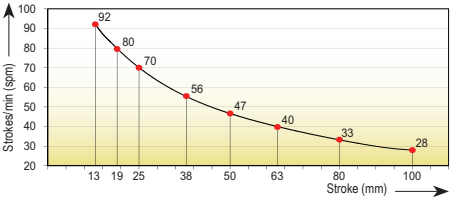


Pressure medium	Nitrogen (N_2)
Max. charging pressure	150 Bar
Min. charging pressure	35 Bar
Rod seal area	7,07 cm^2
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,2 m/s
Maintenance kit	Kit R50



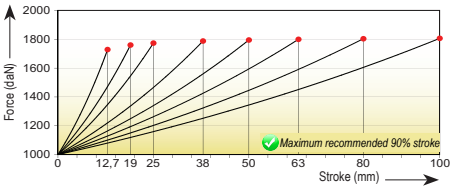


Maximum strokes / minute (at 20°C)

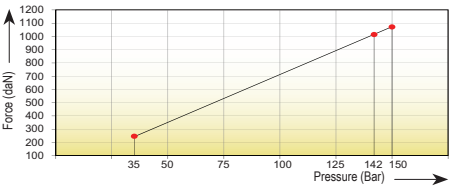


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPR 50x13	12,7	63,4	50,7		1615	1735		0,021	0,59
TPR 50x19	19	76	57		1640	1765		0,031	0,63
TPR 50x25	25	88	63		1650	1780		0,041	0,69
TPR 50x38	38	114	76	1000 ±5% (20°C)	1665	1795	142 (20°C)	0,061	0,80
TPR 50x50	50	138	88		1670	1800		0,080	0,90
TPR 50x63	63	165	102		1675	1805		0,100	1,10
TPR 50x80	80	198	118		1675	1810		0,127	1,15
TPR 50x100	100	238	138		1680	1815		0,158	1,40

Force/stroke ratio

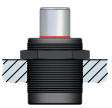


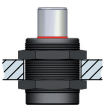
Initial force/charging pressure ratio



Einbaumöglichkeiten

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