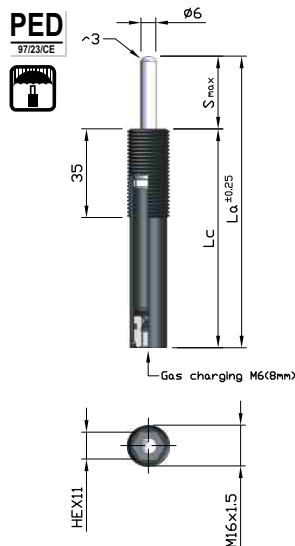


TPR 16



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

175 Bar

Min. charging pressure

35 Bar

Rod seal area

0,28 cm²

Max. working temperature

80°C

Force increase by temperature

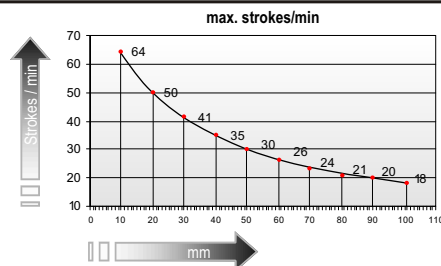
0,33% / 1°C

Max. stem speed

0,5 m/s

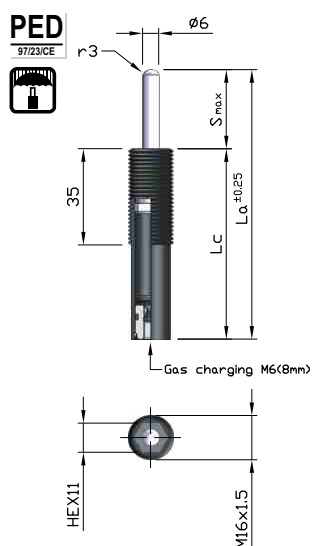
Maintenance kit

kit R16



Code	S max mm	La mm	Lc mm	V	kg	Code	Fa daN	Fc daN	P Bar
TPR 16x10	10	80	70	0,004	0,07	TPR 16x ... F10	10 (±5%)	12	35
TPR 16x20	20	100	80	0,005	0,08	TPR 16x ... F15	15 (±5%)	15	50
TPR 16x30	30	120	90	0,006	0,09	TPR 16x ... F20	20 (±5%)	25	70
TPR 16x40	40	140	100	0,007	0,15	TPR 16x ... F25	25 (±5%)	30	90
TPR 16x50	50	160	110	0,008	0,20	TPR 16x ... F30	30 (±5%)	35	110
TPR 16x60	60	180	120	0,009	0,22	TPR 16x ... F35	35 (±5%)	45	125
TPR 16x70	70	200	130	0,010	0,25	TPR 16x ... F40	40 (±5%)	50	140
TPR 16x80	80	220	140	0,011	0,27	TPR 16x ... F45	45 (±5%)	55	160
TPR 16x100	100	260	160	0,013	0,28	TPR 16x ... F50	50 (±5%)	60	175

TPRB 16



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

175 Bar

Min. charging pressure

35 Bar

Rod seal area

0,28 cm²

Max. working temperature

80°C

Force increase by temperature

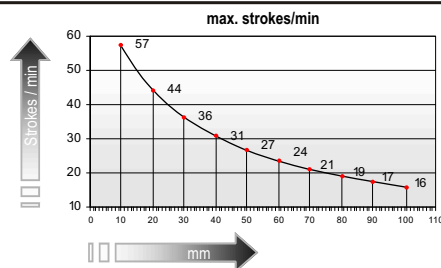
0,33% / 1°C

Max. stem speed

0,5 m/s

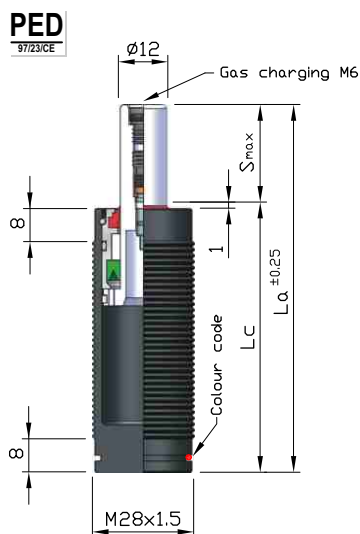
Maintenance kit

kit RB16



Code	S max mm	La mm	Lc mm	V	kg	Code	Fa daN	Fc daN	P Bar
TPRB 16x10	10	65	55	0,002	0,06	TPRB 16x ... F10	10 (±5%)	13	35
TPRB 16x20	20	85	65	0,003	0,07	TPRB 16x ... F15	15 (±5%)	18	50
TPRB 16x30	30	105	75	0,004	0,08	TPRB 16x ... F20	20 (±5%)	25	70
TPRB 16x40	40	125	85	0,005	0,10	TPRB 16x ... F25	25 (±5%)	32	90
TPRB 16x50	50	145	95	0,006	0,15	TPRB 16x ... F30	30 (±5%)	40	110
TPRB 16x60	60	165	105	0,007	0,18	TPRB 16x ... F35	35 (±5%)	45	125
TPRB 16x70	70	185	115	0,008	0,20	TPRB 16x ... F40	40 (±5%)	50	140
TPRB 16x80	80	205	125	0,009	0,21	TPRB 16x ... F45	45 (±5%)	55	160
TPRB 16x100	100	245	145	0,011	0,23	TPRB 16x ... F50	50 (±5%)	60	175

TPR 28



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

175 Bar

Min. charging pressure

25 Bar

Rod seal area

1,13 cm²

Max. working temperature

80°C

Force increase by temperature

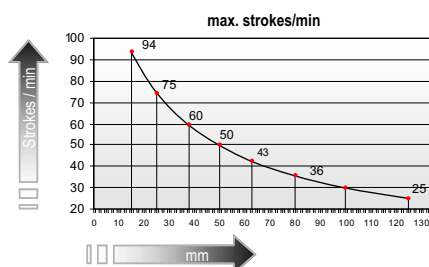
0,33% / 1°C

Max. stem speed

0,6 m/s

Maintenance kit

kit R28



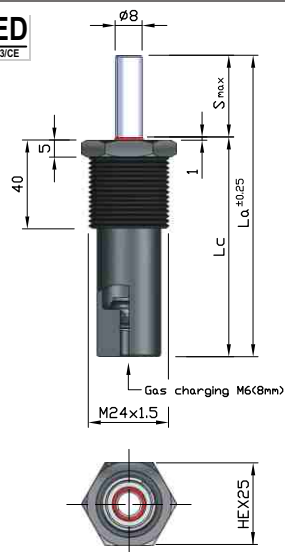
Code	S max mm	La mm	Lc mm	V	kg
TPR 28x15	15	72	57	0,006	0,15
TPR 28x25	25	92	67	0,010	0,17
TPR 28x38	38	118	80	0,014	0,20
TPR 28x50	50	142	92	0,019	0,22
TPR 28x63	63	172	109	0,024	0,25
TPR 28x80	80	205	125	0,030	0,30
TPR 28x125	125	292	167	0,046	0,38

Colour code	Fa daN	Fc daN	P Bar
Green	50 (±5)	70	45
Blue	100 (±10)	140	90
Red	150 (±15)	210	135
Yellow	200 (±20)	270	175
Black	28 - 200	40 - 270	25 - 175

The black colour code denotes the adjustable pressure version (adjustable between 25 and 175 Bar). If not otherwise specified, these gas springs will be supplied in the yellow colour code version.

TPRT 24

PED
97/23/CE



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

175 Bar

Min. charging pressure

20 Bar

Rod seal area

0,50 cm²

Max. working temperature

80°C

Force increase by temperature

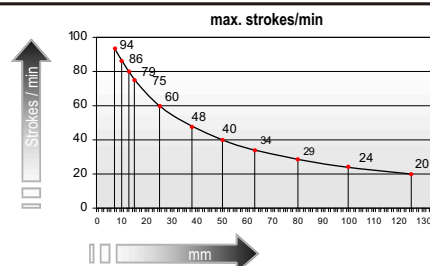
0,33% / 1°C

Max. stem speed

0,5 m/s

Maintenance kit

kit RT24

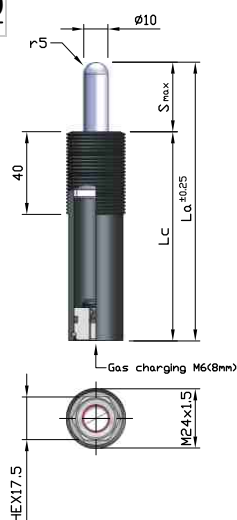


Code	S max mm	La mm	Lc mm	V l	kg
TPRT 24x7	7	56	49	0,002	0,08
TPRT 24x10	10	62	52	0,003	0,09
TPRT 24x13	13	67,4	54,4	0,003	0,10
TPRT 24x15	15	72	57	0,004	0,10
TPRT 24x25	25	92	67	0,006	0,11
TPRT 24x38	38	118	80	0,008	0,14
TPRT 24x50	50	142	92	0,011	0,15
TPRT 24x63	63	172	109	0,014	0,17
TPRT 24x80	80	205	125	0,017	0,19
TPRT 24x100	100	245	145	0,021	0,20
TPRT 24x125	125	295	170	0,026	0,23

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

TPR 24

PED
97/23/CE



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

175 Bar

Min. charging pressure

25 Bar

Rod seal area

0,78 cm²

Max. working temperature

80°C

Force increase by temperature

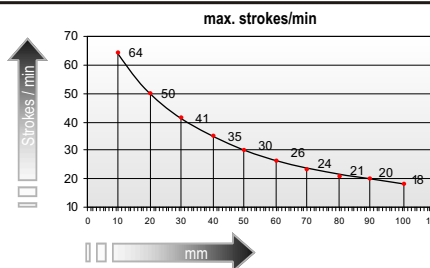
0,33% / 1°C

Max. stem speed

0,5 m/s

Maintenance kit

kit R24

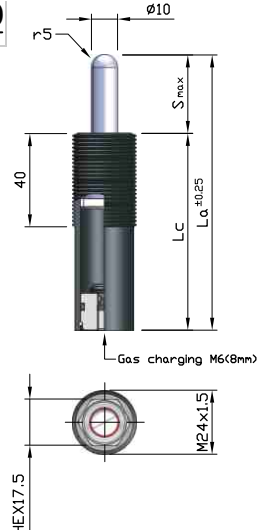


Code	S max mm	La mm	Lc mm	V l	kg
TPR 24x10	10	80	70	0,008	0,20
TPR 24x20	20	100	80	0,011	0,22
TPR 24x30	30	120	90	0,013	0,24
TPR 24x40	40	140	100	0,016	0,25
TPR 24x50	50	160	110	0,018	0,27
TPR 24x60	60	180	120	0,021	0,30
TPR 24x70	70	200	130	0,023	0,35
TPR 24x80	80	220	140	0,026	0,41
TPR 24x100	100	260	160	0,031	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

TPRB 24

PED
97/23/CE



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

175 Bar

Min. charging pressure

25 Bar

Rod seal area

0,78 cm²

Max. working temperature

80°C

Force increase by temperature

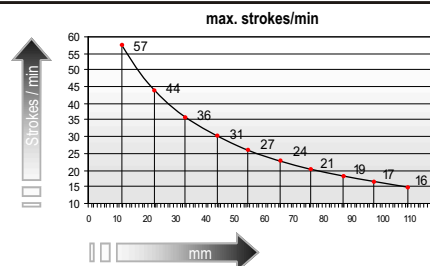
0,33% / 1°C

Max. stem speed

0,5 m/s

Maintenance kit

kit RB24

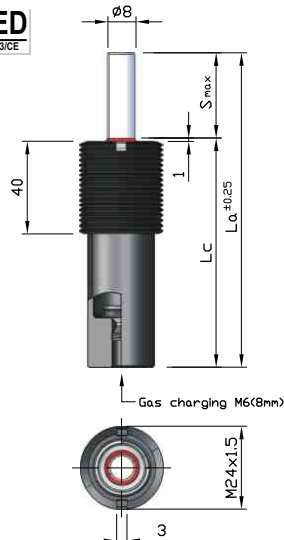


Code	S max mm	La mm	Lc mm	V l	kg
TPRB 24x10	10	65	55	0,004	0,18
TPRB 24x20	20	85	65	0,007	0,20
TPRB 24x30	30	105	75	0,009	0,22
TPRB 24x40	40	125	85	0,012	0,23
TPRB 24x50	50	145	95	0,014	0,25
TPRB 24x60	60	165	105	0,017	0,28
TPRB 24x70	70	185	115	0,019	0,32
TPRB 24x80	80	205	125	0,022	0,38
TPRB 24x100	100	245	145	0,027	0,42

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

TPRC 24

PED
97/23/CE



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

175 Bar

Min. charging pressure

20 Bar

Rod seal area

0,50 cm²

Max. working temperature

80°C

Force increase by temperature

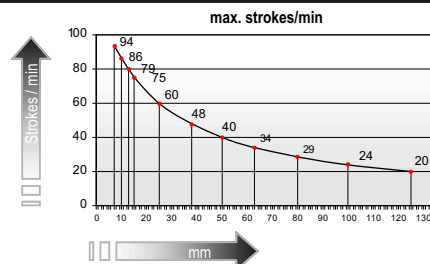
0,33% / 1°C

Max. stem speed

0,5 m/s

Maintenance kit

kit RC24

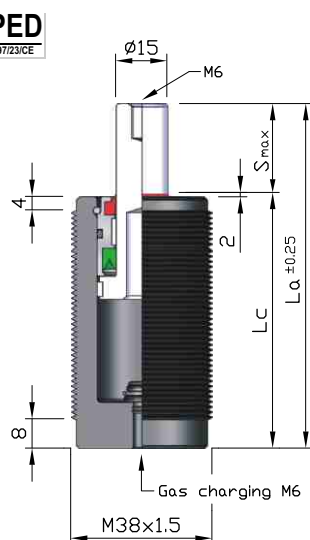


Code	S max mm	La mm	Lc mm	V l	kg
TPRC 24x7	7	56	49	0,002	0,08
TPRC 24x10	10	62	52	0,003	0,08
TPRC 24x13	13	67,4	54,4	0,003	0,08
TPRC 24x15	15	72	57	0,004	0,09
TPRC 24x25	25	92	67	0,006	0,10
TPRC 24x38	38	118	80	0,008	0,12
TPRC 24x50	50	142	92	0,011	0,13
TPRC 24x63	63	172	109	0,014	0,15
TPRC 24x80	80	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

TPR 38

PED
97/23/CE



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

150 Bar

Min. charging pressure

50 Bar

Rod seal area

1,77 cm²

Max. working temperature

80°C

Force increase by temperature

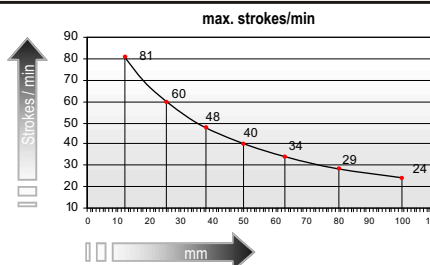
0,33% / 1°C

Max. stem speed

0,8 m/s

Maintenance kit

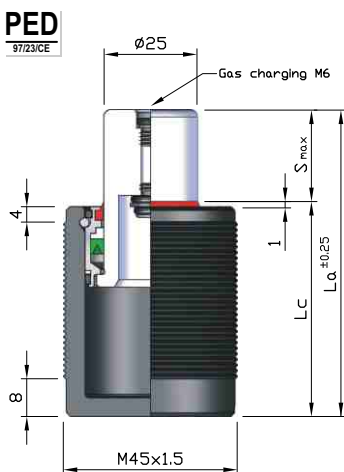
kit R38



Code	S max mm	La mm	Lc mm	Fa daN	Fc daN	P Bar	V l	kg
TPR 38x12	12	75,4	63,4	250 (±5%)	330	142	0,011	0,35
TPR 38x25	25	100	75		355		0,019	0,40
TPR 38x38	38	126	88		365		0,027	0,46
TPR 38x50	50	150	100		370		0,035	0,54
TPR 38x63	63	177	114		375		0,044	0,61
TPR 38x80	80	210	130		380		0,054	0,72
TPR 38x100	100	250	150		383		0,066	0,80

TPR 45

PED
97/23/CE



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

150 Bar

Min. charging pressure

35 Bar

Rod seal area

4,91 cm²

Max. working temperature

80°C

Force increase by temperature

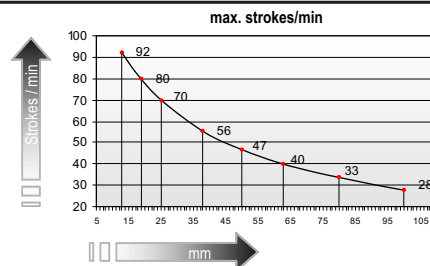
0,33% / 1°C

Max. stem speed

0,8 m/s

Maintenance kit

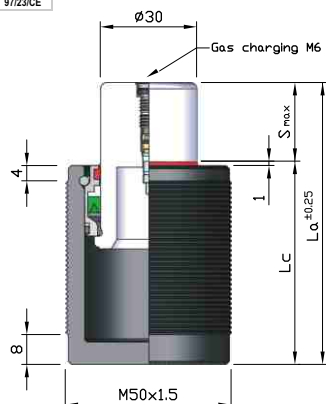
kit R45



Code	S max mm	La mm	Lc mm	Fa daN	Fc daN	P Bar	V l	kg
TPR 45x13	12,7	57,4	44,7	750 (±5%)	1080	150	0,020	0,40
TPR 45x19	19	70	51		1130		0,027	0,47
TPR 45x25	25	82	57		1155		0,034	0,50
TPR 45x38	38	108	70		1185		0,049	0,61
TPR 45x50	50	132	82		1200		0,064	0,69
TPR 45x63	63	159	96		1210		0,079	0,80
TPR 45x80	80	192	112		1220		0,099	0,91
TPR 45x100	100	232	132		1225		0,123	1,10

TPR 50

PED
97/23/CE



Pressure medium

Nitrogen Gas (N₂)

Max. charging pressure

150 Bar

Min. charging pressure

35 Bar

Rod seal area

7,07 cm²

Max. working temperature

80°C

Force increase by temperature

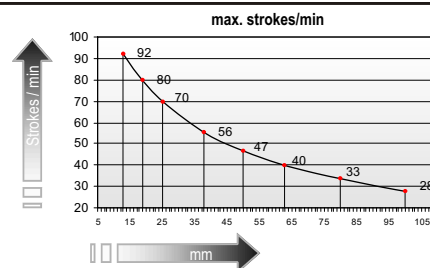
0,33% / 1°C

Max. stem speed

0,8 m/s

Maintenance kit

kit R50



Code	S max mm	La mm	Lc mm	Fa daN	Fc daN	P Bar	V l	kg
TPR 50x13	12,7	63,4	50,7	1000 (±5%)	1550	142	0,025	0,59
TPR 50x19	19	76	57		1630		0,035	0,63
TPR 50x25	25	88	63		1670		0,044	0,69
TPR 50x38	38	114	76		1715		0,065	0,80
TPR 50x50	50	138	88		1740		0,084	0,90
TPR 50x63	63	165	102		1755		0,104	1,10
TPR 50x80	80	198	118		1770		0,131	1,15
TPR 50x100	100	238	138		1780		0,162	1,40

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