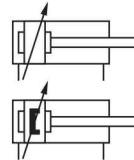


- > Ø 32 ... 125 mm
- > High performance, stability and reliability
- > M/50 switches can be mounted flush with the profile
- > Cylinders and mountings conform to ISO 15552 (ISO 6431, VDMA 24562 and NFE 49-003-1)
- > Comprehensive range of mountings
- > Polyurethane seals ensure efficient low friction operation and long life



Technical features

Medium:

Compressed air, filtered, lubricated or non-lubricated

Standard:

ISO 15552

Operation:

PRA/182000: Double acting, adjustable cushioning
PRA/182000/M: Double acting, adjustable cushioning and magnetic piston

Operating pressure:

1 ... 16 bar (14 ... 232 psi)

Ports:

G1/8 ... G1/2

Cylinder diameters:

32, 40, 50, 63, 80, 100, 125 mm

Strokes:

See page below

Non-standard strokes:

Available (10 ... 3000 mm)

Operating temperature:

-20 ... +80°C max. (-4 ... +176 °F)

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:

Profile barrel: anodised aluminium,
End covers: pressure diecast aluminium
Piston rod: stainless steel (martensitic)
Piston rod seals: PUR
Piston seals: PUR
O-rings: NBR

Technical data

Cylinder Ø (mm)	32	40	50	63	80	100	125
Port size	G1/8	G1/4	G1/4	G3/8	G3/8	G1/2	G1/2
Piston rod Ø (mm)	12	16	20	20	25	25	32
Piston rod thread	M10 x 1,25	M12 x 1,25	M16 x 1,5	M16 x 1,5	M20 x 1,5	M20 x 1,5	M27 x 2
Cushion length (mm)	19	22	24	24	27	34	41
Initial cushion volume (cm ³)	12,3	20,7	36	64	116	242	451
Theoretical thrusts at 6 bar outstroke (N)	482	754	1178	1870	3016	4710	7363
Theoretical thrusts at 6 bar instroke (N)	414	633	990	1680	2722	4416	6882
Air consumption at 6 bar outstroke (l/cm)	0,056	0,088	0,137	0,218	0,35	0,55	0,86
Air consumption at 6 bar instroke (l/cm)	0,048	0,074	0,114	0,195	0,32	0,51	0,79

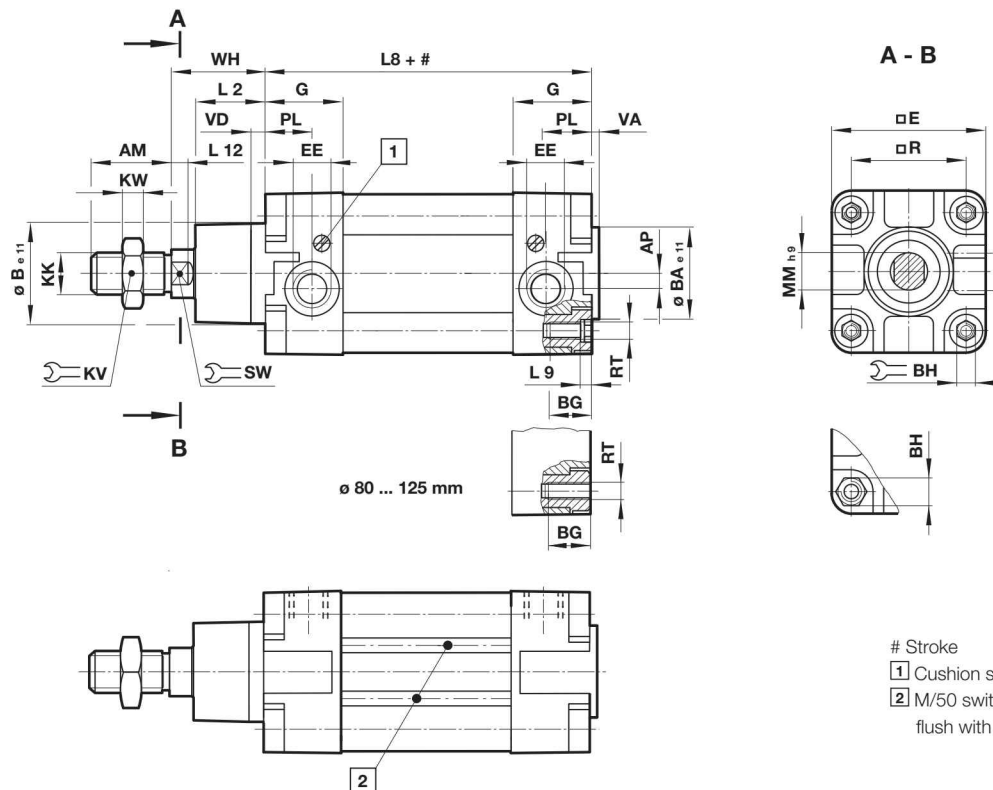
Standard strokes

Cylinder Ø (mm)	Stroke length (mm)										
	25	50	80	100	125	160	200	250	320	400	500
32	•	•	•	•	•	•	•	•	•	•	•
40	•	•	•	•	•	•	•	•	•	•	•
50	•	•	•	•	•	•	•	•	•	•	•
63	•	•	•	•	•	•	•	•	•	•	•
80	•	•	•	•	•	•	•	•	•	•	•
100	•	•	•	•	•	•	•	•	•	•	•
125	•	•	•	•	•	•	•	•	•	•	•

Basic dimensions

PRA/182000; PRA/182000/M – Standard cylinder

Dimensions in mm
Projection/First angle



- # Stroke
- 1 Cushion screw
- 2 M/50 switches can be mounted flush with the profile

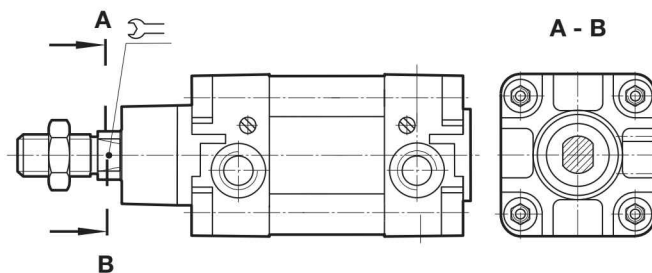
\varnothing	AM	AP	$\varnothing B_{e11}$	$\varnothing BA_{e11}$	BG	BH	E	EE	G	KK	KV	KW	L2	L8	L9
32	22	3,5	30	30	16	6	47	G 1/8	27,5	M10x1,25	17	5	20	94	4
40	24	4,5	35	35	16	6	53	G 1/4	32	M12x1,25	19	6	22	105	4
50	32	6	40	40	16	8	65	G 1/4	31	M16x1,5	24	8	27	106	5
63	32	10	45	45	16	8	75	G 3/8	33	M16x1,5	24	8	29	121	5
80	40	8,5	45	45	17	19	95	G 3/8	33	M20x1,5	30	10	33	128	-
100	40	9	55	55	17	19	115	G 1/2	37	M20x1,5	30	10	36	138	-
125	54	10	60	60	20	24	140	G 1/2	46	M27x2	41	13,5	45	160	-
\varnothing	L12	$\varnothing \text{MM } h_9$	PL	R	RT	SW	VA	VD	WH	at 0 mm	per 25 mm	Model non-magnetic piston	Model magnetic piston		
32	6	12	13	32,5	M 6	10	3	6	26	0,51 kg	0,06 kg	PRA/182032/*	PRA/182032/M/*		
40	6,5	16	15	38	M 6	13	3,5	6	30	0,80 kg	0,08 kg	PRA/182040/*	PRA/182040/M/*		
50	8	20	18,5	46,5	M 8	17	3,5	6	37	1,33 kg	0,12 kg	PRA/182050/*	PRA/182050/M/*		
63	8	20	19	56,5	M 8	17	4	6	37	1,80 kg	0,13 kg	PRA/182063/*	PRA/182063/M/*		
80	10	25	19	72	M 10	22	4	6	46	3,25 kg	0,20 kg	PRA/182080/*	PRA/182080/M/*		
100	10	25	18	89	M 10	22	4	6	51	4,81 kg	0,23 kg	PRA/182100/*	PRA/182100/M/*		
125	13	32	20	110	M 12	27	6	15,5	65	8,00 kg	0,33 kg	PRA/182125/*	PRA/182125/M/*		

* Please insert standard stroke length.

Cylinder variants

PRA/182000/N1, PRA/182000/N2 – Cylinder with non-rotating piston rod

\varnothing	max. Torque (Nm)	Model non-magnetic piston	Model magnetic piston	
32	10	0,5	PRA/182032/N1/*	PRA/182032/N2/*
40	13	1	PRA/182040/N1/*	PRA/182040/N2/*
50	16	1,5	PRA/182050/N1/*	PRA/182050/N2/*
63	16	1,5	PRA/182063/N1/*	PRA/182063/N2/*
80	16	2,5	PRA/182080/N1/*	PRA/182080/N2/*
100	21	2,5	PRA/182100/N1/*	PRA/182100/N2/*



* Please insert standard stroke length.