

Profile cylinders, series PRA, PRB

Series PRB, 125 mm dia., double-acting,
proximity switching and cushioning



Rexroth
Bosch Group



Technical Data

Standard	ISO 15552 (ISO 6431, VDMA 24562) NF E 49-003-1, UNI	
Working pressure, max.	1–10 bar (15 to 145 psi)	
Ambient temperature range	-20 °C to +80 °C (-4 °F to +176 °F)	
Medium	Compressed air	ISO 8573-1:2001, class 6-4-3 or lower*
Materials	Piston rod Cylinder barrel End covers	Stainless steel, smooth-rolled Anodized aluminum Die-cast aluminum

Application area

The grooves on the profile cylinder enable the cylinder switches to be fastened quickly.

* Particle size ≤ 5 µm, dew point ≤ 3 °C, oil content ≤ 1 mg/m³



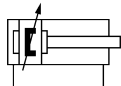
Technical information

Piston Ø	[mm]	125
Theoretical piston force at 6 bar (87 psi)	push stroke [N] (lbf)	6479 (1460)
	pull stroke [N] (lbf)	6056 (1360)
Cushioning length	[mm]	36
Weight	0 mm stroke [kg] (lbs)	7,800 (17.2)
	add. per 100 mm [kg] (lbs)	1,300 (2.87)

Cushioning diagram, see Technical Information to the BRP Catalogue

Part no.

Piston Ø	125
Piston rod thread	M27x2
Threaded port	G1/2
Temperature range	-20 °C to +80 °C (-4 °F to +176 °F)
Stroke	
25	0822356001
50	0822356002
80	0822356003
100	0822356004
125	0822356005
160	0822356006
200	0822356007
250	0822356008
320	0822356009
400	0822356010
500	0822356011
Max. stroke ²⁾	3000



²⁾ Longer strokes on request.

Intermediate strokes may be delivered, e.g. 30 mm stroke: D = 125 mm; 08223560xx/H30

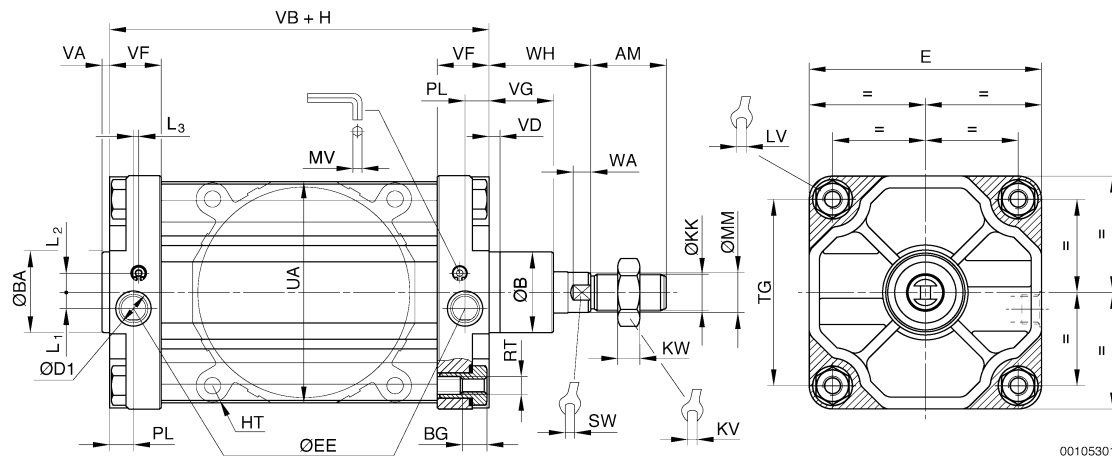
Accessories (to be ordered separately)

Symbol	Type	125
	Piston dia.	
	Front or rear flange	1827004861
	Angle brackets	1827001310
	Rear clevis	1827004862
	Proximity Reed switch, M8 (Micro)	0830100488
	Proximity Reed switch, with 3 m cable (Midi)	0830100606
	Clamp sensor (Micro)	1827020287
	Clamp for sensor (Midi) (Observe permissible temperature range)	1827020084
	Rod clevis	1827001493
	Ball eye rod end	1822124013

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00105301

H = Stroke

Piston Ø	AM	B e11	E	EE	KK	VD	WH	BA e11	BG	KV	KW	MM f7	PL	RT	SW
125	54	60	140	G1/2	M27x2	10	65	60	20	41	13,5	32	30	M12	27

Piston Ø	TG	VA	VB	VF	VG	WA	D1	HT	LV	L1	L2	L3	MV	UA
125	110	5	160	49	45	13	27	10	24	13	13	0	5	13