

# Tie rod cylinders, Series TRB

32–100 mm dia., double-acting, cushioning, proximity switching



**Rexroth**  
Bosch Group



## Technical Data

Standard	ISO 15552 (metric version)
Working pressure, max.	1–10 bar (15–145 psi)
Ambient temperature range	-20 °C to +80 °C (-4 °F to +176 °F)
Medium	Compressed air, lubricated or non-lubricated

Materials	Piston rod	Stainless steel, smooth-rolled
	Cylinder body	Anodized aluminum
	End covers	Die-cast aluminum



## Application area

Tie rod version

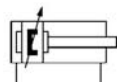


## Technical information

Piston Ø	[mm]	32	40	50	63	80	100
Theoretical piston force at 6 bar (87 psi)	push stroke	[N] 422 (95)	665 (150)	1035 (233)	1647 (370)	2656 (597)	4145 (932)
	pull stroke	[N] 364 (82)	560 (126)	871 (196)	1478 (332)	2397 (539)	3886 (874)
Cushioning length	[mm]	18	23	23	27	33	35
Weight	0 mm stroke	[kg] 0,570 (1.257)	0,730 (1.609)	1,190 (2.624)	1,560 (3.439)	2,60 (5.73)	3,80 (8.38)
	add. per 100 mm	[kg] 0,220 (0.485)	0,320 (0.706)	0,470 (1.036)	0,540 (1.190)	0,85 (1.87)	1,00 (2.21)

## Part no.

Piston Ø	32	40	50	63	80
Piston rod thread	M 10 x 1,25	M 12 x 1,25	M 16 x 1,5	M 16 x 1,5	M 20 x 1,5
Threaded port	G 1/8	G 1/4	G 1/4	G 3/8	G 3/8
Stroke					
25	0 822 340 001	0 822 341 001	0 822 342 001	0 822 343 001	0 822 344 001
50	0 822 340 002	0 822 341 002	0 822 342 002	0 822 343 002	0 822 344 002
80	0 822 340 003	0 822 341 003	0 822 342 003	0 822 343 003	0 822 344 003
100	0 822 340 004	0 822 341 004	0 822 342 004	0 822 343 004	0 822 344 004
125	0 822 340 005	0 822 341 005	0 822 342 005	0 822 343 005	0 822 344 005
160	0 822 340 006	0 822 341 006	0 822 342 006	0 822 343 006	0 822 344 006
200	0 822 340 007	0 822 341 007	0 822 342 007	0 822 343 007	0 822 344 007
250	0 822 340 008	0 822 341 008	0 822 342 008	0 822 343 008	0 822 344 008
320	0 822 340 009	0 822 341 009	0 822 342 009	0 822 343 009	0 822 344 009
400	0 822 340 010	0 822 341 010	0 822 342 010	0 822 343 010	0 822 344 010
500	0 822 340 011	0 822 341 011	0 822 342 011	0 822 343 011	0 822 344 011
Max. stroke <sup>2)</sup>	2600	2600	2600	2600	2600
Piston Ø	100				
Piston rod thread	M 20 x 1,5				
Threaded port	G 1/2				
Stroke					
25	0 822 345 001				
50	0 822 345 002				
80	0 822 345 003				
100	0 822 345 004				
125	0 822 345 005				
160	0 822 345 006				
200	0 822 345 007				
250	0 822 345 008				
320	0 822 345 009				
400	0 822 345 010				
500	0 822 345 011				
Max. stroke <sup>2)</sup>	2600				



<sup>2)</sup> Intermediate strokes may be delivered, e.g., D = 32 mm; H = 650 mm: 0 822 340 0xx/H650

Note: Custom stroke lengths plus 125mm bore size (metric version) and 32mm to 100mm bores with inch ports/piston rod threads are available from on-line configurator.