Dimension verification sheet

Pneumatic cylinder

Drawing RFS-DEMO-0126-01 · rev. B
Model measured Final 3D scene of the video, cutaway and exterior
Verification date 03-11-2026

The 15 dimensions on the cylinder drawing, measured again on the 3D model used to make the video. This is the sheet that comes with every delivery.

13 within tolerance · 2 declared simplifications · 0 out of tolerance

ID	DIMENSION	DRAWING (MM)	TOLERANCE	MODEL (MM)	RESULT
C01	Barrel outer Ø	38	ISO 2768-m (±0.3)	38.00	Within tolerance
C02	Barrel bore Ø	32	H9	32.00	Within tolerance
C03	Rod Ø	12	f8	12.00	**Declared simplification**
C04	Rear cap, height × width	□46	ISO 2768-m (±0.3)	46.00 × 46.00	Within tolerance
C05	Front cap, height × width	□46	ISO 2768-m (±0.3)	46.00 × 46.00	Within tolerance
C06	Rear cap thickness	24	ISO 2768-m (±0.2)	24.00	Within tolerance
C07	Barrel visible between caps	66	ISO 2768-m (±0.3)	66.00	Within tolerance
C08	Front cap thickness	28	ISO 2768-m (±0.2)	28.00	Within tolerance
C09	Body, face to face	118	ISO 2768-m (±0.3)	118.00	Within tolerance
C10	Overall length, rod retracted	150	ISO 2768-m (±0.5)	150.00	Within tolerance
C11	Overall length, rod extended	200	ISO 2768-m (±0.5)	200.00	Within tolerance
C12	Stroke	50	–	50.00	Within tolerance
C13	Tie-rod centres	□32	ISO 2768-m (±0.3)	32.00 × 32.00	Within tolerance
C14	Rod length	126	ISO 2768-m (±0.5)	126.00	Within tolerance
C15	Tie-rod length	104	ISO 2768-m (±0.3)	–	**Declared simplification**

Notes

- C03: the rod is modelled at its nominal size, 12.00; the f8 fit (11.957–11.984) is a manufacturing tolerance and is not drawn.
- C15: only the visible part of the tie rod is modelled; the part hidden inside the caps is not drawn.
- Measured on the final 3D scene, in two versions (cutaway and exterior) and with two independent measuring programs. Geometry error allowed: ±0.01 mm. Our own demonstration design.