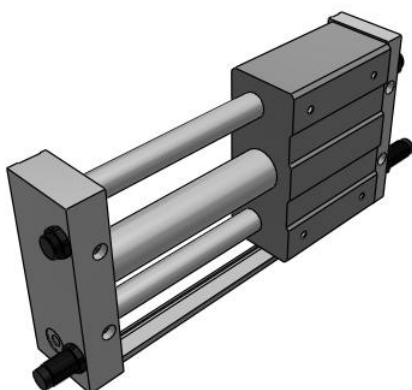




CY1L, Magnetically Coupled Rodless Cylinder, Ball Bushing CY1L40TFH-200B

Datasheet

General series information

- Slider style: ball bushing bearing
- Bore sizes: 6, 10, 15, 20, 25, 32, & 40 (mm)
- Strokes from 50mm through 1000mm
- Available with high or low magnetic holding force
- Available with shock absorbers
- Auto-switch capable



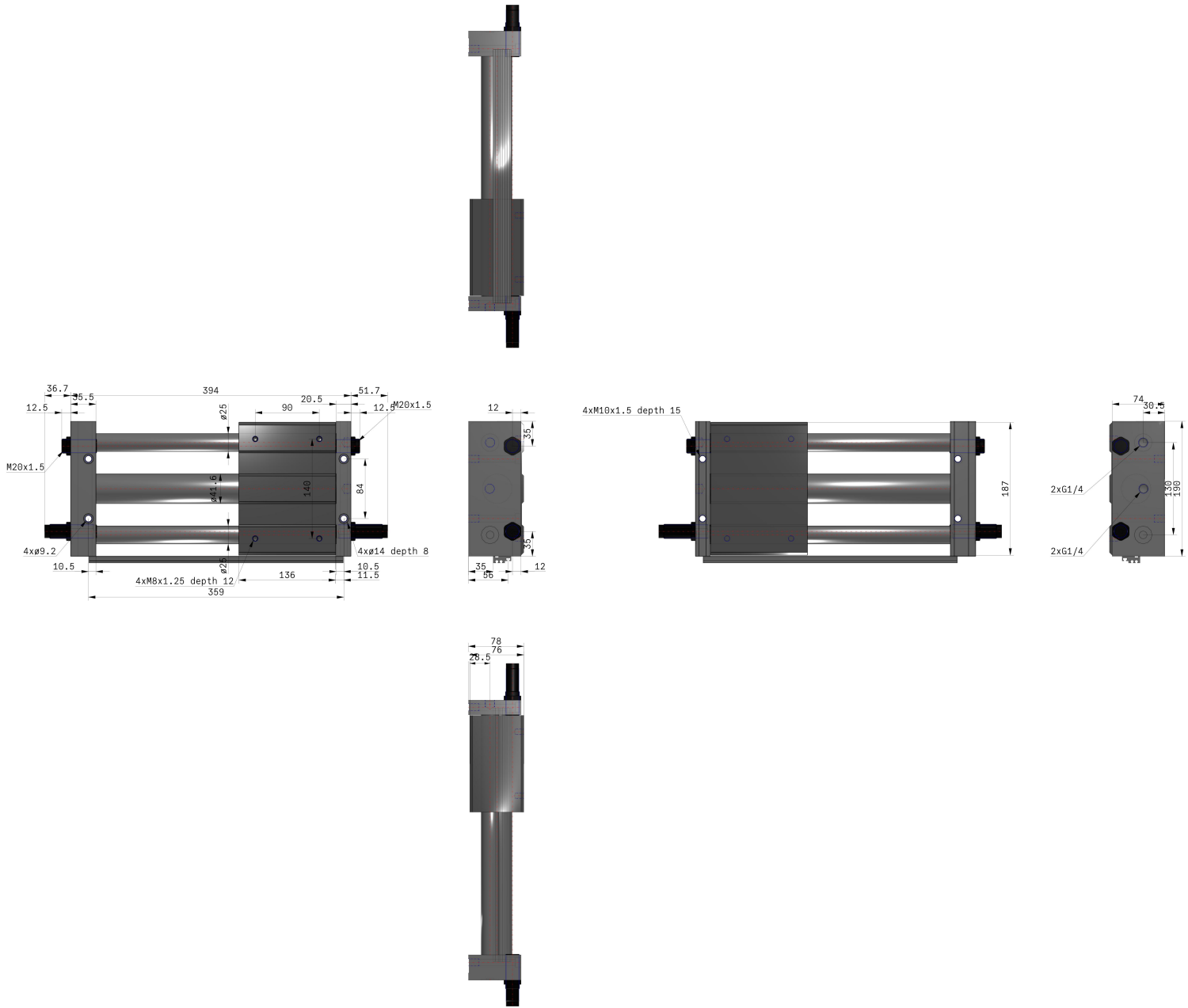
Magnetically coupled rodless cylinder

Standard specifications

Bore Size	40 mm
Port Thread	TF (G)
Magnetic Holding Force	H (Large Holding Force)
Stroke	200
Adjuster	B (Shock Absorber (2 pcs.))
Auto Switch	None
Lead Wire or Pre-wired Connector	0.5 m (Or None in the Case of No Switch)
Number	2 pcs. (Or None in Case of No Switch)
Maximum operating pressure	0.7 MPa
Minimum operating pressure	0.18 MPa
Proof pressure	1.05 MPa
Type of cushioning	Shock absorber/Rubber bumper
Lubrication	Non-lube
Fluid	Air
Ambient and fluid temperature	-10 - 60 °C
Stroke length tolerance	0 to 250 st: +1.0 mm , 251 to 1000 st: +1.4 mm, 1001 st to: +1.8 mm

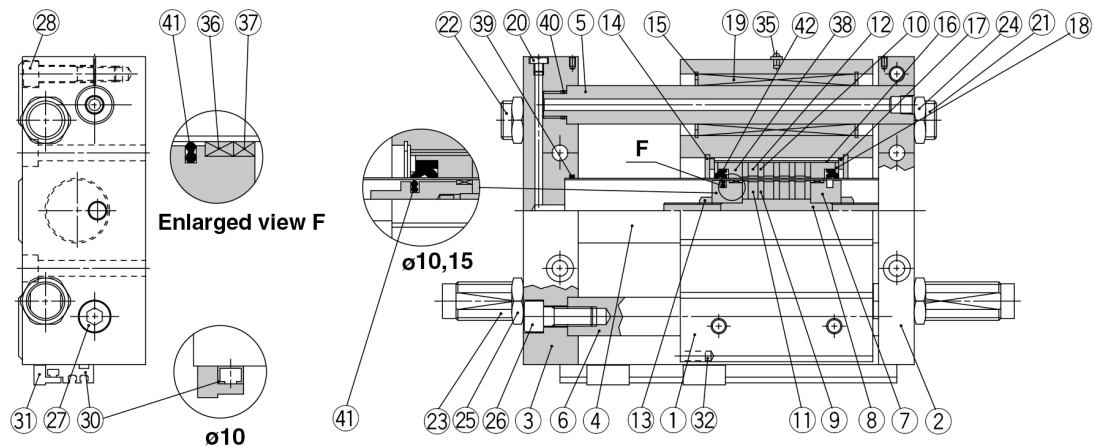
F452 - Magnetic Holding Force	922 N
Piston speed	50 - 500 mm/s
Mounting orientation	Unrestricted

Dimensions



Constructions

CY1L10 to 40



Component Parts

No.	Description	Material	Note
①	Slide block	Aluminum alloy	Hard anodized
②	Plate A	Aluminum alloy	Hard anodized
③	Plate B	Aluminum alloy	Hard anodized
④	Cylinder tube	Stainless steel	
⑤	Guide shaft A	Carbon steel	Hard chrome plated
⑥	Guide shaft B	Carbon steel	Hard chrome plated
⑦	Piston	Aluminum alloy ⁽¹⁾	Chromated
⑧	Shaft	Stainless steel	
⑨	Piston side yoke	Rolled steel plate	Zinc chromated
⑩	External slider side yoke	Rolled steel plate	Zinc chromated
⑪	Magnet A	Rare earth magnet	
⑫	Magnet B	Rare earth magnet	
⑬	Piston nut	Carbon steel	Zinc chromated ø25 to ø40
⑭	Snap ring	Carbon tool steel	Nickel plated
⑮	Snap ring	Carbon tool steel	Nickel plated
⑯	External slider tube	Aluminum alloy	
⑰	Slider spacer	Rolled steel plate	Nickel plated
⑱	Spacer	Rolled steel plate	Nickel plated
⑲	Ball bushing	—	
⑳	Plug	Brass	ø25, ø32, ø40 only
㉑	Adjustment bolt A	Chrome molybdenum steel	Nickel plated
㉒	Adjustment bolt B	Chrome molybdenum steel	Nickel plated
㉓	Shock absorber	—	
㉔	Hexagon nut	Carbon steel	Nickel plated
㉕	Hexagon nut	Carbon steel	Nickel plated
㉖	Hex socket head screw	Chrome molybdenum steel	Nickel plated
㉗	Hex socket head screw	Chrome molybdenum steel	Nickel plated
㉘	Hex socket head screw	Chrome molybdenum steel	Nickel plated

Note 1) Brass for ø6, ø10, ø15

No.	Description	Material	Note
29	Hexagon socket head screw	Chrome molybdenum steel	Nickel plated
30	Switch mounting rail	Aluminum alloy	
31	Auto switch	—	
32	Magnet for auto switch	Rare earth magnet	
33	Steel ball	—	ø6, ø10, ø15 only
34	Side cover	Carbon steel	ø6 only
35	Grease cup	Carbon steel	ø15 or larger
36*	Wear ring A	Special resin	
37*	Wear ring	Special resin	
38*	Wear ring B	Special resin	
39*	Cylinder tube gasket	NBR	
40*	Guide shaft gasket	NBR	
41*	Piston seal	NBR	
42*	Scraper	NBR	

Additional information

Catalogue	CY1_EU.pdf
Operation manuals	OM_CY1L_OM0002C_EN.pdf