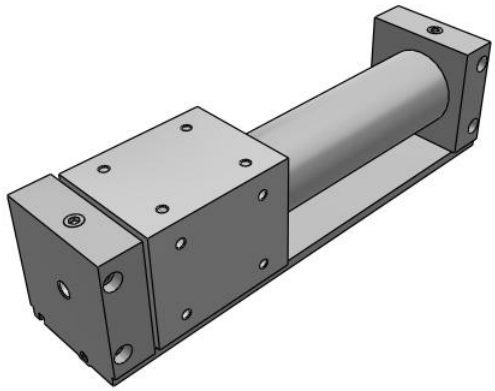

CY3R, Magnetically Coupled Rodless Cylinder (with Switch Rail)

CY3R63TF-200

Datasheet

General series information

- Magnetically coupled rodless cylinder
- Direct mount type, with switch rail
- Bore sizes (mm): 6, 10, 15, 20, 25, 32, 40, 50, 63
- Maximum operating pressure: 0.7MPa
- Ambient temperature: -10 to 60°C
- Variety of auto switches available

Magnetically coupled rodless cylinder

Standard specifications

Piping	Standard
Bore Size	63 mm
Port Thread	TF (G)
Stroke	200
Auto Switch	No Switch
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	0.12 MPa
Proof pressure	1.05 MPa
Type of cushioning	Rubber bumper on both ends
Lubrication	Non-lube
Fluid	Air
Ambient and fluid temperature	-10 - 60 °C
Stroke length tolerance	0 to 250 st: +1.0 , 251 to 1000 st: +1.4, 1001 st to: +1.8
F450 - Mounting	Direct mount type
F452 - Magnetic Holding Force	2256 N

Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.

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Piston speed	50 - 500 mm/s
Mounting orientation	Horizontal, Inclined, Vertical
Weight	6.132 Kg

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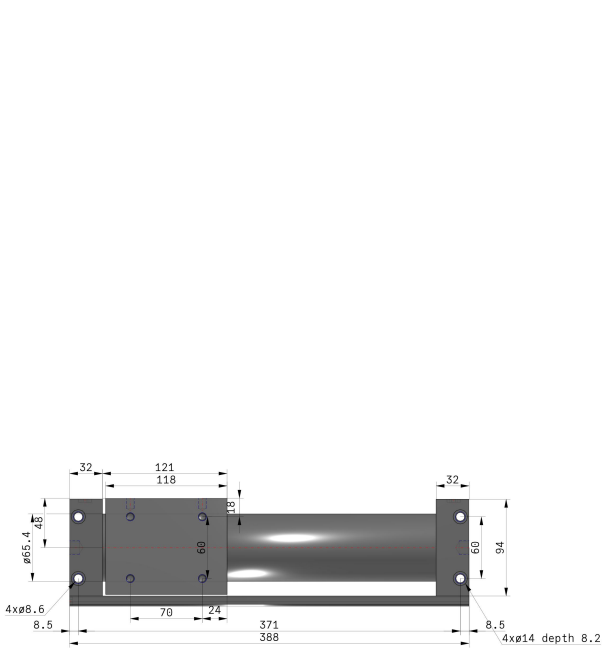
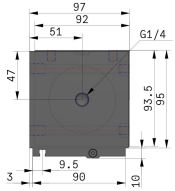
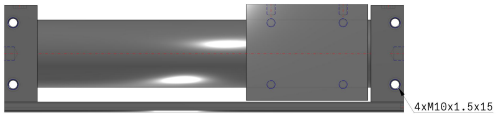
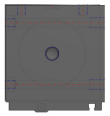
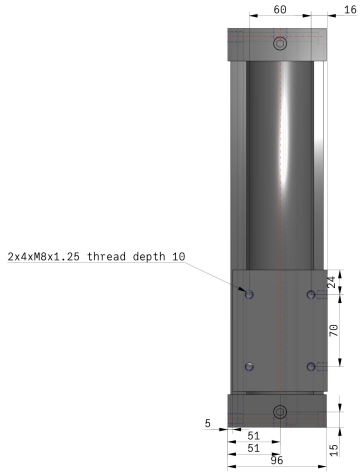
Dimensions











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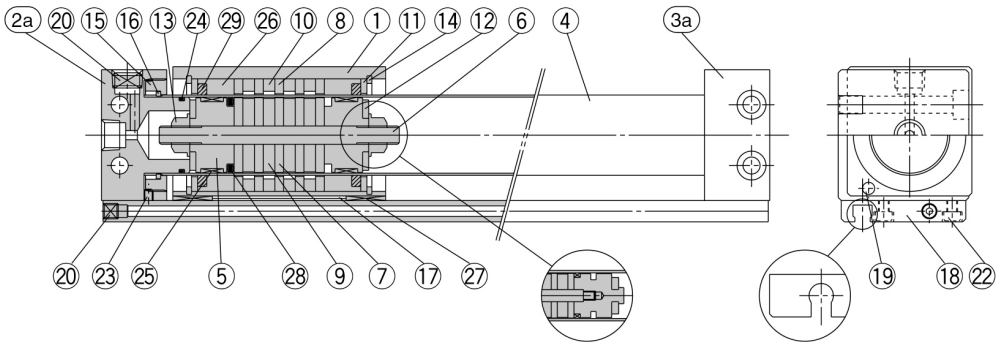
Constructions

Both sides piping type

CY3R15 to 63



CY3R15, 20 CY3R15

Component Parts

No.	Description	Material	Note
1	**Body**	Aluminum alloy	Hard anodized
2a	**End cover A**	Aluminum alloy	Electroless nickel plated
2b	**End cover C**	Aluminum alloy	Electroless nickel plated
3a	**End cover B**	Aluminum alloy	Electroless nickel plated
3b	**End cover D**	Aluminum alloy	Electroless nickel plated
4	**Cylinder tube**	Stainless steel	
5	**Piston**	ø6 to ø15 Brass	ø6 to ø15 Electroless nickel plated
		ø20 to ø63 Aluminum alloy	ø20 to ø63 Chromate
6	**Shaft**	Stainless steel	
7	**Piston side yoke**	Rolled steel plate	Zinc chromated
8	**External slider side yoke**	Rolled steel plate	Zinc chromated
9	**Magnet A**	Rare earth magnet	
10	**Magnet B**	Rare earth magnet	
11	**Spacer**	Aluminum alloy	Black anodized (ø6: not available)
12	**Bumper**	Urethane rubber	
13	**Piston nut**	Carbon steel	Zinc chromate (ø6 to ø15: not available)
14	**C type snap ring for hole**	Carbon tool steel	Nickel plated
15	**Attachment ring**	Aluminum alloy	Chromate
16	**C type snap ring for shaft**	Hard steel wire	
17	**Magnetic shielding plate**	Rolled steel plate	Chromated (ø6, ø10: not available)
18	**Switch rail**	Aluminum alloy	White anodized
19	**Magnet**	Rare earth magnet	
20	**Hexagon socket head plug**	Chromium steel	Nickel plated

No.	Description	Material	Note
21	**Steel balls**	Chromium steel	ø40 Hexagon socket head plug
			ø20, ø50, ø63 None
22	**Hexagon socket head screw**	Chromium steel	Nickel plated
23	**Hexagon socket head set screw**	Chromium steel	Nickel plated
24*	**Cylinder tube Gasket**	NBR	
25*	**Wear ring A**	Special resin	
26*	**Wear ring B**	Special resin	
27*	**Wear ring C**	Special resin	
28*	**Piston seal**	NBR	
29*	**Lubretainer**	Special resin	
30*	**Switch rail gasket**	NBR	Both sides piping type: None

* Seal kits are sets consisting of numbers 24 through 30. Order using the kit number corresponding to each bore size.

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Additional information

Catalogue	CY3-C_EU.pdf
Operation manuals	OM_CYBx_OM0001EN-A.pdf OM_CY3R_OM0001H_EN.pdf

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