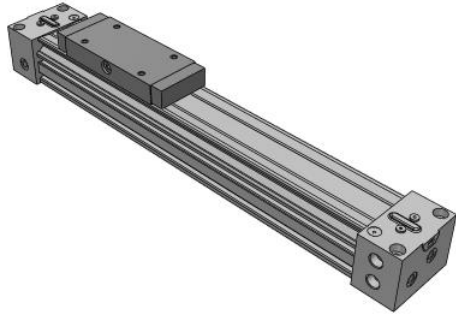




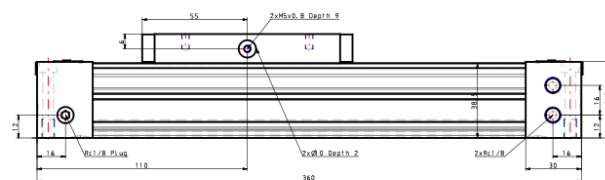
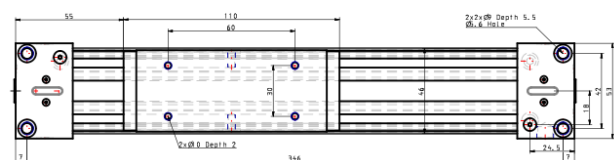
MY1B-Z, Mechanical Joint Rodless Cylinder, Basic Type w/o Stroke Adjustment MY1B25TFG-140Z

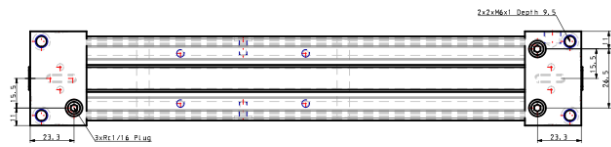
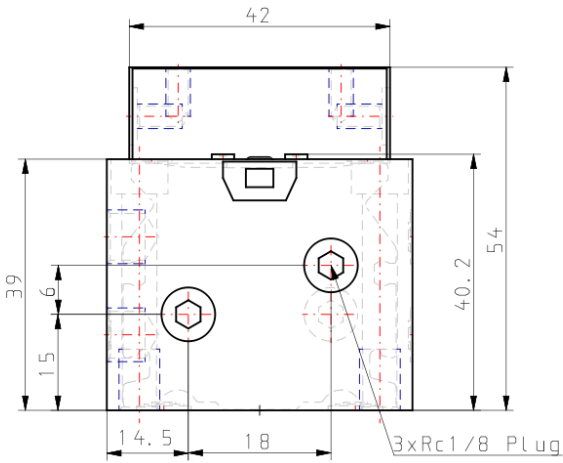
Datasheet

At SMC we are rolling out upgraded mechanically jointed rodless cylinders that will give our customers improved performance and functionality. The MY1H-Z linear guide cylinder, ideal for high repeatability applications, has a new magnetic dust seal band minimising the number of external particles entering the system. Following requests for a lighter mechanically jointed rodless cylinder with improved auto switch mounting, we are pleased to unveil our new MY1B-Z Series. Up to 17% lighter than our existing rodless cylinder basic type, these lightweight cylinders can now be mounted with our dual colour Series D-M9*W solid state auto switch at any point along the mounting grooves. The cushion needle, which is now placed in the top for easier accessibility, can be adjusted using a simple hexagon wrench.

Bore Size	25mm
Port Thread	TF (G)
Piping	G (Centralized Piping Type)
Stroke	140
Stroke Adjustment Unit	Left: w/o Unit
Right	w/o Unit
Auto Switch	No Switch
Lead Wire or Prewired Connector	0.5m (Or None in the Case of No Switch)
Number	2 pcs. (Or None in the Case of No Switch)
Pressure medium	Compressed air
Maximum temperature of pressure medium	60 °C
Maximum temperature of pressure medium with magnet	60 °C
Minimum temperature of pressure medium	5 °C
Minimum temperature of pressure medium with magnet	5 °C
Maximum operating pressure	0.8 MPa
Minimum operating pressure	0.1 MPa
Proof pressure	1.2 MPa
Maximum ambient temperature	60 °C
Maximum ambient temperature with magnet	60 °C
Minimum ambient temperature	5 °C
Minimum ambient temperature with magnet	5 °C
Conform to the European RoHS Directive	Conform
Numero of pneumatic connections	2 pcs.
Pneumatic input connection	R 1/8
Mode of operation of drive	Double acting
Theoretical cylinder force, advance stroke (at 0.5 MPa)	245 N
Maximum piston speed	1000 mm/s
Type of cushioning	Air cushion
Weight	1.448 Kg

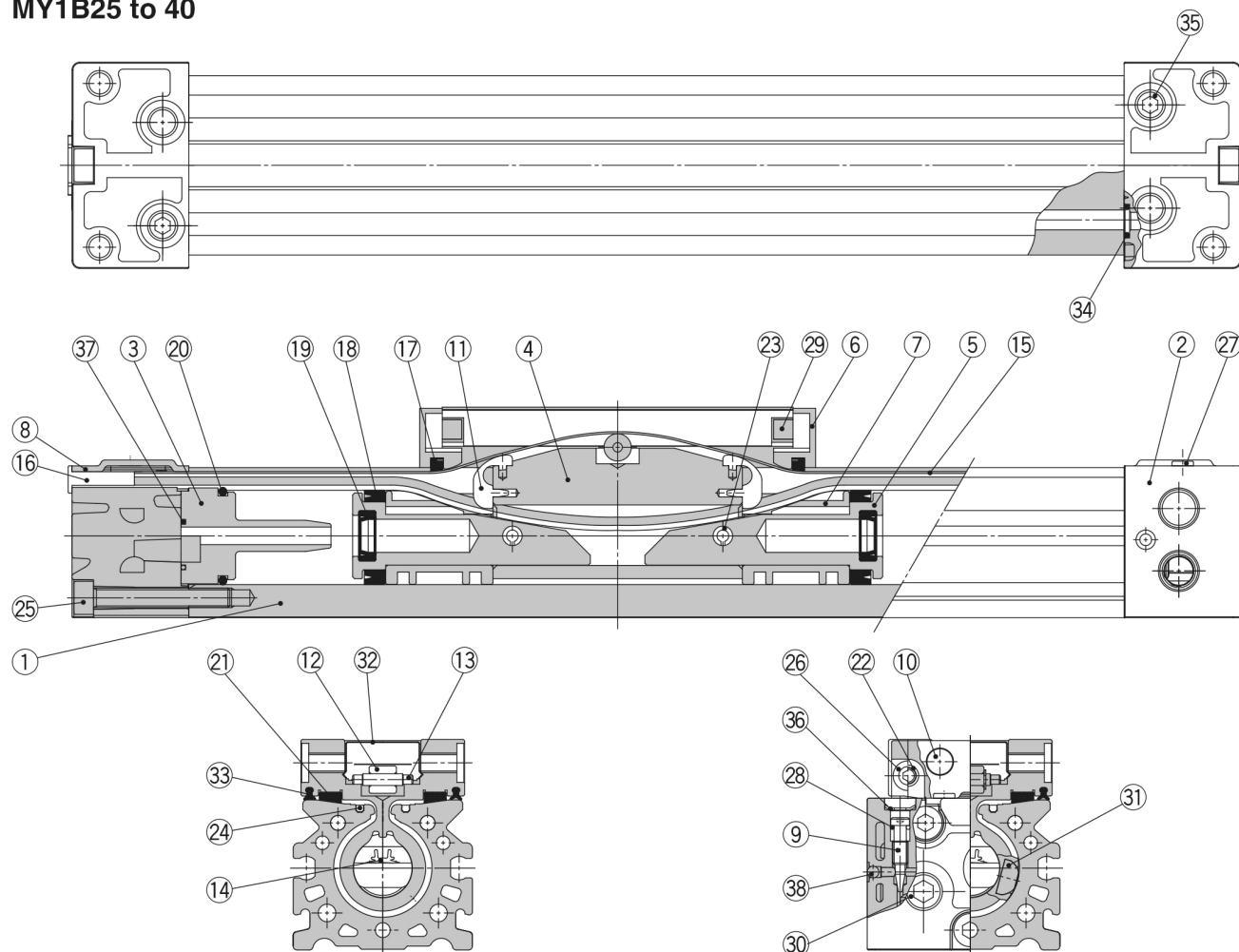
Dimensions





Constructions

MY1B25 to 40



Component Parts

No.	Description	Material	Qty.	Note
1	Cylinder tube	Aluminium alloy	1	Hard anodised
2	Head cover	Aluminium alloy	2	Painted
3	Cushion boss	Polyacetal	2	
4	Piston yoke	Aluminium alloy	1	Anodised
5	Piston	Aluminium alloy	2	Chromated
6	End cover	Polyacetal	2	
7	Wear ring	Polyacetal	2	
8	Head plate	Stainless steel	2	
9	Cushion needle	Rolled steel	2	Nickel plated
10	Stopper	Carbon steel	4	Nickel plated
11	Belt separator	Polyacetal	2	
12	Guide roller	Polyacetal	1	
13	Parallel pin	Carbon steel	1	
16	Belt clamp	Polybutylene terephthalate	2	
21	Bearing	Polyacetal	2	

No.	Description	Material	Qty.	Note
22	Spacer	Stainless steel	4	
23	Spring pin	Carbon tool steel	2	
24	Seal magnet	Rubber magnet	2	
25	Hexagon socket head cap screw	Chromium molybdenum steel	6	Chromated
26	Hexagon socket button head screw	Chromium molybdenum steel	4	Chromated
27	Thin head screw	Chromium molybdenum steel	4	Chromated
29	Double round parallel key	Carbon steel	2	
30	Hexagon socket head taper plug	Carbon steel	4	Chromated (Centralised piping: 7 pcs.)
31	Magnet	Rare earth magnet	2	
32	Top cover	Stainless steel	1	
35	Hexagon socket head taper plug	Carbon steel	2	Chromated (Centralised piping: 3 pcs.)
36	Type CR retaining ring	Spring steel	2	
38	Steel ball	Spring steel	2	

Seal List

No.	Description	Material	Qty.	MY1B25	MY1B32	MY1B40
14	Seal belt	Polyamide	1	MY25-16C-[Stroke]	MY32-16C-[Stroke]	MY40-16A-[Stroke]
15	Dust seal band	Stainless steel	1	MY1B25-16B-[Stroke]	MY1B32-16B-[Stroke]	MY1B40-16B-[Stroke]
33	Side scraper	Polyamide	2	MYB25-15BA5900B	MYB32-15BA5901B	MYB40-15BA5902B
28	O-ring	NBR	2	ø5.1 × ø3 × ø1.05	ø7.15 × ø3.75 × ø1.7	ø7.15 × ø3.75 × ø1.7
37	Cushion boss gasket	NBR	2	MYB25-16GA5900	MYB32-16GA5901	MYB40-16GA5902
17	Scraper	NBR	2			
18	Piston seal	NBR	2			
19	Cushion seal	NBR	2	MY1B25-PS	MY1B32-PS	MY1B40-PS
20	Tube gasket	NBR	2			
34	O-ring	NBR	2			

Additional information

Catalogue

[MY1B-Aa_EU.pdf](#)