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

MY1B25TFG-1000Z

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.

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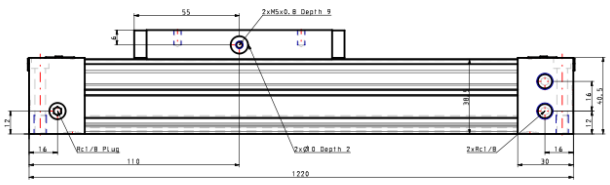
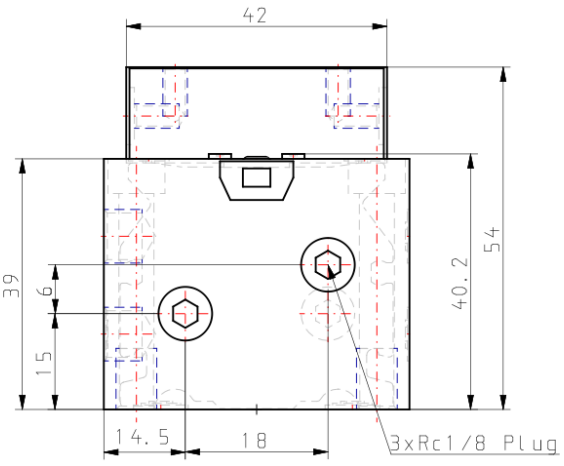
Bore Size	25mm
Port Thread	TF (G)
Piping	G (Centralized Piping Type)
Stroke	1000
Stroke Adjustment Unit	Left: w/o Unit
Right	w/o Unit
Auto Switch	No Switch
Lead Wire or Prewired Connector	0.5m (Or None in the Case of No Switch)
Number	2 pcs. (Or None in the Case of No Switch)
Pressure medium	Compressed 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
Numbero 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	3.340 Kg

Dimensions





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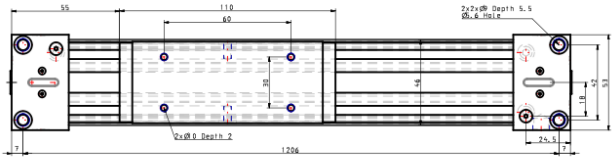

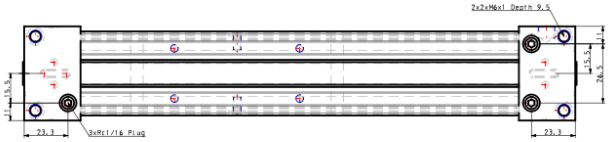

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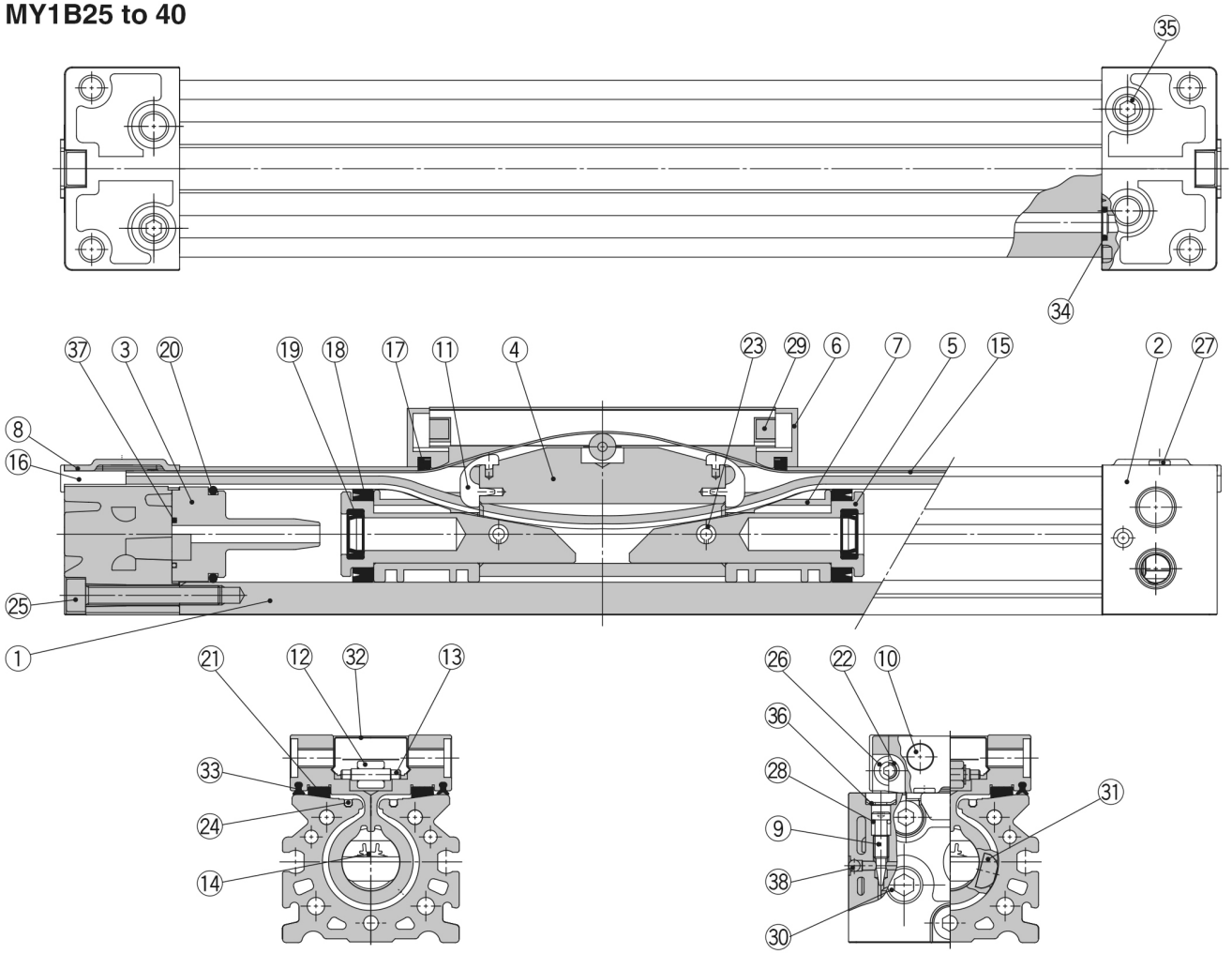
Constructions

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: 7pcs.)
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	MY1B25-PS	MY1B32-PS	MY1B40-PS
18	**Piston seal**	NBR	2			
19	**Cushion seal**	NBR	2			
20	**Tube gasket**	NBR	2			
34	**O-ring**	NBR	2			

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Additional information

Catalogue	MY1B-Aa_EU.pdf

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