



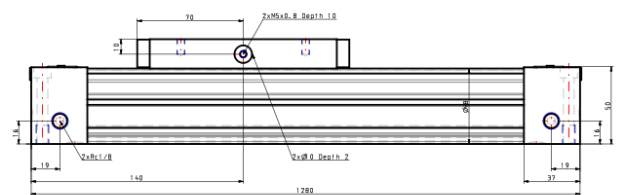
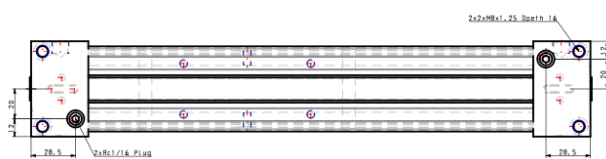
## MY1B-Z, Mechanical Joint Rodless Cylinder, Basic Type w/o Stroke Adjustment MY1B32TF-1000Z

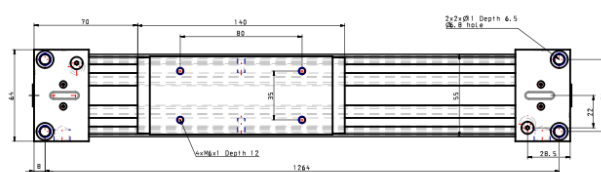
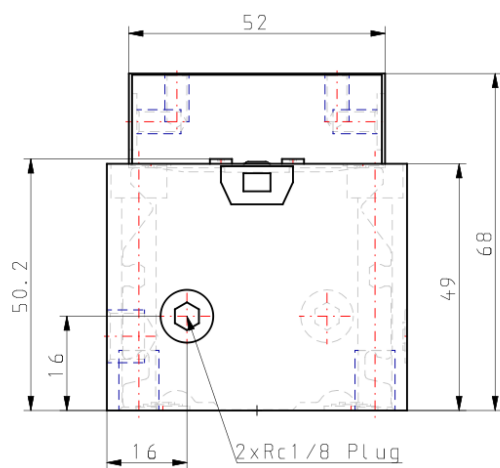
### Datasheet

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.

|                                                         |                                           |
|---------------------------------------------------------|-------------------------------------------|
| Bore Size                                               | 32mm                                      |
| Port Thread                                             | TF (G)                                    |
| Piping                                                  | Standard                                  |
| 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                                     |
| Minimum temperature of pressure medium                  | 5 °C                                      |
| Maximum operating pressure                              | 0.8 MPa                                   |
| Minimum operating pressure                              | 0.1 MPa                                   |
| Proof pressure                                          | 1.2 MPa                                   |
| Maximum ambient temperature                             | 60 °C                                     |
| Minimum ambient temperature                             | 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) | 402 N                                     |
| Maximum piston speed                                    | 1000 mm/s                                 |
| Type of cushioning                                      | Air cushion                               |
| Weight                                                  | 5.680 Kg                                  |

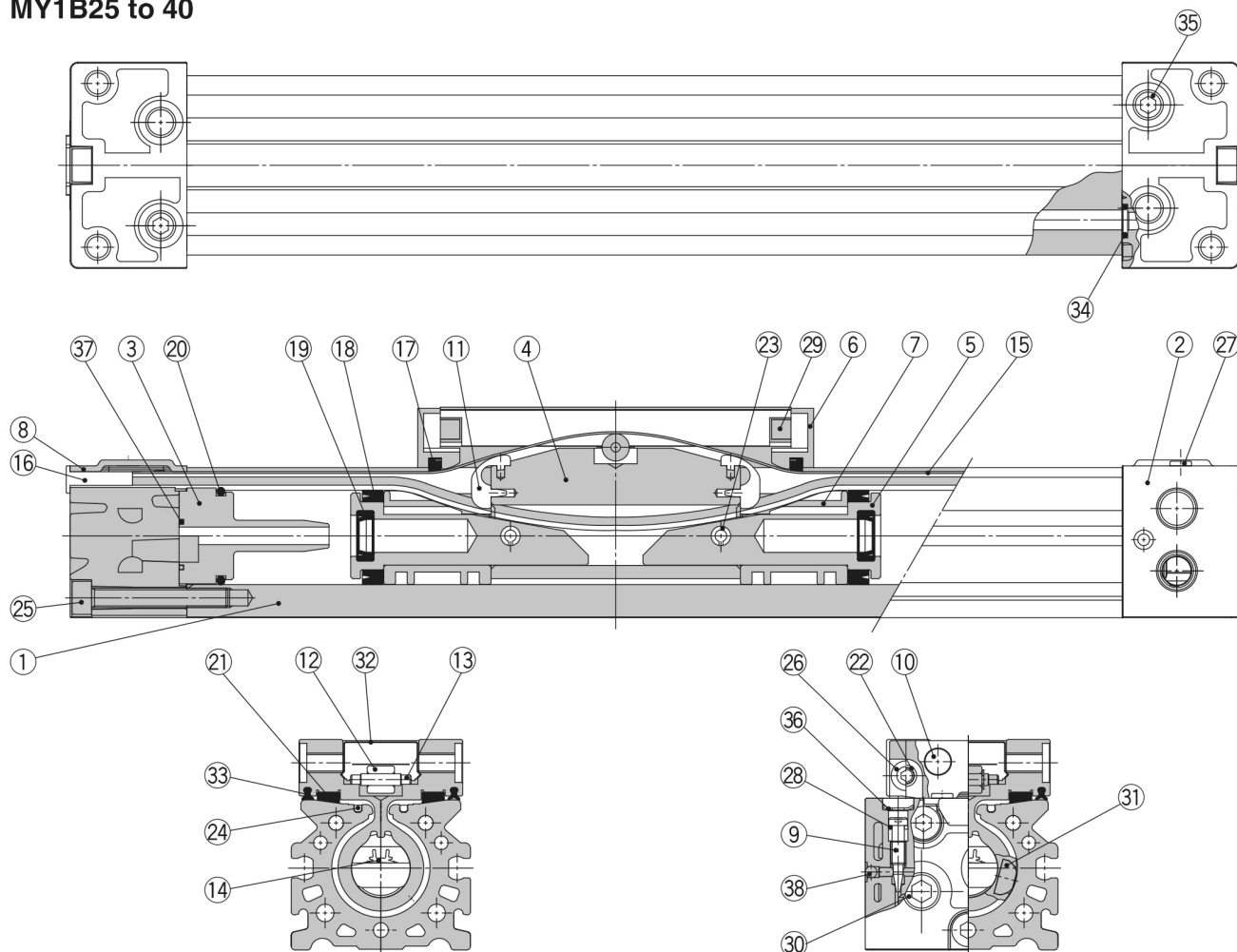
## Dimensions





## 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<br>(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<br>(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](#)

Operation manuals

[om\\_my1\\_myzz-om0009qen.pdf](#)