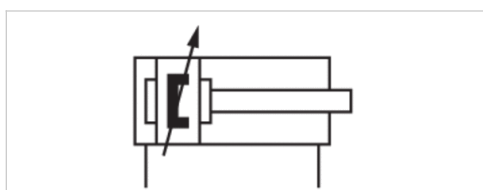


## Mini cylinder, Series MNI

- Ø 16-25 mm
- Ports M5 G 1/8
- double-acting
- with magnetic piston
- Cushioning Pneumatically adjustable
- corrosion-protected
- Polymer bearing bushing in rear eye
- Piston rod External thread



|                                        |                 |
|----------------------------------------|-----------------|
| Standards                              | ISO 6432        |
| Compressed air connection              | Internal thread |
| Working pressure min./max.             | 1 ... 10 bar    |
| Ambient temperature min./max.          | -25 ... 80 °C   |
| Medium temperature min./max.           | -25 ... 80 °C   |
| Medium                                 | Compressed air  |
| Max. particle size                     | 50 µm           |
| Oil content of compressed air          | 0 ... 5 mg/m³   |
| Pressure for determining piston forces | 6.3 bar         |
| Weight                                 | See table below |

### Technical data

| Piston Ø<br>Piston rod thread<br>Ports<br>Piston rod Ø<br>Cylinder outer thread | 16 mm<br>M6<br>M5<br>6 mm<br>M16x1,5 | 20 mm<br>M8<br>G 1/8<br>8 mm<br>M22x1,5 | 25 mm<br>M10x1,25<br>G 1/8<br>10 mm<br>M22x1,5 |
|---------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------|------------------------------------------------|
| Stroke 10                                                                       | 5226720100                           | 5226744100                              | 5226734100                                     |
| 15                                                                              | 5226720150                           | 5226744150                              | 5226734150                                     |
| 20                                                                              | -                                    | 5226744200                              | 5226734200                                     |
| 25                                                                              | 5226720250                           | 5226744250                              | 5226734250                                     |
| 30                                                                              | 5226720300                           | 5226744300                              | 5226734300                                     |
| 40                                                                              | 5226720400                           | 5226744400                              | 5226734400                                     |
| 50                                                                              | 5226720500                           | 5226744500                              | 5226734500                                     |
| 60                                                                              | 5226720600                           | 5226744600                              | 5226734600                                     |
| 75                                                                              | 5226720750                           | 5226744750                              | 5226734750                                     |
| 80                                                                              | 5226720800                           | 5226744800                              | 5226734800                                     |
| 100                                                                             | 5226721000                           | 5226745000                              | 5226735000                                     |
| 125                                                                             | 5226721250                           | 5226745250                              | 5226735250                                     |
| 150                                                                             | 5226721500                           | 5226745500                              | 5226735500                                     |

| Piston Ø<br>Piston rod thread<br>Ports<br>Piston rod Ø<br>Cylinder outer thread | 16 mm<br>M6<br>M5<br>6 mm<br>M16x1,5 | 20 mm<br>M8<br>G 1/8<br>8 mm<br>M22x1,5 | 25 mm<br>M10x1,25<br>G 1/8<br>10 mm<br>M22x1,5 |
|---------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------|------------------------------------------------|
| 160                                                                             | 5226721600                           | 5226745600                              | 5226735600                                     |
| 200                                                                             | 5226722000                           | 5226746000                              | 5226736000                                     |
| 250                                                                             | -                                    | 5226746500                              | 5226736500                                     |
| 300                                                                             | -                                    | 5226747000                              | 5226737000                                     |
| 320                                                                             | -                                    | -                                       | 5226737200                                     |
| 350                                                                             | -                                    | -                                       | 5226737500                                     |

## Technical data

| Piston Ø                | 16 mm    | 20 mm    | 25 mm    |
|-------------------------|----------|----------|----------|
| Retracting piston force | 109 N    | 166 N    | 260 N    |
| Extracting piston force | 127 N    | 198 N    | 309 N    |
| Cushioning length       | 9 mm     | 13 mm    | 17,5 mm  |
| Cushioning energy       | 0,6 J    | 1,5 J    | 2,3 J    |
| Weight 0 mm stroke      | 0,1 kg   | 0,16 kg  | 0,265 kg |
| Weight +10 mm stroke    | 0,006 kg | 0,009 kg | 0,013 kg |
| Stroke max.             | 800 mm   | 1100 mm  | 1300 mm  |

## Technical information

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .  
The oil content of compressed air must remain constant during the life cycle.  
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).  
Clamping piece for magnetic field sensor necessary  
ATEX-certified cylinders can be generated in the Internet configurator.  
ATEX ID: II 2G c IIB T4  
II 2D c IP65 T125°C X  
The operating temperature range for ATEX-certified cylinders is - 20 °C ... 50 °C .

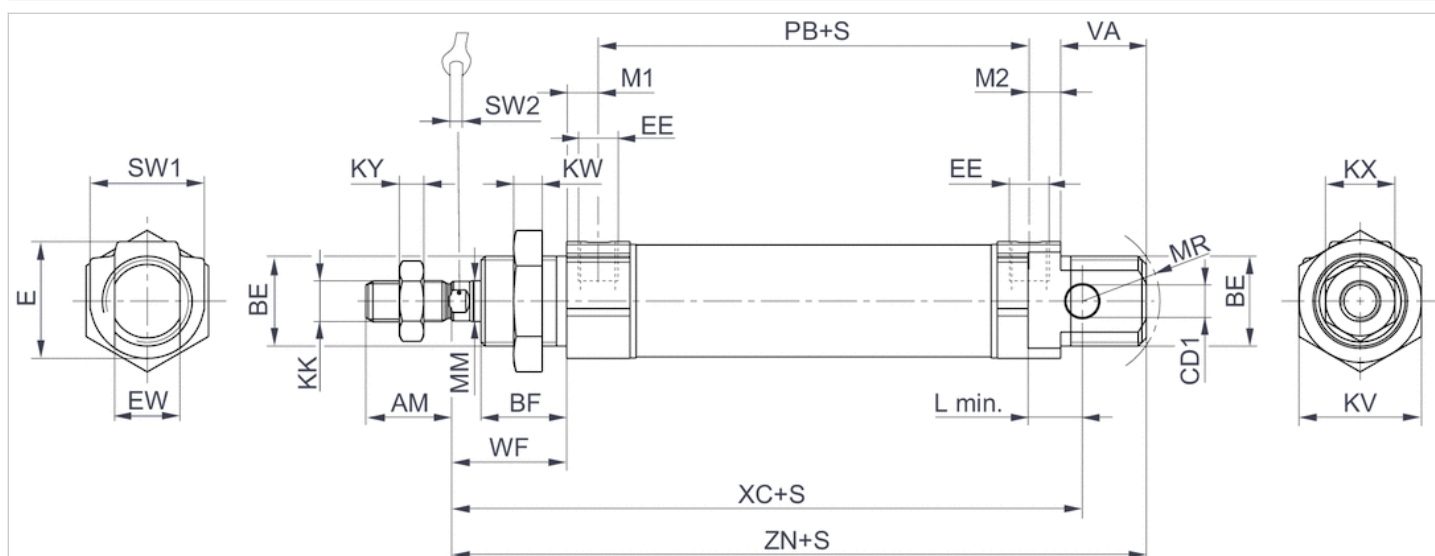
## Technical information

| Material                  |                                             |
|---------------------------|---------------------------------------------|
| Cylinder tube             | Stainless steel                             |
| Piston rod                | Stainless steel                             |
| Piston                    | Brass, Aluminum                             |
| Front cover               | Aluminum, anodized                          |
| End cover                 | Aluminum, anodized                          |
| Seal                      | Acrylonitrile butadiene rubber Polyurethane |
| Nut for cylinder mounting | Steel, galvanized                           |
| Nut for piston rod        | Steel, galvanized                           |

| Material |              |
|----------|--------------|
| Scraper  | Polyurethane |

## Dimensions

### Dimensions



S = stroke

## Dimensions

| Piston Ø | AM-2 | BE      | BF | CD1 H10 | E    | EE        | EW d13 | KK       | KV | KW | KX | KY  | L min |
|----------|------|---------|----|---------|------|-----------|--------|----------|----|----|----|-----|-------|
| 16 mm    | 16   | M16x1,5 | 16 | 6       | 19   | M5 t=5    | 12     | M6       | 22 | 6  | 10 | 3.2 | 8     |
| 20 mm    | 20   | M22x1,5 | 18 | 8       | 28.6 | G 1/8 t=8 | 16     | M8       | 30 | 7  | 13 | 4   | 12    |
| 25 mm    | 22   | M22x1,5 | 21 | 8       | 28.6 | G 1/8 t=8 | 16     | M10x1,25 | 30 | 7  | 17 | 6   | 12    |

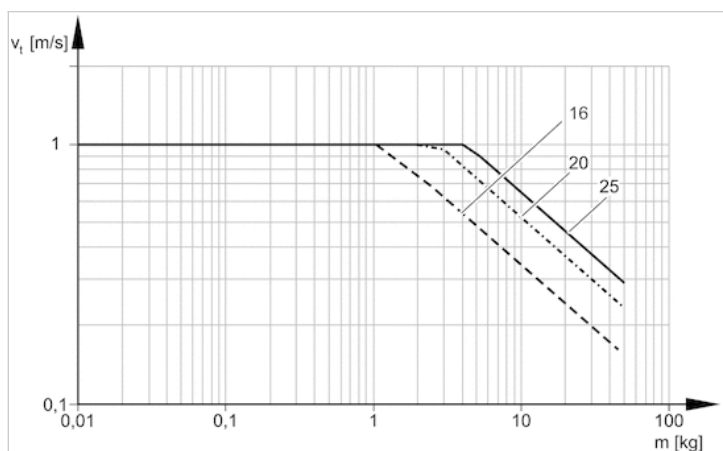
  

| Piston Ø | MM f8 | M1/M2 | MR | PB ±1 | VA | WF ±1,4 | XC ±1 | ZN ± 1,4 | SW 1 | SW 2 |
|----------|-------|-------|----|-------|----|---------|-------|----------|------|------|
| 16 mm    | 6     | 4.8   | 16 | 47    | 17 | 22      | 82    | 95.5     | 19   | 5    |
| 20 mm    | 8     | 7.7   | 18 | 51    | 19 | 24      | 95    | 109.5    | 28   | 6    |
| 25 mm    | 10    | 7.7   | 19 | 55    | 21 | 28      | 104   | 119.5    | 28   | 8    |

t = depth of thread

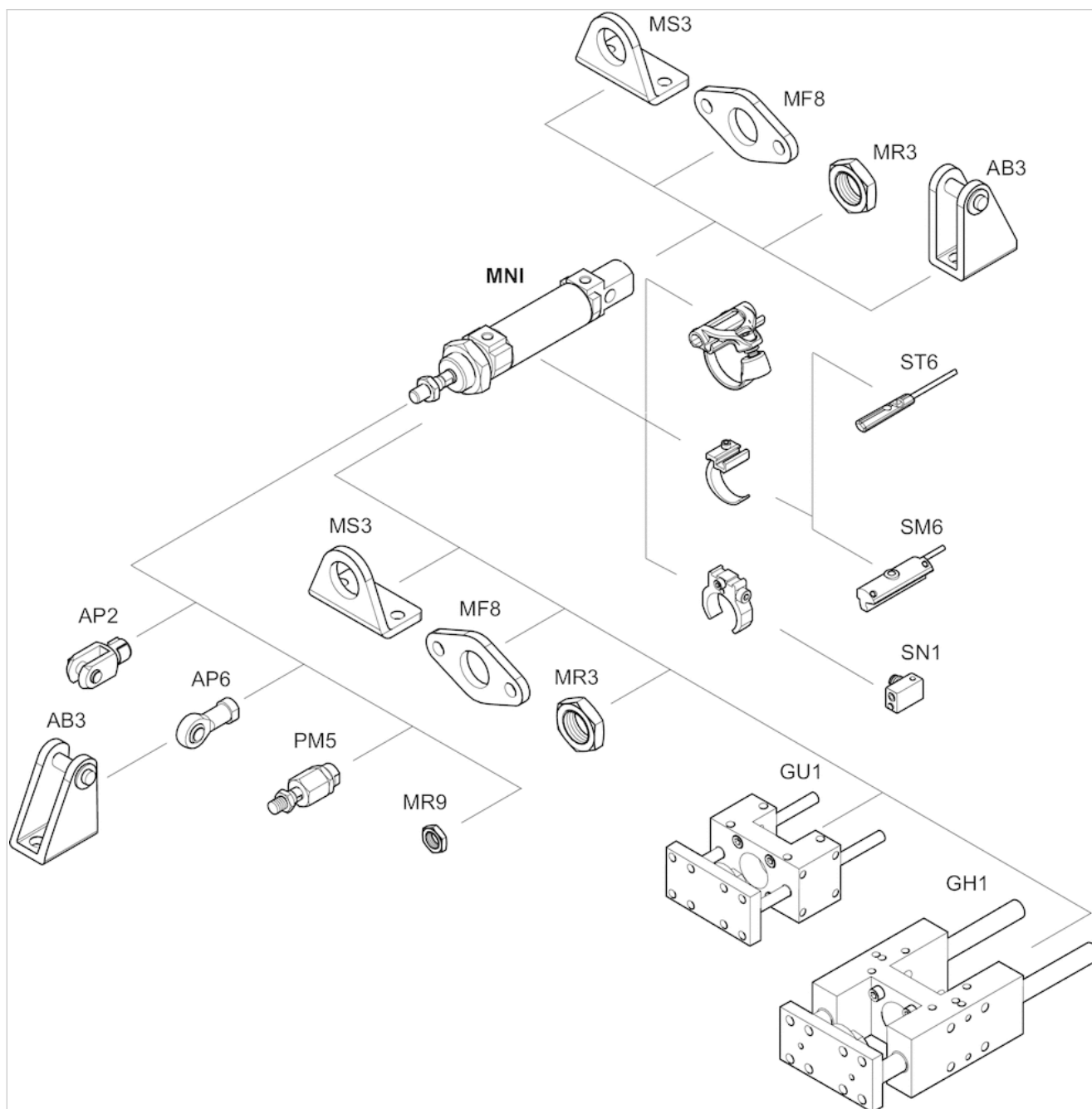
## Diagrams

### Cushioning diagram



## Accessories overview

### Overview drawing



#### NOTE:

This overview drawing is only for orientation to indicate where the various accessory parts can be fastened to the cylinder. The illustration has been simplified for this purpose. It is thus not possible to derive the dimensions from this overview.