

# Mini cylinder, Series MNI

- Ø 16 mm
- Ports M5
- double-acting
- with magnetic piston
- Cushioning Pneumatically adjustable
- corrosion-protected
- with integrated rear eye
- Piston rod External thread
- ATEX optional



|                                        |                           |
|----------------------------------------|---------------------------|
| 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/m <sup>3</sup> |
| Pressure for determining piston forces | 6.3 bar                   |
| Weight                                 | See table                 |

## Technical data

|                       | 16 mm      | 20 mm      | 25 mm      |
|-----------------------|------------|------------|------------|
| Piston Ø              | 16 mm      | 20 mm      | 25 mm      |
| Piston rod thread     | M6         | M8         | M10x1,25   |
| Ports                 | M5         | G 1/8      | G 1/8      |
| Piston rod Ø          | 6 mm       | 8 mm       | 10 mm      |
| Cylinder outer thread | M16x1,5    | M22x1,5    | M22x1,5    |
| Stroke 10             | 0822332501 | 0822333501 | 0822334501 |
| 25                    | 0822332502 | 0822333502 | 0822334502 |
| 50                    | 0822332503 | 0822333503 | 0822334503 |
| 80                    | 0822332504 | 0822333504 | 0822334504 |
| 100                   | 0822332505 | 0822333505 | 0822334505 |
| 125                   | 0822332506 | 0822333506 | 0822334506 |
| 160                   | 0822332507 | 0822333507 | 0822334507 |
| 200                   | 0822332508 | 0822333508 | 0822334508 |
| 250                   | 0822332509 | 0822333509 | 0822334509 |
| 320                   | 0822332510 | 0822333510 | 0822334510 |
| 400                   | 0822332511 | 0822333519 | 0822334511 |
| 500                   | 0822332512 | 0822333541 | 0822334512 |

## 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 .

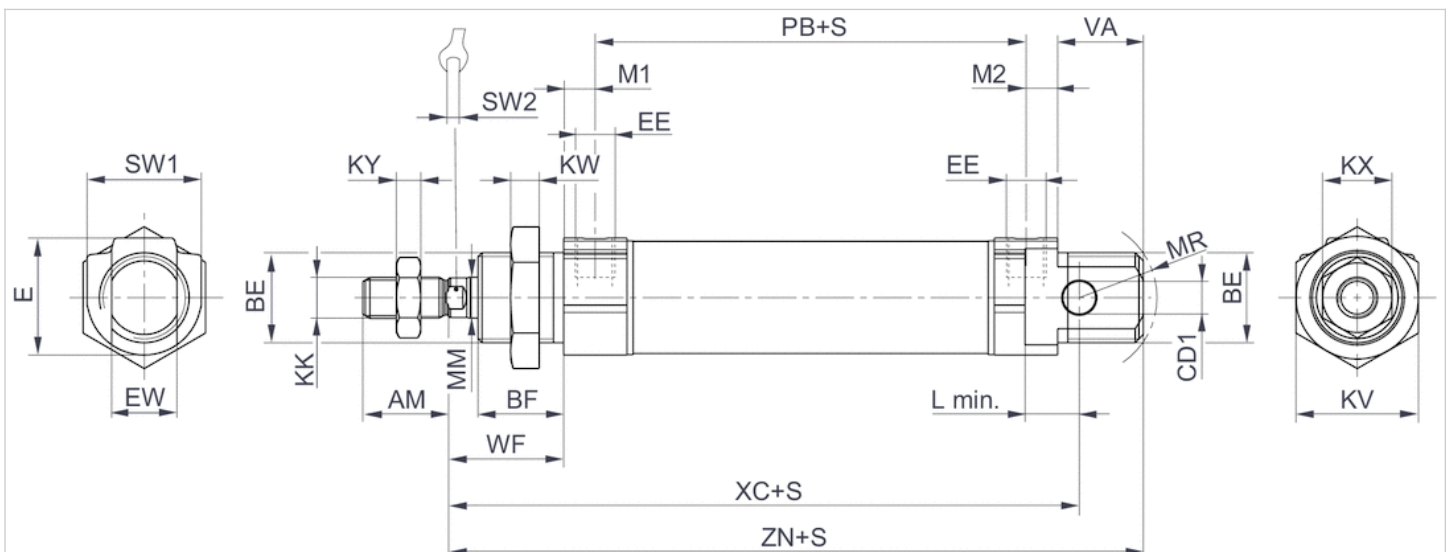
|                      |          |          |          |
|----------------------|----------|----------|----------|
| Weight 0 mm stroke   | 0,1 kg   | 0,16 kg  | 0,265 kg |
| Weight +10 mm stroke | 0,006 kg | 0,009 kg | 0,013 kg |
| Stroke max.          | 800 mm   | 1100 mm  | 1300 mm  |

## Technical information

| 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                           |
| Scraper                   | Polyurethane                                |

## Dimensions

### Dimensions



S = stroke

## Dimensions

| Piston Ø | AM-2 | BE      | BF | CD H9 | 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     |
| 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 | G1/8 t=8 | 16     | M8       | 30 | 7  | 13 | 4   | 12    |
| 25 mm    | 22   | M22x1,5 | 21 | 8     | 28 | G1/8 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 | Y ± 1 | ZN ± 1,4 | SW 1 | SW 2 |
|----------|-------|-------|----|-------|----|---------|-------|-------|----------|------|------|
| 16 mm    | 6     | 4.8   | 16 | 47    | 17 | 22      | 82    | 27    | 95.5     | 19   | 5    |
| 16 mm    | 6     | 4.8   | 16 | 47    | 17 | 22      | 82    | 27    | 95.5     | 19   | 5    |
| 20 mm    | 8     | 7     | 18 | 51    | 19 | 24      | 95    | 32    | 109.5    | 28   | 6    |
| 25 mm    | 10    | 7     | 19 | 55    | 21 | 28      | 104   | 36    | 119.5    | 28   | 8    |

t = depth of thread

## Diagrams

