



## Series 1200, TECNO-MIR

### Construction characteristic

|                 |  |
|-----------------|--|
| End caps        | nylon 66 reinforced with glass fibres  |
| Barrel          | nylon 66 reinforced with glass fibres  |
| Piston rod      | C43 Chromed (non magnetic piston version)<br>stainless steel (magnetic piston version) |
| Piston          | aluminium  |
| Seal            | NBR oil-resistant rubber seal  |
| Piston rod seal | PUR  |
| Mounting        | steel painted / stainless steel AISI 304   |
| Forks           | zinc plated steel / stainless steel AISI 304   |

### Operational characteristics

|                          |   |
|--------------------------|---|
| Fluid                    | Filtered air. No lubrication needed, if applied it shall be continuous. |
| Maximum working pressure | 8 bar   |
| Working temperature      | -5°C - +50°C  |

Please follow the suggestions below to ensure a long life for these cylinders:

- use clean and lubricated air
- correct alignment during assembly with regard to the applied load so as to avoid radial components or bending the rod.
- avoid high speeds together with long strokes and heavy loads: this would produce kinetic energy which the cylinder cannot absorb, especially if used as a limit stop (in this case use mechanical stop device)
- evaluate the environmental characteristics of cylinder used (high temperature, hard atmosphere, dust, humidity etc.)

**Please note: air must be dried for applications with lower temperature.**

Use hydraulic oils H class (ISO VG32) for correct continued lubrication.

Our Technical Department will be glad to help.

### Standard strokes

#### Double acting version

Ø12 : 15 - 25 - 50 - 75 - 80 - 100 - 125 - 150 - 160 - 200 mm

Ø16 : 15 - 25 - 50 - 75 - 80 - 100 - 125 - 150 - 160 - 200 - 250 mm

Ø20 - Ø25 : 15 - 25 - 50 - 75 - 80 - 100 - 125 - 150 - 160 - 200 - 250 - 300 mm

On request are available strokes up to:

Ø12 : 200 mm

Ø16 : 250 mm

Ø20 - Ø25: 300 mm

### Maximum tightening torque for fittings

| Bore | Thread | Maximum torque (Nm) |
|------|--------|---------------------|
| Ø 12 | M5     | 1                   |
| Ø 16 | M5     | 1                   |
| Ø 20 | G 1/8" | 4                   |
| Ø 25 | G 1/8" | 4                   |

WEIGHT TABLE SERIES TECNO MIR 1230 - 1231

| WEIGHT<br>g | Bore       | Ø12      | Ø16    | Ø20     | Ø25     |
|-------------|------------|----------|--------|---------|---------|
|             | stroke 0   | 50 gr.   | 65 gr. | 120 gr. | 160 gr. |
|             | every 10mm | 3,75 gr. | 4 gr.  | 6,5 gr. | 9 gr.   |

WEIGHT TABLE SERIES TECNO MIR 1232

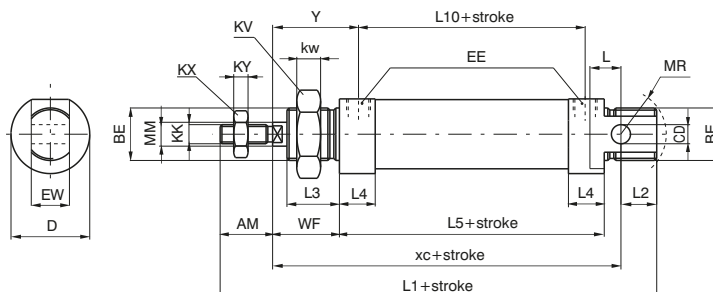
| WEIGHT<br>g | Bore       | Ø12    | Ø16     | Ø20     | Ø25     |
|-------------|------------|--------|---------|---------|---------|
|             | stroke 0   | 60 gr. | 75 gr.  | 180 gr. | 200 gr. |
|             | every 10mm | 7 gr.  | 8,5 gr. | 10 gr.  | 20 gr.  |

### Basic version

| Ordering code          | Description                   |
|------------------------|-------------------------------|
| <b>1230.Ø.stroke</b>   | Basic version                 |
| <b>1230.Ø.stroke.M</b> | Basic version magnetic piston |



Standard version, fully complying with ISO standards. Can use all available mountings.

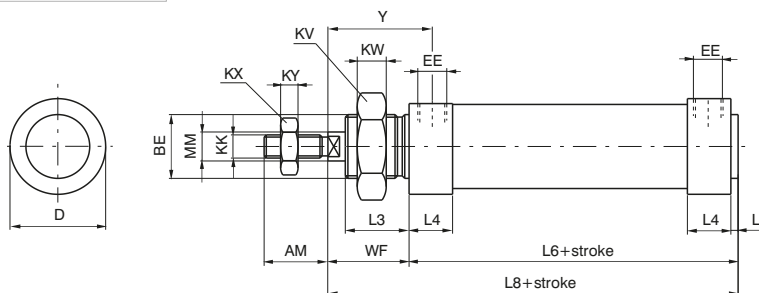


### Without rear eye version

| Ordering code          | Description                              |
|------------------------|--|
| <b>1231.Ø.stroke</b>   | Without rear eye version                 |
| <b>1231.Ø.stroke.M</b> | Without rear eye version magnetic piston |



This version derived from standard version 1230 and not included in ISO standard. Not having a rear eye it is shorter. The inlet connection is lateral on the rear caps (like on the front caps).



### Through rod cylinder version

| Ordering code          | Description                                  |
|------------------------|--|
| <b>1232.Ø.stroke</b>   | Through rod cylinder version                 |
| <b>1232.Ø.stroke.M</b> | Through rod cylinder version magnetic piston |



Through rod model, dimensions as for the 1230 (except the rod).

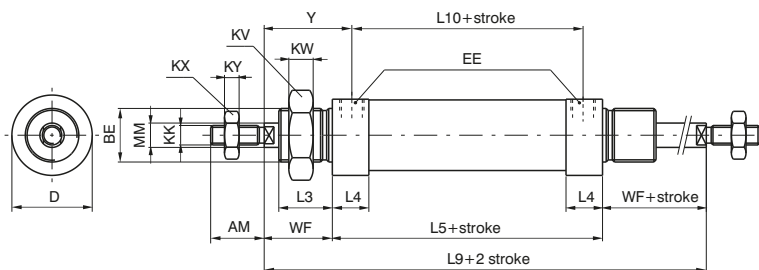


Table of dimensions

| Bore | AM (-0,2) | BE      | CD (H9) | D (h11) | EE    | EW (d13) | KK (6g)  | KV | KW | KX | KY | L  | L1 (±1) | L2 | L3 | L4   | L5 (±1) | L6   | L7  | L8   | L9 (±1,2) | L10 (±1) | MM (f7) | WF (±1,2) | XC (±1) | Y (±1) |
|------|-----------|---------|---------|---------|-------|----------|----------|----|----|----|----|----|---------|----|----|------|---------|------|-----|------|-----------|----------|---------|-----------|---------|--------|
| 12   | 16        | M16X1,5 | 6       | 19      | M5    | 12       | M6X1     | 22 | 6  | 10 | 4  | 9  | 105     | 14 | 17 | 13,5 | 50      | 52   | 2   | 74   | 94        | 41       | 6       | 22        | 75      | 26,5   |
| 16   | 16        | M16X1,5 | 6       | 23      | M5    | 12       | M6X1     | 22 | 6  | 10 | 4  | 9  | 111     | 13 | 17 | 14,5 | 56      | 58   | 2   | 80   | 100       | 45       | 6       | 22        | 82      | 27,5   |
| 20   | 20        | M22X1,5 | 8       | 28,5    | G1/8" | 16       | M8X1,25  | 30 | 7  | 13 | 5  | 12 | 130     | 15 | 18 | 20,5 | 68      | 70,5 | 2,5 | 94,5 | 116       | 52       | 8       | 24        | 95      | 32     |
| 25   | 22        | M22X1,5 | 8       | 31,5    | G1/8" | 16       | M10X1,25 | 30 | 7  | 17 | 6  | 14 | 140     | 14 | 22 | 20   | 68      | 70,5 | 2,5 | 98,5 | 124       | 52       | 10      | 28        | 104     | 36     |