

# CYLINDERS

## ISO 6432



Find out our  
key products



Solution for most applications



Easy and intuitive choice



Excellent value for money



Wide availability



Fast delivery



## Features and certifications

Series of cylinders conforming to ISO 6432 standards, available in bores from Ø 8 to 25, single or double acting, magnetic or non-magnetic. The heads joined to the barrel through rolling ensure perfect tightening. Supplied as standard in compliance with Reach and RoHS directives, and SIL certified. On request, they can be also supplied according to the 2014/34/EU ATEX Directive.

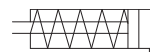


### Type MS Ø 8 ÷ 25

from page 1.2.20



Cylinders conforming to ISO 6432 standards, available in bores from Ø 8 to 25, single acting, non magnetic, the heads joined to the barrel through rolling ensure perfect tightening. Equipped with rubber bumpers to cushion the impact of the piston. Complete with head nut and rod nut.

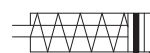


### Type MSM Ø 8 ÷ 25

from page 1.2.20



Cylinders conforming to ISO 6432 standards, available in bores from Ø 8 to 25, single acting, magnetic, the heads joined to the barrel through rolling ensure perfect tightening. Equipped with rubber bumpers to cushion the impact of the piston. Possibility of applying one or more magnetic reed switches. Complete with head nut and rod nut.

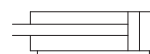


### Type MD Ø 8 ÷ 25

from page 1.2.50



Cylinders conforming to ISO 6432 standards, available in bores from Ø 8 to 25, double acting, non magnetic, the heads joined to the barrel through rolling ensure perfect tightening. Equipped with rubber bumpers to cushion the impact of the piston. Complete with head nut and rod nut.

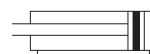


### Type MDM Ø 8 ÷ 25

from page 1.2.50



Cylinders conforming to ISO 6432 standards, available in bores from Ø 8 to 25, double acting, magnetic, the heads joined to the barrel through rolling ensure perfect tightening. Equipped with rubber bumpers to cushion the impact of the piston. Possibility of applying one or more magnetic reed switches. Complete with head nut and rod nut.

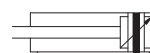


### Type MDMA Ø 16 ÷ 25

from page 1.2.70



Cylinders conforming to ISO 6432 standards, available in bores from Ø 16 to 25, double acting, magnetic, the heads joined to the barrel through rolling ensure perfect tightening. Equipped with adjustable air cushioning on both ends. Possibility of applying one or more magnetic reed switches. Complete with head nut and rod nut.

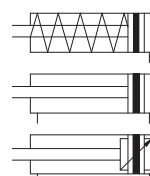


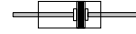
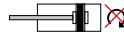
### Types MSM, MDM and MDMA Ø 32 ÷ 63

from page 1.10.1



Round cylinders not conforming to standards, available in bores from Ø 32 to 63, magnetic, single acting (type MSM), double acting (type MDM) or double acting with cushions (type MDMA). The heads are joined to the barrel through rolling ensure perfect tightening. Possibility of applying one or more magnetic reed switches. Complete with head nut and rod nut.



| Options                                                                                                     |                                                                                     |              |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|
| Description                                                                                                 | Symbol                                                                              | Suffix       |
| Through rod (available from Ø 16)                                                                           |  | <b>P</b>     |
| Rear spring (available only for MS and MSM type, from Ø 16)                                                 |  | <b>T</b>     |
| Extended rod in hardened and chrome plated steel suitable for static piston rod brake (available from Ø 20) |  | <b>B</b>     |
| FKM seals <span style="float: right;">-20°C ÷ +150°C</span>                                                 |  | <b>V</b>     |
| Anti-rotating hexagonal rod (available from Ø 16)                                                           |  | <b>Q</b>     |
| ATEX versions on request                                                                                    |  | <b>/ATEX</b> |
| Special versions on request                                                                                 |                                                                                     | <b>/S</b>    |

The options, when this is possible, can be combined with each other. For options matching see page 1.2.4; For code key see page 1.2.5.

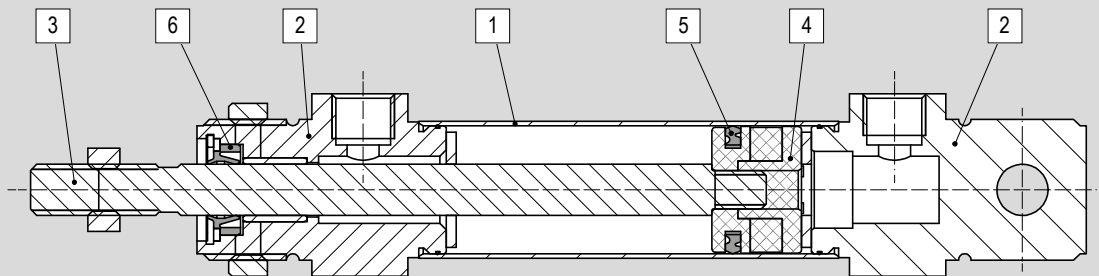
## Options matching

| Series | Bore      | Model                 | Standard options matching |            |   |            |            |       |
|--------|-----------|-----------------------|---------------------------|------------|---|------------|------------|-------|
|        |           |                       | P (Ø16÷25)                | T (Ø16÷25) | V | B (Ø20÷25) | Q (Ø16÷25) | /ATEX |
| MS-MSM | Ø 8 ÷ 25  | Standard              | ●                         | ●          | ● | ●          | ●          | ●     |
|        | Ø 16 ÷ 25 | Through rod (P)       |                           | -          | ● | ●          | ●          | ●     |
|        |           | Rear spring (T)       | -                         |            | ● | ●          | ●          | ●     |
|        | Ø 20 ÷ 25 | Piston rod brake (B)  | ●                         | ●          | ● |            | -          | -     |
|        | Ø 16 ÷ 25 | Anti-rotating rod (Q) | ●                         | ●          | ● | -          |            | ●     |
| MD-MDM | Ø 8 ÷ 25  | Standard              | ●                         | -          | ● | ●          | ●          | ●     |
|        | Ø 16 ÷ 25 | Through rod (P)       |                           | -          | ● | ●          | ●          | ●     |
|        | Ø 20 ÷ 25 | Piston rod brake (B)  | ●                         | -          | ● |            | -          | -     |
|        | Ø 16 ÷ 25 | Anti-rotating rod (Q) | ●                         | -          | ● | -          |            | ●     |
| MDMA   | Ø 16 ÷ 25 | Standard              | ●                         | -          | ● | ●          | ●          | ●     |
|        |           | Through rod (P)       | -                         | -          | ● | ●          | ●          | ●     |
|        | Ø 20 ÷ 25 | Piston rod brake (B)  | ●                         | -          | ● | -          | -          | -     |
|        | Ø 16 ÷ 25 | Anti-rotating rod (Q) | ●                         | -          | ● | -          |            | ●     |

Key

● allowed matching; - not allowed matching

## Standard materials



| Position | Description | Materials                |
|----------|-------------|--------------------------|
| 1        | Tube        | Stainless Steel AISI 316 |
| 2        | Heads       | Anodised aluminium       |
| 3        | Rod         | Stainless Steel AISI 304 |
| 4        | Piston      | Anodised aluminium       |
| 5        | Piston seal | NBR                      |
| 6        | Rod seal    | Polyurethane (PU)        |

## 1.2.4

Code key

| Bore                                                         | / | Stroke                                                                                                                                                                                                                                                            | Type | Options                   |              |                           | /                                                                                                                  | ATEX version | Special version |
|--------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------|--------------|---------------------------|--------------------------------------------------------------------------------------------------------------------|--------------|-----------------|
| 25                                                           | / | 50                                                                                                                                                                                                                                                                | MDM  | P                         | V            |                           | /                                                                                                                  |              |                 |
| <div>Ø 8, 10, 12, 16, 20, 25<br/>(MDMA type from Ø 16)</div> |   | <div>10 mm ÷ 1000 mm<br/>(MDMA type from 25 mm)</div>                                                                                                                                                                                                             |      | <div>P</div> <div>T</div> | <div>V</div> | <div>B</div> <div>Q</div> | <div>ATEX</div> <div><div>CE</div><div>Ex</div><div>II 2G Ex h IIC T5 Gb<br/>II 2D Ex h IIIC T100°C Db</div></div> |              |                 |
|                                                              |   | <div>MS<br/>Single acting<br/>Non magnetic</div> <div>MSM<br/>Single acting<br/>Magnetic</div> <div>MD<br/>Double acting<br/>Non magnetic</div> <div>MDM<br/>Double acting<br/>Magnetic</div> <div>MDMA<br/>Double acting<br/>Magnetic<br/>With cushionings</div> |      |                           |              |                           |                                                                                                                    |              |                 |
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How to order

| Bore      |   | Stroke    | Type       | Options    |
|-----------|---|-----------|------------|------------|
| <b>25</b> | / | <b>50</b> | <b>MDM</b> | <b>P V</b> |

Notes

Options in the same grid are alternative to each others.

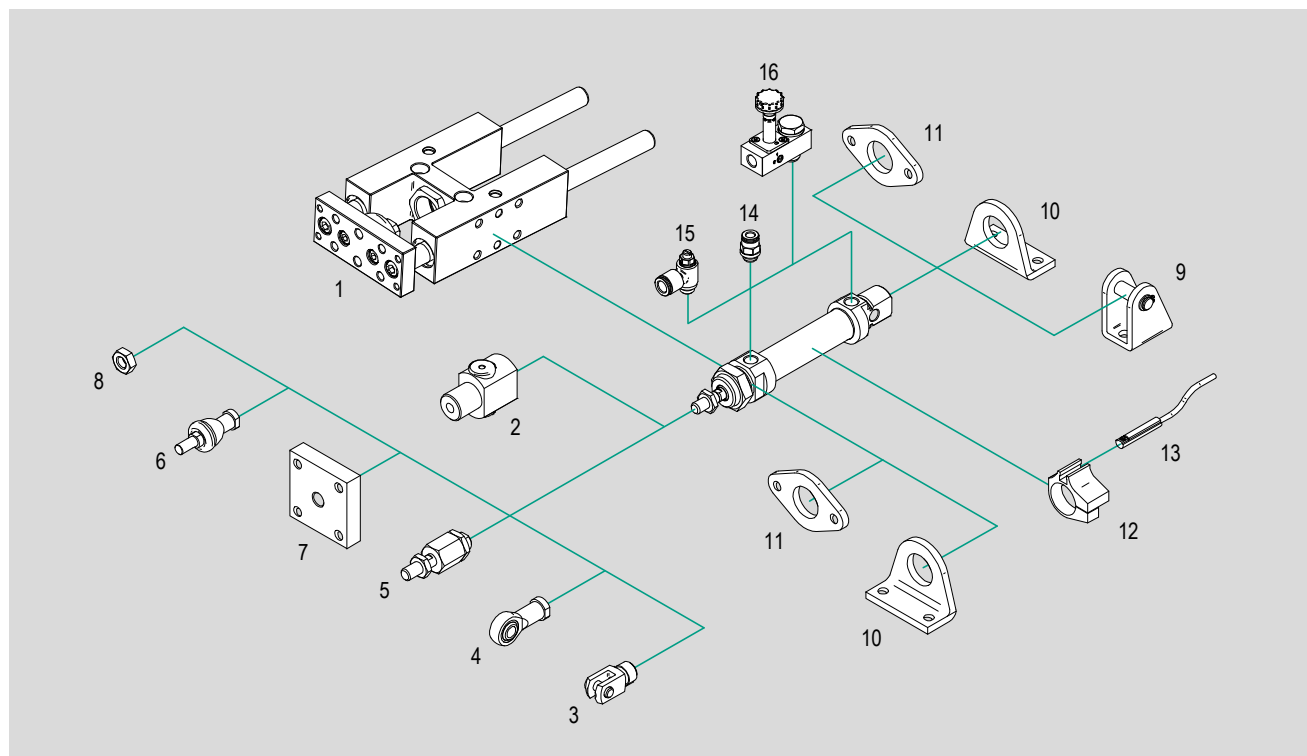
For further information on options and their matching, see page 1.2.3 and page 1.2.4

For further information on the ATEX 2014/34/EU Directive, on classifications and protections, see from page III.1

## Cylinders ISO 6432

## 1 - CYLINDERS

## Accessories



| N. | Cylinder bore | Item         | Description                                  | Compliance | Matching |     |    |     |      | Code page | Data sheet page |
|----|---------------|--------------|----------------------------------------------|------------|----------|-----|----|-----|------|-----------|-----------------|
|    |               |              |                                              |            | MS       | MSM | MD | MDM | MDMA |           |                 |
| 1  | Ø 12 ÷ 25     | UGLB         | Slide unit U-shaped                          | -          | •        | •   | •  | •   | •    | 1.2.90    | 1.70.1          |
|    |               | UGPB<br>UGPS | Slide unit H-shaped                          |            | •        | •   | •  | •   | •    |           | 1.75.1          |
| 2  | Ø 20 ÷ 25     | ABS          | Static piston rod brake                      | ISO 8140   | •        | •   | •  | •   | •    |           | 1.85.10         |
| 3  | Ø 8 ÷ 25      | FF..         | ISO female clevis with clip                  |            | •        | •   | •  | •   | •    |           | 1.85.11         |
|    |               | FFP..        | ISO female clevis with pin and seeger        |            | •        | •   | •  | •   | •    |           | 1.90.1          |
|    |               | FFN..        | ISO female clevis (body only)                | ISO 8139   | •        | •   | •  | •   | •    |           | 1.90.10         |
| 4  | Ø 8 ÷ 25      | RF..SE       | Bearing head (DIN 648K) with female thread   |            | •        | •   | •  | •   | •    | 1.2.91    | 1.90.20         |
| 5  | Ø 8 ÷ 25      | GB..         | Bearing - Self-aligning articulated coupling | -          | •        | •   | •  | •   | •    |           | 1.90.30         |
| 6  | Ø 12 ÷ 25     | RBI..        | Bearing - Axial articulated coupling         |            | •        | •   | •  | •   | •    |           | 1.90.40         |
|    |               | RBL..        | Bearing - Angular articulated coupling       |            | •        | •   | •  | •   | •    |           | 1.90.70         |
| 7  | Ø 25          | GC..         | Self-aligning coupling                       | -          | •        | •   | •  | •   | •    |           | 1.95.1          |
| 8  | Ø 8 ÷ 25      | D..          | Rod nut                                      |            | •        | •   | •  | •   | •    |           | 1.95.2          |
| 9  | Ø 8 ÷ 25      | CF..         | Rear clevis                                  |            | •        | •   | •  | •   | •    |           | 1.120.1         |
| 10 | Ø 8 ÷ 25      | P..          | High foot                                    |            | •        | •   | •  | •   | •    |           | 1.110.10        |
| 11 | Ø 8 ÷ 25      | F..          | Flange                                       | 2014/34/EU | •        | •   | •  | •   | •    |           | 1.113.1         |
| 12 | Ø 8 ÷ 25      | AFM..        | Bracket for T type magnetic reed switches    |            | -        | •   | -  | •   | •    | 4.2.1     |                 |
| 13 | Ø 8 ÷ 25      | ASV..        | Magnetic reed switch T groove                |            | -        | •   | -  | •   | •    |           |                 |
|    |               | MK..         | ATEX magnetic reed switch T groove           |            | -        | •   | -  | •   | •    |           |                 |
| 14 | Ø 8 ÷ 25      | R..          | Push-in fittings                             | -          | •        | •   | •  | •   | •    | 4.94.1    |                 |
| 15 | Ø 8 ÷ 25      | V..C         | Flow controls, for cylinders                 |            | •        | •   | •  | •   | •    |           |                 |
| 16 | Ø 20 ÷ 25     | A1E1..MD     | 22mm direct mounting solenoid valves         |            | •        | •   | -  | -   | -    | 1.2.90    | 2.10.1          |

Key

• matching accessory; - not matching accessory

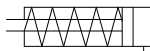
## 1.2.6

# Cylinders ISO 6432

Series MS - MSM

## Main features

8 ÷ 25

**MS**

Bore Ø

Single acting  
Non magnetic

Type



8 ÷ 25

**MSM**

Bore Ø

Single acting  
Magnetic

Type



## Technical data

|                           |             |                                                                                                  |     |     |     |     |     |     |     |     |                    |      |     |      |      |      |          |      |      |
|---------------------------|-------------|--------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|------|-----|------|------|------|----------|------|------|
| Bore Ø mm                 |             | 8                                                                                                |     |     | 10  |     |     | 12  |     |     | 16                 |      |     | 20   |      |      | 25       |      |      |
| Fluid                     |             | Filtered compressed air with or without lubrication. Lubrication, if started, must be continued. |     |     |     |     |     |     |     |     |                    |      |     |      |      |      |          |      |      |
| Pressure range            |             | 1 ÷ 10 bar                                                                                       |     |     |     |     |     |     |     |     |                    |      |     |      |      |      |          |      |      |
| Temperature range         |             | -20°C ÷ +80°C (standard)                                                                         |     |     |     |     |     |     |     |     | -20°C ÷ +150°C (V) |      |     |      |      |      |          |      |      |
| Strokes                   |             | 10 ÷ 50 mm                                                                                       |     |     |     |     |     |     |     |     |                    |      |     |      |      |      |          |      |      |
| Ports                     |             | M5                                                                                               |     |     |     |     |     |     |     |     |                    |      |     | 1/8" |      |      |          |      |      |
| Rod thread                |             | M4                                                                                               |     |     |     |     |     | M6  |     |     |                    |      |     | M8   |      |      | M10x1,25 |      |      |
| Thrust force at 6 bar (N) |             | 20                                                                                               |     |     | 35  |     |     | 50  |     |     | 90                 |      |     | 148  |      |      | 250      |      |      |
| Traction force (N)        | Stroke (mm) | 10                                                                                               | 25  | 50  | 10  | 25  | 50  | 10  | 25  | 50  | 10                 | 25   | 50  | 10   | 25   | 50   | 10       | 25   | 50   |
|                           | min.        | 4,8                                                                                              | 4   | 3,2 | 4,8 | 4   | 3,2 | 6,3 | 5,4 | 3,9 | 13,1               | 11,8 | 9,7 | 18,1 | 16,4 | 13,4 | 22,9     | 21,1 | 17,7 |
|                           | max.        | 5,3                                                                                              | 5,3 | 5,3 | 5,3 | 5,3 | 5,3 | 6,9 | 6,9 | 6,9 | 14                 | 14   | 14  | 19,4 | 19,4 | 19,4 | 23,9     | 23,9 | 23,9 |

## Standard strokes

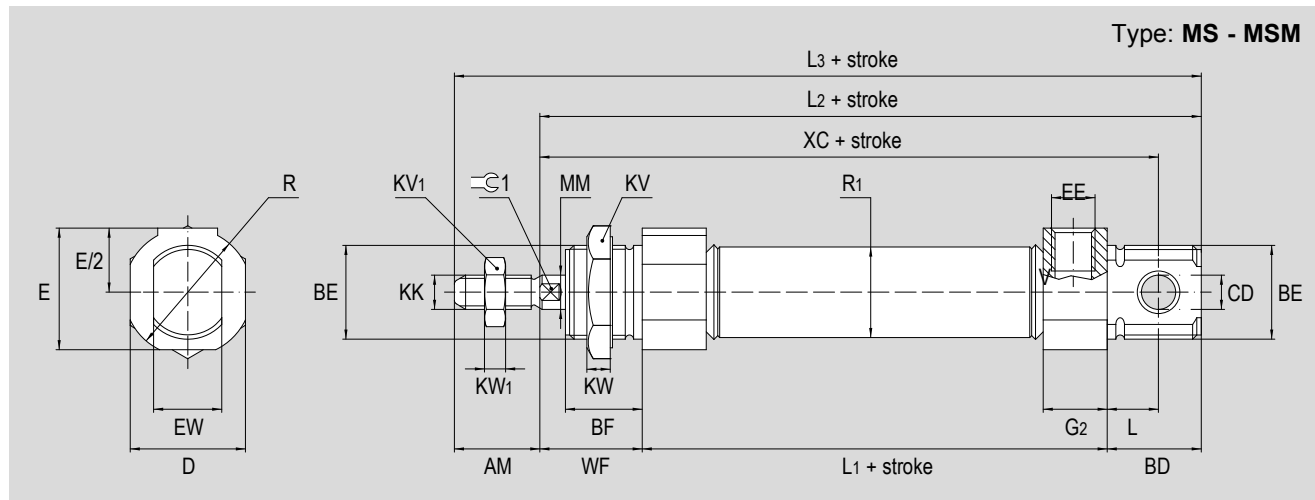
| Stroke mm | <b>MS</b><br>Bore Ø mm |    |    |    |    |    |
|-----------|------------------------|----|----|----|----|----|
|           | 8                      | 10 | 12 | 16 | 20 | 25 |
| 10        |                        |    |    |    |    |    |
| 25        |                        |    |    |    |    |    |
| 50        |                        |    |    |    |    |    |

| Stroke mm | <b>MSM</b><br>Bore Ø mm |    |    |    |    |    |
|-----------|-------------------------|----|----|----|----|----|
|           | 8                       | 10 | 12 | 16 | 20 | 25 |
| 10        |                         |    |    |    |    |    |
| 25        |                         |    |    |    |    |    |
| 50        |                         |    |    |    |    |    |

Key

Standard stroke

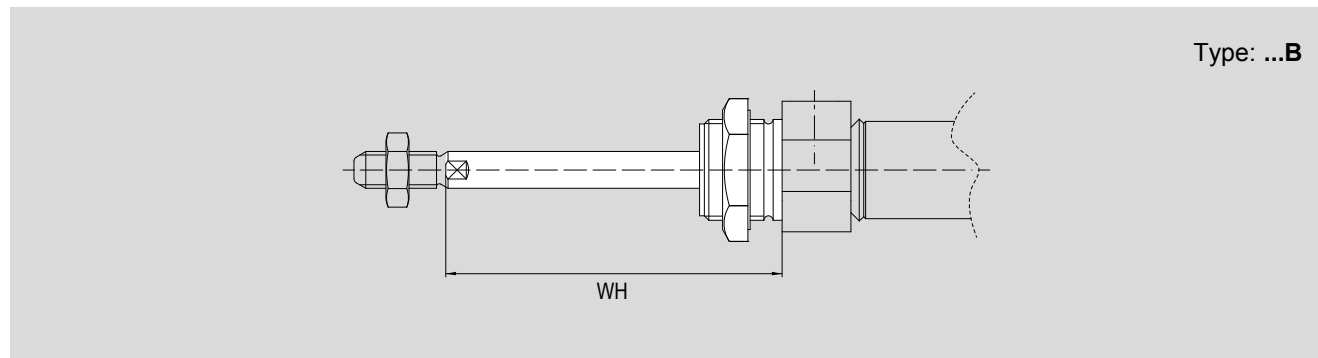
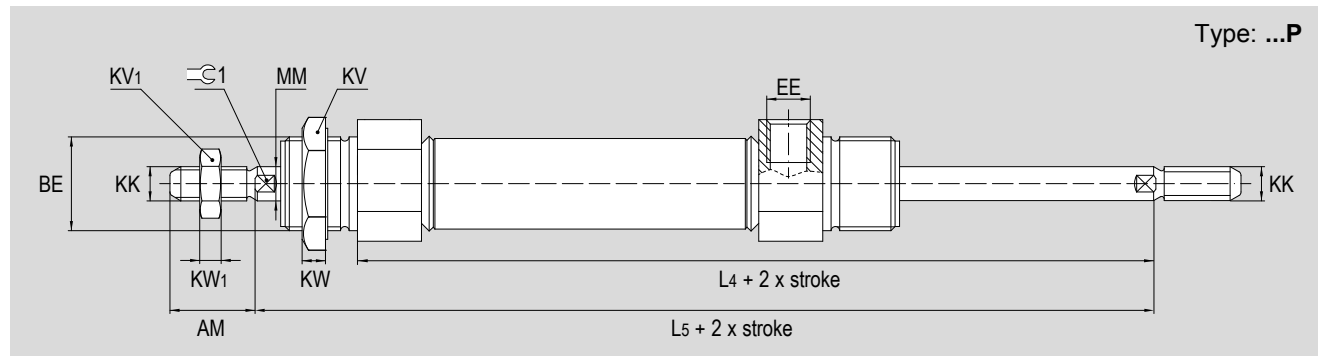
Standard dimensions



| $\varnothing$<br>(mm) | KK       | MM | BE       | R  | EW | $R_1$ | E    | CD | AM | XC  | $L_2$ | L  |
|-----------------------|----------|----|----------|----|----|-------|------|----|----|-----|-------|----|
| 8                     | M4x0,7   | 4  | M12x1,25 | 16 | 8  | 9,27  | 15   | 4  | 12 | 64  | 74    | 4  |
| 10                    | M4x0,7   | 4  | M12x1,25 | 16 | 8  | 11,27 | 15   | 4  | 12 | 64  | 74    | 4  |
| 12                    | M6x1     | 6  | M16x1,5  | 21 | 12 | 13,27 | 18   | 6  | 16 | 75  | 89    | 2  |
| 16                    | M6x1     | 6  | M16x1,5  | 21 | 12 | 17,27 | 19   | 6  | 16 | 82  | 96    | 2  |
| 20                    | M8x1,25  | 8  | M22x1,5  | 30 | 16 | 21,27 | 28,5 | 8  | 20 | 95  | 105   | 12 |
| 25                    | M10x1,25 | 10 | M22x1,5  | 30 | 16 | 26,5  | 28,5 | 8  | 22 | 104 | 114   | 12 |

| $\varnothing$<br>(mm) | $L_1$ | WF | BF | BD | EE    | $L_3$ | D  | KW | $KW_1$ | $\frac{1}{2}$ | $KV_1$ | KV | $E/2$ | $G_2$ |
|-----------------------|-------|----|----|----|-------|-------|----|----|--------|---------------|--------|----|-------|-------|
| 8                     | 46    | 16 | 12 | 12 | M5    | 86    | 16 | 7  | 3      | -             | 7      | 19 | 7,5   | 9     |
| 10                    | 46    | 16 | 12 | 12 | M5    | 86    | 16 | 7  | 3      | -             | 7      | 19 | 7,5   | 9     |
| 12                    | 51    | 22 | 16 | 16 | M5    | 105   | 19 | 8  | 3,5    | 5             | 10     | 24 | 10    | 10    |
| 16                    | 58    | 22 | 16 | 16 | M5    | 112   | 19 | 8  | 3,5    | 5             | 12     | 24 | 10    | 10    |
| 20                    | 59    | 24 | 18 | 22 | G1/8" | 125   | 27 | 6  | 5      | 7             | 14     | 27 | 15    | 15    |
| 25                    | 64    | 28 | 20 | 22 | G1/8" | 136   | 27 | 6  | 6      | 9             | 17     | 27 | 15    | 16    |

Dimensions with options



| Ø mm | L <sub>4</sub> | L <sub>5</sub> | EE    | BE      | KK       | KW | KW <sub>1</sub> | ≡ 1 | KV <sub>1</sub> | KV | MM | AM | WH |
|------|----------------|----------------|-------|---------|----------|----|-----------------|-----|-----------------|----|----|----|----|
| 16   | 80             | 102            | M5    | M16x1,5 | M6x1     | 8  | 3,5             | 5   | 12              | 24 | 6  | 16 | -  |
| 20   | 83             | 107            | G1/8" | M22x1,5 | M8x1,25  | 6  | 5               | 7   | 14              | 27 | 8  | 20 | 72 |
| 25   | 92             | 120            | G1/8" | M22x1,5 | M10x1,25 | 6  | 6               | 9   | 17              | 27 | 10 | 22 | 74 |

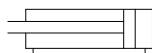
# Cylinders ISO 6432

Series MD - MDM

1 - CYLINDERS

## Main features

8 ÷ 25



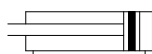
**MD**

Bores Ø

Double acting  
Non magnetic

Type

8 ÷ 25



 **MDM**

Bores Ø

Double acting  
Magnetic

Type



## Technical data

|                   |                                                                                                  |    |                    |              |      |          |
|-------------------|--------------------------------------------------------------------------------------------------|----|--------------------|--------------|------|----------|
| Bore Ø mm         | 8                                                                                                | 10 | 12                 | 16           | 20   | 25       |
| Fluid             | Filtered compressed air with or without lubrication. Lubrication, if started, must be continued. |    |                    |              |      |          |
| Pressure range    | 1 ÷ 10 bar                                                                                       |    |                    |              |      |          |
| Temperature range | -20°C ÷ +80°C (standard)                                                                         |    | -20°C ÷ +150°C (V) |              |      |          |
| Strokes           | 10 ÷ 200 mm                                                                                      |    | 10 ÷ 320 mm        | 10 ÷ 1000 mm |      |          |
| Ports             | M5                                                                                               |    |                    |              | 1/8" |          |
| Rod thread        | M4                                                                                               |    | M6                 |              | M8   | M10x1,25 |

## Standard strokes

| Stroke mm | <b>MD</b><br>Bore Ø mm |    |    |    |    |    |
|-----------|------------------------|----|----|----|----|----|
|           | 8                      | 10 | 12 | 16 | 20 | 25 |
| 10        |                        |    |    |    |    |    |
| 25        |                        |    |    |    |    |    |
| 50        |                        |    |    |    |    |    |
| 80        |                        |    |    |    |    |    |
| 100       |                        |    |    |    |    |    |
| 125       |                        |    |    |    |    |    |
| 160       |                        |    |    |    |    |    |
| 200       |                        |    |    |    |    |    |
| 250       |                        |    |    |    |    |    |
| 320       |                        |    |    |    |    |    |
| 400       |                        |    |    |    |    |    |
| 500       |                        |    |    |    |    |    |

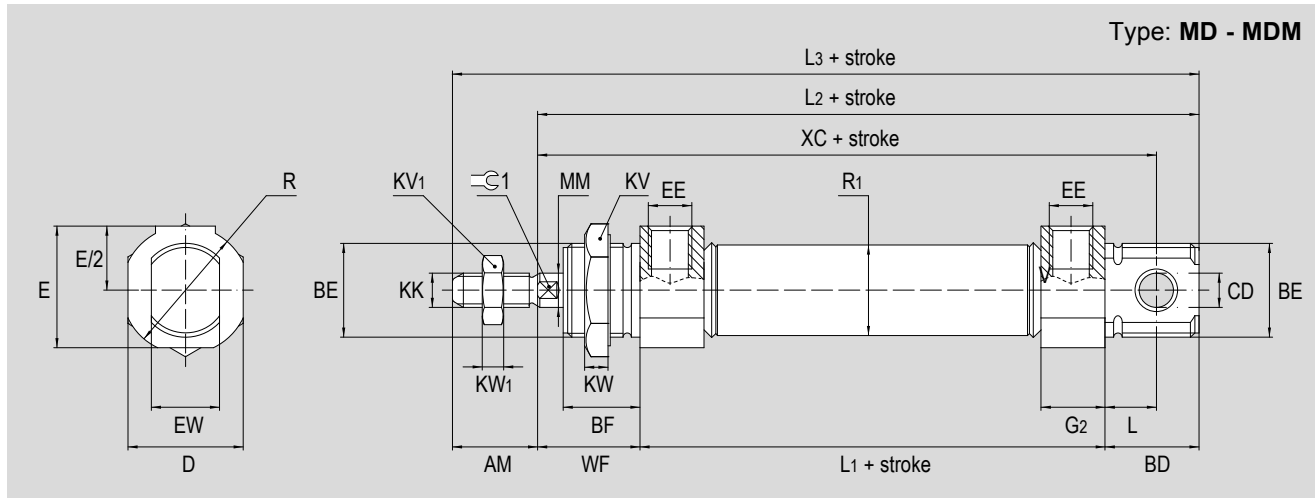
| Stroke mm | <b>MDM</b><br>Bore Ø mm |    |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|-----------|-------------------------|----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|           | 8                       | 10 | 12                                                                                    | 16                                                                                    | 20                                                                                    | 25                                                                                    |
| 10        |                         |    |  |  |  |  |
| 25        |                         |    |  |  |  |  |
| 50        |                         |    |  |  |  |  |
| 80        |                         |    |  |  |  |  |
| 100       |                         |    |  |  |  |  |
| 125       |                         |    |  |  |  |  |
| 160       |                         |    |  |  |  |  |
| 200       |                         |    |  |  |  |  |
| 250       |                         |    |                                                                                       |                                                                                       |  |  |
| 320       |                         |    |                                                                                       |                                                                                       |  |  |
| 400       |                         |    |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
| 500       |                         |    |                                                                                       |                                                                                       |                                                                                       |                                                                                       |

Key

 Standard stroke

1.2.50

Standard dimensions



| $\varnothing$<br>(mm) | KK       | MM | BE       | R  | EW | $R_1$ | E    | CD | AM | XC  | $L_2$ | L  |
|-----------------------|----------|----|----------|----|----|-------|------|----|----|-----|-------|----|
| 8                     | M4x0,7   | 4  | M12x1,25 | 16 | 8  | 9,27  | 15   | 4  | 12 | 64  | 74    | 4  |
| 10                    | M4x0,7   | 4  | M12x1,25 | 16 | 8  | 11,27 | 15   | 4  | 12 | 64  | 74    | 4  |
| 12                    | M6x1     | 6  | M16x1,5  | 21 | 12 | 13,27 | 18   | 6  | 16 | 75  | 89    | 2  |
| 16                    | M6x1     | 6  | M16x1,5  | 21 | 12 | 17,27 | 19   | 6  | 16 | 82  | 96    | 2  |
| 20                    | M8x1,25  | 8  | M22x1,5  | 30 | 16 | 21,27 | 28,5 | 8  | 20 | 95  | 105   | 12 |
| 25                    | M10x1,25 | 10 | M22x1,5  | 30 | 16 | 26,5  | 28,5 | 8  | 22 | 104 | 114   | 12 |

| $\varnothing$<br>(mm) | $L_1$ | WF | BF | BD | EE    | $L_3$ | D  | KW | $KW_1$ | $\frac{\varnothing}{1}$ | $KV_1$ | KV | E/2 | $G_2$ |
|-----------------------|-------|----|----|----|-------|-------|----|----|--------|-------------------------|--------|----|-----|-------|
| 8                     | 46    | 16 | 12 | 12 | M5    | 86    | 16 | 7  | 3      | -                       | 7      | 19 | 7,5 | 9     |
| 10                    | 46    | 16 | 12 | 12 | M5    | 86    | 16 | 7  | 3      | -                       | 7      | 19 | 7,5 | 9     |
| 12                    | 51    | 22 | 16 | 16 | M5    | 105   | 19 | 8  | 3,5    | 5                       | 10     | 24 | 10  | 10    |
| 16                    | 58    | 22 | 16 | 16 | M5    | 112   | 19 | 8  | 3,5    | 5                       | 12     | 24 | 10  | 10    |
| 20                    | 59    | 24 | 18 | 22 | G1/8" | 125   | 27 | 6  | 5      | 7                       | 14     | 27 | 15  | 15    |
| 25                    | 64    | 28 | 20 | 22 | G1/8" | 136   | 27 | 6  | 6      | 9                       | 17     | 27 | 15  | 16    |

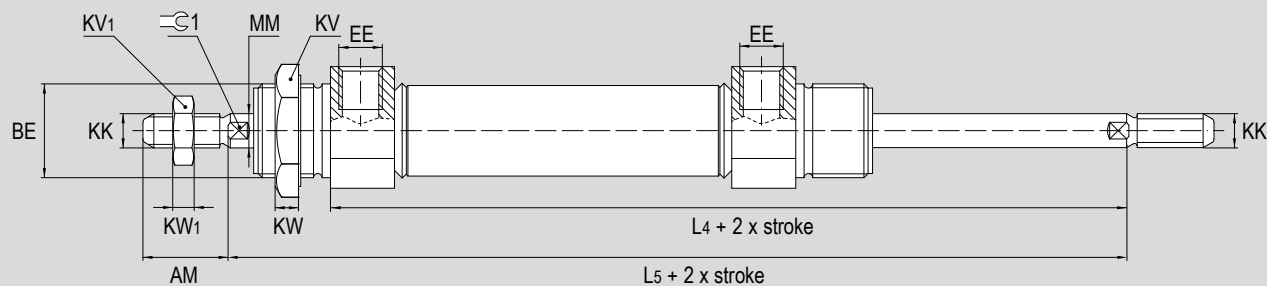
# Cylinders ISO 6432

Series MD - MDM

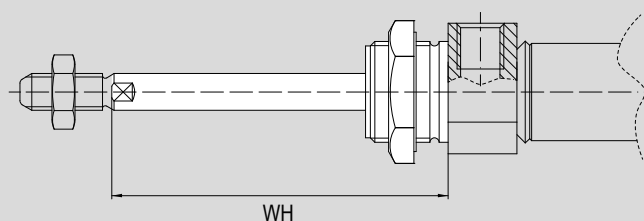
1 - CYLINDERS

## Dimensions with options

Type: ...P



Type: ...B



| Ø mm | L <sub>4</sub> | L <sub>5</sub> | EE    | BE      | KK       | KW | KW <sub>1</sub> | ≡ 1 | KV <sub>1</sub> | KV | MM | AM | WH |
|------|----------------|----------------|-------|---------|----------|----|-----------------|-----|-----------------|----|----|----|----|
| 16   | 80             | 102            | M5    | M16x1,5 | M6x1     | 8  | 3,5             | 5   | 12              | 24 | 6  | 16 | -  |
| 20   | 83             | 107            | G1/8" | M22x1,5 | M8x1,25  | 6  | 5               | 7   | 14              | 27 | 8  | 20 | 72 |
| 25   | 92             | 120            | G1/8" | M22x1,5 | M10x1,25 | 6  | 6               | 9   | 17              | 27 | 10 | 22 | 74 |

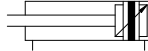
# Cylinders ISO 6432

Series MDMA



## Main features

16 ÷ 25



**MDMA**

Bores Ø

Double acting  
Magnetic  
With cushioning

Type



1 - CYLINDERS

## Technical data

| Bore Ø mm         | 16                                                                                               | 20   | 25       |
|-------------------|--------------------------------------------------------------------------------------------------|------|----------|
| Fluid             | Filtered compressed air with or without lubrication. Lubrication, if started, must be continued. |      |          |
| Pressure range    | 1 ÷ 10 bar                                                                                       |      |          |
| Temperature range | -20°C ÷ +80°C (standard)      -20°C ÷ +150°C (V)                                                 |      |          |
| Strokes           | 25 ÷ 1000 mm                                                                                     |      |          |
| Ports             | M5                                                                                               | 1/8" |          |
| Rod thread        | M6                                                                                               | M8   | M10x1,25 |

## Standard strokes

| Stroke mm | MDMA<br>Bore Ø mm |    |    |
|-----------|-------------------|----|----|
|           | 16                | 20 | 25 |
| 25        |                   |    |    |
| 50        |                   |    |    |
| 80        |                   |    |    |
| 100       |                   |    |    |
| 125       |                   |    |    |
| 160       |                   |    |    |
| 200       |                   |    |    |
| 250       |                   |    |    |
| 320       |                   |    |    |
| 400       |                   |    |    |
| 500       |                   |    |    |

Key

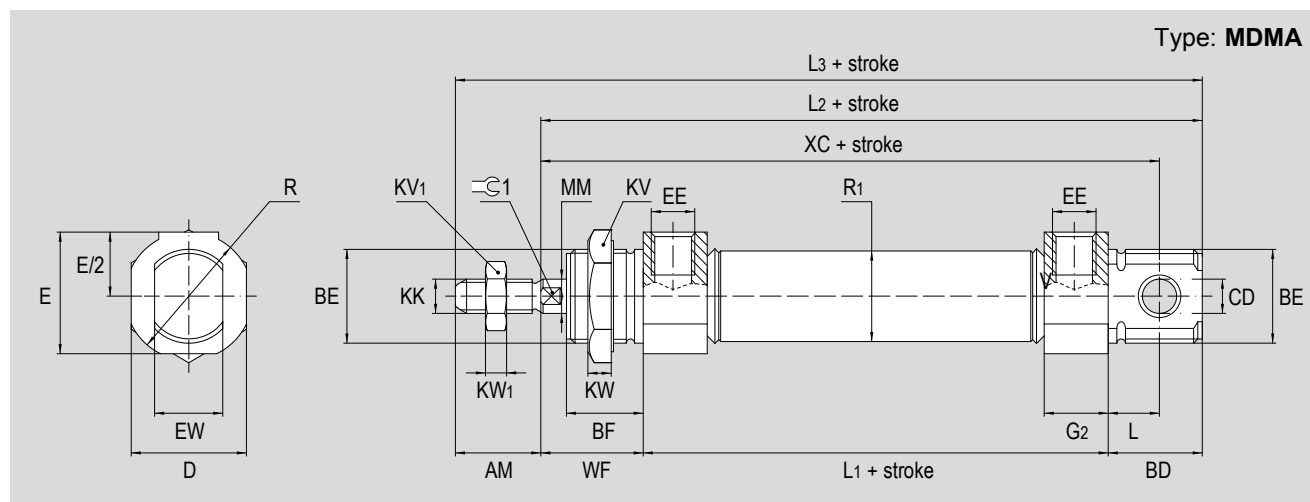
Standard stroke

# Cylinders ISO 6432

Series MDMA

## Standard dimensions

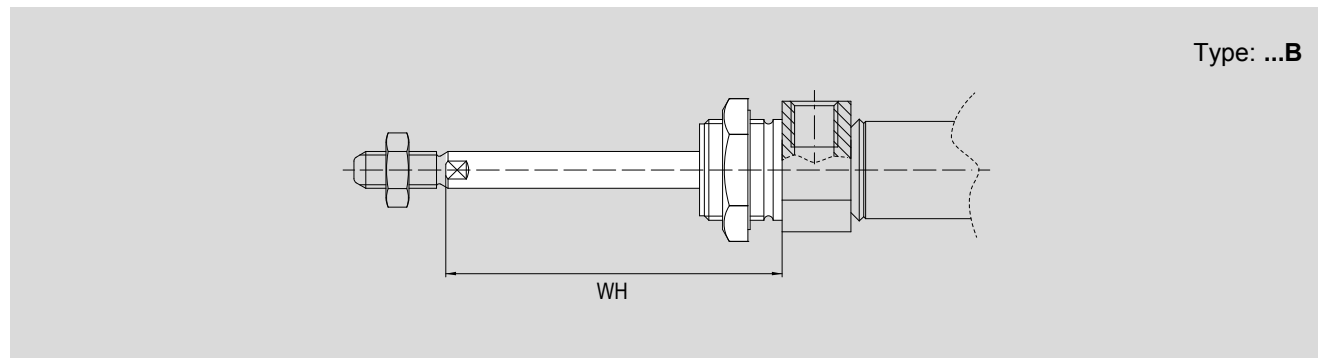
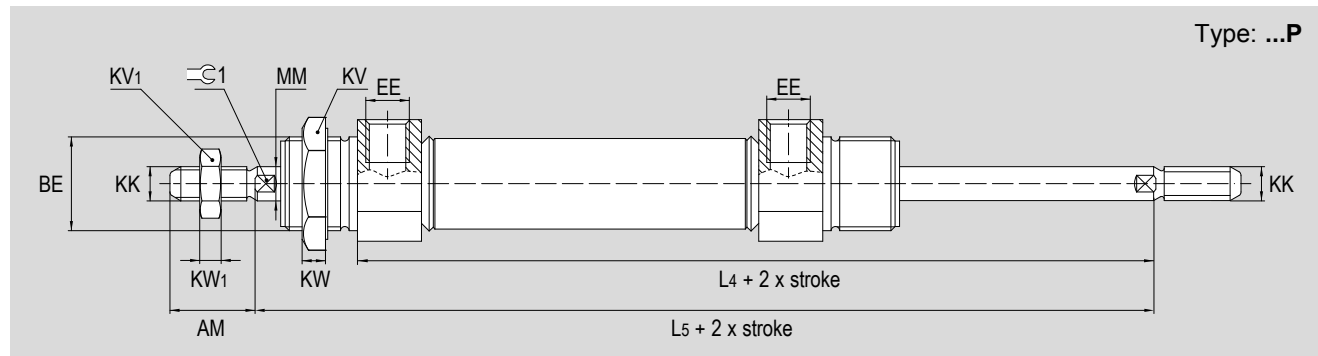
1 - CYLINDERS



| Ø (mm) | KK       | MM | BE      | R  | EW | R <sub>1</sub> | E    | CD | AM | XC  | L <sub>2</sub> | L  |
|--------|----------|----|---------|----|----|----------------|------|----|----|-----|----------------|----|
| 16     | M6x1     | 6  | M16x1,5 | 21 | 12 | 17,27          | 19   | 6  | 16 | 82  | 96             | 2  |
| 20     | M8x1,25  | 8  | M22x1,5 | 30 | 16 | 21,27          | 28,5 | 8  | 20 | 95  | 105            | 12 |
| 25     | M10x1,25 | 10 | M22x1,5 | 30 | 16 | 26,5           | 28,5 | 8  | 22 | 104 | 114            | 12 |

| Ø (mm) | L <sub>1</sub> | WF | BF | BD | EE    | L <sub>3</sub> | D  | KW | KW <sub>1</sub> | ⌀ 1 | KV <sub>1</sub> | KV | E/2 | G <sub>2</sub> |
|--------|----------------|----|----|----|-------|----------------|----|----|-----------------|-----|-----------------|----|-----|----------------|
| 16     | 58             | 22 | 16 | 16 | M5    | 112            | 19 | 8  | 3,5             | 5   | 12              | 24 | 10  | 10             |
| 20     | 59             | 24 | 18 | 22 | G1/8" | 125            | 27 | 6  | 5               | 7   | 14              | 27 | 15  | 15             |
| 25     | 64             | 28 | 20 | 22 | G1/8" | 136            | 27 | 6  | 6               | 9   | 17              | 27 | 15  | 16             |

Dimensions with options



| Ø mm | L <sub>4</sub> | L <sub>5</sub> | EE    | BE      | KK       | KW | KW <sub>1</sub> | 1 | KV <sub>1</sub> | KV | MM | AM | WH |
|------|----------------|----------------|-------|---------|----------|----|-----------------|---|-----------------|----|----|----|----|
| 16   | 80             | 102            | M5    | M16x1,5 | M6x1     | 8  | 3,5             | 5 | 12              | 24 | 6  | 16 | -  |
| 20   | 83             | 107            | G1/8" | M22x1,5 | M8x1,25  | 6  | 5               | 7 | 14              | 27 | 8  | 20 | 72 |
| 25   | 92             | 120            | G1/8" | M22x1,5 | M10x1,25 | 6  | 6               | 9 | 17              | 27 | 10 | 22 | 74 |

## Accessories for cylinders ISO 6432

## Slide unit U-shaped, UGLB..

|  | For cylinder<br>Ø mm | Code | Item       | Compliance |
|--|----------------------|------|------------|------------|
|  | 12                   | *    | UGLB12/... | -          |
|  | 16                   | *    | UGLB16/... |            |
|  | 20                   | *    | UGLB20/... |            |
|  | 25                   | *    | UGLB25/... |            |

\* for code see page 1.70.3

## Slide unit H-shaped, UGPB..

|  | For cylinder<br>Ø mm | Code | Item       | Compliance |
|--|----------------------|------|------------|------------|
|  | 12                   | *    | UGPB12/... | -          |
|  | 16                   | *    | UGPB16/... |            |
|  | 20                   | *    | UGPB20/... |            |
|  | 25                   | *    | UGPB25/... |            |

\* for code see page 1.70.3

## Slide unit H-shaped, UGPS..

|  | For cylinder<br>Ø mm | Code | Item       | Compliance |
|--|----------------------|------|------------|------------|
|  | 12                   | *    | UGPS12/... | -          |
|  | 16                   | *    | UGPS16/... |            |
|  | 20                   | *    | UGPS20/... |            |
|  | 25                   | *    | UGPS25/... |            |

\* for code see page 1.70.3

## Static piston rod brake\* normally closed ABS..CRD

|  | For cylinder<br>Ø mm | Code   | Item      | Compliance |
|--|----------------------|--------|-----------|------------|
|  | 20                   | 042022 | ABS020CRD | -          |
|  | 25                   | 042023 | ABS025CRD |            |

## Static piston rod brake\* normally open ABS..ARD

|  | For cylinder<br>Ø mm | Code   | Item      | Compliance |
|--|----------------------|--------|-----------|------------|
|  | 20                   | 042032 | ABS020ARD | -          |
|  | 25                   | 042033 | ABS025ARD |            |

\* option B required

## Female clevis with clip FF..ISO

|  | For cylinder<br>Ø mm | Code   | Item        | Compliance |
|--|----------------------|--------|-------------|------------|
|  | 8-10                 | 041001 | FF04ISO/DIN |            |
|  | 12-16                | 041002 | FF06ISO/DIN |            |
|  | 20                   | 041003 | FF08ISO/DIN |            |
|  | 25                   | 041004 | FF10ISO     |            |

## 22mm direct mounting solenoid valves A1E1..MD

|  | For cylinder<br>Ø mm | Code   | Item     | Cylinder<br>matching |
|--|----------------------|--------|----------|----------------------|
|  | 20 ÷ 25              | 034226 | A1E130MD | MS<br>MSM            |

## Female clevis with pin and seeger FFP..ISO

|  | For cylinder<br>Ø mm | Code   | Item         | Compliance |
|--|----------------------|--------|--------------|------------|
|  | 8-10                 | -      | FFP04ISO/DIN |            |
|  | 12-16                | -      | FFP06ISO/DIN |            |
|  | 20                   | 041049 | FFP08ISO/DIN |            |
|  | 25                   | 041051 | FFP10ISO     |            |

## Female clevis (body only) FFN..ISO

|  | For cylinder<br>Ø mm | Code   | Item         | Compliance |
|--|----------------------|--------|--------------|------------|
|  | 8-10                 | 041091 | FFN04ISO/DIN |            |
|  | 12-16                | 041011 | FFN06ISO/DIN |            |
|  | 20                   | 041018 | FFN08ISO/DIN |            |
|  | 25                   | 041014 | FFN10ISO     |            |

## Bearing heads (DIN 648K) with female thread RF..SE

|  | For cylinder<br>Ø mm | Code   | Item   | Compliance |
|--|----------------------|--------|--------|------------|
|  | 8-10                 | 041551 | RF5SE  |            |
|  | 12-16                | 041552 | RF6SE  |            |
|  | 20                   | 041553 | RF8SE  |            |
|  | 25                   | 041554 | RF10SE |            |

## Self-aligning articulated coupling GB..

|  | For cylinder<br>Ø mm | Code   | Item  | Compliance |
|--|----------------------|--------|-------|------------|
|  | 8-10                 | 041701 | GB008 | -          |
|  | 12-16                | 041702 | GB010 |            |
|  | 20                   | 041703 | GB020 |            |
|  | 25                   | 041704 | GB040 |            |

## Accessories for cylinders ISO 6432

## Axial articulated coupling RBI..

|  | For cylinder<br>Ø mm | Code   | Item  | Compliance |
|-----------------------------------------------------------------------------------|----------------------|--------|-------|------------|
|                                                                                   | 12-16                | 041602 | RBI6  | -          |
|                                                                                   | 20                   | 041603 | RBI8  |            |
|                                                                                   | 25                   | 041604 | RBI10 |            |

## Angular articulated coupling RBL..

|  | For cylinder<br>Ø mm | Code   | Item  | Compliance |
|-----------------------------------------------------------------------------------|----------------------|--------|-------|------------|
|                                                                                   | 12-16                | 041652 | RBL6  | -          |
|                                                                                   | 20                   | 041653 | RBL8  |            |
|                                                                                   | 25                   | 041654 | RBL10 |            |

## Self-aligning coupling GC..

|  | For cylinder<br>Ø mm | Code   | Item       | Compliance |
|-----------------------------------------------------------------------------------|----------------------|--------|------------|------------|
|                                                                                   | 25                   | 041722 | GCM10x1,25 | -          |

## Rod nut D..

|  | For cylinder<br>Ø mm | Code   | Item       | Compliance                                                                          |
|-----------------------------------------------------------------------------------|----------------------|--------|------------|-------------------------------------------------------------------------------------|
|                                                                                   | 8-10                 | 881397 | D4x0,7     |  |
|                                                                                   | 12-16                | 041450 | D6x1       |                                                                                     |
|                                                                                   | 20                   | 041451 | D8x1,25ZB  |                                                                                     |
|                                                                                   | 25                   | 041452 | D10x1,25ZB |                                                                                     |

## Rear clevis in steel with pin and seeger CF..+P

|  | For cylinder<br>Ø mm | Code   | Item      | Compliance                                                                         |
|------------------------------------------------------------------------------------|----------------------|--------|-----------|------------------------------------------------------------------------------------|
|                                                                                    | 8-10                 | 040048 | CF08-10+P |  |
|                                                                                    | 12-16                | 040049 | CF12-16+P |                                                                                    |
|                                                                                    | 20-25                | 040050 | CF20-25+P |                                                                                    |

Kit composed by rear clevis, pin and two seeger.

## High foot in steel P..

|  | For cylinder<br>Ø mm | Code   | Item   | Compliance                                                                           |
|------------------------------------------------------------------------------------|----------------------|--------|--------|--------------------------------------------------------------------------------------|
|                                                                                    | 8-10                 | 040021 | P08-10 |  |
|                                                                                    | 12-16                | 040022 | P12-16 |                                                                                      |
|                                                                                    | 20-25                | 040023 | P20-25 |                                                                                      |

Supplied individually.

## Flange in steel F..

|  | For cylinder<br>Ø mm | Code   | Item   | Compliance                                                                          |
|-------------------------------------------------------------------------------------|----------------------|--------|--------|-------------------------------------------------------------------------------------|
|                                                                                     | 8-10                 | 040001 | F08-10 |  |
|                                                                                     | 12-16                | 040002 | F12-16 |                                                                                     |
|                                                                                     | 20-25                | 040003 | F20-25 |                                                                                     |

Supplied individually.

## ATEX magnetic reed switch T groove MK..

|  | For cylinder<br>Ø mm | Code   | Item   | Compliance                                                                            | Cylinder<br>matching  |
|-------------------------------------------------------------------------------------|----------------------|--------|--------|---------------------------------------------------------------------------------------|-----------------------|
|                                                                                     | 8 ÷ 25               | 071120 | MK500A |  | MSM*<br>MDM*<br>MDMA* |
|                                                                                     |                      | 071108 | MK502A |  |                       |

\*With bracket type AFM.. for magnetic reed switches T groove

## Magnetic reed switch T groove ASV..

|  | For cylinder<br>Ø mm | Code   | Item     | Cylinder<br>matching  |
|-------------------------------------------------------------------------------------|----------------------|--------|----------|-----------------------|
|                                                                                     | 8 ÷ 25               | 070946 | ASV1C525 | MSM*<br>MDM*<br>MDMA* |
|                                                                                     |                      | 071863 | ASV1C550 |                       |
|                                                                                     |                      | 071864 | ASV1C51K |                       |
|                                                                                     |                      | 071189 | ASV1C5M8 |                       |
|                                                                                     |                      | 073639 | ASV4D225 |                       |
|                                                                                     |                      | 070246 | ASV4D2M8 |                       |
|                                                                                     |                      | 074900 | ASV7N225 |                       |
|                                                                                     |                      | 070247 | ASV7N2M8 |                       |
|                                                                                     |                      | 070372 | ASV7M2M8 |                       |
|                                                                                     |                      | 072918 | ASV1H525 |                       |

\*With bracket type AFM.. for magnetic reed switches T groove

## Bracket for magnetic reed switch T groove AFM..

|  | For cylinder<br>Ø mm | Code   | Item  | Compliance |
|-------------------------------------------------------------------------------------|----------------------|--------|-------|------------|
|                                                                                     | 8                    | 072901 | AFM8  | -          |
|                                                                                     | 10                   | 072902 | AFM10 |            |
|                                                                                     | 12                   | 072903 | AFM12 |            |
|                                                                                     | 16                   | 072904 | AFM16 |            |
|                                                                                     | 20                   | 072905 | AFM20 |            |
|                                                                                     | 25                   | 072906 | AFM25 |            |