FEATURES

- Excellent resistance to corrosive media (stainless steel barrel and rod)
- Mountings integrated in the front and MP4 cap in the rear cover for trunnion mounting
- Compact threaded mount for direct attachment of front or rear covers on machine
- Double acting cylinders with or without pneumatic cushioning

GENERAL

Detection: Equipped for magnetic position detectors
Fluid: Air or inert gas, filtered, lubricated or not
Operating pressure:
- Single acting: 2 to 10 bar
- Double acting: 10 bar, max.
Ambient temperature: -20°C to +70°C
Optimal max. speed: ≤ 1 m/s (for optimal service life)
Max. speed rate: 2 m/s
Standards: ISO 6432

CONSTRUCTION

Barrel: Non-magnetic stainless steel
Rod: Stainless steel
Front and rear ends: Anodised light alloy (stainless steel: SSC option)
Cushioning seals: PUR (polyurethane)
Cushioning: Pneumatic, adjustable from both sides with captive screw
Rod nut / neck nut: Galvanised steel
Piston: Light alloy POM (polyacetal) fitted with an annular permanent magnet
Piston seals: PUR (polyurethane)
Dismounting: Cannot be dismounted

HOW TO ORDER

15-DIGIT PRODUCT CODE

<table>
<thead>
<tr>
<th>G</th>
<th>435</th>
<th>A</th>
<th>-</th>
<th>S</th>
<th>N</th>
<th>-</th>
<th>-</th>
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Thread connection

G = ISO 16030

Options

- A00 = Not cushioned piston, prepared for magnetic detection
- CSH = Pneumatic cushioned piston, prepared for magnetic detection
- SSC = Stainless Steel Covers, FPM Rod Seal, Prepared for Magnetic Detection, Not Cushioned
- AT1 = Cushioned and non cushioned piston, prepared for magnetic detection, certified for ATEX 1/21 zones
- AT2 = Cushioned and non cushioned piston, prepared for magnetic detection, certified for ATEX 2/22 zones

Diameter (mm)

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<tr>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
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<td>10</td>
<td>12</td>
<td>16</td>
<td>20</td>
<td>25</td>
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</table>

Rod options 1

S = Double acting
1 = Single acting rod in
2 = Through rod (double acting)
3 = Single acting rod out

(1) Available in bore size: 12, 16, 20 and 25
All cylinders delivered with rod nut.

Rod options 2

N = Stainless steel male thread rod end + rod nut

POSITION DETECTORS

Magnetic position detectors must be ordered separately: “T” model, reed switch or magneto-resistive type

Configurator - CAD Files

Double acting

| Ø 16 mm = 12.5 mm |
| Ø 20 mm = 17.5 mm |
| Ø 25 mm = 18 mm |

CSH option

Recommended standard strokes (mm)

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<tbody>
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<td>M5</td>
<td>SD</td>
<td>SD</td>
<td>D</td>
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<td>D</td>
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<tr>
<td>100</td>
<td>M5</td>
<td>SD</td>
<td>SD</td>
<td>D</td>
<td>D</td>
<td>D</td>
</tr>
<tr>
<td>160</td>
<td>M5</td>
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<td>max. stroke</td>
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<td>400</td>
<td>400</td>
<td>400</td>
<td>400</td>
<td>900</td>
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</table>

Strokes range available up to “max. stroke” column on the right.
Please note strokes marked in grey exceed the maximum recommended.

(1) Other strokes on request. Min. stroke: 5 mm
(2) Double acting only / SD = Single & Double acting
SDO = Single acting rod in + Double acting rod out + Double acting

All leaflets are available on: www.asco.com
## INSTALLATION

- The cylinders can be mounted in any position without affecting operation.
- Each cylinder is delivered with a neck nut and a rod nut.
- Mountings: catalogue number

<table>
<thead>
<tr>
<th>Ø (mm)</th>
<th>Front or rear flange</th>
<th>High foot (per unit)</th>
<th>Rear trunnion</th>
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<tr>
<td></td>
<td>MF8</td>
<td>MS3</td>
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<tr>
<td>steel</td>
<td>st. steel</td>
<td>steel</td>
<td>st. steel</td>
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<table>
<thead>
<tr>
<th>Ø (mm)</th>
<th>Female rod clevis</th>
<th>Spherical rod end</th>
<th>Front neck nut</th>
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<tr>
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</tbody>
</table>

- Pipe connections G 1/8 have standard thread according to ISO 16030.
- Installation/maintenance instructions are included with each cylinder.
**DIMENSIONS (mm), WEIGHT (kg)**

### SINGLE-ROD TYPE CYLINDER

Bare cylinder, single and double acting
Supplied with front cover nut
ISO 6432

### THROUGH-ROD TYPE CYLINDER

Bare cylinder, double acting
Supplied with front cover nut
ISO 6432

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<tr>
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<th>AM</th>
<th>B</th>
<th>BC</th>
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<th>BF</th>
<th>ØCD</th>
<th>D</th>
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<th>EW</th>
<th>F</th>
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<td>-</td>
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<td>16</td>
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<td>19</td>
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<td>6 H 11</td>
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**NOTE:**
- Single and double acting Rod-In have the same dimensions.
- Use twice Nominal Stroke for Single Acting Rod Out.
- The mountings are always delivered separately.

### MOUNTING

Front or rear flange MF8

### MOUNTING

High foot Foot mounting are supplied in single units, not in pairs MS3

**All leaflets are available on:** [www.asco.com](http://www.asco.com)
ISO 6432 ROUND CYLINDERS - SERIES 435

**DIMENSIONS (mm), WEIGHT (kg)**

**Mounting**
- Rear trunnion
- Female rod clevis
- Spherical rod end
- Front neck nut

**Table 1: Stroke**

<table>
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<tr>
<th>Ø (mm)</th>
<th>AM</th>
<th>BH</th>
<th>EA</th>
<th>FA</th>
<th>FB</th>
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**Table 2: MOUNTING**

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<th>K</th>
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<th>LE</th>
<th>CE</th>
<th>CL</th>
<th>ØKK</th>
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<th>weight</th>
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All leaflets are available on: www.asco.com

14 - Cylinders & Actuators