### How to Order?

**Series No**
- **IA** Stainless steel barrel
- **IA-S** Blank type

**Cushion**
- **C**: Air Cushion
- **R**: Rubber Cushion

**Type**
- **No**: Bore X Stroke - Adjustable stroke
- **Magnets No**: Blank - With Magnet

**Tail type**
- **Blank**: Swiveling tail
- **CM**: Round tail

**Mounting**
- **Blank**: LB, FA, SDB
- **G**: CJ, YJ, BJ

**Thread type**
- **Plain**: PT
- **PTFE**: NPT

**Order Example**
IA series, Double shaft and adjustable stroke type, air cushion, Bore 20mm, stroke 25mm, Adjustable stroke 20, with magnet, NO Mounting type, Round tail, PT thread.

**ERP code is:** IACJ20*25-20-S-CM-P

Note:
1. If cylinder with several different mounting accessories, please use this sequential coding: LB/FA/SDB/UJ/ZJ/BJ
2. IA Series, Bore 8mm and Bore 10mm, No round tail type is optional.
3. IAC Series, 16 20 25 is optional.

### Specifications

<table>
<thead>
<tr>
<th>Bore size (mm)</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>16</th>
<th>20</th>
<th>25</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acting type</strong></td>
<td>Double Acting</td>
<td>Single Acting</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Working medium</strong></td>
<td>Clean Air (30μm filtration)</td>
<td>Clean Air (40μm filtration)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Working pressure (MPa)</strong></td>
<td>0.1<del>0.7 (Double Acting) / 0.2</del>0.7 (Single Acting)</td>
<td>0.1<del>0.7 (Double Acting) / 0.2</del>0.7 (Single Acting)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Guaranteed pressure (MPa)</strong></td>
<td>1.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Working temperature (°C)</strong></td>
<td><del>20</del>80 (Dry air)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Speed range (mm/s)</strong></td>
<td>50~800</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Cushion type</strong></td>
<td>Bumper (Standard) / Air Cushion (Adjustable cushion)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Barrel material</strong></td>
<td>Stainless Steel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Mounting type</strong></td>
<td>LB, FA, SDB</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Port size</strong></td>
<td>M5 - 0.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* NPT, PT port size is optional.

### Interna Structure

![Internal Structure Diagram]

<table>
<thead>
<tr>
<th>No.</th>
<th>Part name</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nut</td>
<td>Carbon steel</td>
</tr>
<tr>
<td>2</td>
<td>Piston rod</td>
<td>IA8, 10 (SUS 304) hard chrome carbon steel / IA12-IA25 (SUS 344) hard chrome carbon steel</td>
</tr>
<tr>
<td>3</td>
<td>Piston rod seal</td>
<td>NBR</td>
</tr>
<tr>
<td>4</td>
<td>Nut</td>
<td>Carbon steel</td>
</tr>
<tr>
<td>5</td>
<td>Self lubricating bearing</td>
<td>Bronze powder</td>
</tr>
<tr>
<td>6</td>
<td>Head cover</td>
<td>Aluminum alloy</td>
</tr>
<tr>
<td>7</td>
<td>Barrel</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>8</td>
<td>Anti-bump cushion</td>
<td>TPU</td>
</tr>
<tr>
<td>9</td>
<td>O-ring</td>
<td>NBR</td>
</tr>
<tr>
<td>10</td>
<td>Piston</td>
<td>IA8, 10 (SUS 304) Stainless steel / IA12-IA25 (SUS 344) Stainless steel</td>
</tr>
<tr>
<td>11</td>
<td>Piston seal</td>
<td>NBR</td>
</tr>
<tr>
<td>12</td>
<td>Magnet</td>
<td>Plastic</td>
</tr>
<tr>
<td>13</td>
<td>Magnet base</td>
<td>IA8, 10 (SUS 304) Stainless steel / IA12-IA25 (SUS 344) Stainless steel</td>
</tr>
<tr>
<td>14</td>
<td>Wear ring</td>
<td>Aluminum alloy</td>
</tr>
<tr>
<td>15</td>
<td>Hexagon screw</td>
<td>Carbon steel</td>
</tr>
<tr>
<td>16</td>
<td>Rear cover</td>
<td>Aluminum alloy</td>
</tr>
</tbody>
</table>
**IA/A2C Series ISO6432 MINI Cylinder**

### Main Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Bore Size (mm)</th>
<th>Stroke (mm)</th>
<th>Total Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA</td>
<td>12</td>
<td>75</td>
<td>130</td>
</tr>
<tr>
<td>CB</td>
<td>100</td>
<td>75</td>
<td>130</td>
</tr>
<tr>
<td>CM</td>
<td>130</td>
<td>130</td>
<td>130</td>
</tr>
<tr>
<td>SA</td>
<td>130</td>
<td>130</td>
<td>130</td>
</tr>
<tr>
<td>SB</td>
<td>130</td>
<td>130</td>
<td>130</td>
</tr>
</tbody>
</table>

### Accessory Dimensions

- **LB Accessory**
- **FA Accessory**
- **SDB Accessory**

### How to Order?

**Order Example:**

RAl series, Double shaft and adjustable stroke type, air cushion, Bore 32mm, stroke 25mm, Adjustable stroke 20, with magnet, No Mounting type, Round tail, PT thread. ERP code is: RALCJ32*25-20-S-CM-P

Note: If cylinder with several different mounting accessories, please use this sequential coding: LB/FA/SDB/IJ/YJ/BJ

### Specifications

<table>
<thead>
<tr>
<th>Bore Size (mm)</th>
<th>16</th>
<th>20</th>
<th>25</th>
<th>32</th>
<th>40</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stroke (mm)</td>
<td>75</td>
<td>75</td>
<td>75</td>
<td>75</td>
<td>75</td>
</tr>
<tr>
<td>Total Length (mm)</td>
<td>130</td>
<td>130</td>
<td>130</td>
<td>130</td>
<td>130</td>
</tr>
</tbody>
</table>

**Acting type:** Double Acting/Single Acting

**Working medium:** Clean Air (40 μ in duration)

**Working pressure (MPa):**

- Double Acting: 0.1–0.7
- Single Acting: 0.2–0.7

**Guaranteed pressure (MPa):**

- Double Acting: 0.1–0.7
- Single Acting: 0.2–1.0

**Working temperature (℃):**

- Double Acting: -20–80 (Dry air)
- Single Acting: 50–800

**Cushion type:** Fixed cushion / Air cushion

**Barrel material:** Aluminum alloy

**Mounting type:**

- LB: Single action extend type
- FA: Single action return type
- SDB: Double shaft type
- IJ: Double shaft and adjustable stroke type
- YJ: Flatt tail
- BJ: Round tail

**Port size:**

- G1/8: NPT
- G1/4: NPT

**NPT, PT port size is optional.**
**HX-01 Series Magnet switch**

**How to Order?**

- **Product code**: HK
- **Series No.**: 01
- **Switch type**: R
- **Special model No.**: Standard sensitive
- **Wire length**: Standard 1M
- **Connection**: QD8

Note:
1. Testing with standard magnet: Φ15. 5x Φ8x5t (Plastic magnet)
2. Sine wave (X, Y, Z) axial direction each axial direction three times each time 11ms
3. Complex amplitude 1.5mm/10Hz-55Hz sweep frequency, test one minute each time X, Y, Z axial direction for one hour

**Dimensions**

- **QD fitting wiring**: Brown (+), Blue (-)
- **Connection**: QD8 Male fitting

**Specification**

- **Type**: HX-01R, HX-01P, HX-01N
- **Connect Diagram**:

**HX-03 Series Magnet switch**

**How to Order?**

- **Product code**: HK
- **Series No.**: 03
- **Switch type**: R
- **Special model No.**: Standard sensitive
- **Wire length**: Standard 1M
- **Connection**: QD8

Note:
1. Testing with standard magnet: Φ15. 5x Φ8x5t (Plastic magnet)
2. Sine wave (X, Y, Z) axial direction each axial direction three times each time 11ms
3. Complex amplitude 1.5mm/10Hz-55Hz sweep frequency, test one minute each time X, Y, Z axial direction for one hour

**Dimensions**

- **QD fitting wiring**: Brown (+), Blue (-)
- **Connection**: QD8 Male fitting

**Specification**

- **Type**: HX-03R, HX-03N, HX-03P
- **Connect Diagram**:

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**HX-01 Series**

- **HX-01 Series Magnet switch**
- **HX-01R-HX-01N-HX-01P-

- **HX-03 Series**
- **HX-03R-HX-03N-HX-03P-