

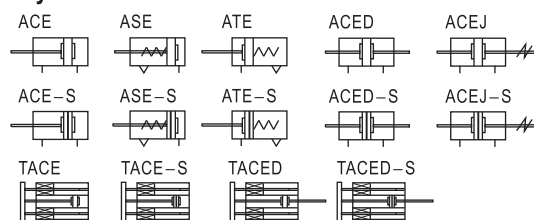
# Compact cylinder

## ACE Series

**AIRTAC**



### Symbol



### Product feature

- In accordance with ISO21287 standard, the mounting size is vogue.
- The cylinder body connects with the threads of the front and back cover, forming high strength and convenient maintenance.
- The internal diameter of the body is treated with rolling followed by the treatment of hard anodizing, forming an excellent abrasion resistance and durability.
- The seal of piston adopts heterogeneous two-way seal structure. It has compact dimension and the function of oil reservation.
- Compact structure can effectively save fifty percent installation space with ISO15552 standard cylinder.
- There are magnetic switch slots around the cylinder body, which is convenient to install inducting switch.
- Bumper is available and it can availably absorb excrement energy.
- Installing accessories with various specifications are optional.

### Ordering code

Model can to be changed Ordering code. Example:

Production type: ACEJ

Magnet: With magnet

Bore size: 100mm

Stroke: 80mm

Adjustable stroke: 50mm

Rod type: Male thread

Mounting type: LB

Thread type: NPT

**Model: ACEJ S-100 × 80-50-B-LB-T**

**Ordering code: ACEJ S A0 0080 050 B LB T**

| Model                 | Magnet                | Bore size  | Stroke     | Adjustable stroke    | Rod type             | Mounting type         | Thread type |
|-----------------------|-----------------------|------------|------------|----------------------|----------------------|-----------------------|-------------|
| Blank: Without magnet | Blank: Without magnet | 12: Φ12mm  | 12: Φ12mm  | Blank: Female thread | Blank: Female thread | Blank: No accessories | P: PT       |
| S: With magnet        | S: With magnet        | 16: Φ16mm  | 16: Φ16mm  | B: Male thread       | B: Male thread       | FA: FA type           | T: NPT      |
|                       |                       | 20: Φ20mm  | 20: Φ20mm  | N: No thread         | N: No thread         | FB: FB type           | G: G        |
|                       |                       | 25: Φ25mm  | 25: Φ25mm  |                      |                      | CA: CA type           |             |
|                       |                       | 32: Φ32mm  | 32: Φ32mm  |                      |                      | CB: CB type           |             |
|                       |                       | 40: Φ40mm  | 40: Φ40mm  |                      |                      | CR: CR type           |             |
|                       |                       | 50: Φ50mm  | 50: Φ50mm  |                      |                      | FTC: FTC type         |             |
|                       |                       | 63: Φ63mm  | 63: Φ63mm  |                      |                      | LB: LB type           |             |
|                       |                       | 80: Φ80mm  | 80: Φ80mm  |                      |                      | SDB: SDB type         |             |
|                       |                       | A0: Φ100mm | A0: Φ100mm |                      |                      |                       |             |
|                       |                       | B0: Φ125mm | B0: Φ125mm |                      |                      |                       |             |

### Specification

| Bore size(mm)      |               | 12                                                                                | 16 | 20 | 25 | 32 | 40   | 50 | 63 | 80 | 100 | 125  |
|--------------------|---------------|-----------------------------------------------------------------------------------|----|----|----|----|------|----|----|----|-----|------|
| Acting type        |               | Double acting                                                                     |    |    |    |    |      |    |    |    |     |      |
|                    |               | Single acting-Push type, Single acting-Pull type                                  |    |    |    |    |      |    |    |    |     |      |
| Fluid              |               | Air(to be filtered by 40 μ m filter element)                                      |    |    |    |    |      |    |    |    |     |      |
| Operating pressure | Double acting | 0.1~1.0MPa(14~145psi)                                                             |    |    |    |    |      |    |    |    |     |      |
|                    | Single acting | 0.2~1.0MPa(28~145psi)                                                             |    |    |    |    |      |    |    |    |     |      |
| Proof pressure     |               | 1.5MPa(215psi)                                                                    |    |    |    |    |      |    |    |    |     |      |
| Temperature °C     |               | -20~80                                                                            |    |    |    |    |      |    |    |    |     |      |
| Speed range mm/s   |               | Double acting: 30~500      Single acting: 50~500                                  |    |    |    |    |      |    |    |    |     |      |
| Stroke tolerance   |               | Stroke ≤ 150 <sup>+1.0</sup> <sub>0</sub> Stroke>150 <sup>+1.4</sup> <sub>0</sub> |    |    |    |    |      |    |    |    |     |      |
| Cushion type       |               | Bumper                                                                            |    |    |    |    |      |    |    |    |     |      |
| Port size ①        |               | M5 × 0.8                                                                          |    |    |    |    | 1/8" |    |    |    |     | 1/4" |

① PT thread, NPT thread and G thread are available. Add) Refer to P403~426 for detail of sensor switch.

### Stroke

| Bore size (mm) | Standard stroke (mm)                               | Max. std stroke | Max. stroke |
|----------------|----------------------------------------------------|-----------------|-------------|
| 12             | Double acting: 5 10 15 20 25 30 40 50              | 50              | 200         |
|                | Single acting: 5 10                                | 10              | -           |
| 16             | Double acting: 5 10 15 20 25 30 40 50              | 50              | 200         |
|                | Single acting: 5 10 15 20 25                       | 25              | -           |
| 20             | Double acting: 5 10 15 20 25 30 40 50 60 75 80 100 | 100             | 200         |
| 25             | Double acting: 5 10 15 20 25                       | 25              | -           |
| 32, 40         | Double acting: 5 10 15 20 25 30 40 50 60 75 80 100 | 100             | 300         |
| 50, 63         | Double acting: 5 10 15 20 25                       | 25              | -           |
| 80             | Double acting: 5 10 15 20 25 30 40 50 60 75 80 100 | 100             | 300         |
| 100            | Double acting: 5 10 15 20 25                       | 25              | -           |
| 125            | Double acting: 5 10 15 20 25 30 40 50 60 75 80 100 | 100             | 300         |

Note) 1. Please contact the company for other special strokes.

2. The dimensions of non-std stroke cylinder has the same dimensions as the next longer stroke std. stroke cylinder. e.g. 23mm stroke cylinder has the same dimensions of 25 std. stroke cylinder.

### Explain of model

| ACE S-20 × 30 -B-□-P                                             |                                    |                      |  |
|------------------------------------------------------------------|------------------------------------|----------------------|--|
| ACED S-20 × 30 -B-□-P                                            |                                    |                      |  |
| ACEJ S-20 × 30-30 -B-□-P                                         |                                    |                      |  |
| <b>Model</b>                                                     |                                    | <b>Thread type</b>   |  |
| ACE: Compact cylinder(Double acting)                             |                                    | P: PT                |  |
| ASE: Compact cylinder(Single acting-push)                        |                                    | T: NPT               |  |
| ATE: Compact cylinder(Single acting-pull)                        |                                    | G: G                 |  |
| ACED: Compact cylinder(Double rod)                               |                                    | <b>Mounting type</b> |  |
| ACEJ: Compact cylinder(Adjustable stroke)                        |                                    |                      |  |
| TACE: Compact cylinder<br>(Double acting non-rotating with yoke) |                                    |                      |  |
| TACED: Compact cylinder<br>(Double rod non-rotating with yoke)   |                                    |                      |  |
| <b>Magnet</b>                                                    |                                    |                      |  |
| Blank: Without magnet                                            |                                    |                      |  |
| S: With magnet                                                   |                                    |                      |  |
| <b>Bore size</b>                                                 |                                    |                      |  |
| Model                                                            | Bore size                          |                      |  |
| ACE                                                              | 12 16 20 25 32 40 50 63 80 100 125 |                      |  |
| ASE/ATE                                                          | 12 16 20 25 32 40 50 63 80 100     |                      |  |
| ACED/ACEJ                                                        | 12 16 20 25 32 40 50 63 80 100 125 |                      |  |
| TACE/TACED                                                       | 12 16 20 25 32 40 50 63 80 100     |                      |  |
| <b>Stroke</b>                                                    |                                    |                      |  |
| Refer to stroke table for details                                |                                    |                      |  |
| <b>Adjustable stroke</b>                                         |                                    |                      |  |
| Model                                                            | Adjustable stroke                  |                      |  |
| ACEJ                                                             | 10: 10mm                           |                      |  |
|                                                                  | 20: 20mm                           |                      |  |
|                                                                  | 30: 30mm                           |                      |  |
|                                                                  | 40: 40mm                           |                      |  |
|                                                                  | 50: 50mm                           |                      |  |
|                                                                  | 75: 75mm                           |                      |  |
|                                                                  | 100: 100mm                         |                      |  |
|                                                                  |                                    | <b>Rod type</b>      |  |
| Model                                                            | Rod type                           |                      |  |
| ACE, ASE, ATE                                                    | Blank: Female threaded             |                      |  |
| ACED, ACEJ                                                       | B: Male threaded                   |                      |  |
|                                                                  | N: No thread                       |                      |  |
| TACE, TACED                                                      | No this code                       |                      |  |

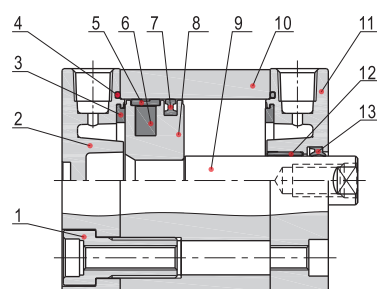
# Compact cylinder

## ACE Series

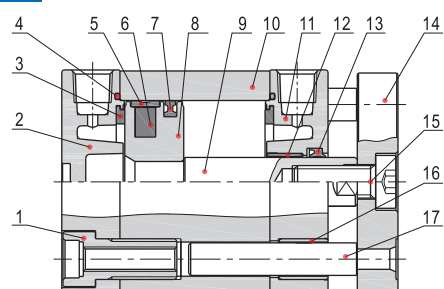
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### Inner structure and material of major parts

#### ACE-S



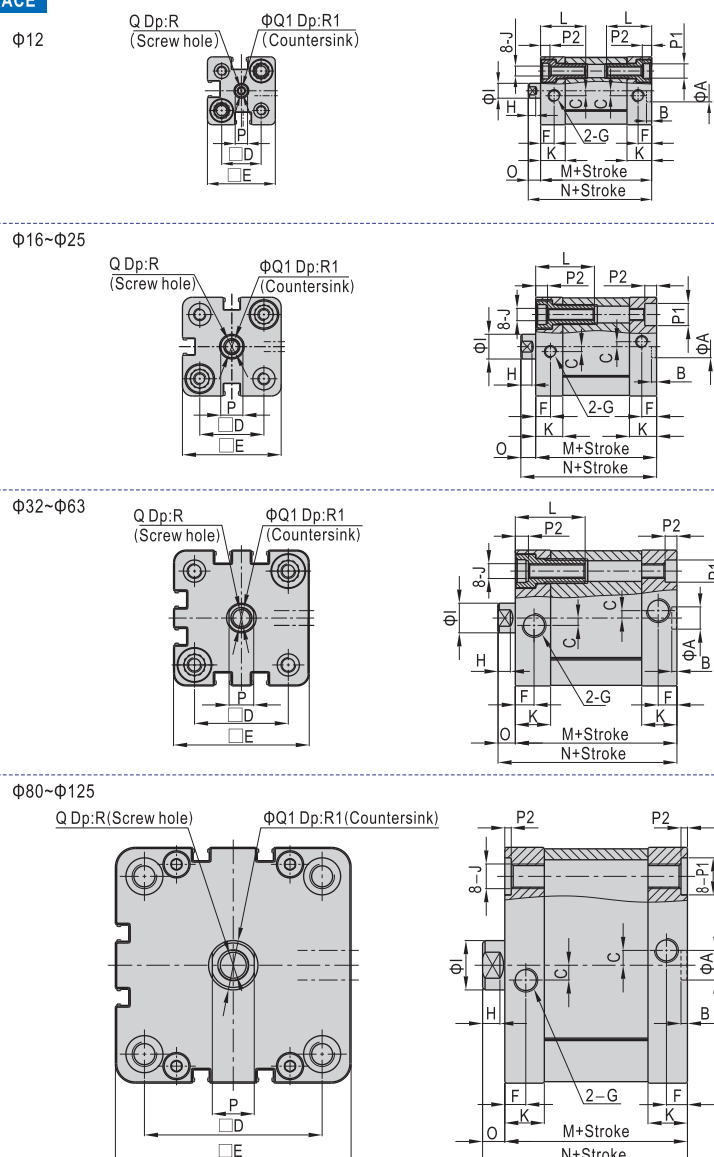
#### TACE-S



| NO. | Item                | Material                                                       |
|-----|---------------------|----------------------------------------------------------------|
| 1   | Screw               | Carbon steel                                                   |
| 2   | Back cover          | Aluminum alloy                                                 |
| 3   | Bumper              | TPU                                                            |
| 4   | O-ring              | NBR                                                            |
| 5   | Wear ring           | No(Φ 12~20)\Wear resistant material(Others)                    |
| 6   | Magnet              | Φ 12~20 Sintered metal(Neodymium-iron-boron)<br>Others Plastic |
| 7   | Piston seal         | NBR                                                            |
| 8   | Piston              | Aluminum alloy                                                 |
| 9   | Piston rod          | Stainless steel(Φ 12~25)\S45C(Others)                          |
| 10  | Body                | Aluminum alloy                                                 |
| 11  | Front cover         | Aluminum alloy                                                 |
| 12  | Bushing             | No(Φ 12~25)\Wear resistant material(Others)                    |
| 13  | Front cover packing | TPU                                                            |
| 14  | Panel               | Aluminum alloy                                                 |
| 15  | Screw               | Carbon steel                                                   |
| 16  | Bushing             | No(Φ 12~25)\Wear resistant material(Others)                    |
| 17  | Guide rod           | Stainless steel(Φ 12~40)\S45C(Others)                          |

### Dimensions

#### ACE



| Bore size\Item | A  | B   | C | D    | E     | F    | G        | H   | I  | J          | K    | L    | M    | N    |
|----------------|----|-----|---|------|-------|------|----------|-----|----|------------|------|------|------|------|
| 12             | 9  | 2.1 | 2 | 16   | 27.5  | 5.5  | M5 × 0.8 | 3   | 6  | M4 × 0.7   | 10   | 18.3 | 35   | 40   |
| 16             | 9  | 2.1 | 2 | 18   | 30    | 5.5  | M5 × 0.8 | 3   | 8  | M4 × 0.7   | 10   | 18.3 | 35   | 40   |
| 20             | 9  | 2.1 | 2 | 22   | 35.5  | 6    | M5 × 0.8 | 4.5 | 10 | M5 × 0.8   | 10.5 | 23.8 | 37   | 43   |
| 25             | 9  | 2.1 | 2 | 26   | 40    | 6    | M5 × 0.8 | 4.5 | 10 | M5 × 0.8   | 11   | 23.8 | 39   | 45   |
| 32             | 9  | 2.1 | 3 | 32.5 | 49.5  | 7.6  | 1/8"     | 5   | 12 | M6 × 1.0   | 14   | 28.3 | 44   | 51   |
| 40             | 9  | 2.1 | 3 | 38   | 55    | 7.6  | 1/8"     | 5   | 12 | M6 × 1.0   | 14.3 | 28.3 | 45.5 | 52.5 |
| 50             | 12 | 2.6 | 3 | 46.5 | 65.5  | 7.6  | 1/8"     | 6   | 16 | M8 × 1.25  | 14.3 | 30.3 | 45.5 | 53.5 |
| 63             | 12 | 2.6 | 4 | 56.5 | 75.5  | 7.6  | 1/8"     | 6   | 16 | M8 × 1.25  | 15   | 30.3 | 49   | 57   |
| 80             | 12 | 2.6 | 6 | 72   | 95.5  | 8.5  | 1/8"     | 7   | 20 | M10 × 1.5  | 16   | —    | 54   | 63   |
| 100            | 12 | 2.6 | 7 | 89   | 113.5 | 10.5 | 1/8"     | 7   | 20 | M10 × 1.5  | 19   | —    | 67   | 76   |
| 125            | 12 | 2.6 | 8 | 110  | 134.5 | 10.5 | 1/4"     | 9   | 25 | M12 × 1.75 | 20   | —    | 81   | 92   |

| Bore size\Item | O  | P  | P1 | P2  | Q          | Q1   | R  | R1  |
|----------------|----|----|----|-----|------------|------|----|-----|
| 12             | 5  | 5  | 6  | 3.5 | M3 × 0.5   | 3.3  | 8  | 1.5 |
| 16             | 5  | 7  | 6  | 3.5 | M4 × 0.7   | 4.5  | 10 | 1.5 |
| 20             | 6  | 9  | 9  | 4.8 | M6 × 1.0   | 6.5  | 14 | 2.6 |
| 25             | 6  | 9  | 9  | 4.8 | M6 × 1.0   | 6.5  | 14 | 2.6 |
| 32             | 7  | 10 | 9  | 4.8 | M8 × 1.25  | 8.5  | 16 | 3.3 |
| 40             | 7  | 10 | 9  | 4.8 | M8 × 1.25  | 8.5  | 16 | 3.3 |
| 50             | 8  | 13 | 11 | 4.8 | M10 × 1.5  | 10.5 | 20 | 4.7 |
| 63             | 8  | 13 | 11 | 4.8 | M10 × 1.5  | 10.5 | 20 | 4.7 |
| 80             | 9  | 17 | 15 | 2.6 | M12 × 1.75 | 12.5 | 20 | 6.1 |
| 100            | 9  | 17 | 15 | 2.6 | M12 × 1.75 | 12.5 | 20 | 6.1 |
| 125            | 11 | 21 | —  | —   | M16 × 1.75 | 16.5 | 25 | 7   |

Remark: The dimensions of magnet type cylinder are the same as non-magnet type cylinder.  
Please refer to page 263 for male thread dimensions.

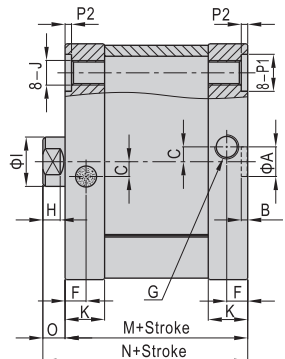
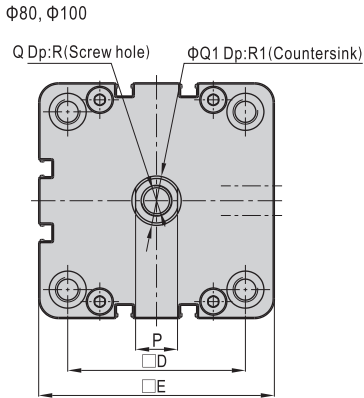
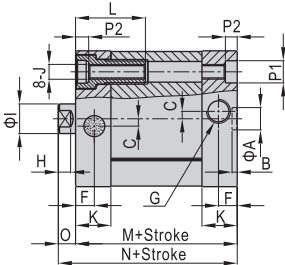
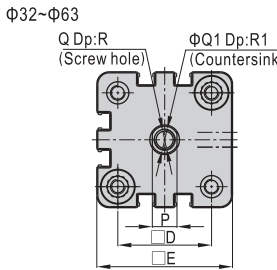
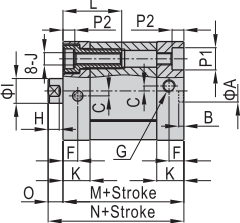
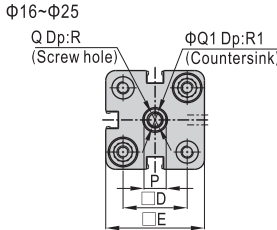
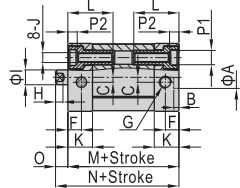
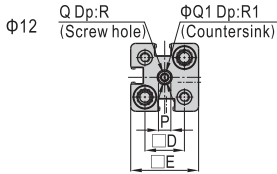


ACE

Compact cylinder  
ACE Series

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ASE

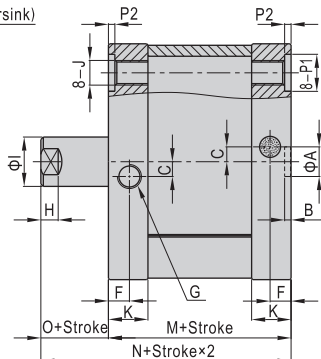
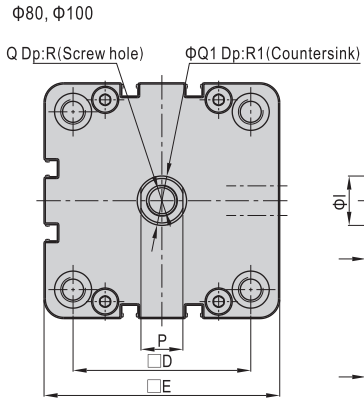
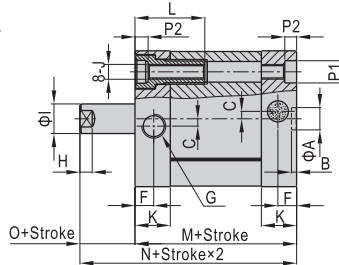
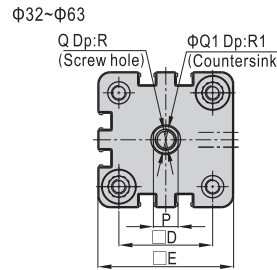
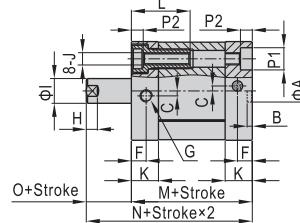
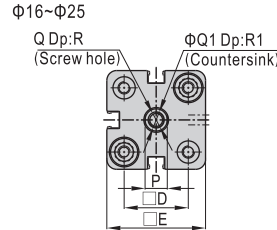
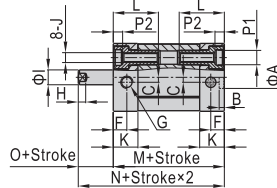
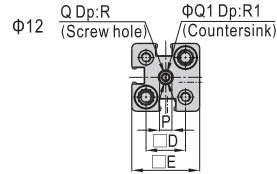


| Bore size\Item | A  | B   | C | D    | E     | F    | G      | H   | I  | J       | K    |
|----------------|----|-----|---|------|-------|------|--------|-----|----|---------|------|
| 12             | 9  | 2.1 | 2 | 16   | 27.5  | 5.5  | M5×0.8 | 3   | 6  | M4×0.7  | 10   |
| 16             | 9  | 2.1 | 2 | 18   | 30    | 5.5  | M5×0.8 | 3   | 8  | M4×0.7  | 10   |
| 20             | 9  | 2.1 | 2 | 22   | 35.5  | 6    | M5×0.8 | 4.5 | 10 | M5×0.8  | 10.5 |
| 25             | 9  | 2.1 | 2 | 26   | 40    | 6    | M5×0.8 | 4.5 | 10 | M5×0.8  | 11   |
| 32             | 9  | 2.1 | 3 | 32.5 | 49.5  | 7.6  | 1/8"   | 5   | 12 | M6×1.0  | 14   |
| 40             | 9  | 2.1 | 3 | 38   | 55    | 7.6  | 1/8"   | 5   | 12 | M6×1.0  | 14.3 |
| 50             | 12 | 2.6 | 3 | 46.5 | 65.5  | 7.6  | 1/8"   | 6   | 16 | M8×1.25 | 14.3 |
| 63             | 12 | 2.6 | 4 | 56.5 | 75.5  | 7.6  | 1/8"   | 6   | 16 | M8×1.25 | 15   |
| 80             | 12 | 2.6 | 6 | 72   | 95.5  | 8.5  | 1/8"   | 7   | 20 | M10×1.5 | 16   |
| 100            | 12 | 2.6 | 7 | 89   | 113.5 | 10.5 | 1/8"   | 7   | 20 | M10×1.5 | 19   |

| Bore size\Item | L    | M    | N    | O | P  | P1 | P2  | Q        | Q1   | R  | R1  |
|----------------|------|------|------|---|----|----|-----|----------|------|----|-----|
| 12             | 18.3 | 35   | 40   | 5 | 5  | 6  | 3.5 | M3×0.5   | 3.3  | 8  | 1.5 |
| 16             | 18.3 | 35   | 40   | 5 | 7  | 6  | 3.5 | M4×0.7   | 4.5  | 10 | 1.5 |
| 20             | 23.8 | 37   | 43   | 6 | 9  | 9  | 4.8 | M6×1.0   | 6.5  | 14 | 2.6 |
| 25             | 23.8 | 39   | 45   | 6 | 9  | 9  | 4.8 | M6×1.0   | 6.5  | 14 | 2.6 |
| 32             | 28.3 | 44   | 51   | 7 | 10 | 9  | 4.8 | M8×1.25  | 8.5  | 16 | 3.3 |
| 40             | 28.3 | 45.5 | 52.5 | 7 | 10 | 9  | 4.8 | M8×1.25  | 8.5  | 16 | 3.3 |
| 50             | 30.3 | 45.5 | 53.5 | 8 | 13 | 11 | 4.8 | M10×1.5  | 10.5 | 20 | 4.7 |
| 63             | 30.3 | 49   | 57   | 8 | 13 | 11 | 4.8 | M10×1.5  | 10.5 | 20 | 4.7 |
| 80             | -    | 54   | 63   | 9 | 17 | 15 | 2.6 | M12×1.75 | 12.5 | 20 | 6.1 |
| 100            | -    | 67   | 76   | 9 | 17 | 15 | 2.6 | M12×1.75 | 12.5 | 20 | 6.1 |

Remark: The dimensions of magnet type cylinder are the same as non-magnet type cylinder. Please refer to page 263 for male thread dimensions.

ATE



| Bore size\Item | A  | B   | C | D    | E     | F    | G      | H   | I  | J       | K    |
|----------------|----|-----|---|------|-------|------|--------|-----|----|---------|------|
| 12             | 9  | 2.1 | 2 | 16   | 27.5  | 5.5  | M5×0.8 | 3   | 6  | M4×0.7  | 10   |
| 16             | 9  | 2.1 | 2 | 18   | 30    | 5.5  | M5×0.8 | 3   | 8  | M4×0.7  | 10   |
| 20             | 9  | 2.1 | 2 | 22   | 35.5  | 6    | M5×0.8 | 4.5 | 10 | M5×0.8  | 10.5 |
| 25             | 9  | 2.1 | 2 | 26   | 40    | 6    | M5×0.8 | 4.5 | 10 | M5×0.8  | 11   |
| 32             | 9  | 2.1 | 3 | 32.5 | 49.5  | 7.6  | 1/8"   | 5   | 12 | M6×1.0  | 14   |
| 40             | 9  | 2.1 | 3 | 38   | 55    | 7.6  | 1/8"   | 5   | 12 | M6×1.0  | 14.3 |
| 50             | 12 | 2.6 | 3 | 46.5 | 65.5  | 7.6  | 1/8"   | 6   | 16 | M8×1.25 | 14.3 |
| 63             | 12 | 2.6 | 4 | 56.5 | 75.5  | 7.6  | 1/8"   | 6   | 16 | M8×1.25 | 15   |
| 80             | 12 | 2.6 | 6 | 72   | 95.5  | 8.5  | 1/8"   | 7   | 20 | M10×1.5 | 16   |
| 100            | 12 | 2.6 | 7 | 89   | 113.5 | 10.5 | 1/8"   | 7   | 20 | M10×1.5 | 19   |

| Bore size\Item | L    | M    | N    | O | P  | P1 | P2  | Q        | Q1   | R  | R1  |
|----------------|------|------|------|---|----|----|-----|----------|------|----|-----|
| 12             | 18.3 | 35   | 40   | 5 | 5  | 6  | 3.5 | M3×0.5   | 3.3  | 8  | 1.5 |
| 16             | 18.3 | 35   | 40   | 5 | 7  | 6  | 3.5 | M4×0.7   | 4.5  | 10 | 1.5 |
| 20             | 23.8 | 37   | 43   | 6 | 9  | 9  | 4.8 | M6×1.0   | 6.5  | 14 | 2.6 |
| 25             | 23.8 | 39   | 45   | 6 | 9  | 9  | 4.8 | M6×1.0   | 6.5  | 14 | 2.6 |
| 32             | 28.3 | 44   | 51   | 7 | 10 | 9  | 4.8 | M8×1.25  | 8.5  | 16 | 3.3 |
| 40             | 28.3 | 45.5 | 52.5 | 7 | 10 | 9  | 4.8 | M8×1.25  | 8.5  | 16 | 3.3 |
| 50             | 30.3 | 45.5 | 53.5 | 8 | 13 | 11 | 4.8 | M10×1.5  | 10.5 | 20 | 4.7 |
| 63             | 30.3 | 49   | 57   | 8 | 13 | 11 | 4.8 | M10×1.5  | 10.5 | 20 | 4.7 |
| 80             | -    | 54   | 63   | 9 | 17 | 15 | 2.6 | M12×1.75 | 12.5 | 20 | 6.1 |
| 100            | -    | 67   | 76   | 9 | 17 | 15 | 2.6 | M12×1.75 | 12.5 | 20 | 6.1 |

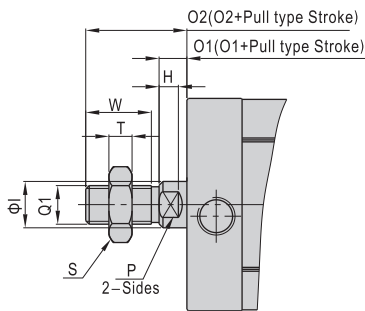
Remark: The dimensions of magnet type cylinder are the same as non-magnet type cylinder. Please refer to page 263 for male thread dimensions.



Compact cylinder  
ACE Series

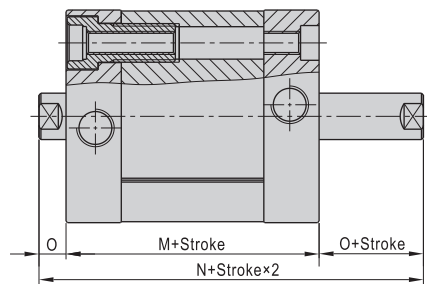


Male thread

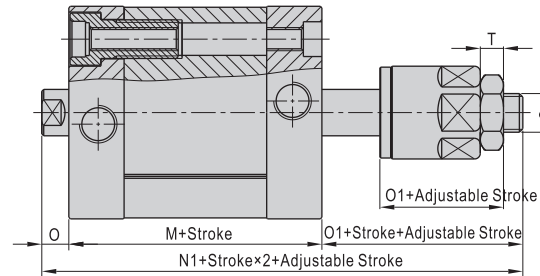


| Bore size\Item | O1 | O2 | W  | S  | T  | Q1         | H   | I  | P  |
|----------------|----|----|----|----|----|------------|-----|----|----|
| 12             | 5  | 15 | 9  | 8  | 4  | M5 × 0.8   | 3   | 6  | 5  |
| 16             | 5  | 17 | 11 | 10 | 5  | M6 × 1.0   | 3   | 8  | 7  |
| 20             | 6  | 22 | 15 | 12 | 6  | M8 × 1.25  | 4.5 | 10 | 9  |
| 25             | 6  | 22 | 15 | 12 | 6  | M8 × 1.25  | 4.5 | 10 | 9  |
| 32             | 7  | 26 | 17 | 17 | 6  | M10 × 1.25 | 5   | 12 | 10 |
| 40             | 7  | 26 | 17 | 17 | 6  | M10 × 1.25 | 5   | 12 | 10 |
| 50             | 8  | 30 | 20 | 17 | 7  | M12 × 1.25 | 6   | 16 | 13 |
| 63             | 8  | 30 | 20 | 17 | 7  | M12 × 1.25 | 6   | 16 | 13 |
| 80             | 9  | 37 | 26 | 23 | 8  | M16 × 1.5  | 7   | 20 | 17 |
| 100            | 9  | 37 | 26 | 23 | 8  | M16 × 1.5  | 7   | 20 | 17 |
| 125            | 11 | 51 | 38 | 26 | 10 | M20 × 1.5  | 9   | 25 | 21 |

ACED



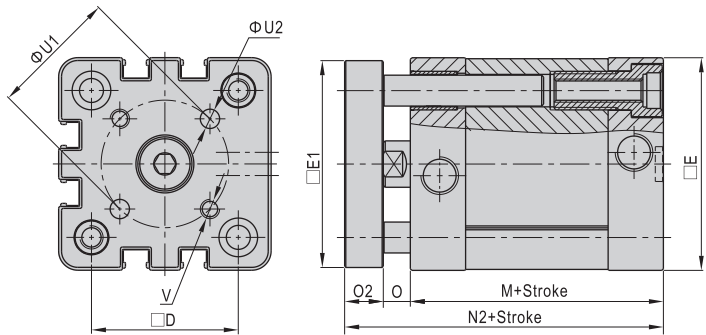
ACEJ



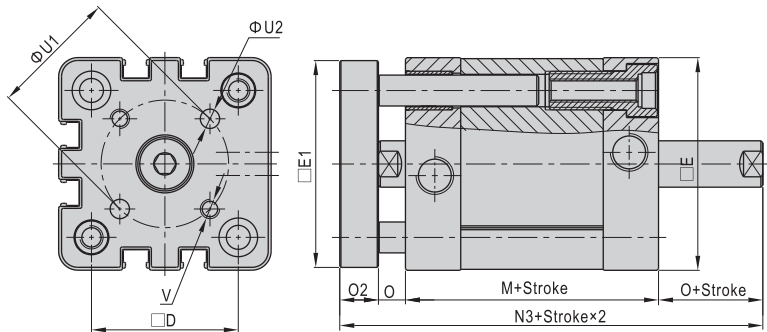
| Bore size\Item | M    | N    | N1    | O  | O1   | T  | Q          |
|----------------|------|------|-------|----|------|----|------------|
| 12             | 35   | 45   | 57    | 5  | 17   | 4  | M5 × 0.8   |
| 16             | 35   | 45   | 61    | 5  | 21   | 5  | M6 × 1.0   |
| 20             | 37   | 49   | 68    | 6  | 25   | 6  | M8 × 1.25  |
| 25             | 39   | 51   | 70    | 6  | 25   | 6  | M8 × 1.25  |
| 32             | 44   | 58   | 78    | 7  | 27   | 6  | M10 × 1.25 |
| 40             | 45.5 | 59.5 | 79.5  | 7  | 27   | 6  | M10 × 1.25 |
| 50             | 45.5 | 61.5 | 81.5  | 8  | 28   | 7  | M12 × 1.25 |
| 63             | 49   | 65   | 85    | 8  | 28   | 7  | M12 × 1.25 |
| 80             | 54   | 72   | 92    | 9  | 29   | 8  | M16 × 1.5  |
| 100            | 67   | 85   | 105   | 9  | 29   | 8  | M16 × 1.5  |
| 125            | 81   | 103  | 127.5 | 11 | 35.5 | 10 | M20 × 1.5  |

Remark:  
1. The unmarked dimension is the same as ACE standard type.  
2. The dimensions of magnet type cylinder are the same as non-magnet type cylinder.

TACE



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| Bore size\Item | D    | E     | E1   | M    | N2   | N3   | O | O2 | U1 | U2 | V         |
|----------------|------|-------|------|------|------|------|---|----|----|----|-----------|
| 12             | 16   | 27.5  | 26.5 | 35   | 46   | 51   | 5 | 6  | 12 | 3  | M3 × 0.5  |
| 16             | 18   | 30    | 29   | 35   | 46   | 51   | 5 | 6  | 14 | 3  | M3 × 0.5  |
| 20             | 22   | 35.5  | 34.5 | 37   | 51   | 57   | 6 | 8  | 17 | 4  | M4 × 0.7  |
| 25             | 26   | 40    | 39   | 39   | 53   | 59   | 6 | 8  | 22 | 5  | M5 × 0.8  |
| 32             | 32.5 | 49.5  | 48   | 44   | 61   | 68   | 7 | 10 | 28 | 5  | M5 × 0.8  |
| 40             | 38   | 55    | 53.5 | 45.5 | 62.5 | 69.5 | 7 | 10 | 33 | 5  | M5 × 0.8  |
| 50             | 46.5 | 65.5  | 64   | 45.5 | 65.5 | 73.5 | 8 | 12 | 42 | 6  | M6 × 1.0  |
| 63             | 56.5 | 75.5  | 74   | 49   | 69   | 77   | 8 | 12 | 50 | 6  | M6 × 1.0  |
| 80             | 72   | 95.5  | 94   | 54   | 77   | 86   | 9 | 14 | 65 | 8  | M8 × 1.25 |
| 100            | 89   | 113.5 | 112  | 67   | 90   | 99   | 9 | 14 | 80 | 10 | M10 × 1.5 |

Remark:  
1. The unmarked dimension is the same as ACE standard type.  
2. The dimensions of magnet type cylinder are the same as non-magnet type cylinder.



ACE

