



PEOPLE SDA Series Compact Cylinder

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SDA compact pneumatic cylinders are manufactured according to Asia standard, with bore size from 12mm to 100mm. The cylinder end covers and piston are CNC machined, and important seals are from Japan, to guarantee the pneumatic cylinder work stably and safely.

Characteristics:

Thin and light

1/2-1/3 length of cylinder design(compare to [standard cylinder](#)), [compact](#) axial length

Easy installation

For mounting style, embedded and panel mount types are available. For rod end form, male thread and female thread are available.

Easy service

service and maintenance.

Magnet switch

There is fixed position outside the [cylinder](#) for magnet installation, easy to setup and adjust the magnet.

*Similar to SMC appearance

*Compact body and light-weighted.

*Suitable slot on the [cylinder](#) barrel to make it easy for magnetic sensor to fit on.

*With self-lubricating bearing, the piston rod is lubrication free.

*Magnet is optional.

Order code for SDA Series Compact Cylinder



Symbol for SDA Series Compact Cylinder



Specifications for SDA Series Compact Cylinder

| (mm) | Bore | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | |
|--------------------------|------|---------------|----|----|----|----|----|---------|----|----|-----|--|
| Action model | | Double Action | | | | | | | | | | |
| Working Fluid | | Air | | | | | | | | | | |
| MPa Working Pressure MPa | | 0.1-0.9 | | | | | | 0.2-0.9 | | | | |
| MPa Proof Working MPa | | 1.35 | | | | | | | | | | |

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|-----------------------------|---------------|---------|-------|--------|--------|
| Working temperature °C | -5~70 | | | | |
| Mm/s Working speed range | Double action | 30-500 | | 30-350 | 30-250 |
| | Signal action | 100-500 | | | |
| Cushion Type | Fixed cushion | | | | |
| Port Size | M5 × 0.8 | 1/8 " | 1/4 " | 3/8 " | |

Stroke for SDA Series Compact Cylinder

| (mm) Bore | 12 16 | 20 | 25 | | 32 40 50 | 63 80 100 |
|------------------|--|----------------------|----------------------|--------------------------|-----------------------|--------------------------|
| Double Action | without magnet 5-60mm 5mm 1 Each | 5-85mm 5mm 1 Each | 5-90mm 5mm 1 Each | 100-110mm 10mm 1 Each | 5-90mm 5mm 1 Each | 100-130mm 10mm 1 Each |
| | with magnet 5-50mm 5mm 1 Each | 5-75mm 5mm 1 Each | 5-90mm 5mm 1 Each | 100mm | 5-90mm 5mm 1 Each | 100-120mm 10mm 1 Each |
| Single Action | without magnet 5-30mm 5mm 1 Each | 5-30mm 5mm 1 Each | 5-30mm 5mm 1 Each | | 5-30mm 15mm 1 Each | - |
| | with magnet 5-30mm 5mm 1 Each | 5-30mm 5mm 1 Each | 5-30mm 5mm 1 Each | | 5-30mm 15mm 1 Each | - |
| Max.stroke | 60mm | 100mm | 120mm | | 130mm | |

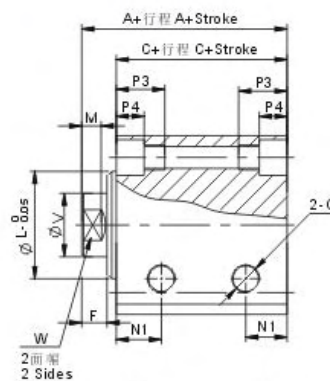
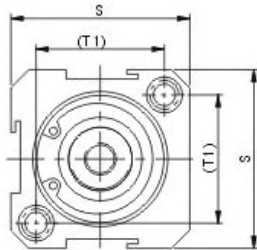
How to order(Example)

Model: SDAS-63X20-B Double action/compact cylinders with magnet Bore: 63mm Stroke:20mm Rod end style

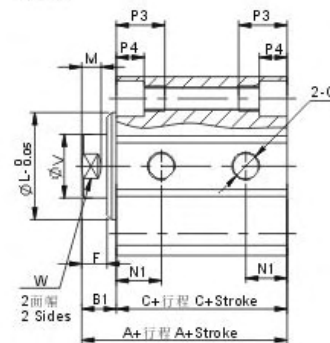
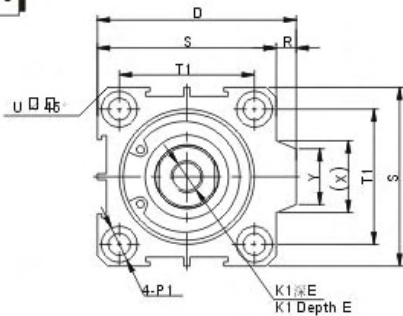
Overall Dimension for SDA Series Compact Cylinder

SDASDAS Series

Φ 12-Φ 16



Φ 20-Φ 100



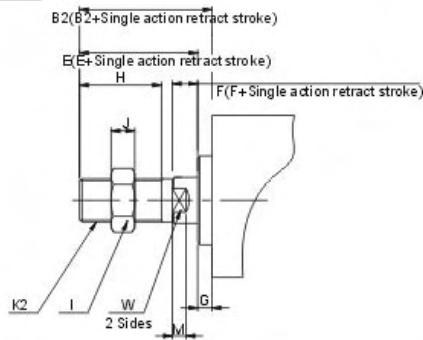
| Type | Standard | | | With magnet | | | | E | | F | G | K1 | L | M | N1 |
|------|----------|-----|------|-------------|-----|------|------|----------------|----------------|---|-----|-----------|------|---|------|
| | A | B1 | C | A | B1 | C | D | ≤10 Stroke ≤10 | >10 Stroke >10 | | | | | | |
| 12 | 22 | 5 | 17 | 32 | 5 | 27 | - | 6 | | 4 | 1 | M3 × 0.5 | 10.2 | 3 | 6.5 |
| 16 | 24 | 5.5 | 18.5 | 34 | 5.5 | 28.5 | - | 6 | | 4 | 1.5 | M3 × 0.5 | 11 | 3 | 7.2 |
| 20 | 25 | 5.5 | 19.5 | 35 | 5.5 | 29.5 | 36 | 8 | | 4 | 1.5 | M4 × 0.7 | 16 | 3 | 7.5 |
| 25 | 27 | 6 | 21 | 37 | 6 | 31 | 42 | 10 | | 4 | 2 | M5 × 0.8 | 17 | 3 | 8 |
| 32 | 31.5 | 7 | 24.5 | 41.5 | 7 | 34.5 | 50 | 12 | | 4 | 3 | M6 × 1 | 22 | 3 | 9 |
| 40 | 33 | 7 | 26 | 43 | 7 | 36 | 58.5 | 12 | | 4 | 3 | M8 × 1.25 | 28 | 3 | 10 |
| 50 | 37 | 9 | 28 | 47 | 9 | 38 | 71.5 | 15 | | 5 | 4 | M10 × 1.5 | 38 | 4 | 10 |
| 63 | 41 | 9 | 32 | 51 | 9 | 42 | 84.5 | 15 | | 5 | 4 | M10 × 1.5 | 40 | 4 | 11.5 |
| 80 | 52 | 11 | 41 | 62 | 11 | 51 | 104 | 15 | 20 | 6 | 5 | M14 × 1.5 | 45 | 4 | 13 |
| 100 | 63 | 12 | 51 | 73 | 12 | 61 | 124 | 18 | 20 | 7 | 5 | M18 × 1.5 | 55 | 4 | 16 |

| Bore | N3 | D | | P1 | | P3 | P4 | R | S | T1 | T2 | U | V | W | X | Y |
|------|-----|----------|--------|------------|--------------|----|-----|-----|----|------|----|------|----|----|------|----|
| | | | | side: □ | M5Hole: □ | | | | | | | | | | | |
| 12 | 6 | M5 × 0.8 | Double | side: □6.5 | M5Hole: □4.2 | 12 | 4.5 | - | 25 | 16.2 | 23 | 1.6 | 6 | 5 | - | - |
| 16 | 6.5 | M5 × 0.8 | Double | side: □6.5 | M5Hole: □4.2 | 12 | 4.5 | - | 29 | 19.8 | 28 | 1.6 | 6 | 5 | - | - |
| 20 | - | M5 × 0.8 | Double | side: □6.5 | M5Hole: □4.2 | 14 | 4.5 | 2 | 34 | 24 | - | 2.1 | 8 | 6 | 11.3 | 10 |
| 25 | - | M5 × 0.8 | Double | side: □8.2 | M6Hole: □4.6 | 15 | 5.5 | 2 | 40 | 28 | - | 3.1 | 10 | 8 | 12 | 10 |
| 32 | - | 1/8 " | Double | side: □8.2 | M6Hole: □4.6 | 16 | 5.5 | 6 | 44 | 34 | - | 2.15 | 12 | 10 | 18.3 | 15 |
| 40 | - | 1/8 " | Double | side: □10 | M8Hole: □6.5 | 20 | 7.5 | 6.5 | 52 | 40 | - | 2.25 | 16 | 14 | 21.3 | 16 |
| 50 | - | 1/4 " | Double | side: □11 | M8Hole: □6.5 | 25 | 8.5 | 9.5 | 62 | 48 | - | 4.15 | 20 | 17 | 30 | 20 |
| 63 | - | 1/4 " | Double | side: □11 | M8Hole: □6.5 | 25 | 8.5 | 9.5 | 75 | 60 | - | 3.15 | 20 | 17 | 28.7 | 20 |

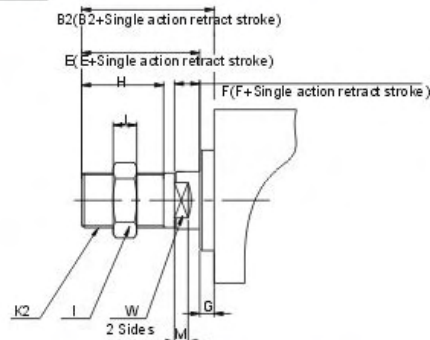
| | | | | | | | | | | | | | | | | |
|-----|---|------|--------|-------------|----------------|----|------|----|-----|----|---|------|----|----|----|----|
| 80 | - | 3/8" | Double | side: □14 | M12Hole: □9.2 | 25 | 10.5 | 10 | 94 | 74 | - | 3.65 | 25 | 22 | 36 | 26 |
| 100 | - | 3/8" | Double | side: □17.5 | M14Hole: □11.3 | 30 | 13 | 10 | 114 | 90 | - | 3.65 | 32 | 27 | 35 | 26 |

Thread Dimension for SDA Series Compact Cylinder

φ12-φ16



φ20-φ100



| Bore | B2 | E | F | G | H | I | J | K2 | L | M | V | W |
|------|------|----|---|-----|----|----|----|------------|------|---|----|----|
| 12 | 17 | 16 | 4 | 1 | 10 | 8 | 4 | M5 × 0.8 | 10.2 | 3 | 6 | 5 |
| 16 | 17.5 | 16 | 4 | 1.5 | 10 | 8 | 4 | M5 × 0.8 | 11 | 3 | 6 | 5 |
| 20 | 20.5 | 19 | 4 | 1.5 | 13 | 10 | 5 | M6 × 1.0 | 16 | 3 | 8 | 6 |
| 25 | 23 | 21 | 4 | 2 | 15 | 12 | 6 | M8 × 1.25 | 17 | 3 | 10 | 8 |
| 32 | 25 | 22 | 4 | 3 | 15 | 17 | 6 | M10 × 1.25 | 22 | 3 | 12 | 10 |
| 40 | 35 | 32 | 4 | 3 | 25 | 19 | 8 | M14 × 1.5 | 28 | 3 | 16 | 14 |
| 50 | 37 | 33 | 5 | 4 | 25 | 27 | 11 | M18 × 1.5 | 38 | 4 | 20 | 17 |
| 63 | 37 | 33 | 5 | 4 | 25 | 27 | 11 | M18 × 1.5 | 40 | 4 | 20 | 17 |
| 80 | 44 | 39 | 6 | 5 | 30 | 32 | 13 | M22 × 1.5 | 45 | 4 | 25 | 22 |
| 100 | 50 | 45 | 7 | 5 | 35 | 36 | 13 | M26 × 1.5 | 55 | 4 | 32 | 27 |

Compact cylinder features:

SQ series are with similar SMC appearance, and SDA series are popular in Asia market.

Compact body and light-weighted.

Suitable slot on the cylinder barrel to make it easy for magnetic sensor to fit on.

With self-lubricating bearing, the piston rod is lubrication free.

Magnet is optional.

Keywords: pneumatic cylinder;compact cylinder;SDA cylinder;Thin type cylinder;standard cylinder

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