

Series CP95

ISO/VDMA Air Cylinders

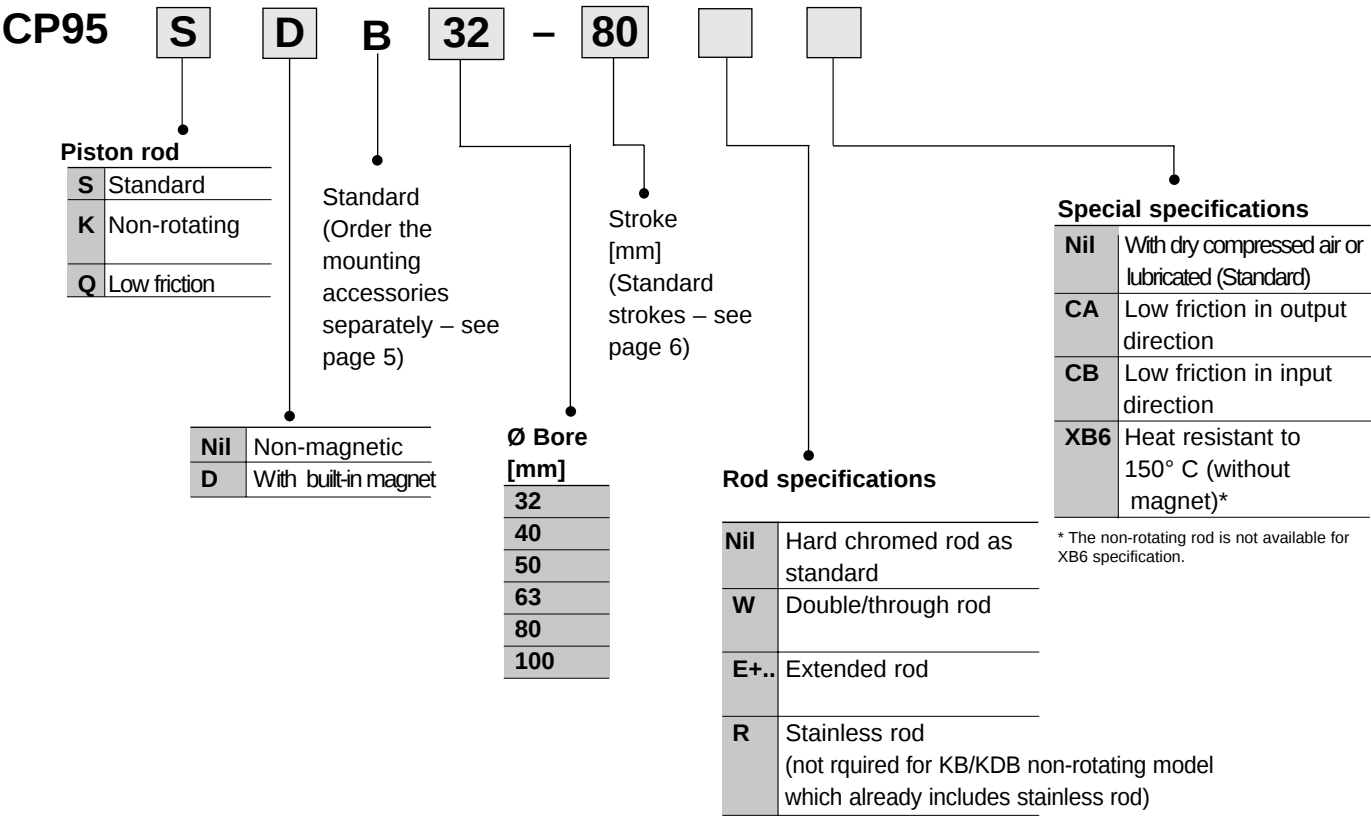
Specifications

| Type          |                  | Model     | Bore |    |    |    |    |     | Stroke end cushioning | Rod specifications         |   |   |   | Upon receipt of order |
|---------------|------------------|-----------|------|----|----|----|----|-----|-----------------------|----------------------------|---|---|---|-----------------------|
|               |                  |           | 32   | 40 | 50 | 63 | 80 | 100 |                       | Standard type hard chromed | W | E | R | XB6                   |
| Double acting | Standard         | CP95SB    | •    | •  | •  | •  | •  | •   | •                     | •                          | • | • | • | •                     |
|               |                  | CP95SDB   | •    | •  | •  | •  | •  | •   | •                     | •                          | • | • | • | —                     |
|               | Double rod       | CP95SB•W  | •    | •  | •  | •  | •  | •   | •                     | •                          | — | • | • | •                     |
|               |                  | CP95SDB•W | •    | •  | •  | •  | •  | •   | •                     | •                          | — | • | • | —                     |
|               | Non-rotating rod | CP95KB    | •    | •  | •  | •  | •  | •   | •                     | —                          | • | • | • | —                     |
|               |                  | CP95KDB   | •    | •  | •  | •  | •  | •   | •                     | —                          | • | • | • | —                     |

W = double/through rod  
E = extended rod  
R = stainless rod  
XB6= heat resistant (to 150° C)

• available  
— not available

How to order: Cylinders



How to order: Accessories

|                                    |                                | Page  |
|------------------------------------|--------------------------------|-------|
| Mounting accessories               | Cylinder .....                 | 5     |
|                                    | Rod .....                      | 5     |
| Switches and switch holders .....  |                                | 19-22 |
| Snap-on switch groove covers ..... |                                | 22    |
| Seal kits                          | standard models.....           | 8     |
|                                    | 1.8-4 non-rotating models..... | 14    |

## ISO/VDMA Air Cylinder

# Series CP95 VDMA

Double acting with end of stroke cushioning Ø32 - Ø100

- Conforms to VDMA 24 562 (parts 1 and 2), ISO 6431 and CETOP standards

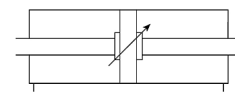
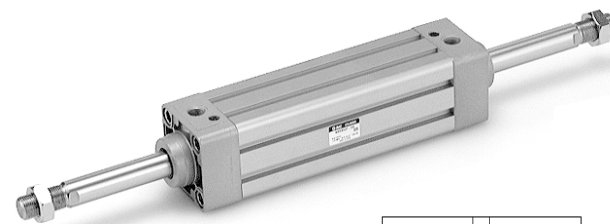
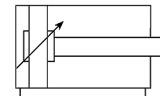
- Combines lightweight profile barrel design with enclosed tie rods for extra strength

- Unique seal system ensures efficient performance and long life

- Fully adjustable cushioning at end of stroke

- Magnetic proximity sensing

- Superior cushioning performance and kinetic energy absorption



### Technical specifications

| Bore [mm]                            | 32                                                                        | 40       | 50      | 63      | 80      | 100     |
|--------------------------------------|---------------------------------------------------------------------------|----------|---------|---------|---------|---------|
| Type                                 | Non-lube type                                                             |          |         |         |         |         |
| Action                               | Double acting single rod                                                  |          |         |         |         |         |
| Fluid                                | Compressed air filtered to <10 µm, lubricated or non lubricated (dry air) |          |         |         |         |         |
| Proof pressure                       | 1.5MPa {15.3kgf/cm <sup>2</sup> }                                         |          |         |         |         |         |
| Maximum operating pressure           | 1.0MPa {10.2kgf/cm <sup>2</sup> }                                         |          |         |         |         |         |
| Minimum operating pressure           | 0.05MPa {0.5kgf/cm <sup>2</sup> }                                         |          |         |         |         |         |
| Piston force                         | Up to 7500N                                                               |          |         |         |         |         |
| Piston rod                           | Hard chromed steel (25µm finish)                                          |          |         |         |         |         |
| Lubrication                          | Not required (non-lube)                                                   |          |         |         |         |         |
| Rod diameter [mm]                    | 12                                                                        | 16       | 20      | 20      | 25      | 30      |
| Piston rod thread                    | M10x1.25                                                                  | M12x1.25 | M16x1.5 | M16x1.5 | M20x1.5 | M20x1.5 |
| Ports                                | G1/8                                                                      | G1/4     | G1/4    | G3/8    | G3/8    | G1/2    |
| Cushioning stroke [mm]               | 19                                                                        | 19       | 24      | 24      | 30      | 30      |
| Mounting position                    | Any                                                                       |          |         |         |         |         |
| Standard strokes (DIN ISO 4393) [mm] | 25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600, 700, 800         |          |         |         |         |         |
| Stroke tolerance [mm]                | Other stroke lengths in accordance with ISO497 R 10                       |          |         |         |         |         |
| Working pressure [MPa]               | <250mm: + 1.0/-0mm, <1000mm: + 1.4/-0mm, <1500mm: + 1.8/-0mm              |          |         |         |         |         |
| Fluid and ambient temperature [°C]   | 0.05 - 1.0                                                                |          |         |         |         |         |
| Piston speed [mm/s]                  | -10°C to +60°C, -10°C to +70°C without magnet                             |          |         |         |         |         |
|                                      | 50 - 1000                                                                 |          |         |         |         |         |

### Standard strokes

| Ø Bore | Standard stroke                                                        | Max. stroke |
|--------|------------------------------------------------------------------------|-------------|
| 32     | 25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 450, 500                | 700         |
| 40     | 25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 450, 500                | 800         |
| 50     | 25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 450, 500, 600           | 1200        |
| 63     | 25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 450, 500, 600           | 1200        |
| 80     | 25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 450, 500, 600, 700, 800 | 1400        |
| 100    | 25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 450, 500, 600, 700, 800 | 1500        |

Note: Intermediate strokes are also available