# DA Series Shock Absorber



## Features

1. Hydraulic self compensation.
2. Adjustable cushion.
3. Double cushion type.
4. Simple installation.

## Installation cautions

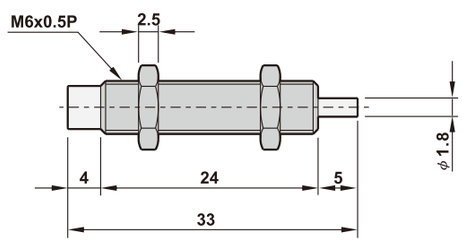
1. Stop at 1mm before effective stoke.
2. Avoid any painting or damage on rod.
3. Strike angle on the collision head should be at right 90°, or less than 2° difference.
4. Please pay attention for the hardness of mounting plate to stand the strike.

## How to order

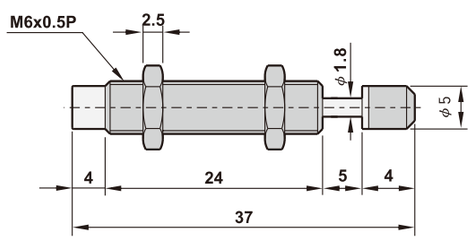
| DA | 25 | 25 – H | | NC | P |
|---|---|---|---|---|---|
| Shock absorber | Tube O.D. | Stroke | Impact speed | Cap | Positioning screw |
| DA : Self compen-sation type<br>DAD : Double cushion type<br>CA : Adjustable type | | | H : High impact speed<br>N : Medium impact speed<br>L : Low impact speed<br>*Available for DA, DAD only | Blank : W/I cap<br>NC : W/O cap | Blank : W/O positioning screw<br>P : W/I positioning screw |

## Dimensions

### DA0605-NC




### DA0605

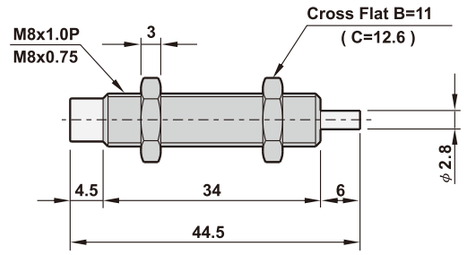



| Model no. | Stroke mm | Max. Nm per cycle Nm | Effective weight We(Kg) | Max impact speed m/s | Max. Nm per hour Nm | Operating temperature ℃ |
|---|---|---|---|---|---|---|
| DA0605-H | 5 | 0.9 | 0.6~2.8 | 1.8 | 1920 | -10~70 |
| DA0605-N | 5 | 0.9 | 1.25~3.7 | 1.2 | 1920 | -10~70 |

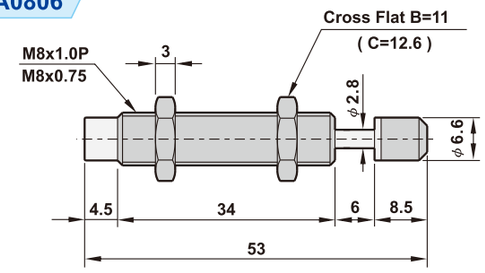


## Dimensions

### DA0806-NC

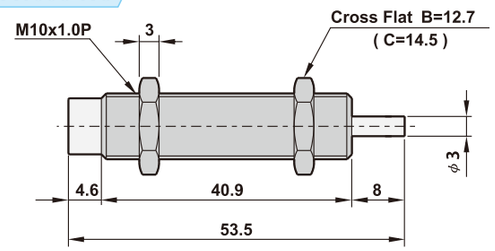



### DA0806

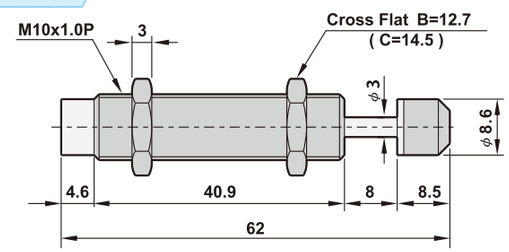



| Model no. | Stroke mm | Max. Nm per cycle Nm | Effective weight We(Kg) | Max impact speed m/s | Max. Nm per hour Nm | Operating temperature ℃ |
|---|---|---|---|---|---|---|
| DA0806-H | 6 | 1.8 | 0.9~5.6 | 2 | 4320 | -10~70 |
| DA0806-N | 6 | 1.8 | 2.5~10 | 1.2 | 4320 | -10~70 |
| DA0806-L | 6 | 1.8 | 5.6~22.5 | 0.8 | 4320 | -10~70 |

### DA1008-NC

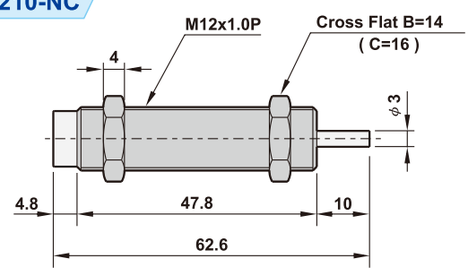



### DA1008

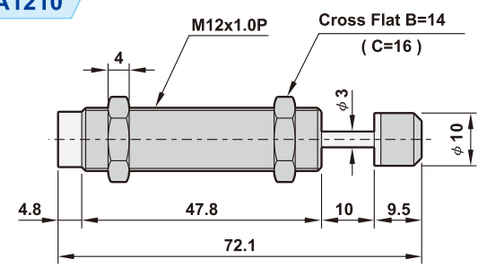



| Model no. | Stroke mm | Max. Nm per cycle Nm | Effective weight We(Kg) | Max impact speed m/s | Max. Nm per hour Nm | Operating temperature ℃ |
|---|---|---|---|---|---|---|
| DA1008-H | 8 | 3.2 | 0.9~10 | 2.6 | 7680 | -10~70 |
| DA1008-N | 8 | 3.2 | 2.8~17.8 | 1.5 | 7680 | -10~70 |
| DA1008-L | 8 | 3.2 | 10~40 | 0.8 | 7680 | -10~70 |

### DA1210-NC



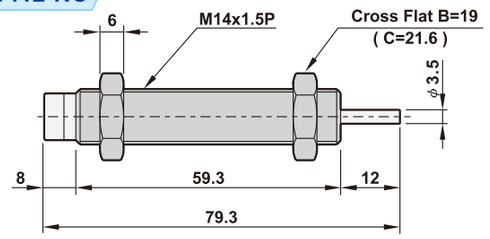

### DA1210



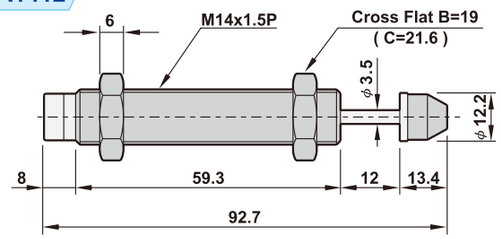

| Model no. | Stroke mm | Max. Nm per cycle Nm | Effective weight We(Kg) | Max impact speed m/s | Max. Nm per hour Nm | Operating temperature ℃ |
|---|---|---|---|---|---|---|
| DA1210-H | 10 | 6 | 1.8~18.8 | 2.6 | 14400 | -10~70 |
| DA1210-N | 10 | 6 | 5.3~33 | 1.5 | 14400 | -10~70 |
| DA1210-L | 10 | 6 | 12~75 | 0.8 | 14400 | -10~70 |

## Dimensions

### DA1412-NC

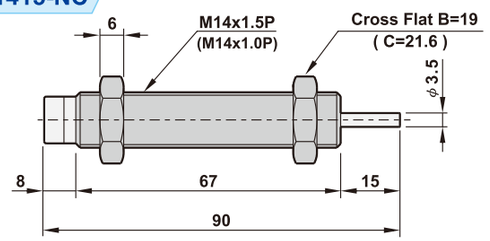



### DA1412

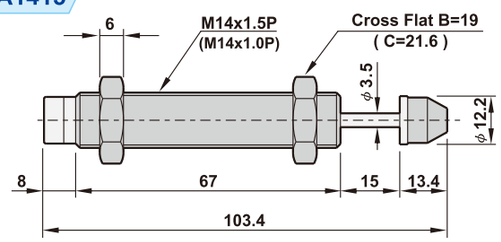



| Model no. | Stroke mm | Max. Nm per cycle Nm | Effective weight We(Kg) | Max impact speed m/s | Max. Nm per hour Nm | Operating temperature ℃ |
|---|---|---|---|---|---|---|
| DA1412-H | 12 | 16 | 4.7~32 | 2.6 | 28800 | -10~70 |
| DA1412-N | 12 | 16 | 14~65 | 1.5 | 28800 | -10~70 |
| DA1412-L | 12 | 16 | 56~200 | 0.8 | 28800 | -10~70 |

### DA1415-NC

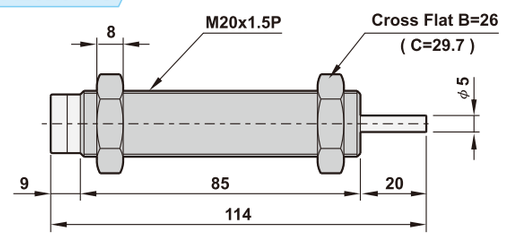



### DA1415

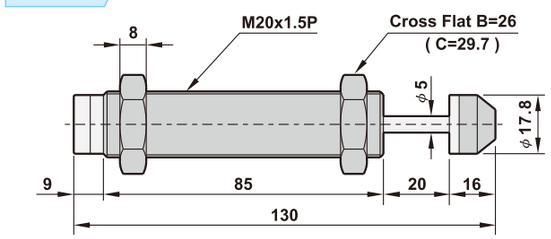



| Model no. | Stroke mm | Max. Nm per cycle Nm | Effective weight We(Kg) | Max impact speed m/s | Max. Nm per hour Nm | Operating temperature ℃ |
|---|---|---|---|---|---|---|
| DA1415-H | 15 | 20 | 5.9~40 | 2.6 | 36000 | -10~70 |
| DA1415-N | 15 | 20 | 17.8~81.6 | 1.5 | 36000 | -10~70 |
| DA1415-L | 15 | 20 | 62.5~250 | 0.8 | 36000 | -10~70 |

### DA2020-NC




### DA2020

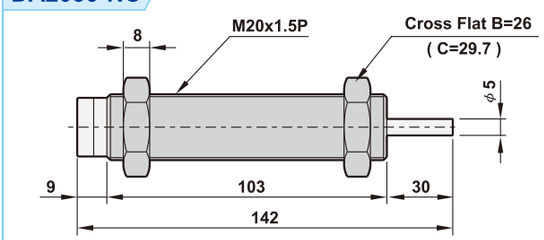



| Model no. | Stroke mm | Max. Nm per cycle Nm | Effective weight We(Kg) | Max impact speed m/s | Max. Nm per hour Nm | Operating temperature ℃ |
|---|---|---|---|---|---|---|
| DA2020-H | 20 | 35 | 6.8~27 | 3.2 | 42000 | -10~70 |
| DA2020-N | 20 | 35 | 17.5~70 | 2 | 42000 | -10~70 |
| DA2020-L | 20 | 35 | 48.6~777 | 1 | 42000 | -10~70 |

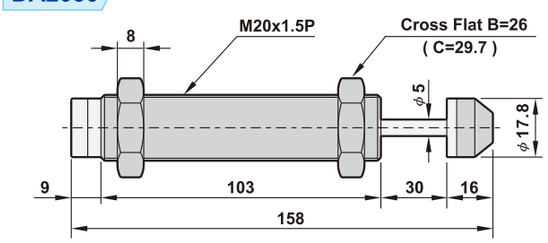


## Dimensions

### DA2030-NC

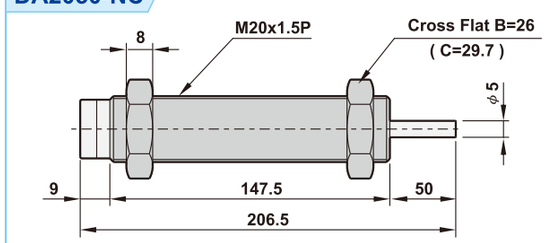



### DA2030

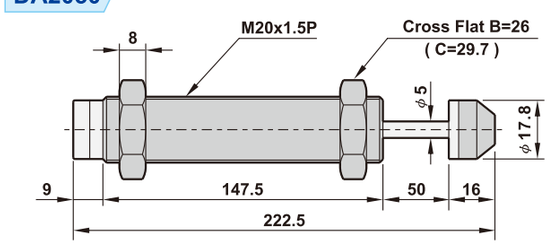



| Model no. | Stroke mm | Max. Nm per cycle Nm | Effective weight We(Kg) | Max impact speed m/s | Max. Nm per hour Nm | Operating temperature ℃ |
|---|---|---|---|---|---|---|
| DA2030-H | 30 | 46 | 9~36 | 3.2 | 55200 | -10~70 |
| DA2030-N | 30 | 46 | 23~92 | 2 | 55200 | -10~70 |
| DA2030-L | 30 | 46 | 64~575 | 1.2 | 55200 | -10~70 |

### DA2050-NC

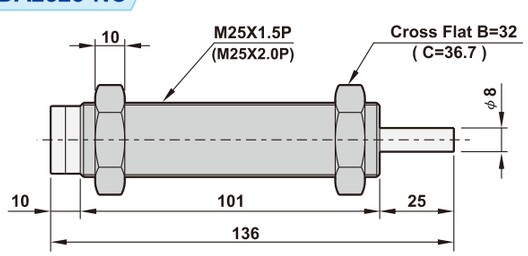



### DA2050

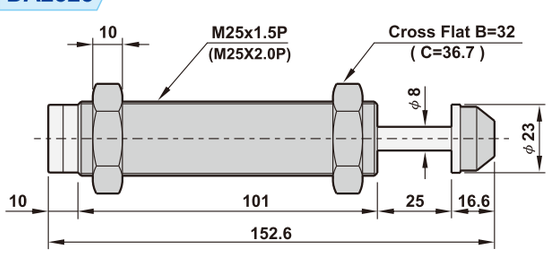



| Model no. | Stroke mm | Max. Nm per cycle Nm | Effective weight We(Kg) | Max impact speed m/s | Max. Nm per hour Nm | Operating temperature ℃ |
|---|---|---|---|---|---|---|
| DA2050-H | 50 | 62 | 10.1~124 | 3.5 | 63240 | -10~70 |
| DA2050-N | 50 | 62 | 18.3~253 | 2.6 | 63240 | -10~70 |
| DA2050-L | 50 | 62 | 55~496 | 1.5 | 63240 | -10~70 |

### DA2525-NC



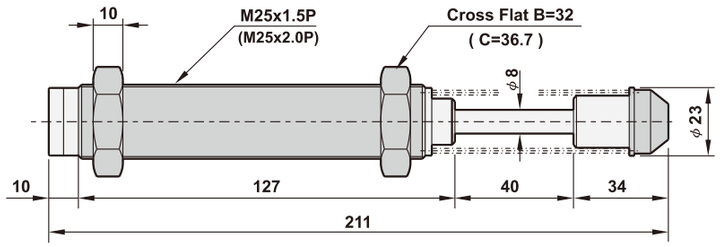

### DA2525




| Model no. | Stroke mm | Max. Nm per cycle Nm | Effective weight We(Kg) | Max impact speed m/s | Max. Nm per hour Nm | Operating temperature ℃ |
|---|---|---|---|---|---|---|
| DA2525-H | 25 | 78 | 15~69 | 3.2 | 70200 | -10~70 |
| DA2525-N | 25 | 78 | 39~433 | 2 | 70200 | -10~70 |
| DA2525-L | 25 | 78 | 108~1733 | 1.2 | 70200 | -10~70 |

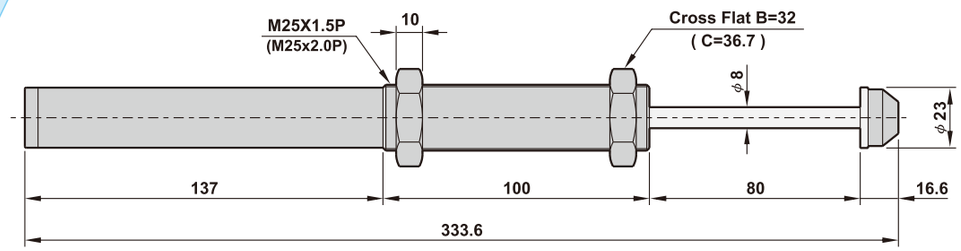
## Dimensions

### DA2540



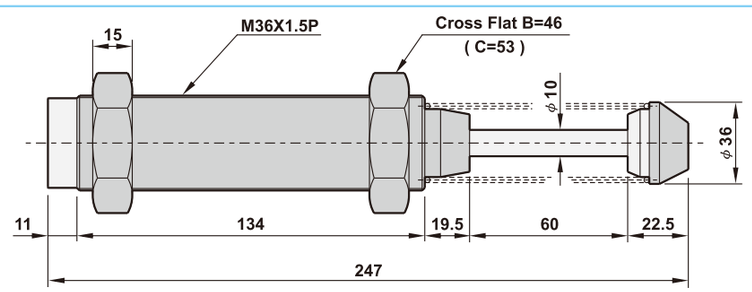

| Model no. | Stroke mm | Max. Nm per cycle Nm | Effective weight We(Kg) | Max impact speed m/s | Max. Nm per hour Nm | Operating temperature ℃ |
|---|---|---|---|---|---|---|
| DA2540-H | 40 | 122 | 20~108 | 3.5 | 87840 | -10~70 |
| DA2540-N | 40 | 122 | 50~381 | 2.2 | 87840 | -10~70 |
| DA2540-L | 40 | 122 | 244~1991 | 1 | 87840 | -10~70 |

### DA2580




| Model no. | Stroke mm | Max. Nm per cycle Nm | Effective weight We(Kg) | Max impact speed m/s | Max. Nm per hour Nm | Operating temperature ℃ |
|---|---|---|---|---|---|---|
| DA2580-H | 80 | 198 | 24.7~99 | 4 | 118800 | -10~70 |
| DA2580-N | 80 | 198 | 44~396 | 3 | 118800 | -10~70 |
| DA2580-L | 80 | 198 | 176~1584 | 1.5 | 118800 | -10~70 |

### DA3660

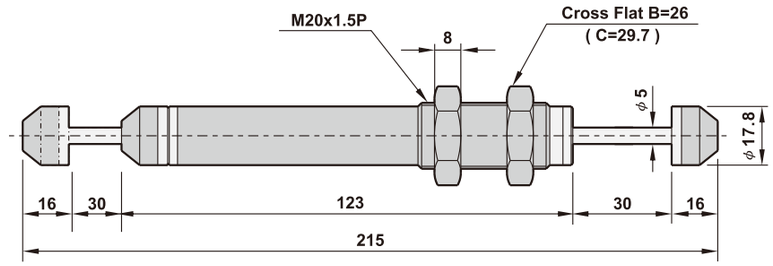



| Model no. | Stroke mm | Max. Nm per cycle Nm | Effective weight We(Kg) | Max impact speed m/s | Max. Nm per hour Nm | Operating temperature ℃ |
|---|---|---|---|---|---|---|
| DA3660-H | 60 | 260 | 57~231 | 3 | 124800 | -10~70 |
| DA3660-N | 60 | 260 | 130~813 | 2 | 124800 | -10~70 |
| DA3660-L | 60 | 260 | 520~3520 | 1 | 124800 | -10~70 |



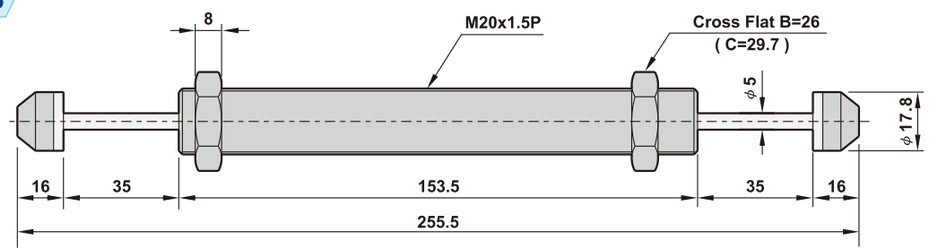
## Dimensions

### DAD2030



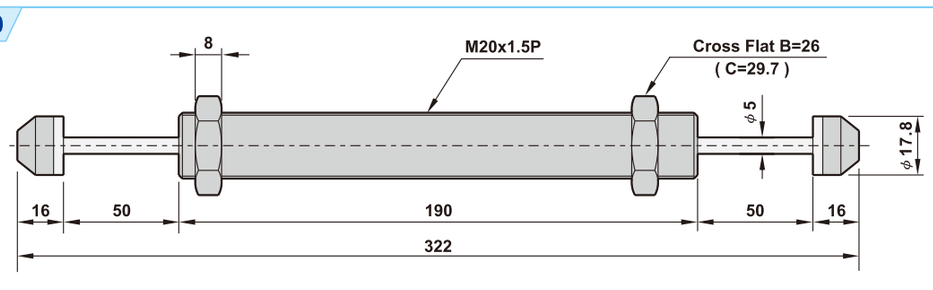

| Model no. | Stroke mm | Max. Nm per cycle Nm | Effective weight We(Kg) | Max impact speed m/s | Max. Nm per hour Nm | Operating temperature ℃ |
|---|---|---|---|---|---|---|
| DAD2030-H | 30 | 46 | 9~41 | 3.2 | 55200 | -10~70 |
| DAD2030-N | 30 | 46 | 23~144 | 2 | 55200 | -10~70 |
| DAD2030-L | 30 | 46 | 64~575 | 1.2 | 55200 | -10~70 |

### DAD2035




| Model no. | Stroke mm | Max. Nm per cycle Nm | Effective weight We(Kg) | Max impact speed m/s | Max. Nm per hour Nm | Operating temperature ℃ |
|---|---|---|---|---|---|---|
| DAD2035-H | 35 | 52 | 10~46 | 3.2 | 62400 | -10~70 |
| DAD2035-N | 35 | 52 | 26~162 | 2 | 62400 | -10~70 |
| DAD2035-L | 35 | 52 | 72~650 | 1.2 | 62400 | -10~70 |

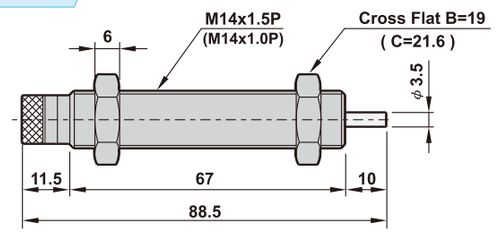
### DAD2050



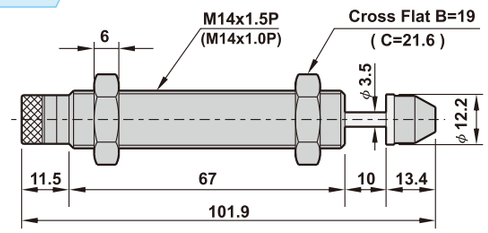

| Model no. | Stroke mm | Max. Nm per cycle Nm | Effective weight We(Kg) | Max impact speed m/s | Max. Nm per hour Nm | Operating temperature ℃ |
|---|---|---|---|---|---|---|
| DAD2050-H | 50 | 62 | 10.1~124 | 3 | 63240 | -10~70 |
| DAD2050-N | 50 | 62 | 18.3~253 | 2.6 | 63240 | -10~70 |
| DAD2050-L | 50 | 62 | 55~496 | 1.5 | 63240 | -10~70 |

## Dimensions

### CA1410-NC

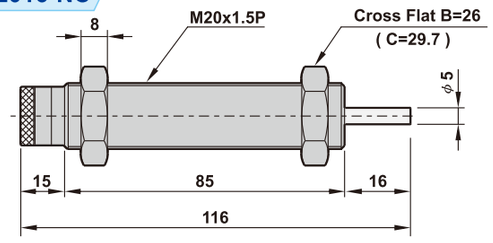



### CA1410

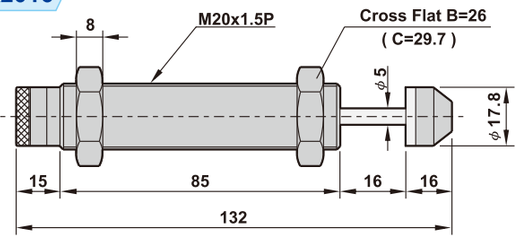



| Model no. | Stroke mm | Max. Nm per cycle Nm | Effective weight We(Kg) | Max impact speed m/s | Max. Nm per hour Nm | Operating temperature ℃ |
|---|---|---|---|---|---|---|
| CA1410 | 10 | 15 | 2.9~120 | 3.2 | 27000 | -10~70 |

### CA2016-NC

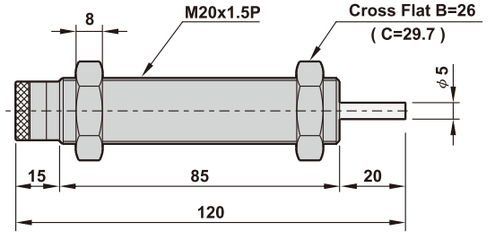



### CA2016

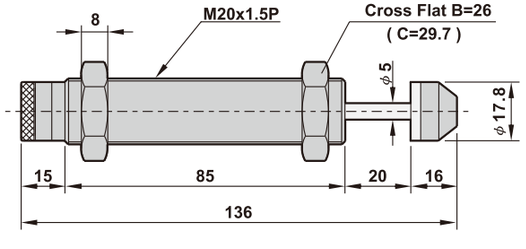



| Model no. | Stroke mm | Max. Nm per cycle Nm | Effective weight We(Kg) | Max impact speed m/s | Max. Nm per hour Nm | Operating temperature ℃ |
|---|---|---|---|---|---|---|
| CA2016 | 16 | 28 | 5.4~224 | 3.2 | 33600 | -10~70 |

### CA2020-NC




### CA2020

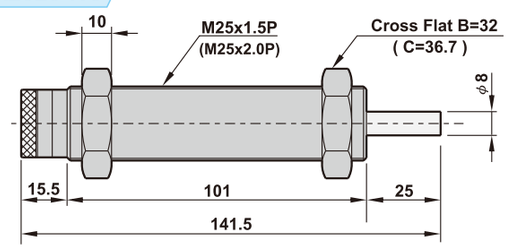



| Model no. | Stroke mm | Max. Nm per cycle Nm | Effective weight We(Kg) | Max impact speed m/s | Max. Nm per hour Nm | Operating temperature ℃ |
|---|---|---|---|---|---|---|
| CA2020 | 20 | 35 | 6.8~280 | 3.2 | 42000 | -10~70 |

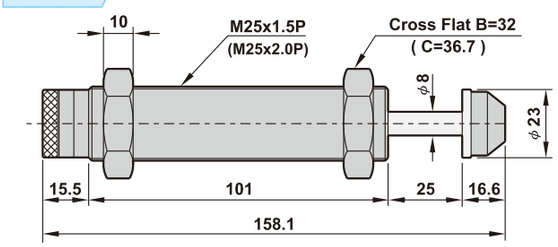


## Dimensions

### CA2525-NC

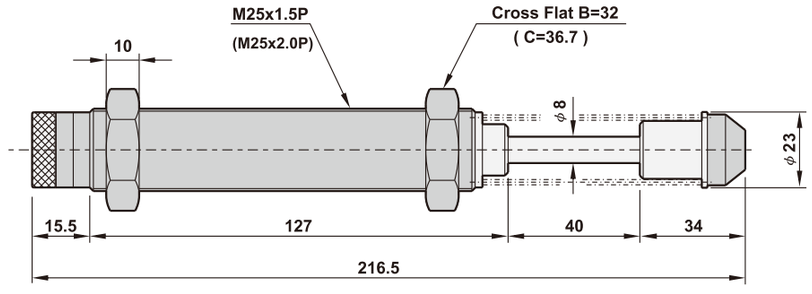



### CA2525



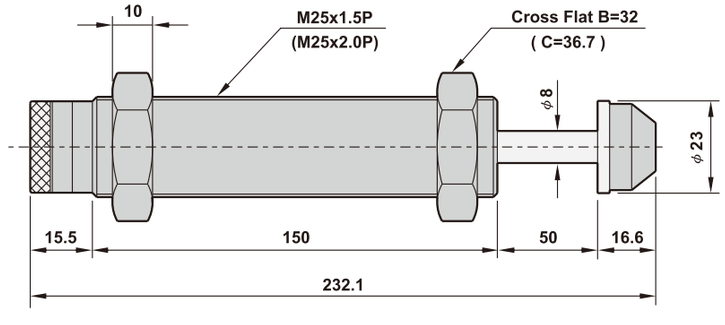

| Model no. | Stroke mm | Max. Nm per cycle Nm | Effective weight We(Kg) | Max impact speed m/s | Max. Nm per hour Nm | Operating temperature ℃ |
|---|---|---|---|---|---|---|
| CA2525 | 25 | 78 | 15~624 | 3.2 | 70200 | -10~70 |

### CA2540




| Model no. | Stroke mm | Max. Nm per cycle Nm | Effective weight We(Kg) | Max impact speed m/s | Max. Nm per hour Nm | Operating temperature ℃ |
|---|---|---|---|---|---|---|
| CA2540 | 40 | 122 | 23.8~976 | 3.2 | 87840 | -10~70 |

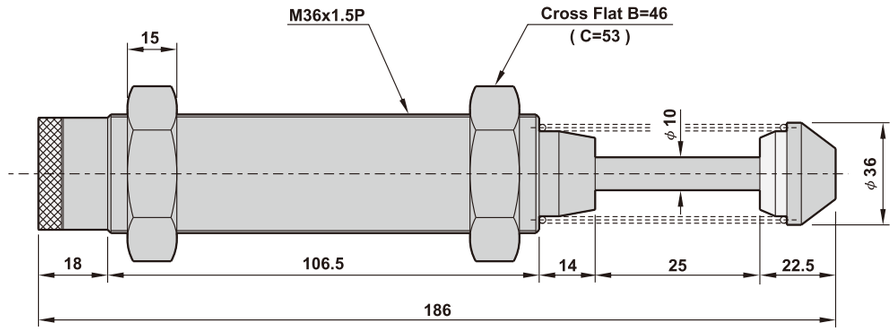
### CA2550




| Model no. | Stroke mm | Max. Nm per cycle Nm | Effective weight We(Kg) | Max impact speed m/s | Max. Nm per hour Nm | Operating temperature ℃ |
|---|---|---|---|---|---|---|
| CA2550 | 50 | 140 | 27~1120 | 3.2 | 100800 | -10~70 |

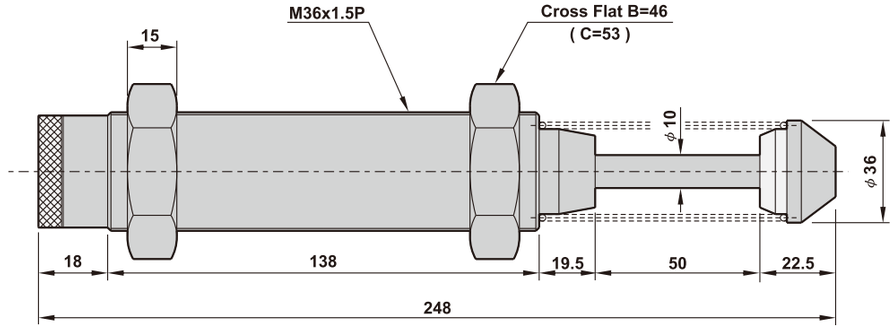
## Dimensions

### CA3625




| Model no. | Stroke mm | Max. Nm per cycle Nm | Effective weight We(Kg) | Max impact speed m/s | Max. Nm per hour Nm | Operating temperature ℃ |
|---|---|---|---|---|---|---|
| CA3625 | 25 | 110 | 21~880 | 3.2 | 52800 | -10~70 |

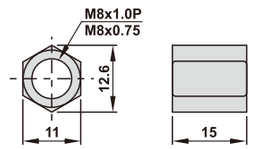
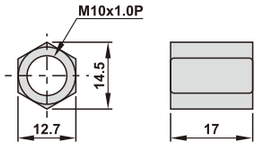
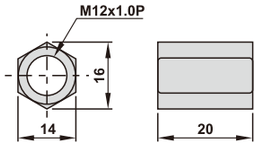
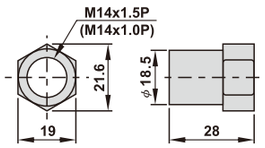
### CA3650

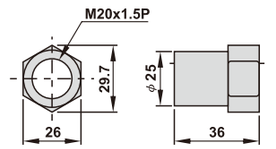
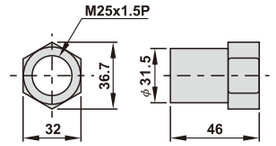
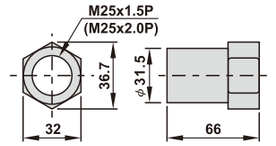
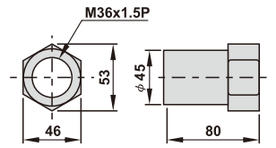



| Model no. | Stroke mm | Max. Nm per cycle Nm | Effective weight We(Kg) | Max impact speed m/s | Max. Nm per hour Nm | Operating temperature ℃ |
|---|---|---|---|---|---|---|
| CA3650 | 50 | 220 | 43~1760 | 3.2 | 105600 | -10~70 |

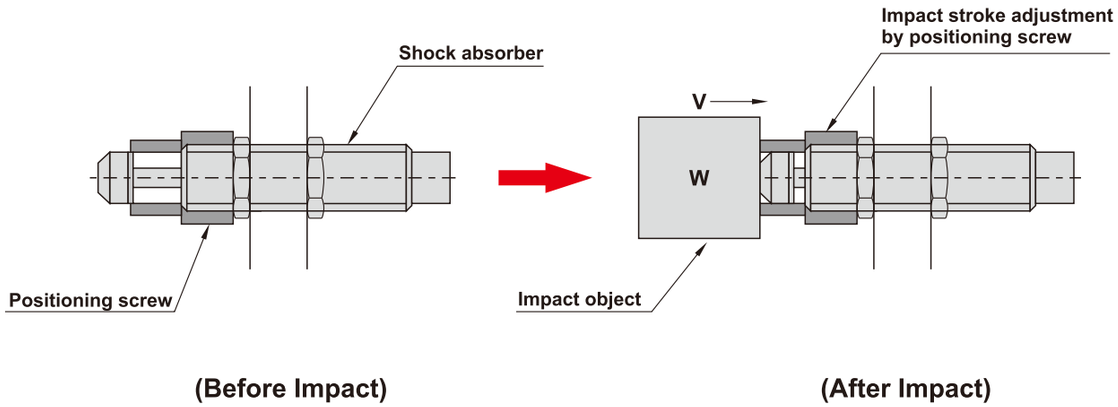


## Positioning screw-optional accessory

| Spec. | Size | For shock absorber |
|---|---|---|
| ST08 |   | DA0806 |
| ST10 |   | DA1008 |
| ST12 |   | DA1210 |
| ST14 |   | DA1412 DA1415 CA1410 |

| Spec. | Size | For shock absorber |
|---|---|---|
| ST20 |   | DA2020 DA2030 DA2050 CA2016 CA2020 DAD2030 DAD2035 DAD2050 |
| ST25 |   | DA2525 CA2525 |
| ST25L |   | DA2540 DA2580 CA2540 CA2550 |
| ST36 |   | DA3660 CA3625 CA3650 |

## Application diagram for Positioning screw



## Speed controller

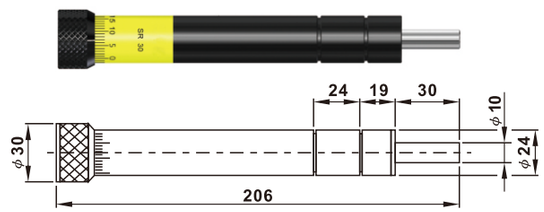
**Features:**

1. Stabilize and control the piston speed of pneumatic cylinder for drilling, feeding, cutting, milling, etc.
2. When the workpiece is pushed by pneumatic cylinder and touch the speed controller, the moving speed of workpiece can be adjusted by the regulating knob on speed controller for the moving speed you need.

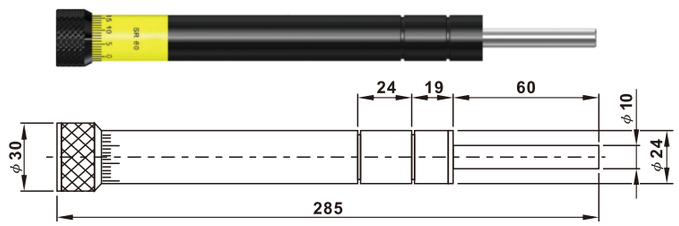
**Application:**

Lathe processing, milling machine processing, grinding machinery, woodworking machinery, automated machinery, tooling machine, circular sawing machine, automatic cutting machine, clock machinery, food machinery, pneumatic and hydraulic robotic arm, etc.

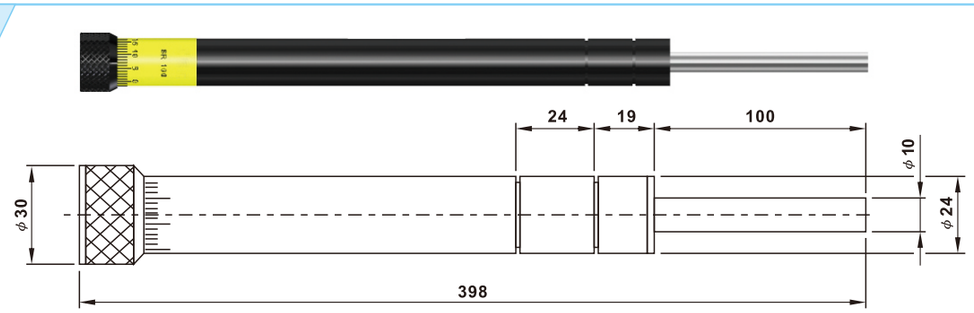
**SR30**



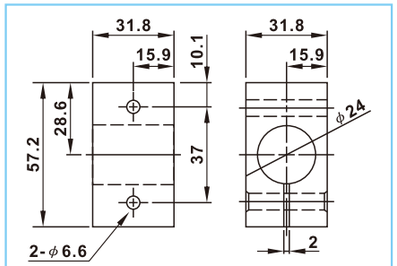

**SR60**




**SR100**




## Fixture




| Model | Max. Stroke (mm) | Max. Load (kgf) | Operating temperature (℃) | Netweight (g) | Grpss Weight (g) |
|---|---|---|---|---|---|
| SR30 | 30 | 15 ~ 330 | 0~60 | 470 | 670 |
| SR60 | 60 | 15 ~ 330 | 0~60 | 608 | 815 |
| SR100 | 100 | 15 ~ 330 | 0~60 | 780 | 1030 |



Memo...