# ▼ RSM/RCS Single-Acting Low-Height Cylinders


| | |
|---|---|
| Rated Pressure: | 70MPa |
| Rated Tonnage: | 5-150ton |
| Stroke Range: | 6-62mm |

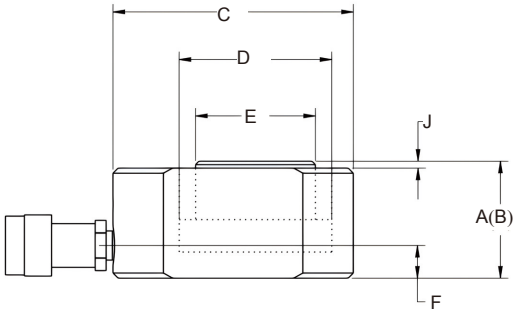
**RSM Series, Ultra-thin Hydraulic Cylinders:**

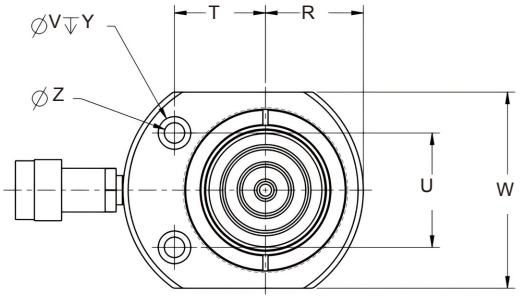
• The cylinder body, piston and stop ring are treated with gas nitriding and post-oxidation, offering outstanding wear resistance, self-lubricity and corrosion resistance.
• Secondary overall painting is adopted to improve overall recognizability and corrosion resistance.
•Compact, low-profile design for applications where other hydraulic cylinders cannot be used.
•RSM750/1000/1500 models are fitted with handles for easy transportation.
•Mounting holes allow for convenient fixation.
•All models come standard with CEJN quick couplings and dust caps.
•Single-acting, spring return.

**RCS Series, Low-profile Hydraulic Cylinders:**

• The cylinder body, piston and stop ring are treated with gas nitriding and post-oxidation, offering outstanding wear resistance, self-lubricity and corrosion resistance.
• Secondary overall painting is adopted to improve overall recognizability and corrosion resistance.
•Lightweight and compact design for confined working spaces.
•Dust seals reduce contamination and extend the service life of the hydraulic cylinders.
•All models are supplied standard with CEJN quick couplings and dust caps.
•Threaded holes on the top of the grooved ram enable installation of tilting saddles.
•RCS-1002 is equipped with a handle for easy portability.
•Single-acting, spring return.

## ▼ RSM Outline Dimension:

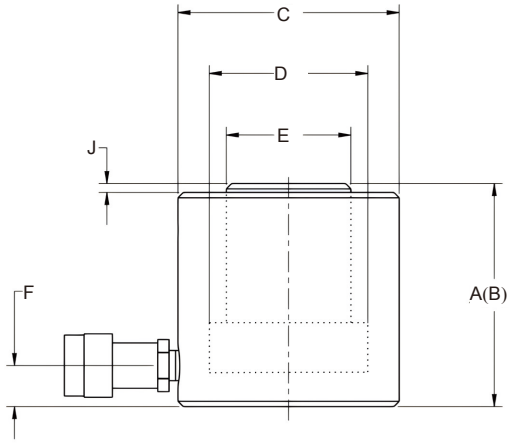


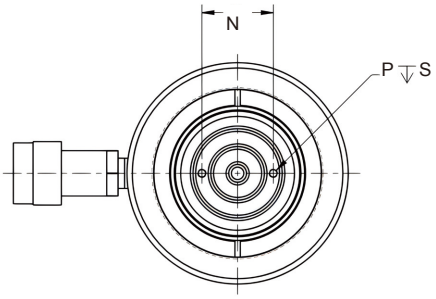




| RSM Cylinders Mounting Hole Diameter Dimensions | | | | |
|---|---|---|---|---|
| Model | Bolt Circle Diameter U(mm) | Hole Diameter Z (mm) | Counterbore Diameter V(mm) | Counterbore Length Y(mm) |
| RSM50 | 28.5 | 5.5 | 9.1 | 4.3 |
| RSM100 | 36.6 | 7.1 | 10.7 | 7.9 |
| RSM200 | 49.3 | 10 | 15.1 | 9.9 |
| RSM300 | 52.3 | 10 | 15.9 | 11.2 |
| RSM500 | 66.5 | 11 | 19 | 12.7 |
| RSM750 | 76.2 | 13.5 | 20.6 | 14.2 |
| RSM1000 | 76.2 | 13.5 | 20.6 | 14.2 |
| RSM1500 | 117.3 | 13.5 | 20.6 | 14.2 |

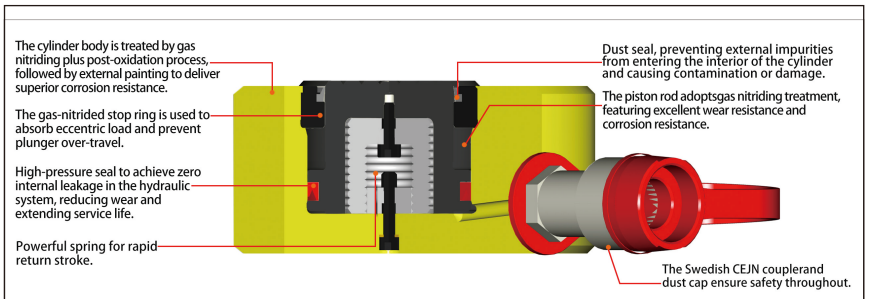
| Load Capacity ton (kN) | Model | Stroke (mm) | Effective Area of Cylinder ($cm^2$) | Oil Capacity ($cm^3$) |
|---|---|---|---|---|
| 5(45) | RSM50 | 6 | 6.5 | 4 |
| 10(101) | RSM100 | 11 | 14.5 | 18 |
| 20(201) | RSM200 | 11 | 28.7 | 32 |
| 30(295) | RSM300 | 13 | 42.1 | 55 |
| 45(435) | RSM500 | 16 | 62.1 | 99 |
| 75(718) | RSM750 | 16 | 102.6 | 164 |
| 90(887) | RSM1000 | 16 | 126.7 | 203 |
| 150(1386) | RSM1500 | 16 | 198.1 | 317 |
| 10(101) | RCS101 | 38 | 14.5 | 55 |
| 20(201) | RCS201 | 45 | 28.7 | 129 |
| 30(295) | RCS302 | 62 | 42.1 | 261 |
| 45(435) | RCS502 | 60 | 62.1 | 373 |
| 90(887) | RCS1002 | 57 | 126.7 | 722 |

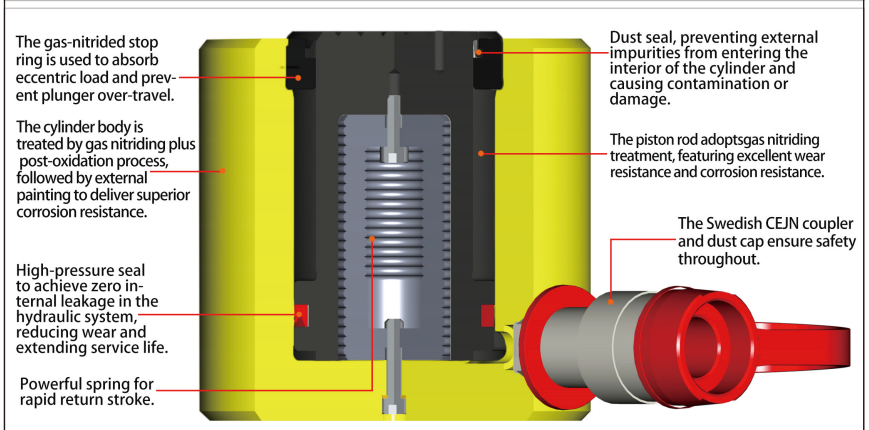
## ▼ RCS Outline Dimension:




## ▼ RSM/RCS Performance Introduction:




1.The cylinder body, piston and stop ring are all treated with gas nitriding and post-oxidation, delivering excellent wear resistance, self-lubricating property and corrosion resistance.

2.Overall surface painting is applied secondarily to enhance identification and overall corrosion resistance.

| Collapsed Height A (mm) | Height B (mm) | Outer Diameter C (mm) | Inner Diameter D (mm) | Piston Rod Diameter E (mm) | Oil Inlet Height from Bottom F (mm) | Piston Protrusion Height J (mm) | Distance T (mm) | Distance R (mm) | Thread P (mm) | Thread Depth S (mm) | Thread Circle Diameter N (mm) | Weight (kg) | Model |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 38 | 58X41 | 28.7 | 25.4 | 16 | 1 | 22X28.5 | 20 | - | - | - | 1.0 | RSM50 |
| 43 | 54 | 82X55 | 42.9 | 38.1 | 19 | 1 | 34X36.6 | 27 | - | - | - | 1.4 | RSM100 |
| 51 | 62 | 101X76 | 60.5 | 50.8 | 19 | 1 | 39X49.3 | 39 | - | - | - | 3.1 | RSM200 |
| 58 | 71 | 117X95 | 73.2 | 63.4 | 19 | 2 | 44X52.3 | 47 | - | - | - | 4.5 | RSM300 |
| 66 | 82 | 140X114 | 88.9 | 69.8 | 19 | 2 | 53X66.5 | 57 | - | - | - | 6.8 | RSM500 |
| 79 | 95 | 165X139 | 114.3 | 82.6 | 19 | 2 | 66X76.2 | 69 | - | - | - | 11.3 | RSM750 |
| 85 | 101 | 177X153 | 127 | 92.2 | 19 | 2 | 74X76.2 | 76 | - | - | - | 14.5 | RSM1000 |
| 100 | 116 | 215X190 | 158.8 | 114.3 | 23 | 2 | 82X117.3 | 95 | - | - | - | 26.3 | RSM1500 |
| 88 | 126 | 69 | 42.9 | 38.1 | 17 | 5 | - | - | M4 | 8 | 26 | 2.7 | RCS101 |
| 98 | 143 | 92 | 60.5 | 50.8 | 17 | 3 | - | - | M5 | 8 | 40 | 5.0 | RCS201 |
| 117 | 179 | 101 | 73.2 | 66.5 | 17 | 3 | - | - | M5 | 8 | 40 | 6.8 | RCS302 |
| 122 | 182 | 124 | 88.9 | 69.8 | 23 | 2 | - | - | M5 | 8 | 40 | 10.0 | RCS502 |
| 141 | 198 | 165 | 127 | 92.2 | 31 | 1 | - | - | M8 | 10 | 55 | 20.7 | RCS1002 |