

# Rods

1045 Carbon Steel or Equivalent, 1018 Carbon Steel or Equivalent, 4137 Alloy Steel

**Rods – 1045 Carbon Steel or Equivalent, 1018 Carbon Steel or Equivalent, 4137 Alloy Steel**

Rods		Material	Surface Treatment
Outer Dia. Selectable	Outer Dia. Configurable		
RDOC	FRDOC	1045 Carbon Steel or Equivalent	—
RDOB	—		Black Oxide
RDOM	—		Electroless Nickel Plating
RDSS	—	1018 Carbon Steel or Equivalent	—
RDSSB	—		Black Oxide
RDSSM	—		Electroless Nickel Plating
RD435S	—	4137 Alloy Steel	—

**C Dimension**

More Than	Or Less	C
D3	D16	0.5
D17	D60	1.0

**L Dimension Tolerance**

More Than	Or Less	Tolerance
10	30	±0.2
31	120	±0.3
121	400	±0.5
401	1000	±0.8

**D Dimension Tolerance**

More Than	Or Less	Tolerance
3	30	0 -0.1
35	60	0 -0.2

RoHS10

## Rods (Selectable Outer Diameter)

Part Number	D	L
Type	1 mm Increment	1 mm Increment
RDOC RDOB RDOM RDSS RDSSB RDSSM RD435S D4-20	3	10-250
	4	
	5	
	6	
	8	
	10	
	12	
	13	
	15	
	16	
RDOC RDOB	18	10-500
	20	
	25	
	30	
RDOC	35	10-750
	40	
	50	
RDOC	60	10-900
	60	



**Part Number Example**

Rods (Selectable Outer Diameter)  
Part Number - L  
RDOC15 - 700

Rods (Configurable Outer Diameter)  
Part Number - D - L  
FRDOC - D11 - L113



**Part Number Alterations**

Part Number - L - (MC / WMC)  
RDOC20 - 535 - MC8

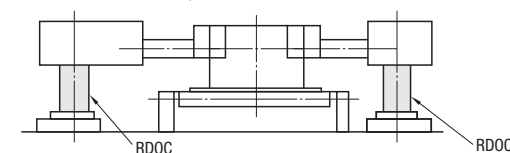
## Rods (Configurable Outer Diameter)

Part Number	D	L
	1 mm Increment	1 mm Increment
FRDOC	6-10	10-500
	11-15	10-750
	16-17	10-900
	18-30	20-1000



**Application Example**

It can also be used as a post.



Alterations	One End Tapped	Both Ends Tapped																																
	MC	2-WMC																																
Code	MC	WMC																																
Spec.	<p>Adds a tap on one end. Ordering Code: MC8</p> <ul style="list-style-type: none"> <li>6 ≤ D ≤ 30</li> <li>When L ≤ Mx2, the tap goes through.</li> </ul> <table border="1"> <thead> <tr> <th>D</th> <th>MC (Selection Range)</th> </tr> </thead> <tbody> <tr><td>6, 7</td><td>3</td></tr> <tr><td>8, 9</td><td>3, 4</td></tr> <tr><td>10, 11</td><td>3, 4, 5</td></tr> <tr><td>12-14</td><td>3, 4, 5, 6</td></tr> <tr><td>15-19</td><td>3, 4, 5, 6, 8</td></tr> <tr><td>20-24</td><td>3, 4, 5, 6, 8, 10, 12</td></tr> <tr><td>25-30</td><td>3, 4, 5, 6, 8, 10, 12, 16</td></tr> </tbody> </table> <ul style="list-style-type: none"> <li>When L ≤ Mx4, the pilot hole for tapping may go through.</li> </ul>	D	MC (Selection Range)	6, 7	3	8, 9	3, 4	10, 11	3, 4, 5	12-14	3, 4, 5, 6	15-19	3, 4, 5, 6, 8	20-24	3, 4, 5, 6, 8, 10, 12	25-30	3, 4, 5, 6, 8, 10, 12, 16	<p>Adds taps on both ends. Ordering Code: WMC12</p> <ul style="list-style-type: none"> <li>6 ≤ D ≤ 30</li> <li>When L ≤ Mx4, the tap goes through.</li> </ul> <table border="1"> <thead> <tr> <th>D</th> <th>WMC (Selection Range)</th> </tr> </thead> <tbody> <tr><td>6, 7</td><td>3</td></tr> <tr><td>8, 9</td><td>3, 4</td></tr> <tr><td>10, 11</td><td>3, 4, 5</td></tr> <tr><td>12-14</td><td>3, 4, 5, 6</td></tr> <tr><td>15-19</td><td>3, 4, 5, 6, 8</td></tr> <tr><td>20-24</td><td>3, 4, 5, 6, 8, 10, 12</td></tr> <tr><td>25-30</td><td>3, 4, 5, 6, 8, 10, 12, 16</td></tr> </tbody> </table>	D	WMC (Selection Range)	6, 7	3	8, 9	3, 4	10, 11	3, 4, 5	12-14	3, 4, 5, 6	15-19	3, 4, 5, 6, 8	20-24	3, 4, 5, 6, 8, 10, 12	25-30	3, 4, 5, 6, 8, 10, 12, 16
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# Rods

Stainless Steel, Aluminum, Brass, Titanium Grade 2

**Rods – Stainless Steel, Aluminum, Brass, Titanium Grade 2**

Rods		Material
Outer Dia. Selectable	Outer Dia. Configurable	
RDOF	—	303 Stainless Steel
RDOS	FRDOS	304 Stainless Steel
RDOH	—	316 Stainless Steel
RDOA	—	2017 Aluminum Alloy
RDOK	—	5056 Aluminum Alloy
RD52A	—	5052 Aluminum Alloy
RDOG	—	C 36000(Brass)
RDOT	—	Titanium Class 2

RoHS10

Part Number

\* For RDOG, the material has been changed to Brass with Low Cadmium.  
\* RDOGR Type has been discontinued. Please request a quote and place an order for RDOG Type.

**C Dimension**

More Than	Or Less	C
D3	D16	0.5
D17	D80	1.0

**L Dimension Tolerance**

More Than	Or Less	Tolerance
10	30	±0.2
31	120	±0.3
121	400	±0.5
401	1000	±0.8

## Rods (Selectable Outer Diameter)

Part Number	D	L
Type	1 mm Increment	1 mm Increment
RDOF RDOS RDOH RDOA RDOK RD52A D5-12, 15-20 RDOG RDOT D3-6	3	10-250
	4	
	5	
	6	
	8	
	10	
	12	
	13	
	15	
	16	
RDOF RDOS	18	10-500
	20	
	25	
	30	
RDOF RDOS	50	10-750
	60	
	80	



**Part Number Example**

Rods (Selectable Outer Diameter)  
Part Number - L  
RDOA15 - 700

Rods (Configurable Outer Diameter)  
Part Number - D - L  
FRDOS - D11 - L113

## Rods (Configurable Outer Diameter)

Part Number	D	L
	1 mm Increment	1 mm Increment
FRDOS	6-10	10-500
	11-15	10-750
	16-17	10-900
	18-30	20-1000



**Part Number Alterations**

Part Number - L - (MC / WMC)  
RDOF20 - 535 - MC8

## Outer Diameter Tolerance

Part Number	RDOF RDOS	FRDOS RDOH RDOT	RDOA	RDOK RD52A RDOG
3				
4				
5				
6			±0.1	
8				
10				
12	0	0		±0.1
13	-0.1	-0.1		
15			±0.3	
16				
18				
20				
25			±0.4	
30				
50				
60	0 -0.2	—	—	—
80				

Alterations	One End Tapped	Both Ends Tapped																																
	MC	2-WMC																																
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Spec.	<p>Adds a tap on one end. Ordering Code: MC8</p> <ul style="list-style-type: none"> <li>6 ≤ D ≤ 30</li> <li>When L ≤ Mx2, the tap goes through.</li> </ul> <table border="1"> <thead> <tr> <th>D</th> <th>MC (Selection Range)</th> </tr> </thead> <tbody> <tr><td>6, 7</td><td>3</td></tr> <tr><td>8, 9</td><td>3, 4</td></tr> <tr><td>10, 11</td><td>3, 4, 5</td></tr> <tr><td>12-14</td><td>3, 4, 5, 6</td></tr> <tr><td>15-19</td><td>3, 4, 5, 6, 8</td></tr> <tr><td>20-24</td><td>3, 4, 5, 6, 8, 10, 12</td></tr> <tr><td>25-30</td><td>3, 4, 5, 6, 8, 10, 12, 16</td></tr> </tbody> </table> <ul style="list-style-type: none"> <li>When L ≤ Mx4, the pilot hole for tapping may go through.</li> </ul>	D	MC (Selection Range)	6, 7	3	8, 9	3, 4	10, 11	3, 4, 5	12-14	3, 4, 5, 6	15-19	3, 4, 5, 6, 8	20-24	3, 4, 5, 6, 8, 10, 12	25-30	3, 4, 5, 6, 8, 10, 12, 16	<p>Adds taps on both ends. Ordering Code: WMC12</p> <ul style="list-style-type: none"> <li>6 ≤ D ≤ 30</li> <li>When L ≤ Mx4, the tap goes through.</li> </ul> <table border="1"> <thead> <tr> <th>D</th> <th>WMC (Selection Range)</th> </tr> </thead> <tbody> <tr><td>6, 7</td><td>3</td></tr> <tr><td>8, 9</td><td>3, 4</td></tr> <tr><td>10, 11</td><td>3, 4, 5</td></tr> <tr><td>12-14</td><td>3, 4, 5, 6</td></tr> <tr><td>15-19</td><td>3, 4, 5, 6, 8</td></tr> <tr><td>20-24</td><td>3, 4, 5, 6, 8, 10, 12</td></tr> <tr><td>25-30</td><td>3, 4, 5, 6, 8, 10, 12, 16</td></tr> </tbody> </table>	D	WMC (Selection Range)	6, 7	3	8, 9	3, 4	10, 11	3, 4, 5	12-14	3, 4, 5, 6	15-19	3, 4, 5, 6, 8	20-24	3, 4, 5, 6, 8, 10, 12	25-30	3, 4, 5, 6, 8, 10, 12, 16
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