

## AlphaRod® API Subcoupling

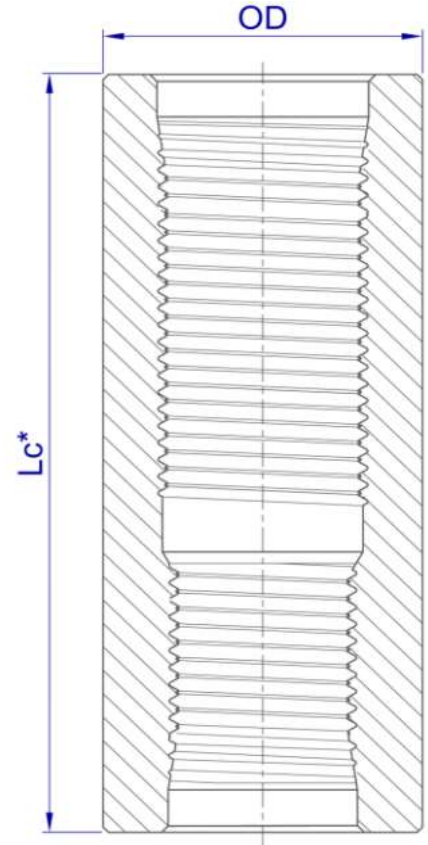
### Dimensions:

#### Full Size:

| Nominal Size | Units | OD    | Lc* (min) | Weight    |
|--------------|-------|-------|-----------|-----------|
| 3/4"-5/8"    | in    | 1.625 | 4.000     | 1.65 lb   |
|              | mm    | 41.3  | 101.6     | (0.75 kg) |
| 7/8"-5/8"    | in    | 1.811 | 4.000     | 2.14 lb   |
|              | mm    | 46.0  | 101.6     | (0.97 kg) |
| 7/8"-3/4"    | in    | 1.811 | 4.000     | 2.04 lb   |
|              | mm    | 46.0  | 101.6     | (0.92 kg) |
| 1"-5/8"      | in    | 2.189 | 4.500     | 3.25 lb   |
|              | mm    | 55.6  | 114.3     | (1.47 kg) |
| 1"-3/4"      | in    | 2.189 | 4.500     | 3.25 lb   |
|              | mm    | 55.6  | 114.3     | (1.47 kg) |
| 1"-7/8"      | in    | 2.189 | 4.500     | 3.15 lb   |
|              | mm    | 55.6  | 114.3     | (1.43 kg) |
| 1 1/8"-3/4"  | in    | 2.375 | 5.000     | 4.63 lb   |
|              | mm    | 60.3  | 127.0     | (2.1 kg)  |
| 1 1/8"-7/8"  | in    | 2.375 | 5.000     | 4.41 lb   |
|              | mm    | 60.3  | 127.0     | (2 kg)    |
| 1 1/8"-1"    | in    | 2.375 | 5.000     | 4.19 lb   |
|              | mm    | 60.3  | 127.0     | (1.9 kg)  |

#### Slim Hole:

| Nominal Size | Units | OD    | Lc* (min) | Weight    |
|--------------|-------|-------|-----------|-----------|
| 3/4"-5/8"    | in    | 1.500 | 4.000     | 1.26 lb   |
|              | mm    | 38.1  | 101.6     | (0.57 kg) |
| 7/8"-5/8"    | in    | 1.626 | 4.000     | 1.49 lb   |
|              | mm    | 41.3  | 101.6     | (0.68 kg) |
| 7/8"-3/4"    | in    | 1.626 | 4.000     | 1.4 lb    |
|              | mm    | 41.3  | 101.6     | (0.64 kg) |
| 1"-5/8"      | in    | 2.000 | 4.500     | 2.87 lb   |
|              | mm    | 50.8  | 114.3     | (1.3 kg)  |
| 1"-3/4"      | in    | 2.000 | 4.500     | 2.41 lb   |
|              | mm    | 50.8  | 114.3     | (1.09 kg) |
| 1"-7/8"      | in    | 2.000 | 4.500     | 2.31 lb   |
|              | mm    | 50.8  | 114.3     | (1.05 kg) |
| 1 1/8"-3/4"  | in    | 2.256 | 5.000     | 3.97 lb   |
|              | mm    | 57.3  | 127.0     | (1.8 kg)  |
| 1 1/8"-7/8"  | in    | 2.256 | 5.000     | 3.75 lb   |
|              | mm    | 57.3  | 127.0     | (1.7 kg)  |
| 1 1/8"-1"    | in    | 2.256 | 5.000     | 3.53 lb   |
|              | mm    | 57.3  | 127.0     | (1.6 kg)  |



\*Other lengths might be available.

## Steel Grades:

### Chemical Composition:

Typical chemical compositions (wt%) are listed in the following table.

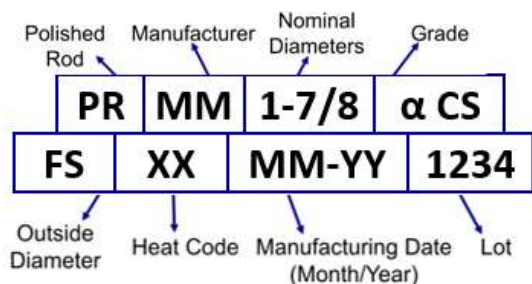
| Grade        | C    | Mn   | Si   | S        | P        | Cr   | Ni       | Mo  | Others                                |
|--------------|------|------|------|----------|----------|------|----------|-----|---------------------------------------|
| AlphaRod® CS | 0.23 | 0.55 | 0.25 | 0.01 max | 0.01 max | 0.95 | 0.30 max | 0.7 | B: 0.01 max, Ti: 0.1 max, Nb: 0.1 max |
| AlphaRod® HS | 0.23 | 0.55 | 0.25 | 0.01 max | 0.01 max | 0.95 | 0.30 max | 0.7 | B: 0.01 max, Ti: 0.1 max, Nb: 0.1 max |

### Mechanical Properties:

Mechanical properties are listed in the following table.

| Grade        | Yield Strength (0.2% offset)  | Ultimate Tensile Stress              | Hardness  |
|--------------|-------------------------------|--------------------------------------|-----------|
| AlphaRod® CS | Min 90 kpsi<br>(Min 621 Mpa)  | 100 to 130 kpsi<br>(689 to 896 MPa)  | 20-28 HRC |
| AlphaRod® HS | Min 110 kpsi<br>(Min 758 Mpa) | 125 to 155 kpsi<br>(862 to 1069 MPa) | 28-36 HRC |


### Marking:



### Non Destructive Testing:

All raw material is carefully inspected using electromagnetic and/or ultrasonic methods to ensure the soundness of the final product.

### Labeling:\*

|   |                 |  |  |
|---|-----------------|--|--|
|  |                 | Metalmeccánica S.A.<br>Ruta 55 Km. 754,1<br>Villa Mercedes (San Luis)<br>Made in Argentina |  |
| BOX N° 60000006   |                 |  |  |
| PRODUCT:  |                 |  |  |
| SPECIFICATION:  |                 |  |  |
| QTY:  | DATE:           |         |  |
| DIAM 1:<br>(in)   | DIAM 2:<br>(in) |  |  |
| CLASS:  | TYPE:           |  |  |
| CLIENT:   |                 |  |  |
| SALES ORDER:  |                 | NET WEIGHT:<br>(kg)  |  |
| DESTINATION:  |                 |  |  |

\*Image for reference only

### Ordering Information:

When placing an order please attach the following information:

**PDS:** SRCSCAR  
**Coupling Type:** Subcoupling  
**Nominal dimension:** 1 1/8" - 1"  
**Size:** FullSize  
**Grade:** AlphaRod® CS

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