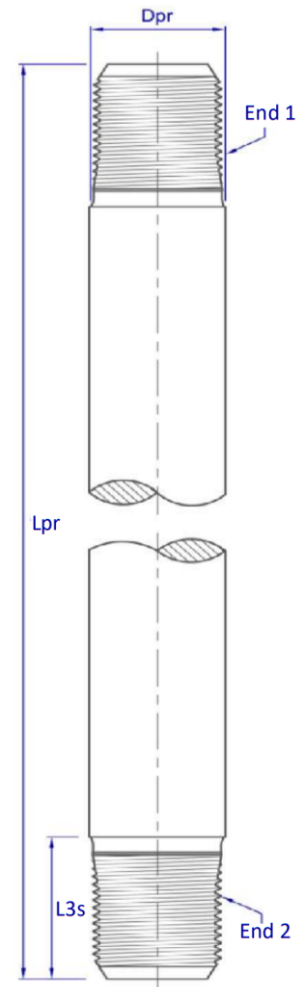


Spray Metal Polished Rod

Dimensions:

| Nominal Size | | Units | Dpr | L3s |
|--------------|---------|--------|--------|-------|
| Rod | Pin | | | |
| 1 1/8" | 5/8" PR | in | 1.125 | 1.156 |
| | | | +0.005 | |
| | | -0.010 | 29.4 | |
| | | 28.6 | | |
| +0.1 | 35.7 | | | |
| -0.2 | | | | |
| 1 1/8" | 3/4" PR | in | 1.125 | 1.406 |
| | | | +0.005 | |
| | | -0.010 | 35.7 | |
| | | 28.6 | | |
| +0.1 | 45.2 | | | |
| -0.2 | | | | |
| 1 1/4" | 7/8" PR | in | 1.125 | 1.406 |
| | | | +0.005 | |
| | | -0.010 | 35.7 | |
| | | 28.6 | | |
| +0.1 | 45.2 | | | |
| -0.2 | | | | |
| 1 1/2" | 1" PR | in | 1.500 | 1.780 |
| | | | +0.005 | |
| | | -0.010 | 45.2 | |
| | | 38.1 | | |
| +0.1 | 45.2 | | | |
| -0.2 | | | | |



Available Lengths* (Lpr): 8, 11, 16, 22, 26, 30, 36 ft ± 2"
 (2.438, 3.353, 4.877, 6.706, 7.925, 9.144, 10.973 m ± 50.8 mm)

*Other lengths might be available upon request.

Steel Grades:

Chemical Composition:

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

| Grade | C | Mn | Si | S | P | Cr | Ni | Mo | Others |
|--------------|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|--------|
| Carbon steel | 0.43-0.50 | 0.60-0.90 | - | 0.050 max | 0.040 max | - | - | - | - |
| Alloy steel | 0.38-0.45 | 0.75-1.00 | 0.15-0.35 | 0.040 max | 0.040 max | 0.80-1.10 | - | 0.15-0.25 | - |

Mechanical Properties:

Mechanical properties are listed in the following table.

| Grade | Ultimate Tensile Stress |
|--------------|-------------------------------------|
| Carbon steel | 90 to 160 kpsi (620 to 1102 MPa) |
| Alloy steel | 115 to 140 kpsi (793 to 964 MPa) |

Coating:

Spray Metal

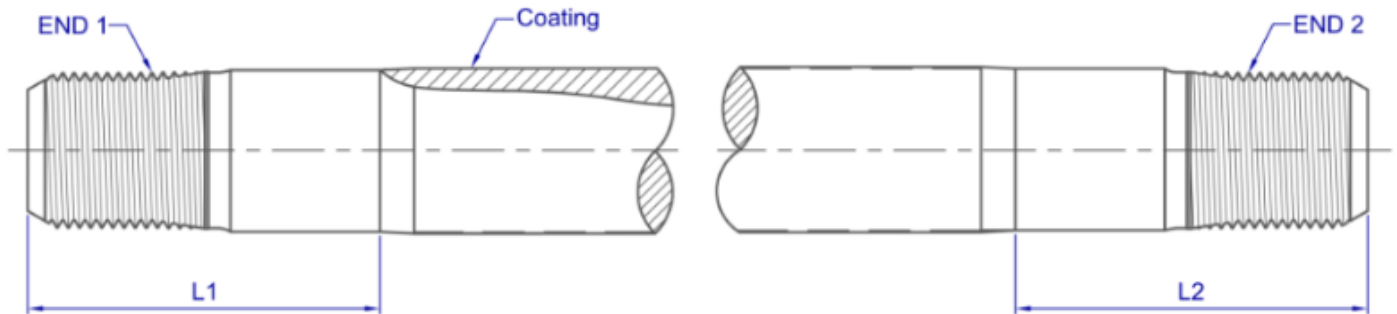
Chemical composition in accordance with API 11B

Roughness (Ra): 8-20 μin (0.203-0.508 μm)

Min thickness: 0.008-0.02 in (0.2-0.51 mm)

Hardness: 480 HV200 min

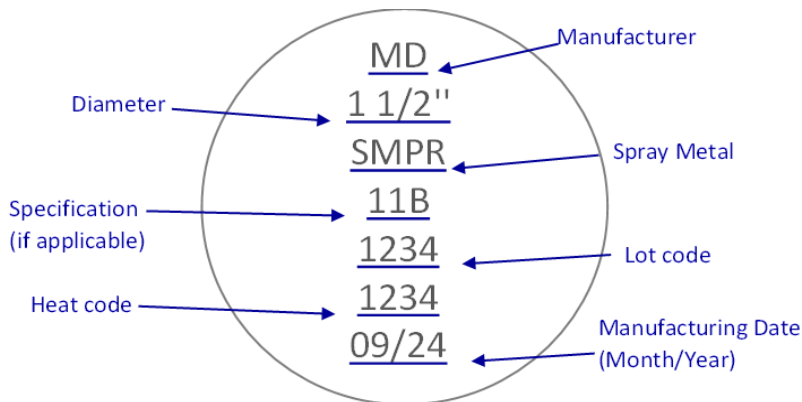
| Coating | C | SI | P | S | Cr | B | Fe | Ni | Others |
|-------------|-------------|-------------|----------|----------|-------------|-------------|-------------|-----------|---|
| Spray Metal | 0.50 - 1.00 | 3.50 - 5.50 | 0.02 max | 0.02 max | 12.00-18.00 | 2.50 - 4.50 | 3.00 - 5.50 | Remainder | Ti: 0.05 max Al: 0.05 max Zr:0.05 max Co:0.10 max |





| Coating Length | L1 | | L2 | |
|---------------------|-----------------------|-------------------------------|-----------------------|------------------------------|
| Full length | 0 | 0 mm | 0 " | 0 mm |
| 2 ft free both ends | 24 " (± 2 ") | 609.6 mm (± 50.8 mm) | 24 " (± 2 ") | 609.6 mm (± 50.8 mm) |
| 2 ft free one end | 24 " (± 2 ") | 609.6 mm (± 50.8 mm) | 0 " | 0 mm |
| 3 ft free both ends | 36 " (± 2 ") | 914.4 mm (± 50.8 mm) | 36 " (± 2 ") | 914.4 mm (± 50.8 mm) |
| 3 ft free one end | 36 " (± 2 ") | 914.4 mm (± 50.8 mm) | 0 " | 0 mm |
| 4 ft free both ends | 48 " (± 2 ") | 1219.2 mm (± 50.8 mm) | 0 " | 0 mm |

Other dimensions might be available upon request.

Marking:



Labeling:*

| | | | | |
|---|---|--|--|--|
|  | | Metalmecánica S.A. Ruta 55 Km. 754,1 Villa Mercedes (San Luis) Made in Argentina | | |
| BOX N° 60000005 | | QTY: | | |
| PRODUCT: POLISHED ROD | | DATE: | | |
| ROD DIAM (in): |  | GRADE: | | |
| LENGTH: (ft) | | NET WEIGHT: (kg) | | |
| SALES ORDER: | | DESTINATION: | | |
| DESTINATION: | | DESTINATION: | | |

*Image for reference only

Non Destructive Testing:

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

Ordering Information:

When placing an order please attach the following information:

| | |
|------------------------|---------------------|
| PDS: | SRPRSM |
| Body diameter: | 1 1/2" |
| Pin diameter: | 1" PR |
| Surface finish: | Spray Metal |
| Grade: | Carbon steel |
| Length: | 30 ft |
| Coating Length: | 2 ft free both ends |

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