

CASING, TUBING AND LINE PIPE THREAD  
GAGES OF PETROLEUM AND GAS EQUIPMENT

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- Measure the casing, tubing and line pipe threads



4178-21T

Casing round thread gages

| Code     | Gage code   | Outer dia | Number of thread per inch | Taper | Angle of thread |
|----------|-------------|-----------|---------------------------|-------|-----------------|
| 4178-4   | 4 1/2 CSG   | 114.30mm  | 8                         | 1:16  | 60°             |
| 4178-4L  | 4 1/2 LCSG  |           |                           |       |                 |
| 4178-5   | 5 CSG       | 127.00mm  | 8                         | 1:16  | 60°             |
| 4178-5L  | 5 LCSG      |           |                           |       |                 |
| 4178-51  | 5 1/2 CSG   | 139.70mm  | 8                         | 1:16  | 60°             |
| 4178-51L | 5 1/2 LCSG  |           |                           |       |                 |
| 4178-6   | 6 5/8 CSG   | 168.28mm  | 8                         | 1:16  | 60°             |
| 4178-6L  | 6 5/8 LCSG  |           |                           |       |                 |
| 4178-7   | 7 CSG       | 177.80mm  | 8                         | 1:16  | 60°             |
| 4178-7L  | 7 LCSG      |           |                           |       |                 |
| 4178-71  | 7 5/8 CSG   | 193.68mm  | 8                         | 1:16  | 60°             |
| 4178-71L | 7 5/8 LCSG  |           |                           |       |                 |
| 4178-8   | 8 5/8 CSG   | 219.08mm  | 8                         | 1:16  | 60°             |
| 4178-8L  | 8 5/8 LCSG  |           |                           |       |                 |
| 4178-9   | 9 5/8 CSG   | 244.48mm  | 8                         | 1:16  | 60°             |
| 4178-9L  | 9 5/8 LCSG  |           |                           |       |                 |
| 4178-10  | 10 3/4 CSG  | 273.05mm  | 8                         | 1:16  | 60°             |
| 4178-10L | 10 3/4 LCSG |           |                           |       |                 |
| 4178-11  | 11 3/4 CSG  | 298.45mm  | 8                         | 1:16  | 60°             |
| 4178-11L | 11 3/4 LCSG |           |                           |       |                 |
| 4178-13  | 13 3/8 CSG  | 339.73mm  | 8                         | 1:16  | 60°             |
| 4178-13L | 13 3/8 LCSG |           |                           |       |                 |
| 4178-16  | 16 CSG      | 406.40mm  | 8                         | 1:16  | 60°             |
| 4178-16L | 16 LCSG     |           |                           |       |                 |

Non-upset tubing thread gages

| Code     | Gage code | Outer dia | Number of thread per inch | Taper | Angle of thread |
|----------|-----------|-----------|---------------------------|-------|-----------------|
| 4178-11T | 1.050 TBG | 26.67mm   | 10                        | 1:16  | 60°             |
| 4178-13T | 1.315 TBG | 33.40mm   | 10                        | 1:16  | 60°             |
| 4178-16T | 1.660 TBG | 42.16mm   | 10                        | 1:16  | 60°             |
| 4178-19T | 1.900 TBG | 48.26mm   | 10                        | 1:16  | 60°             |
| 4178-2T  | 2 3/8 TBG | 60.33mm   | 10                        | 1:16  | 60°             |
| 4178-21T | 2 7/8 TBG | 73.03mm   | 10                        | 1:16  | 60°             |
| 4178-3T  | 3 1/2 TBG | 88.90mm   | 10                        | 1:16  | 60°             |
| 4178-4T  | 4 TBG     | 101.60mm  | 8                         | 1:16  | 60°             |
| 4178-41T | 4 1/2 TBG | 114.30mm  | 8                         | 1:16  | 60°             |

External-upset tubing thread gages

| Code     | Gage code    | Outer dia | Number of thread per inch | Taper | Angle of thread |
|----------|--------------|-----------|---------------------------|-------|-----------------|
| 4178-11U | 1.050 UP TBG | 26.67mm   | 10                        | 1:16  | 60°             |
| 4178-13U | 1.315 UP TBG | 33.40mm   | 10                        | 1:16  | 60°             |
| 4178-16U | 1.660 UP TBG | 42.16mm   | 10                        | 1:16  | 60°             |
| 4178-19U | 1.900 UP TBG | 48.26mm   | 10                        | 1:16  | 60°             |
| 4178-2U  | 2 3/8 UP TBG | 60.33mm   | 8                         | 1:16  | 60°             |
| 4178-21U | 2 7/8 UP TBG | 73.03mm   | 8                         | 1:16  | 60°             |
| 4178-3U  | 3 1/2 UP TBG | 88.90mm   | 8                         | 1:16  | 60°             |
| 4178-4U  | 4 UP TBG     | 101.60mm  | 8                         | 1:16  | 60°             |
| 4178-41U | 4 1/2 UP TBG | 114.30mm  | 8                         | 1:16  | 60°             |

Buttress casing thread gages

| Code     | Gage code   | Outer dia | Number of thread per inch | Taper | Angle of thread |
|----------|-------------|-----------|---------------------------|-------|-----------------|
| 4178-4B  | 4 1/2 BCSG  | 114.30mm  | 5                         | 1:16  | 3°、10°          |
| 4178-5B  | 5 BCSG      | 127.00mm  | 5                         | 1:16  | 3°、10°          |
| 4178-51B | 5 1/2 BCSG  | 139.70mm  | 5                         | 1:16  | 3°、10°          |
| 4178-6B  | 6 5/8 BCSG  | 168.28mm  | 5                         | 1:16  | 3°、10°          |
| 4178-7B  | 7 BCSG      | 177.80mm  | 5                         | 1:16  | 3°、10°          |
| 4178-71B | 7 5/8 BCSG  | 193.68mm  | 5                         | 1:16  | 3°、10°          |
| 4178-8B  | 8 5/8 BCSG  | 219.08mm  | 5                         | 1:16  | 3°、10°          |
| 4178-9B  | 9 5/8 BCSG  | 244.48mm  | 5                         | 1:16  | 3°、10°          |
| 4178-10B | 10 3/4 BCSG | 273.05mm  | 5                         | 1:16  | 3°、10°          |
| 4178-11B | 11 3/4 BCSG | 298.45mm  | 5                         | 1:16  | 3°、10°          |
| 4178-13B | 13 3/8 BCSG | 339.73mm  | 5                         | 1:16  | 3°、10°          |
| 4178-16B | 16 BCSG     | 406.40mm  | 5                         | 1:12  | 3°、10°          |

Line pipe thread gages

| Code      | Gage code | Outer dia | Number of thread per inch | Taper | Angle of thread |
|-----------|-----------|-----------|---------------------------|-------|-----------------|
| 4178-01P  | 1/8 LP    | 3.18mm    | 27                        | 1:16  | 60°             |
| 4178-02P  | 1/4 LP    | 6.35mm    | 18                        | 1:16  | 60°             |
| 4178-03P  | 3/8 LP    | 9.53mm    | 18                        | 1:16  | 60°             |
| 4178-05P  | 1/2 LP    | 12.70mm   | 14                        | 1:16  | 60°             |
| 4178-07P  | 3/4 LP    | 19.05mm   | 14                        | 1:16  | 60°             |
| 4178-10P  | 1 LP      | 25.40mm   | 11 1/2                    | 1:16  | 60°             |
| 4178-12P  | 1 1/4 LP  | 31.75mm   | 11 1/2                    | 1:16  | 60°             |
| 4178-15P  | 1 1/2 LP  | 38.10mm   | 11 1/2                    | 1:16  | 60°             |
| 4178-20P  | 2 LP      | 50.80mm   | 11 1/2                    | 1:16  | 60°             |
| 4178-25P  | 2 1/2 LP  | 63.50mm   | 8                         | 1:16  | 60°             |
| 4178-30P  | 3 LP      | 76.20mm   | 8                         | 1:16  | 60°             |
| 4178-35P  | 3 1/2 LP  | 88.90mm   | 8                         | 1:16  | 60°             |
| 4178-40P  | 4 LP      | 101.60mm  | 8                         | 1:16  | 60°             |
| 4178-50P  | 5 LP      | 127.00mm  | 8                         | 1:16  | 60°             |
| 4178-60P  | 6 LP      | 152.40mm  | 8                         | 1:16  | 60°             |
| 4178-80P  | 8 LP      | 203.20mm  | 8                         | 1:16  | 60°             |
| 4178-100P | 10 LP     | 254.00mm  | 8                         | 1:16  | 60°             |