

1200 Tapping Machine

Tapping Sizes: 12-



T.D. Williamson

Bulletin No: 1000.001.06

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Description

Tapping machines are used for making connections to pipelines, tanks and plant piping without shutdown and are used to make hot taps in preparation for plugging machine applications.

T.D. Williamson Model 1200M Tapping Machines are designed to make hot taps into metal pipe, tank tops and walls*. They are hydraulically operated and are used for making taps from 12- to 42-inches (305 mm to 1067 mm). Maximum working pressure is 1,480 psi (100 bar) at 100°F (38°C). Operating temperature is -20°F (-29°C) to 700°F (371°C) at 700 psi (48 bar) for intermittent service. Maximum continuous rating is 350°F (177°C) at 1,025 psi (70 bar).

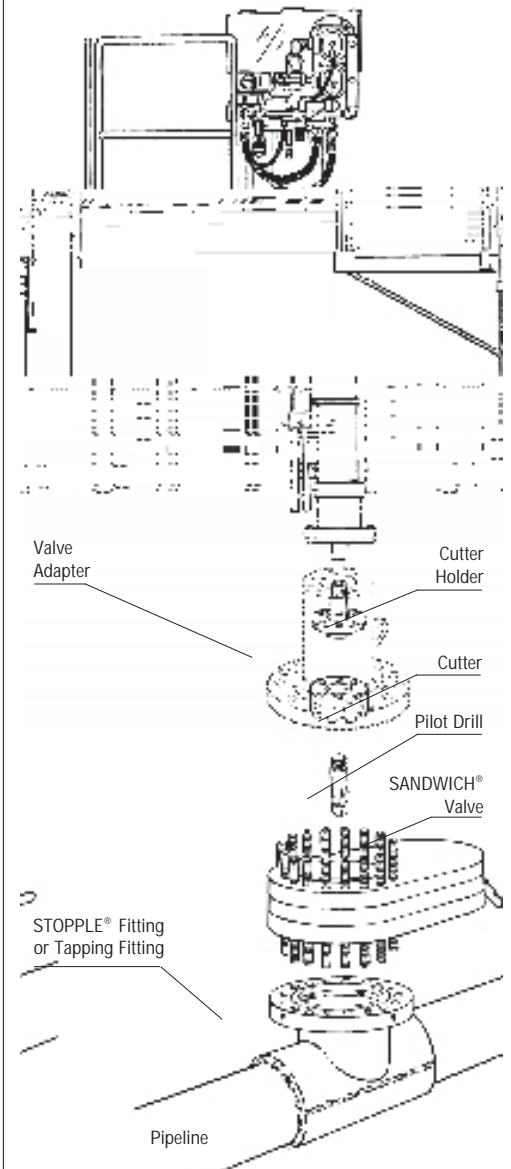
The 1200M Tapping Machine is fitted with a ladder and platform for operator use; meets NACE standard MR0175-2009 (sulfide stress cracking-resistant, metallic material for oilfield equipment; and can be used to install LOCK-O-RING® and LOCK-O-RING® Plus completion plugs from sizes 12- to 36-inches. The Tapping Machine Power Unit is compliant with EPA Tier 4 emission standards, has an emergency air shut-off valve and a four point lift system.

Features

The basic machine includes:

- Tapping machine
- Ladder and platform
- Hydraulic piping
- Skid
- Connecting hoses
- Power unit
- Two-stage drive motor
- Feed motor
- Crank handle

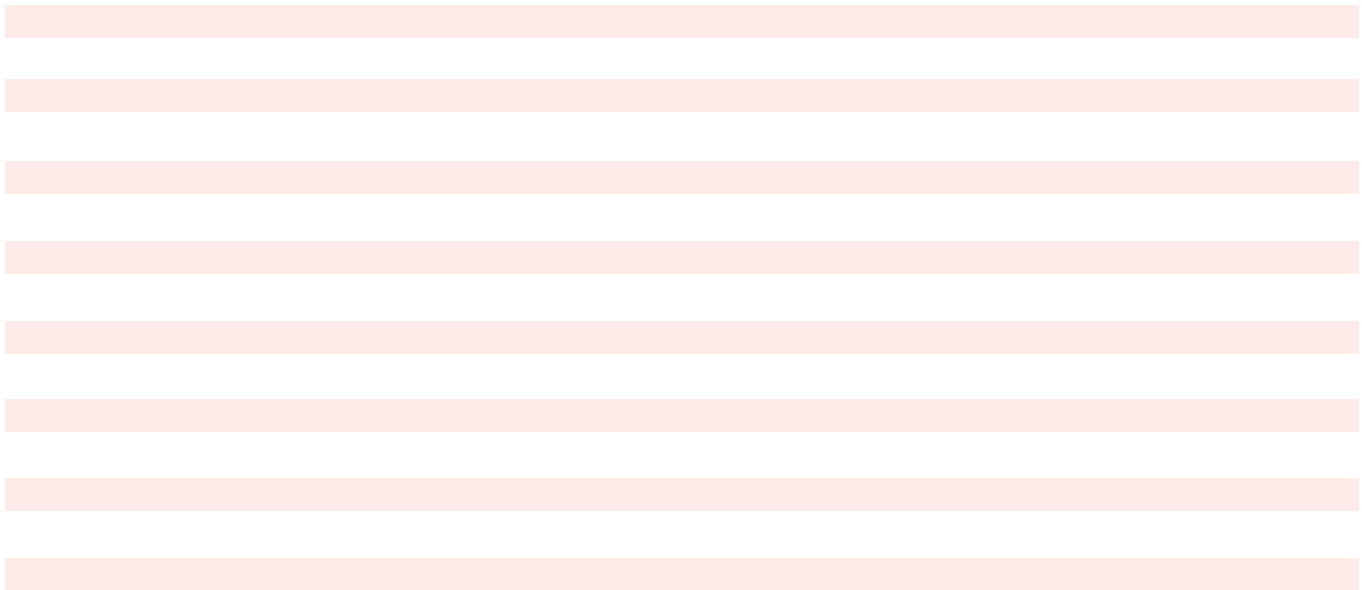
Typical Tapping Setup



* Consult the factory for special cutters and pilots required for tank taps.

Dimensions and Part Numbers

| Nominal Tap Size | | ASME Class 150 RF Flange | | | ASME Class 300 RF Flange | | | ASME Class 600 RF Flange | | |
|------------------|------|--------------------------|------|--------------|--------------------------|------|--------------|--------------------------|-------|--------------|
| Inches | DN | Lbs. | Kg. | Part Number | Lbs. | Kg | Part Number | Lbs. | Kg. | Part Number |
| 12 | 300 | 170 | 77 | 06-5184-0012 | 255 | 116 | 06-5085-0012 | 268 | 122 | 06-5185-0012 |
| 14 | 350 | 240 | 109 | 06-5184-0014 | 232 | 105 | 06-6106-0014 | 354 | 161 | 06-5185-0014 |
| 16 | 400 | 280 | 127 | 06-9333-0016 | 315 | 143 | 06-6106-0016 | 510 | 231 | 06-5185-0016 |
| 18 | 450 | 329 | 149 | 06-5184-0018 | 363 | 165 | 06-6106-0018 | 560 | 254 | 06-5185-0018 |
| 20 | 500 | 425 | 193 | 06-5184-0020 | 465 | 211 | 06-6106-0020 | 730 | 331 | 06-5185-0020 |
| 22 | 550 | 416 | 189 | 06-5184-0022 | 567 | 257 | 06-6106-0022 | 925 | 420 | 06-5185-0022 |
| 24 | 600 | 612 | 278 | 06-5184-0024 | 786 | 357 | 06-6106-0024 | 1,125 | 510 | 06-5185-0024 |
| 26 | 650 | 633 | 287 | 06-5184-0026 | 920 | 417 | 06-6106-0026 | 1,455 | 660 | 06-5185-0026 |
| 28 | 700 | 700 | 318 | 06-5184-0028 | 1,066 | 484 | 06-6106-0028 | 1,530 | 694 | 06-5185-0028 |
| 30 | 750 | 791 | 359 | 06-5184-0030 | 1,375 | 624 | 06-6106-0030 | 1,875 | 851 | 06-5185-0030 |
| 32 | 800 | 990 | 449 | 06-5184-0032 | 1,580 | 720 | 06-6106-0032 | 2,036 | 924 | 06-5185-0032 |
| 36 | 900 | 1,650 | 748 | 06-5184-0036 | 2,650 | 1200 | 06-6106-0036 | 2,615 | 1,186 | 06-5185-0036 |
| 38 | 950 | Available on Request | | | Available on Request | | | 4,064 | 1,856 | 06-5087-0038 |
| 40 | 1000 | Available on Request | | | Available on Request | | | 5,042 | 2,287 | 06-5087-0040 |
| 42 | 1050 | 2870 | 1305 | 06-5184-0042 | Available on Request | | | | | |





1200 Tapping Machine Model 1200M

Standard Hot Tap Applications

| Nominal Tap Size | | Actual Size | | Standard Cutters | | | Standard Pilot Drills | | | Spare U-Rods |
|------------------|------|-------------|-----|------------------|-----|--------------|-----------------------|-----|--------------|--------------|
| Inches | DN | Inches | mm | Lbs. | Kg. | Part Number | Lbs. | Kg. | Part Number | Part Number |
| 12 | 300 | 11-1/2 | 292 | 36 | 16 | 05-0389-0012 | 5 | 2 | 05-0294-0001 | 00-1424-0008 |
| 14 | 350 | 12-3/4 | 324 | 42 | 19 | 05-0389-0014 | 5-1/2 | 3 | 05-0294-0002 | 00-1424-0008 |
| 16 | 400 | 14-11/16 | 373 | 55 | 25 | 05-0389-0016 | 6 | 3 | 05-0294-0003 | 00-1424-0008 |
| 18 | 450 | 15-1/16 | 383 | 64 | 29 | 05-0388-0016 | 6 | 3 | 05-0294-0003 | 00-1424-0008 |
| 20 | 500 | 17 | 432 | 84 | 38 | 05-0388-0018 | 6-1/2 | 3 | 05-0294-0004 | 00-1424-0008 |
| 22 | 550 | 19 | 483 | 98 | 45 | 05-0388-0020 | 7-1/2 | 3 | 05-0294-0005 | 00-1424-0008 |
| 24 | 600 | 21 | 533 | 125 | 57 | 05-0388-0022 | 8 | 3 | 05-0294-0006 | 00-1424-0008 |
| 26 | 650 | 23 | 584 | 126 | 57 | 05-0388-0024 | 8-1/2 | 4 | 05-0294-0007 | 00-1424-0008 |
| 28 | 700 | 25 | 635 | 156 | 71 | 05-0388-0026 | 10-1/2 | 5 | 05-0294-0008 | 00-1424-0008 |
| 30 | 750 | 27 | 686 | 232 | 105 | 05-0388-0028 | 11 | 5 | 05-0294-0009 | 00-1424-0008 |
| 32 | 800 | 29 | 737 | 275 | 125 | 05-0388-0030 | 15 | 7 | 05-0294-0010 | 00-1424-0009 |
| 34 | 850 | 31 | 787 | 350 | 159 | 05-0388-0032 | 15 | 7 | 05-0294-0010 | 00-1424-0009 |
| 36 | 900 | 33 | 838 | 395 | 179 | 05-0388-0034 | 18 | 8 | 05-0294-0011 | 00-1424-0009 |
| 38 | 950 | 35 | 889 | 430 | 195 | 05-0388-0036 | 18 | 8 | 05-0294-0011 | 00-1424-0009 |
| 40 | 1000 | 36-7/8 | 937 | 450 | 204 | 05-0388-0038 | 20 | 9 | 05-0294-0020 | 00-1424-0009 |
| 42 | 1050 | 38-7/8 | 987 | 523 | 238 | 05-0388-0040 | 20 | 9 | 05-0294-0020 | 00-1424-0009 |

Tapping for STOPPLE® and STOPPLE® Train Plugging Applications

| Nominal Tap Size | | Actual Size | | STOPPLE® Cutters | | | STOPPLE® Pilot Drills | | | Spare U-Rods |
|------------------|------|-------------|------|------------------|-----|--------------|-----------------------|-----|---------------|--------------|
| Inches | DN | Inches | mm | Lbs. | Kg. | Part Number | Lbs. | Kg. | Part Number | Part Number |
| 12 | 300 | 11-13/16 | 300 | 40-1/2 | 18 | 05-0388-0012 | 5 | 2 | 05-0294-0001 | 00-1424-0008 |
| 14 | 350 | 13-1/16 | 332 | 49 | 22 | 05-0388-0014 | 5-1/2 | 3 | 05-0294-0002 | 00-1424-0008 |
| 16 | 400 | 15-1/16 | 383 | 53-1/2 | 24 | 05-0388-0016 | 6 | 3 | 05-0294-0003 | 00-1424-0008 |
| 18 | 450 | 17 | 432 | 84 | 38 | 05-0388-0018 | 6-1/2 | 3 | 05-0294-0004 | 00-1424-0008 |
| 20 | 500 | 19 | 483 | 98 | 45 | 05-0388-0020 | 7-1/2 | 3 | 05-0294-0005 | 00-1424-0008 |
| 22 | 550 | 21 | 533 | 125 | 57 | 05-0388-0022 | 8 | 4 | 05-0294-0006 | 00-1424-0008 |
| 24 | 600 | 23 | 584 | 126 | 57 | 05-0388-0024 | 8-1/2 | 4 | 05-0294-0007 | 00-1424-0008 |
| 26 | 650 | 25 | 635 | 156 | 71 | 05-0388-0026 | 10-1/2 | 5 | 05-0294-0008 | 00-1424-0008 |
| 28 | 700 | 27 | 686 | 232 | 105 | 05-0388-0028 | 11 | 5 | 05-0294-0009 | 00-1424-0008 |
| 30 | 750 | 29 | 737 | 275 | 125 | 05-0388-0030 | 11 | 5 | 05-0294-0009 | 00-1424-0008 |
| 32 | 800 | 31 | 787 | 330 | 150 | 05-0388-0032 | 15 | 7 | 05-0294-0009* | 00-1424-0009 |
| 34 | 850 | 33 | 838 | 395 | 179 | 05-0388-0034 | 18 | 8 | 05-0294-0011 | 00-1424-0009 |
| 36 | 900 | 35 | 889 | 430 | 195 | 05-0388-0036 | 18 | 8 | 05-0294-0011 | 00-1424-0009 |
| 38 | 950 | 36-7/8 | 937 | 450 | 204 | 05-0388-0038 | 20 | 9 | 05-0294-0020 | 00-1424-0009 |
| 40 | 1000 | 38-7/8 | 987 | 523 | 238 | 05-0388-0040 | 20 | 9 | 05-0294-0020 | 00-1424-0009 |
| 42 | 1050 | 40-7/8 | 1038 | 606 | 276 | 05-0388-0042 | 20 | 9 | 05-0294-0020 | 00-1424-0009 |

*Requires Cutter Holder 05-0278-0000 for making 30-inch (750 mm) taps.