
# AXILOCK

## Stainless Steel Axially Restrained Pipe Coupling

**21.3mm to 711.0mm**


TEEKAY the pipe coupling

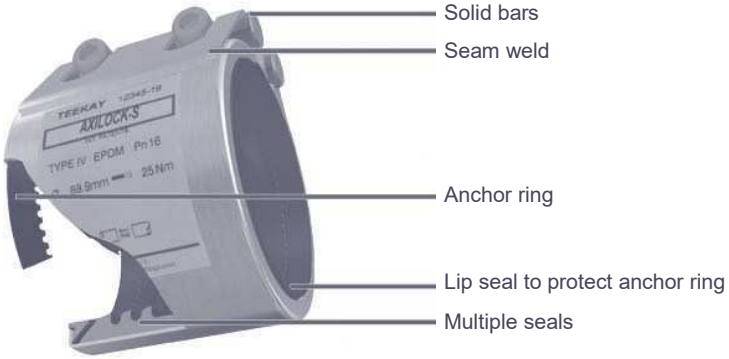
Axilock couplings are designed to replace the need for flanging, welding, pipe grooving and pipe threading by providing a quick and easy solution to joining plain-end pipe. Incorporating grip rings at each end of the fitting, they offer high levels of security by locking the pipes together under pressure.

Available in single (Axilock-S) and double (Axilock) casing versions depending on pressure and diameter. Fire-proof versions can be supplied on request.

**Features, Benefits & Approvals**

- Lloyds, BV, DNV, ABS GL & VdS type approved
- DIN 86128 Form G (Axial restrained)
- ASTM F1476 Type II, Class 2 (Flexible & restrained)
- Multi-seal gasket in various materials
- Quick & easy pipe coupling system

**The Axilock coupling has metallic anchor rings that dig into the pipe wall when the coupling is installed. This prevents the two pipes from pushing apart under pressure or pulling away under end-load.**




| Materials | Type I | Type II | Type III |
|---|---|---|---|
| **Casing** | Stainless Steel (AISI 404) | Stainless Steel (AISI 404) | Stainless Steel (AISI 316L) |
| **Fasteners** | Steel | Stainless Steel (AISI 316L) | Stainless Steel (AISI 316L) |
| **Gasket Options** | | **EPDM : -40°C to 100°C<br>NBR : -20°C to 80°C<br>H-NBR : -20°C to 130°C<br>FKM : -20°C to 180°C<br>VMQ : -70°C to 200°C (180°C Steam)** | |
| **Pipe Material Suitability** | Axilock couplings are primarily designed to join metallic pipes. Other pipe materials, such as rigid plastics and GRP, can also be joined under certain circumstances. Soft plastic materials, such as PE, must be fitted with internal stiffeners (these should be specifically requested at time of order) but will not resist pull out forces generated by cold creep. | | |

| When ordering, the following information is necessary to ensure that the correct coupling is selected | | | | | |
|---|---|---|---|---|---|
| **1. Pipe O.D.** | | **2. Type I, II or III** | | **3. Gasket Material** | |
| **4. Working Pressure** | | **5. Pipe Material** | | **6. Application** | |

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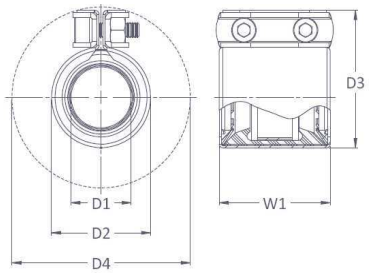
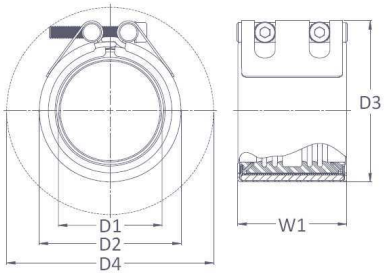



# AXILOCK-S

## Dimensions & Pressure
## 21.3mm to 170.0mm




Axilock-S - 21.3mm - 35.0mm

Axilock-S - 38.0mm - 170.0mm

| D1 Pipe O.D. | O.D. Tolerance | Work Pressure (Bar) Marine | Work Pressure (Bar) Industrial | Axial Pull (N) | W1 | D2 | D3 | D4 | Screws | Hex Adaptor | Weight Kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **21.3** | 21.0 - 21.6 | 16 | 42 | 5704 | 45 | 34 | 50 | 77 | 2 x M6 | 5 | 0.15 |
| **26.9** | 26.6 - 27.3 | 16 | 42 | 8528 | 45 | 39 | 56 | 83 | 2 x M6 | 5 | 0.16 |
| **28.0** | 27.7 - 28.4 | 16 | 42 | 8994 | 45 | 40 | 57 | 84 | 2 x M6 | 5 | 0.16 |
| **30.0** | 29.7 - 30.4 | 16 | 42 | 9900 | 45 | 42 | 59 | 86 | 2 x M6 | 5 | 0.17 |
| **33.7** | 33.3 - 34.1 | 16 | 42 | 11600 | 45 | 46 | 63 | 90 | 2 x M6 | 5 | 0.17 |
| **35.0** | 34.7 - 35.4 | 16 | 42 | 12031 | 45 | 47 | 64 | 91 | 2 x M6 | 5 | 0.18 |
| **38.0** | 37.0 - 39.0 | 16 | 42 | 14069 | 65 | 55 | 67 | 130 | 2 x M8 | 6 | 0.42 |
| **42.4** | 41.4 - 43.4 | 16 | 42 | 16950 | 65 | 60 | 71 | 132 | 2 x M8 | 6 | 0.43 |
| **44.5** | 43.5 - 45.5 | 16 | 42 | 18360 | 65 | 62 | 73 | 134 | 2 x M8 | 6 | 0.45 |
| **48.3** | 47.3 - 49.3 | 16 | 42 | 21263 | 88 | 66 | 77 | 136 | 2 x M8 | 6 | 0.47 |
| **54.0** | 53.0 - 55.0 | 16 | 42 | 25463 | 88 | 71 | 87 | 138 | 2 x M8 | 6 | 0.72 |
| **57.0** | 56.0 - 58.0 | 16 | 42 | 27570 | 88 | 74 | 90 | 140 | 2 x M8 | 6 | 0.85 |
| **60.3** | 59.0 - 62.0 | 16 | 42 | 30855 | 88 | 78 | 93 | 143 | 2 x M8 | 6 | 0.87 |
| **63.0** | 62.0 - 65.0 | 16 | 42 | 32432 | 88 | 80 | 96 | 145 | 2 x M8 | 6 | 0.90 |
| **67.0** | 66.0 - 69.0 | 16 | 42 | 35271 | 88 | 84 | 100 | 147 | 2 x M8 | 6 | 0.90 |
| **70.0** | 69.0 - 72.0 | 16 | 42 | 36575 | 88 | 87 | 103 | 150 | 2 x M8 | 6 | 0.91 |
| **73.0** | 72.0 - 75.0 | 16 | 42 | 35590 | 88 | 90 | 106 | 152 | 2 x M8 | 6 | 0.93 |
| **76.1** | 75.0 - 78.0 | 16 | 42 | 37312 | 88 | 94 | 109 | 185 | 2 x M10 | 8 | 0.95 |
| **82.5** | 81.5 - 84.5 | 16 | 42 | 43317 | 88 | 101 | 116 | 189 | 2 x M10 | 8 | 1.00 |
| **84.0** | 83.0 - 86.0 | 16 | 42 | 43627 | 88 | 102 | 118 | 190 | 2 x M10 | 8 | 1.02 |
| **88.9** | 88.0 - 91.0 | 16 | 42 | 44352 | 88 | 107 | 123 | 193 | 2 x M10 | 8 | 1.05 |
| **98.0** | 97.0 - 100.0 | 16 | 42 | 59613 | 88 | 116 | 132 | 200 | 2 x M10 | 8 | 1.25 |
| **101.6** | 100.5 - 103.5 | 16 | 42 | 63263 | 88 | 120 | 136 | 202 | 2 x M10 | 8 | 1.28 |
| **104.0** | 103.0 - 106.0 | 16 | 42 | 65779 | 88 | 122 | 138 | 204 | 2 x M10 | 8 | 1.31 |
| **108.0** | 107.0 - 110.0 | 16 | 42 | 69651 | 88 | 126 | 142 | 207 | 2 x M10 | 8 | 1.35 |
| **110.0** | 109.0 - 112.0 | 16 | 42 | 72254 | 88 | 128 | 144 | 208 | 2 x M10 | 8 | 1.41 |
| **114.3** | 113.0 - 116.0 | 16 | 42 | 76987 | 89 | 133 | 149 | 211 | 2 x M10 | 8 | 1.50 |
| **118.0** | 117.0 - 120.0 | 16 | 42 | 79864 | 89 | 137 | 154 | 214 | 2 x M10 | 8 | 1.58 |
| **127.0** | 126.0 - 129.0 | 16 | 42 | 87442 | 89 | 146 | 163 | 221 | 2 x M10 | 8 | 1.75 |
| **129.0** | 128.0 - 131.0 | 16 | 42 | 89562 | 89 | 148 | 165 | 223 | 2 x M10 | 8 | 1.85 |
| **133.0** | 132.0 - 135.0 | 16 | 42 | 94510 | 114 | 152 | 177 | 236 | 2 x M12 | 10 | 2.46 |
| **139.7** | 139.0 - 142.0 | 16 | 42 | 101205 | 114 | 159 | 184 | 241 | 2 x M12 | 10 | 2.65 |
| **141.3** | 140.5 - 143.5 | 13 | 34 | 101968 | 115 | 162 | 187 | 243 | 2 x M12 | 10 | 2.80 |
| **144.0** | 143.0 - 146.0 | 13 | 34 | 104272 | 115 | 164 | 190 | 245 | 2 x M12 | 10 | 2.90 |
| **154.0** | 153.0 - 156.0 | 13 | 34 | 112025 | 115 | 174 | 200 | 253 | 2 x M12 | 10 | 3.05 |
| **159.0** | 158.0 - 161.0 | 13 | 34 | 117195 | 115 | 179 | 205 | 257 | 2 x M12 | 10 | 3.15 |
| **165.0** | 164.0 - 167.0 | 13 | 34 | 124068 | 115 | 185 | 211 | 262 | 2 x M12 | 10 | 3.25 |
| **168.3** | 167.0 - 170.0 | 13 | 34 | 126855 | 115 | 189 | 214 | 265 | 2 x M12 | 10 | 3.40 |
| **170.0** | 169.0 - 172.0 | 13 | 34 | 129431 | 115 | 190 | 216 | 266 | 2 x M12 | 10 | 3.41 |

**Working Pressure and Axial Pull figures are independent of each other and cannot be combined.**

**Working pressure for marine applications.** Minimum burst is 4 times working pressure. Figures are based on typical values for standard wall carbon steel pipe. For use on thin or soft pipe materials such as thin wall stainless, copper alloy or plastic (by way of example only) please check with us first.

**Working pressure for industrial and land-based applications.** Minimum burst is 1.5 times working pressure. Figures are based on typical values for standard wall carbon steel pipe. For use on thin or soft pipe materials such as thin wall stainless, copper alloy or plastic (by way of example only) please check with us first.

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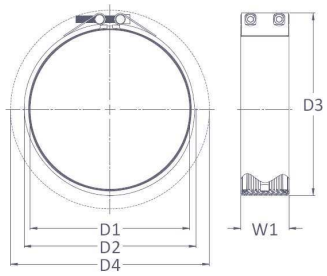


# AXILOCK

## Dimensions & Pressure

## 141.3mm to 711.0mm

| D1 Pipe O.D. | O.D. Tolerance | Work Pressure (Bar) Marine | Work Pressure (Bar) Industrial | Axial Pull (N) | W1 | D2 | D3 | D4 | Screws | Hex Adaptor | Weight Kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **141.3** | 140.5 - 143.5 | 16 | 42 | 11393 | 116 | 165 | 189 | 244 | 2 x M12 | 10 | 4.4 |
| **144.0** | 143.0 - 146.0 | 16 | 42 | 104266 | 116 | 167 | 192 | 246 | 2 x M12 | 10 | 4.4 |
| **154.0** | 153.0 - 156.0 | 16 | 42 | 119251 | 116 | 177 | 202 | 255 | 2 x M12 | 10 | 4.5 |
| **159.0** | 158.0 - 161.0 | 16 | 42 | 127120 | 118 | 184 | 210 | 287 | 2 x M16 | 14 | 4.6 |
| **165.0** | 164.0 - 167.0 | 16 | 42 | 136895 | 118 | 190 | 216 | 292 | 2 x M16 | 14 | 4.7 |
| **168.3** | 167.0 - 170.0 | 16 | 42 | 142425 | 118 | 194 | 219 | 294 | 2 x M16 | 14 | 4.8 |
| **170.0** | 169.0 - 172.0 | 16 | 42 | 145317 | 118 | 195 | 221 | 296 | 2 x M16 | 14 | 4.8 |
| **193.7** | 193.0 - 196.0 | 16 | 42 | 188860 | 119 | 220 | 246 | 315 | 2 x M16 | 14 | 6.5 |
| **219.1** | 218.0 - 221.0 | 16 | 42 | 241382 | 119 | 245 | 272 | 337 | 2 x M16 | 14 | 6.9 |
| **222.0** | 221.0 - 224.0 | 16 | 42 | 247814 | 119 | 248 | 275 | 339 | 2 x M16 | 14 | 6.9 |
| **244.5** | 243.5 - 246.5 | 8.75 | 23 | 164386 | 120 | 271 | 297 | 358 | 2 x M16 | 14 | 7.2 |
| **267.0** | 266.0 - 269.0 | 8.75 | 23 | 196033 | 120 | 293 | 320 | 378 | 2 x M16 | 14 | 7.5 |
| **273.0** | 272.0- 275.0 | 8.75 | 23 | 204943 | 120 | 299 | 326 | 383 | 2 x M16 | 14 | 7.7 |
| **323.9** | 323.0 - 326.0 | 7.5 | 19 | 247276 | 120 | 350 | 377 | 429 | 2 x M16 | 14 | 9.5 |
| **326.0** | 325.0 - 328.0 | 7.5 | 19 | 250493 | 120 | 352 | 379 | 431 | 2 x M16 | 14 | 9.5 |
| **355.6** | 354.5 - 357.5 | 6.0 | 15 | 238437 | 120 | 382 | 409 | 458 | 2 x M16 | 14 | 10.25 |
| **378.0** | 377.0 - 380.0 | 6.0 | 15 | 269423 | 120 | 404 | 431 | 479 | 2 x M16 | 14 | 10.5 |
| **406.4** | 405.0 - 408.0 | 6.0 | 15 | 311428 | 120 | 433 | 460 | 506 | 2 x M16 | 14 | 12.0 |
| **249.0** | 428.0 - 431.0 | 5.0 | 15 | 289191 | 120 | 455 | 482 | 527 | 2 x M16 | 14 | 12.5 |
| **457.2** | 456.0 - 459.0 | - | 2.5 | 164230 | 120 | 485 | 512 | 554 | 2 x M16 | 14 | 13.3 |
| **508.0** | 507.0 - 510.0 | - | 2.5 | 202753 | 120 | 535 | 563 | 603 | 2 x M16 | 14 | 14.7 |
| **558.8** | 558.0 - 561.0 | - | 2.5 | 245331 | 120 | 586 | 613 | 652 | 2 x M16 | 14 | 16.2 |
| **609.6** | 608.5 - 611.5 | - | 1.5 | 175178 | 120 | 637 | 664 | 701 | 2 x M16 | 14 | 17.7 |
| **660.4** | 659.5 - 662.5 | - | 1.5 | 205591 | 120 | 688 | 715 | 750 | 2 x M16 | 14 | 19.2 |
| **711.0** | 710.0 - 713.0 | - | 1.5 | 238437 | 120 | 739 | 766 | 799 | 2 x M16 | 14 | 20.7 |

**Working Pressure and Axial Pull figures are independent of each other and cannot be combined.**

**Working pressure for marine applications.** Minimum burst is 4 times working pressure. Figures are based on typical values for standard wall carbon steel pipe. For use on thin or soft pipe materials such as thin wall stainless, copper alloy or plastic (by way of example only) please check with us first.

**Working pressure for industrial and land-based applications.** Minimum burst is 1.5 times working pressure. Figures are based on typical values for standard wall carbon steel pipe. For use on thin or soft pipe materials such as thin wall stainless, copper alloy or plastic (by way of example only) please check with us first.




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