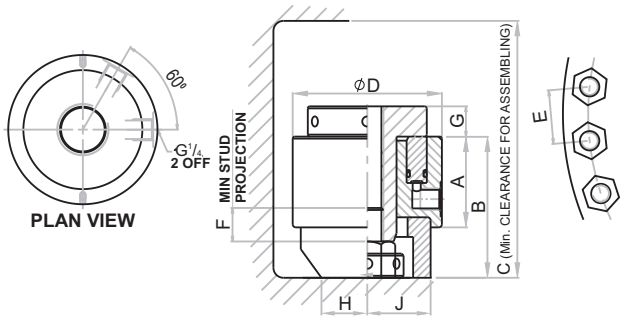
# Stud Bolt Tensioners

n Range M16 - M100 ( $^3/_4$" - 4") n Max. Working Pressure 1000 bar

ORIONE HYDRAULICS PVT. LTD.



## OBT Series

O Orione B Bolt T Tensioner 10 Series 14 Capacity-ton 18 Thread Size

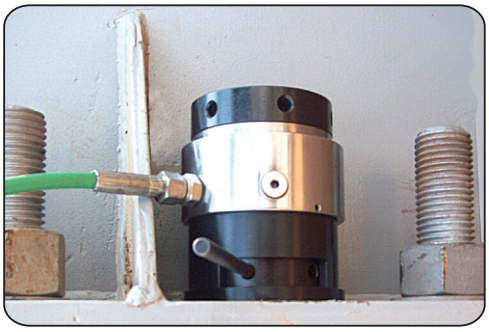
| Model (metric) | Bolt / Stud Size (metric) | Bolt / Stud Size (inch) | Model (imperial) | Cylinder Cap (ton) | Stroke (mm) | Effective area ($cm^2$) | Dimensions (mm) A | B | C | D | E | F | G | H | J | Wt. (Approx.) (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OBT 10-14-16 | M16 | | | 13.5 | 6 | 13.6 | 63 | 93 | 135 | 74 | 49 | 22 | 16 | 22 | 29.0 | 2 |
| OBT 10-14-18 | M18 | $^3/_4$" | OBT 10-14-075 | 13.5 | 6 | 13.6 | 63 | 93 | 135 | 74 | 49 | 22 | 16 | 22 | 29.0 | 2 |
| OBT 10-14-20 | M20 | | | 13.5 | 6 | 13.6 | 63 | 93 | 135 | 74 | 51 | 22 | 16 | 22 | 29.0 | 2 |
| OBT 10-14-22 | M22 | $^7/_8$" | OBT 10-14-087 | 13.5 | 6 | 13.6 | 63 | 93 | 135 | 74 | 51 | 22 | 16 | 22 | 29.0 | 2 |
| OBT 10-23-24 | M24 | 1" | OBT 10-23-100 | 22.5 | 8 | 22.6 | 70 | 111 | 160 | 86 | 59 | 27 | 20 | 27 | 36.5 | 3 |
| OBT 10-23-27 | M27 | 1 $^1/_8$" | OBT 10-23-112 | 22.5 | 8 | 22.6 | 70 | 111 | 160 | 86 | 60 | 27 | 20 | 27 | 36.5 | 3 |
| OBT 10-35-30 | M30 | | | 35 | 15 | 35.3 | 60 | 120 | 185 | 107 | 72 | 36 | 24 | 36 | 45 | 4.5 |
| OBT 10-35-33 | M33 | 1 $^1/_4$" | OBT 10-35-125 | 35 | 15 | 35.3 | 60 | 120 | 185 | 107 | 73 | 36 | 24 | 36 | 45 | 4.5 |
| OBT 10-35-36 | M36 | 1 $^3/_8$" | OBT 10-35-137 | 35 | 15 | 35.3 | 60 | 120 | 185 | 107 | 76 | 36 | 24 | 36 | 45 | 4.5 |
| OBT 10-45-33 | M33 | 1 $^1/_4$" | OBT10-45-125 | 45 | 15 | 45.3 | 61 | 125 | 195 | 117 | 77 | 39 | 25 | 38 | 47.5 | 5 |
| OBT 10-45-36 | M36 | 1 $^3/_8$" | OBT 10-45-137 | 45 | 15 | 45.3 | 61 | 125 | 195 | 117 | 78 | 39 | 25 | 38 | 47.5 | 5 |
| OBT 10-45-39 | M39 | 1 $^1/_2$" | OBT 10-45-150 | 45 | 15 | 45.3 | 61 | 125 | 195 | 117 | 80 | 39 | 25 | 38 | 47.5 | 5 |
| OBT 10-60-39 | M39 | 1 $^1/_2$" | OBT 10-60-150 | 60 | 15 | 59.7 | 64 | 137 | 215 | 136 | 89 | 45 | 27 | 44 | 54 | 7 |
| OBT 10-60-42 | M42 | 1 $^5/_8$" | OBT 10-60-162 | 60 | 15 | 59.7 | 64 | 137 | 215 | 136 | 91 | 45 | 27 | 44 | 54 | 7 |
| OBT 10-60-45 | M45 | 1 $^3/_4$" | OBT 10-60-175 | 60 | 15 | 59.7 | 64 | 137 | 215 | 136 | 94 | 45 | 27 | 44 | 54 | 7 |
| OBT 10-76-42 | M42 | 1 $^5/_8$" | OBT 10-76-162 | 76 | 15 | 75.9 | 65 | 145 | 230 | 150 | 99 | 52 | 30 | 50 | 61 | 9 |
| OBT 10-76-45 | M45 | 1 $^3/_4$" | OBT 10-76-175 | 76 | 15 | 75.9 | 65 | 145 | 230 | 150 | 101 | 52 | 30 | 50 | 61 | 9 |
| OBT 10-76-48 | M48 | 1 $^7/_8$" | OBT 10-76-187 | 76 | 15 | 75.9 | 65 | 145 | 230 | 150 | 102 | 52 | 30 | 50 | 61 | 9 |
| OBT 10-76-52 | M52 | 2" | OBT 10-76-200 | 76 | 15 | 75.9 | 65 | 145 | 230 | 150 | 105 | 52 | 30 | 50 | 61 | 9 |
| OBT 10-102-48 | M48 | 1 $^7/_8$" | OBT 10-102-187 | 102 | 15 | 102 | 65 | 148 | 240 | 169 | 110 | 56 | 33 | 52 | 65 | 11 |
| OBT 10-102-52 | M52 | 2" | OBT 10-102-200 | 102 | 15 | 102 | 65 | 148 | 240 | 169 | 112 | 56 | 33 | 52 | 65 | 11 |
| OBT 10-102-56 | M56 | 2 $^1/_4$" | OBT 10-102-225 | 102 | 15 | 102 | 65 | 148 | 240 | 169 | 119 | 56 | 33 | 52 | 65 | 11 |
| OBT 10-130-56 | M56 | 2 $^1/_4$" | OBT 10-130-225 | 130 | 15 | 130 | 65 | 161 | 265 | 190 | 124 | 64 | 36 | 58 | 72.5 | 15 |
| OBT 10-130-60 | M60 | | | 130 | 15 | 130 | 65 | 161 | 265 | 190 | 131 | 64 | 36 | 58 | 72.5 | 15 |
| OBT 10-130-64 | M64 | 2 $^1/_2$" | OBT 10-130-250 | 130 | 15 | 130 | 65 | 161 | 265 | 190 | 131 | 64 | 36 | 58 | 72.5 | 15 |
| OBT 10-160-64 | M64 | 2 $^1/_2$" | OBT 10-160-250 | 160 | 15 | 159 | 67 | 175 | 290 | 208 | 136 | 72 | 40 | 67 | 82.5 | 19 |
| OBT 10-160-68 | M68 | | | 160 | 15 | 159 | 67 | 175 | 290 | 208 | 146 | 72 | 40 | 67 | 82.5 | 19 |
| OBT 10-160-72 | M72 | 2 $^3/_4$" | OBT 10-160-275 | 160 | 15 | 159 | 67 | 175 | 290 | 208 | 146 | 72 | 40 | 67 | 82.5 | 19 |
| OBT 10-185-72 | M72 | 2 $^3/_4$" | OBT 10-185-275 | 185 | 15 | 186 | 67 | 181 | 305 | 222 | 150 | 76 | 44 | 70 | 85 | 21 |
| OBT 10-185-76 | M76 | 3" | OBT 10-185-300 | 185 | 15 | 186 | 67 | 181 | 305 | 222 | 157 | 76 | 44 | 70 | 85 | 21 |
| OBT 10-225-76 | M76 | 3" | OBT 10-225-300 | 225 | 15 | 224 | 73 | 202 | 345 | 239 | 161 | 90 | 48 | 80 | 95 | 26 |
| OBT 10-225-80 | M80 | | | 225 | 15 | 224 | 73 | 202 | 345 | 239 | 163 | 90 | 48 | 80 | 95 | 26 |
| OBT 10-225-85 | M85 | 3 $^1/_4$" | OBT 10-225-325 | 225 | 15 | 224 | 73 | 202 | 345 | 239 | 175 | 90 | 48 | 80 | 95 | 26 |
| OBT 10-225-90 | M90 | 3 $^1/_2$" | OBT 10-225-350 | 225 | 15 | 224 | 73 | 202 | 345 | 239 | 177 | 90 | 48 | 80 | 95 | 26 |
| OBT 10-265-95 | M95 | 3 $^3$/4" | OBT 10-265-375 | 265 | 15 | 264 | 75 | 215 | 370 | 276 | 202 | 100 | 52 | 90 | 105 | 35.5 |
| OBT 10-265-100 | M100 | 4" | OBT 10-265-400 | 265 | 15 | 264 | 75 | 215 | 370 | 276 | 212 | 100 | 52 | 90 | 105 | 35.5 |

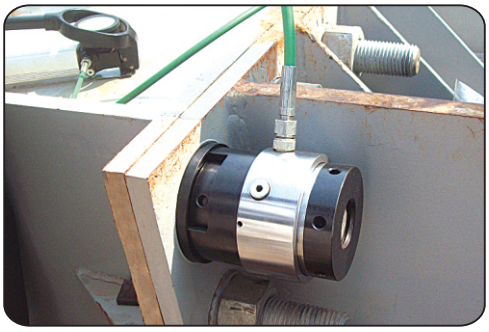
■ Specifications are subject to change due to continual improvement.

# Stud Bolt Tensioners



n Range M16 - M100 ( $^3/_4$" - 4") n Max. Working Pressure 1500 bar





## Application

- Suitable for tensioning of flanges of pressure Vessels, Boiler feed pumps, Compressor covers, Heat exchangers, Pipe flanges and Anchor bolts.
- Used in Steel, Cement and Power plants, Petroleum extraction & Process plants.
- Particularly beneficial on applications requiring uniform joint loading.

## OBT Series

O Orione B Bolt T Tensioner 15 Series 24 Capacity-ton 18 Thread size

| Model (metric) | Bolt / Stud Size | | Model (imperial) | Cylinder Cap (ton) | Stroke (mm) | Effective area ($cm^2$) | Dimensions (mm) | | | | | | | | | Wt. (Approx.) (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (metric) | (inch) | | | | | A | B | C | D | E | F | G | H | J | |
| OBT 15-24-16 | M16 | | | 23.5 | 10 | 15.7 | 62 | 90 | 168 | 75 | 49 | 28 | 16 | 30 | 32.5 | 2 |
| OBT 15-24-18 | M18 | $^3/_4$" | OBT 15-24-075 | 23.5 | 10 | 15.7 | 62 | 90 | 168 | 75 | 49 | 28 | 16 | 30 | 32.5 | 2 |
| OBT 15-24-20 | M20 | | | 23.5 | 10 | 15.7 | 62 | 90 | 168 | 75 | 51 | 28 | 16 | 30 | 32.5 | 2 |
| OBT 15-24-22 | M22 | $^7/_8$" | OBT 15-24-087 | 23.5 | 10 | 15.7 | 62 | 90 | 168 | 75 | 51 | 28 | 16 | 30 | 32.5 | 2 |
| OBT 15-24-24 | M24 | 1" | OBT 15-24-100 | 23.5 | 10 | 15.7 | 62 | 90 | 168 | 75 | 60 | 28 | 16 | 30 | 32.5 | 2 |
| OBT 15-50-27 | M27 | 1 $^1/_8$" | OBT 15-24-112 | 50 | 15 | 33 | 60 | 106 | 187 | 102 | 60 | 44 | 22 | 36 | 47 | 4 |
| OBT 15-50-30 | M30 | | | 50 | 15 | 33 | 60 | 106 | 187 | 102 | 72 | 44 | 22 | 36 | 47 | 4 |
| OBT 15-50-33 | M33 | 1 $^1/_4$" | OBT 15-50-125 | 50 | 15 | 33 | 60 | 106 | 187 | 102 | 74 | 44 | 22 | 36 | 47 | 4 |
| OBT 15-50-36 | M36 | 1 $^3/_8$" | OBT 15-50-137 | 50 | 15 | 33 | 60 | 106 | 187 | 102 | 76 | 44 | 22 | 36 | 47 | 4 |
| OBT 15-90-39 | M39 | 1 $^1/_2$" | OBT 15-90-150 | 90 | 15 | 59.7 | 60 | 120 | 208 | 133 | 88 | 56 | 28 | 49 | 61 | 6 |
| OBT 15-90-42 | M42 | 1 $^5/_8$" | OBT 15-90-162 | 90 | 15 | 59.7 | 60 | 120 | 208 | 133 | 90 | 56 | 28 | 49 | 61 | 6 |
| OBT 15-90-45 | M45 | 1 $^7/_8$" | OBT 15-90-187 | 90 | 15 | 59.7 | 60 | 120 | 208 | 133 | 94 | 56 | 28 | 49 | 61 | 6 |
| OBT 15-90-48 | M48 | 1 $^7/_8$" | OBT 15-90-187 | 90 | 15 | 59.7 | 60 | 120 | 208 | 133 | 100 | 56 | 28 | 49 | 61 | 6 |
| OBT 15-90-52 | M52 | 2" | OBT 15-90-200 | 90 | 15 | 59.7 | 60 | 120 | 208 | 133 | 104 | 56 | 28 | 49 | 61 | 6 |
| OBT 15-125-48 | M48 | 1 $^7/_8$" | OBT 15-125-187 | 125 | 15 | 83 | 62 | 135 | 231 | 163 | 110 | 68 | 34 | 59 | 73 | 10 |
| OBT 15-125-52 | M52 | 2" | OBT 15-125-200 | 125 | 15 | 83 | 62 | 135 | 231 | 163 | 112 | 68 | 34 | 59 | 73 | 10 |
| OBT 15-125-56 | M56 | 2 $^1/_4$" | OBT 15-125-225 | 125 | 15 | 83 | 62 | 135 | 231 | 163 | 118 | 68 | 34 | 59 | 73 | 10 |
| OBT 15-125-60 | M60 | | | 125 | 15 | 83 | 62 | 135 | 231 | 163 | 126 | 68 | 34 | 59 | 73 | 10 |
| OBT 15-125-64 | M64 | 2 $^1/_2$" | OBT 15-125-250 | 125 | 15 | 83 | 62 | 135 | 231 | 163 | 126 | 68 | 34 | 59 | 73 | 10 |
| OBT 15-185-64 | M64 | 2 $^1/_2$" | OBT 15-185-250 | 185 | 15 | 123 | 62 | 150 | 254 | 193 | 136 | 80 | 42 | 66 | 86.5 | 15 |
| OBT 15-185-68 | M68 | | | 185 | 15 | 123 | 62 | 150 | 254 | 193 | 144 | 80 | 42 | 66 | 86.5 | 15 |
| OBT 15-185-72 | M72 | 2 $^3/_4$" | OBT 15-185-275 | 185 | 15 | 123 | 62 | 150 | 254 | 193 | 146 | 80 | 42 | 66 | 86.5 | 15 |
| OBT 15-185-76 | M76 | 3" | OBT 15-185-300 | 185 | 15 | 123 | 62 | 150 | 254 | 193 | 154 | 80 | 42 | 66 | 86.5 | 15 |
| OBT 15-265-76 | M76 | 3" | OBT 15-265-300 | 265 | 15 | 176 | 73 | 180 | 286 | 233 | 162 | 104 | 48 | 77 | 110 | 24.5 |
| OBT 15-265-80 | M80 | | | 265 | 15 | 176 | 73 | 180 | 286 | 233 | 162 | 104 | 48 | 77 | 110 | 24.5 |
| OBT 15-265-85 | M85 | 3 $^1/_4$" | OBT 15-265-325 | 265 | 15 | 176 | 73 | 180 | 286 | 233 | 174 | 104 | 48 | 77 | 110 | 24.5 |
| OBT 15-265-90 | M90 | 3 $^1/_2$" | OBT 15-265-350 | 265 | 15 | 176 | 73 | 180 | 286 | 233 | 185 | 104 | 48 | 77 | 110 | 24.5 |
| OBT 15-265-95 | M95 | 3 $^3/_4$" | OBT 15-265-375 | 265 | 15 | 176 | 73 | 180 | 286 | 233 | 200 | 104 | 48 | 77 | 110 | 24.5 |
| OBT 15-265-100 | M100 | 4" | OBT 15-265-400 | 265 | 15 | 176 | 73 | 180 | 286 | 233 | 212 | 104 | 48 | 77 | 110 | 24.5 |

- Specifications are subject to change due to continual improvement.