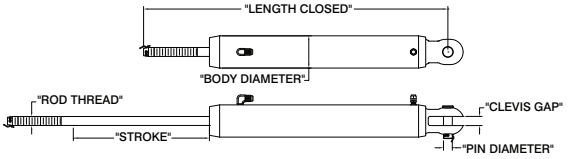
# Hydraulic Cylinders

Minimal weight. Minimal windage. Maximum reliability. Navtec standard cylinder rods are made from 316 stainless steel. Tubes, lower clevis and caps are made of black hard-coated aluminum. Cylinder bores are specially polished for longer seal life. Navtec stainless steel cylinders represent the highest standard of performance worldwide, with 316 stainless construction throughout. Standard, Long, and Flattening Reef versions are available. Titanium componentry optional.

## A250 HP Hydraulic Cylinder


| CYLINDER SIZE | MAX PULL FORCE @ RELIEF | | BODY DIAMETER | | ROD THREAD | CLEVIS PIN & GAP | |
|---|---|---|---|---|---|---|---|
| | lbs | kg | in | mm | unf 2a | in | mm |
| -6 | 3,200 | 1,450 | 1.32 | 33.5 | 7/16-20 | 7/16 | 11.1 |
| -10 | 5,800 | 2,630 | 1.66 | 42.2 | 1/2-20 | 1/2 | 12.7 |
| -12 | 7,600 | 3,450 | 2.00 | 50.8 | 5/8-18 | 5/8 | 15.9 |
| -17 | 10,900 | 4,940 | 2.25 | 57.2 | 5/8-18 | 5/8 | 15.9 |
| -22 | 13,900 | 6,300 | 2.50 | 63.5 | 3/4-16 | 3/4 | 19.1 |
| -30 | 22,100 | 10,020 | 3.25 | 82.6 | 7/8-14 | 7/8 | 22.2 |
| -40 | 32,200 | 14,610 | 4.00 | 101.6 | 1-12 | 1 | 25.4 |
| -48 | 32,200 | 14,610 | 4.00 | 101.6 | 1-12 | 1 1/8 | 28.6 |
| -60 | 42,900 | 19,460 | 4.50 | 114.3 | 1 1/4-12 | 1 1/4 | 31.8 |
| -76 | 42,900 | 19,460 | 4.50 | 114.3 | 1 1/4-12 | SEE NOTE * | |
| -90 | 57,700 | 26,170 | 5.50 | 139.7 | 1 1/4-12 | 1 3/8 | 34.9 |
| -110 | 73,200 | 33,200 | 6.00 | 152.4 | 1 3/8-12 | 1 1/2 | 38.1 |
| -150 | 90,600 | 41,100 | 7.00 | 177.8 | 1 1/2-12 | 1 3/4 | 44.5 |

Max relief setting is 5,000 psi.

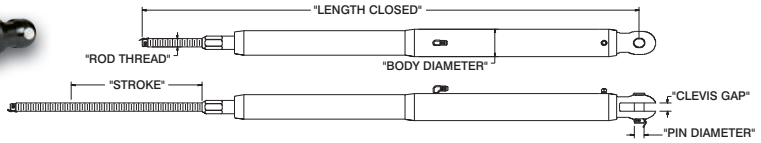
## A250 Cylinders

| PART NUMBER | STROKE | | LENGTH CLOSED | | WEIGHT STD ALUMINUM | |
|---|---|---|---|---|---|---|
| | in | mm | in | mm | lbs | kg |
| A250-SE-006 | 9.0 | 229 | 18.7 | 474 | 1.9 | 0.86 |
| A250-LE-006 | 13.5 | 343 | 23.2 | 589 | 2.3 | 1.04 |
| A250-FE-006 | 20.2 | 513 | 29.9 | 759 | 3.2 | 1.44 |
| A250-SE-010 | 9.0 | 229 | 19.5 | 495 | 2.7 | 1.24 |
| A250-LE-010 | 13.5 | 343 | 24.0 | 609 | 3.3 | 1.49 |
| A250-FE-010 | 20.0 | 509 | 31.1 | 789 | 5.0 | 2.27 |
| A250-SE-012 | 9.5 | 241 | 21.1 | 536 | 4.4 | 2.01 |
| A250-LE-012 | 14.2 | 361 | 25.8 | 656 | 5.6 | 2.54 |
| A250-FE-012 | 24.1 | 611 | 36.1 | 916 | 8.6 | 3.92 |
| A250-SE-017 | 9.5 | 241 | 21.2 | 539 | 5.1 | 2.31 |
| A250-LE-017 | 14.2 | 361 | 25.9 | 659 | 6.3 | 2.84 |
| A250-FE-017 | 30.0 | 763 | 42.9 | 1090 | 10.7 | 4.87 |
| A250-SE-022 | 10.0 | 254 | 23.2 | 589 | 7.2 | 3.26 |
| A250-LE-022 | 15.0 | 381 | 28.2 | 717 | 8.6 | 3.89 |
| A250-FE-022 | 35.0 | 890 | 49.4 | 1255 | 15.4 | 6.99 |
| A250-SE-030 | 11.0 | 279 | 26.6 | 675 | 12.6 | 5.71 |
| A250-LE-030 | 16.5 | 419 | 32.1 | 814 | 15.4 | 6.98 |
| A250-FE-030 | 40.0 | 1016 | 56.4 | 1433 | 30.0 | 13.61 |
| A250-SE-040 | 12.0 | 305 | 28.6 | 726 | 20.3 | 9.22 |
| A250-LE-040 | 18.0 | 457 | 34.6 | 879 | 24.8 | 11.26 |
| A250-FE-040 | 45.2 | 1148 | 63.2 | 1606 | 44.0 | 19.96 |
| A250-SE-048 | 12.0 | 305 | 28.8 | 733 | 20.9 | 9.48 |
| A250-LE-048 | 18.0 | 457 | 34.8 | 885 | 25.4 | 11.52 |
| A250-SE-060 | 13.9 | 353 | 32.5 | 827 | 33.0 | 14.97 |
| A250-LE-060 | 21.0 | 533 | 39.7 | 1007 | 38.0 | 17.24 |
| A250-SE-076 | 15.0 | 381 | 34.0 | 863 | 35.8 | 16.24 |
| A250-LE-076 | 22.5 | 572 | 41.5 | 1054 | 42.9 | 19.46 |
| A250-SE-090 | 16.0 | 406 | 36.1 | 917 | 50.0 | 22.68 |
| A250-LE-090 | 24.0 | 609 | 44.1 | 1120 | 61.4 | 27.85 |
| A250-SE-110 | 18.0 | 457 | 40.2 | 1022 | 67.5 | 30.62 |
| A250-LE-110 | 27.0 | 686 | 49.2 | 1250 | 82.0 | 37.19 |
| A250-SE-150 | 18.0 | 457 | 41.7 | 1060 | 97.5 | 44.23 |
| A250-LE-150 | 27.0 | 686 | 50.7 | 1288 | 117.0 | 53.07 |

SE = standard cylinder, LE = long cylinder, FE = flattening reef cylinder. For stainless steel option, add (S) to end of any above part number. Example: A250SSE-010.
Nutted pins standard -60 and above, nutted pins available on smaller sizes. Other custom cylinder configurations available. * PIN = 1 1/4 (31.8mm), GAP = 1 5/16 (33.3mm).

## A260 Mechanical Lock Hydraulic Cylinder Specifications

The Mechanical Lock allows the release of hydraulic pressure on the backstay cylinder while maintaining tension. However, there is no relief valve protection, as backstay tension is mechanically locked, not hydraulically controlled. This is useful for extended passages.




| CYLINDER SIZE | LENGTH CLOSED | | WEIGHT STD ALUMINUM | |
|---|---|---|---|---|
| | in | mm | lbs | kg |
| A260-SE-006 | 32.2 | 818 | 3.6 | 1.63 |
| A260-LE-006 | 41.2 | 1046 | 4.1 | 1.84 |
| A260-SE-010 | 32.9 | 836 | 5.0 | 2.27 |
| A260-LE-010 | 41.9 | 1065 | 6.4 | 2.88 |
| A260-SE-012 | 35.6 | 904 | 8.2 | 3.74 |
| A260-LE-012 | 44.8 | 1138 | 10.5 | 4.76 |
| A260-SE-017 | 35.7 | 907 | 8.9 | 4.04 |
| A260-LE-017 | 45.1 | 1146 | 11.1 | 5.03 |
| A260-SE-022 | 37.7 | 957 | 12.4 | 5.62 |
| A260-LE-022 | 47.7 | 1211 | 15.2 | 6.89 |
| A260-SE-030 | 42.9 | 1089 | 21.4 | 9.71 |
| A260-LE-030 | 53.4 | 1357 | 26.6 | 12.07 |
| A260-SE-040 | 47.0 | 1194 | 32.6 | 14.79 |
| A260-LE-040 | 59.0 | 1499 | 40.4 | 18.33 |
| A260-SE-048 | 47.2 | 1200 | 33.2 | 15.06 |
| A260-LE-048 | 59.2 | 1505 | 41.0 | 18.60 |
| A260-SE-060 | 54.4 | 1381 | 51.4 | 23.31 |
| A260-LE-060 | 68.4 | 1737 | 64.0 | 29.03 |
| A260-SE-076 | 57.3 | 1454 | 54.9 | 24.90 |
| A260-LE-076 | 72.4 | 1838 | 67.5 | 30.62 |
| A260-SE-090 | 60.8 | 1544 | 81.0 | 36.74 |
| A260-LE-090 | 76.4 | 1941 | 97.0 | 44.00 |
| A260-SE-110 | 66.9 | 1698 | 119.8 | 54.33 |
| A260-LE-110 | 84.9 | 2155 | 145.0 | 65.77 |
| A260-SE-150 | 70.6 | 1792 | 158.9 | 72.06 |

See HP cylinder information for all other technical data.
Nutted pins standard -60 and above, nutted pins available on smaller sizes.
For stainless steel option, add (S) to any above part number. Example: A260SSE-010.

## Cylinder Terminals

### H120 Fixed Clevis

The H120 screws onto the cylinder piston rod, but does not provide length adjustment.

### J100 Eye/Jaw Toggle

Used at the lower end of the cylinder to prevent excessive side loads. Frequently used on backstay and inner forestay cylinders.

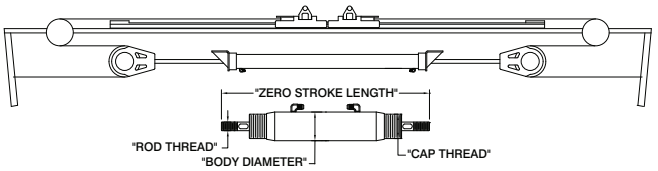
**J100 Eye/Jaw Toggle**

**H120 Fixed Clevis**

| CYLINDER SIZE | PISTON ROD SIZE | | PIN DIAMETER | | FIXED CLEVIS PART NUMBER | FIXED CLEVIS LENGTH | | EYE JAW TOGGLE PART NUMBER | EYE JAW TOGGLE LENGTH | |
|---|---|---|---|---|---|---|---|---|---|---|
| | in | mm | in | mm | | in | mm | | in | mm |
| -6 | 7/16 | 11 | 7/16 | 11 | H120-141414 | 1.00 | 25 | J100-1414 | 2.00 | 51 |
| -10 | 1/2 | 13 | 1/2 | 13 | H120-161616 | 1.25 | 32 | J100-1616 | 2.20 | 56 |
| -12/-17 | 5/8 | 16 | 5/8 | 16 | H120-202020 | 1.31 | 33 | J100-2020 | 2.50 | 64 |
| -22 | 3/4 | 19 | 3/4 | 19 | H120-242424 | 1.38 | 35 | J100-2424 | 2.90 | 74 |
| -30 | 7/8 | 22 | 7/8 | 22 | H120-282828 | 1.50 | 38 | J100-2828 | 3.30 | 84 |
| -40 | 1 | 25 | 1 | 25 | H120-323232 | 1.50 | 38 | J100-3232 | 3.69 | 94 |
| -48 | 1 | 25 | 1 1/8 | 29 | H120-323636 | 1.75 | 44 | J100-3636 | 4.10 | 104 |
| -60 | 1 1/4 | 32 | 1 1/4 | 32 | H120-404040 | 2.50 | 64 | J100-4040 | 4.50 | 114 |
| -76 | 1 1/4 | 32 | 1 1/4 | 32 | H120-404040 | 2.50 | 64 | J100-4040 | 4.50 | 114 |
| -90 | 1 1/4 | 32 | 1 3/8 | 35 | H120-404444 | 2.50 | 64 | J100-4444 | 5.60 | 142 |
| -110 | 1 3/8 | 35 | 1 1/2 | 38 | H120-444848 | 3.04 | 77 | J100-4848 | 6.20 | 157 |
| -150 | 1 1/2 | 38 | 1 3/4 | 44 | H120-485656 | 3.43 | 87 | J100-5656 | 7.50 | 191 |

## A254 Hydraulic Traveler Cylinders

Navtec double rod cylinders were engineered and designed by Navtec for use in dual pull application, usually with a block and tackle incorporated. Navtec originally engineered these cylinders as a solution to operate main sheet travellers. They are also commonly used to operate genoa lead systems as well as many custom applications. Navtec will work with any marine hardware manufacturer to provide a cylinder that interfaces with their hardware to operate any double acting needs.




| CYLINDER SIZE | CAP THREAD | ZERO STROKE LENGTH | | WEIGHT STD ALUMINUM | |
|---|---|---|---|---|---|
| | unf 2a | in | mm | lbs +lbs/in stroke | kg +kg/cm stroke |
| -6 | 1 1/8-16 | 11.9 | 301 | 1.2 + .1 | .55 + .02 |
| -10 | 1 7/16-16 | 13.4 | 341 | 2.2 + .1 | .97 + .02 |
| -12 | 1 5/8-16 | 14.8 | 377 | 3.5 + .2 | 1.58 + .04 |
| -17 | 1 7/8-16 | 15.1 | 384 | 4.3 + .2 | 1.93 + .04 |
| -22 | 2 1/8-16 | 18.1 | 461 | 6.7 + .3 | 3.02 + .05 |
| -30 | 2 5/8-16 | 18.9 | 481 | 11.1 + .5 | 5.02 + .09 |
| -40 | 3 1/4-16 | 20.6 | 522 | 18.2 + .8 | 8.22 + .13 |
| -48 | 3 1/4-16 | 20.6 | 522 | 18.1 + .8 | 8.22 + .13 |
| -60 | 3 3/4-16 | 22.9 | 582 | 27.3 + 1.0 | 12.37 + .17 |
| -76 | 3 3/4-16 | 22.9 | 582 | 27.2 + 1.0 | 12.36 + .17 |
| -90 | 4 3/8-8 | 32.7 | 830 | 44.3 + 1.5 | 20.10 + .27 |
| -110 | 4 7/8-8 | 33.2 | 843 | 64.8 + 1.7 | 29.39 + .30 |
| -150 | 5 3/8-8 | 35.2 | 895 | 89.6 + 2.6 | 40.65 + .47 |

Max relief setting is 5,000 psi. See HP cylinder information for all other technical data. Cylinders are designed on an individual basis. Specify desired stroke when ordering. Overall cylinder length equals zero stroke length plus two times the desired stroke.

Lewmar blocks are the ideal choice for the control lines leading from your A254 Cylinder to the traveler car. The chart below lists the adapters that allow you to connect Lewmar blocks directly to the Navtec cylinder rods on your A254 Cylinder. Please contact Navtec or Lewmar for help picking the exact blocks needed to drive your traveler car.

| LEWMAR ADAPTOR PART NUMBER | RAM SIZE | ROD THD | BLOCK SIZE | LEWMAR BLOCK PART NUMBER | MAX SYSTEM PRESSURE |
|---|---|---|---|---|---|
| 29914080 | -6 | 7/16 RH | 60mm | 29942601 | 5000PSI / 350 Bar |
| 29914081 | -10 | 1/2 RH | 80mm | 29942801 / 29902808 | 5000PSI / 350 Bar |
| 29914082 | -12 | 5/8 RH | 105mm | 29902108 | 5000PSI / 350 Bar |
| 29914083 | -17 | 5/8 RH | 130mm | 29902138 | 5000PSI / 350 Bar |
| 29914084 | -22 | 3/4 RH | 130mm | 29902138 | 5000PSI / 350 Bar |
| 29914085 | -30 | 7/8 RH | 130mmHL | 29912101 | 5000PSI / 350 Bar |
| 29914086 | -10 | 1/2 RH | 60mm | 29942601 | 3000PSI / 250Bar |
| 29914087 | -12 | 5/8 RH | 80mm | 29942801 / 29902808 | 3000PSI / 250Bar |
| 29914088 | -17 | 5/8 RH | 105mm | 29902108 | 3000PSI / 250Bar |
| 29914089 | -22 | 3/4 RH | 130mm | 29902138 | 3000PSI / 250Bar |
| 29914090 | -30 | 7/8 RH | 130mm | 29902138 | 3000PSI / 250Bar |

| LEWMAR ADAPTOR PART NUMBER | RAM SIZE | ROD THD | BLOCK SIZE | LEWMAR BLOCK PART NUMBER | MAX SYSTEM PRESSURE |
|---|---|---|---|---|---|
| 29914091 | -6 | 7/16 LH | 60mm | 29942601 | 5000PSI / 350 Bar |
| 29914092 | -10 | 1/2 LH | 80mm | 29942801 / 29902808 | 5000PSI / 350 Bar |
| 29914093 | -12 | 5/8 LH | 105mm | 29902108 | 5000PSI / 350 Bar |
| 29914094 | -17 | 5/8 LH | 130mm | 29902138 | 5000PSI / 350 Bar |
| 29914095 | -22 | 3/4 LH | 130mm | 29902138 | 5000PSI / 350 Bar |
| 29914096 | -30 | 7/8 LH | 130mmHL | 29912101 | 5000PSI / 350 Bar |
| 29914097 | -10 | 1/2 LH | 60mm | 29942601 | 3000PSI / 250Bar |
| 29914098 | -12 | 5/8 LH | 80mm | 29942801 / 29902808 | 3000PSI / 250Bar |
| 29914099 | -17 | 5/8 LH | 105mm | 29902108 | 3000PSI / 250Bar |
| 29914100 | -22 | 3/4 LH | 130mm | 29902138 | 3000PSI / 250Bar |
| 29914101 | -30 | 7/8 LH | 130mm | 29902138 | 3000PSI / 250Bar |

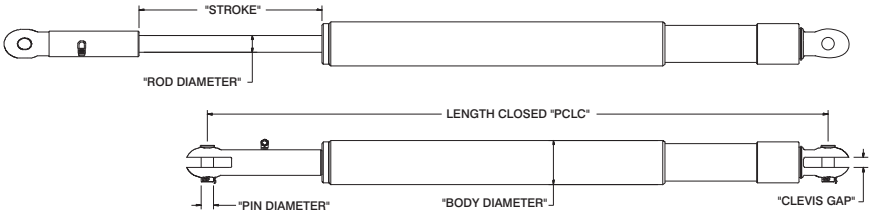
## A270 Hydraulic Mast Jack Cylinders

The lightweight, compact A270 Mast Jack is the ultimate tool for achieving the high rigging tension preloads in today's yacht. The jack may be permanently installed or used on a removable basis for additional weight savings. The jack may be used at 5,000 psi / 7,500 psi with a Navtec panel, or at 10,000 psi with an industrial pump.


| CYLINDER SIZE | MAX LOAD @ 5,000 PSI | | MAX LOAD @ 10,000 PSI | | STROKE | | LENGTH CLOSED | | BODY DIAMETER | | WEIGHT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lbs | kg | lbs | kg | in | mm | in | mm | in | mm | lbs | kg |
| -12 | 9,200 | 4,170 | 18,400 | 8,350 | 3.0 | 76 | 6.7 | 170 | 2.8 | 70 | 3.0 | 1.4 |
| -40 | 20,000 | 9,070 | 40,000 | 18,140 | 3.0 | 76 | 8.2 | 208 | 4.0 | 102 | 10.0 | 4.5 |
| -70 | 35,000 | 15,880 | 70,000 | 31,750 | 3.5 | 89 | 9.6 | 244 | 5.3 | 135 | 17.0 | 7.7 |
| -125 | 62,500 | 28,350 | 125,000 | 56,700 | 4.0 | 102 | 11.4 | 290 | 7.0 | 178 | 29.0 | 13.2 |

## A850 Hydraulic Vang Cylinder

Navtec's Series 850 Vang features an extra-large piston rod to resist buckling with no tackle to clutter the deck layout. It also provides boom lift in light airs and acts as a topping lift when the sail is flaked. The A850 can be integrated with an A440 Push Button Quick Release Valve, proving the ability to instantaneously dump the vang when required.




| VANG SIZE | MAX PULL FORCE @ RELIEF | | RETURN FORCE | | ROD DIAMETER | | CLEVIS PIN & GAP | |
|---|---|---|---|---|---|---|---|---|
| | lbs | kg | lbs | kg | in | mm | in | mm |
| -6 | 1,935 | 880 | 475 | 220 | 5/8 | 15.9 | 7/16 | 11.1 |
| -10 | 3,785 | 1,720 | 815 | 370 | 3/4 | 19.1 | 1/2 | 12.7 |
| -12 | 5,100 | 2,310 | 1,100 | 500 | 7/8 | 22.2 | 5/8 | 15.9 |
| -17 | 7,010 | 3,180 | 1,490 | 680 | 1 | 25.4 | 5/8 | 15.9 |
| -22 | 10,265 | 4,660 | 1,935 | 880 | 1 | 25.4 | 5/8 | 15.9 |
| -30 | 15,890 | 7,210 | 3,010 | 1,370 | 1 1/4 | 31.8 | 3/4 | 19.1 |
| -40 | 25,670 | 11,640 | 4,330 | 1,960 | 1 1/4 | 31.8 | 7/8 | 22.2 |
| -60 | 34,320 | 15,570 | 5,880 | 2,670 | 1 1/2 | 38.1 | 1 | 25.4 |
| -90 | 42,340 | 19,210 | 7,660 | 3,470 | 1 7/8 | 47.6 | 1 1/4 | 31.8 |
| -110 | 53,220 | 24,140 | 9,680 | 4,390 | 2 1/8 | 54.0 | 1 3/8 | 34.9 |
| -150 | 65,370 | 29,650 | 11,930 | 5,410 | 2 3/8 | 60.3 | 1 1/2 | 38.1 |
| -195 | 84,520 | 38,340 | 15,580 | 7,070 | 2 3/4 | 69.9 | 1 3/4 | 44.5 |
| -260 | 109,090 | 49,480 | 20,110 | 9,120 | 3 1/8 | 79.4 | 2 | 50.8 |
| -400 | 168,400 | 76,380 | 30,400 | 13,790 | 3 3/4 | 95.3 | 2 5/8 | 66.7 |

| PART NUMBER | | STROKE | | AVAILABLE PCLC | | AVAILABLE PCLC | |
|---|---|---|---|---|---|---|---|
| STANDARD VANG | POSITION-INDICATING | | | MIN | | MAX | |
| | | in | mm | in | mm | in | mm |
| A850-VC-006 | N/A | 9.00 | 228.6 | 46 | 1168 | 60 | 1524 |
| A850-VC-010 | N/A | 9.00 | 228.6 | 55 | 1397 | 72 | 1829 |
| A850-VC-012 | N/A | 9.50 | 241.3 | 55 | 1397 | 89 | 2261 |
| A850-VC-017 | A850-PI-017 | 9.50 | 241.3 | 56 | 1422 | 100 | 2540 |
| A850-VC-022 | A850-PI-022 | 10.00 | 254.0 | 58 | 1473 | 104 | 2642 |
| A850-VC-030 | A850-PI-030 | 11.00 | 279.4 | 61 | 1549 | 107 | 2718 |
| A850-VC-040A | A850-PI-040A | 12.00 | 304.8 | 70 | 1778 | 150 | 3810 |
| A850-VC-060C | A850-PI-060A | 14.00 | 355.6 | 78 | 1981 | 175 | 4445 |
| A850-VC-090C | A850-PI-090A | 16.00 | 406.4 | 85 | 2159 | 185 | 4699 |
| A850-VC-110B | A850-PI-110 | 18.00 | 457.2 | 90 | 2286 | 190 | 4826 |
| A850-VC-150A | A850-PI-150 | 18.00 | 457.2 | 99 | 2515 | 195 | 4953 |
| A850-VC-195 | A850-PI-195 | 18.00 | 457.2 | 110 | 2794 | 360 | 9144 |
| A850-VC-260 | A850-PI-260 | 18.00 | 457.2 | 98 | 2489 | 360 | 9144 |

## Position-Indicating Vang Electrical

Originally developed for super yachts, this unique feature is now available on all Navtec vangs down to -22. The position indicating unit is essential for achieving the correct angle for the new furling booms that have become common on boats from 50 feet and up. The Position Indicating Vang can be interfaced with most marine electronics.

| | | in | cm |
|---|---|---|---|
| CABLE LENGTH | | 78.74 | 200 |
| | | | |
| RESISTANCE (KΩ) | | 44 | total span |
| | | | |
| RESISTIVE TOLERANCE | | +/-20% | |
| | | | |
| ACCURACY | | STD | BEST |
| | mm | +/-.38 | +/-.75 |
| | in | +/-.015 | +/-.030 |
| | | | |
| POWER RATING (watts) | | 5.5 @ 70°C | 0 @ 125°C |
| | | | |
| OPERATING RANGE | | MIN | MAX |
| | °C | -40 | 125 |
| | °F | -40 | 257 |

## A950 Hydraulic Super Yacht Vang (Carbon)

The Navtec Carbon Fiber Superyacht Vang delivers the same performance, reliability, and quality that owners and designers have come to rely on from the Aluminum and Stainless Steel models, but with a substantial weight saving. The longer the vang, the larger the weight saving, resulting in an easier vang to install and maintain.

| PART NUMBER | STROKE | | AVAILABLE PCLC | | AVAILABLE PCLC | |
|---|---|---|---|---|---|---|
| Carbon P/P PI | | | MIN | | MAX | |
| | in | mm | in | mm | in | mm |
| A950-PI-PP-090 | 16.00 | 406.4 | 88 | 2235 | 192 | 4877 |
| A950-PI-PP-110 | 18.00 | 457.2 | 94 | 2388 | 198 | 5029 |
| A950-PI-PP-150 | 18.00 | 457.2 | 100 | 2540 | 220 | 5588 |
| A950-PI-PP-195 | 18.00 | 457.2 | 100 | 2540 | 220 | 5588 |
| A950-PI-PP-260 | 20.67 | 525.0 | 105 | 2667 | 284 | 7214 |
| A950-PI-PP-400 | 20.67 | 525.0 | 114 | 2896 | 300 | 7620 |

- Substantial weight saving over Aluminum and Stainless Steel models
- Seamless, tapered, one-piece tube
- Smaller overall diameter than Aluminum and Stainless Steel models
- Carbon fiber weave or bespoke painted finish
- Available with push/pull or gas return options
- Position indicating feature available on request
- Both hydraulic connections for push/pull vang in oil jaw
- Custom clevis designs available for streamline connections

## A850 Hydraulic Super Yacht Vang (Alloy)

The Navtec Alloy Hydraulic Superyacht Vang features a coaxial feed through the rod so both the push and pull hydraulic connections are located on the oil jaw. In addition, the A850 Vang can be equipped with the position indication function, to ensure that the correct angle for the furling boom is achieved.

| PART NUMBER | STROKE | | AVAILABLE PCLC | | AVAILABLE PCLC | |
|---|---|---|---|---|---|---|
| Alloy P/P PI | | | MIN | | MAX | |
| | in | mm | in | mm | in | mm |
| A850-PI-PP-090 | 16.00 | 406.4 | 88 | 2235 | 185 | 4699 |
| A850-PI-PP-110 | 18.00 | 457.2 | 94 | 2388 | 190 | 4826 |
| A850-PI-PP-150 | 18.00 | 457.2 | 96 | 2438 | 195 | 4953 |
| A850-PI-PP-195 | 18.00 | 457.2 | 98 | 2489 | 360 | 9144 |
| A850-PI-PP-260 | 18.00 | 457.2 | 105 | 2667 | 360 | 9144 |
| A850-PI-PP-400 | 19.00 | 482.6 | 99 | 2515 | 360 | 9144 |

## Carbon Wrap Cylinders

The Navtec Carbon Wrap Cylinder complements the style aesthetic of the A950 Carbon Fiber Superyacht Vang. A thin carbon veneer tube is applied to an A250 Cylinder resulting in the same carbon finish as the larger superyacht vang. For the specification of the A250 Cylinder, including the pull force, pin size, and rod size, please see page 79.

Navtec carbon wrap cylinders - A complimentary style aesthetic