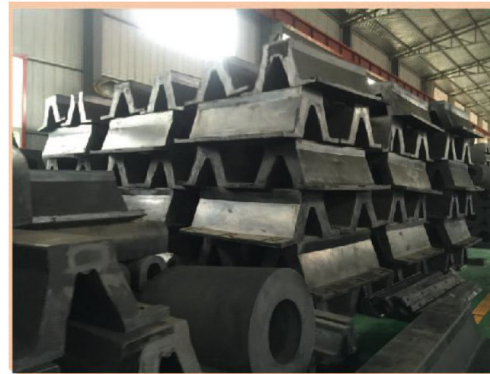


Fenders Buoys



Yacht Buoys Steel Mooring Buoys
 Rubber Fenders Marine Rubber Airbags

EVA Material
PVC Material



Yokohama Fenders
 Foam Filled Fenders
 Yacht Buoys
 Rubber Fenders
 Yacht Fenders

Steel Mooring Buoys
 Navigation Buoys
 Surface Buoys

Marine Rubber Airbags
 Water/Air Lifting Bag
 Fishing Float Buoys



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Pneumatic Rubber Fender

The inflatable rubber fender ball uses compressed air as a buffer medium to absorb the impact energy of the ship, so that the ship has more flexibility and softness when docked, so as to achieve the anti-collision, anti-collision and anti-avoidance effects. Therefore, it is widely used for ship-to-ship transfer operations and ship berthing operations. Compared with the traditional elastic rubber fender, the inflatable fender has the following advantages.

point

1. The impact energy is large, and the impact force on the ship is small;
2. the installation is simple
3. good elasticity, will not deform under the action of compression;
4. light weight, practical economy
5. tilting pressure performance will not decrease

Inflatable rubber fender (by ball) performance, weight table

| specification | | Performance (compression deformation 60% initial pressure) | | Performance (compression deformation 60% initial pressure) | | Weight KG | | |
|------------------|----------------|--|--------------------------|--|--------------------------|-----------|------------|-----------------|
| diameter (mm) | length (mm) | reaction force kn | absorb energy KN-M | reaction force kn | absorb energy KN-M | body | protection | total weight |
| 500 | 1000 | 64 | 6 | 85 | 7 | 23 | -- | 23 |
| 600 | 1000 | 74 | 8 | 98 | 8 | 28 | -- | 28 |
| 700 | 1500 | 137 | 17 | 180 | 26 | 58 | -- | 58 |
| 1000 | 1500 | 182 | 32 | 239 | 38 | 82 | 100 | 182 |
| 1000 | 2000 | 257 | 45 | 338 | 52 | 148 | 152 | 300 |
| 1200 | 2000 | 297 | 63 | 390 | 67 | 167 | 200 | 367 |
| 1350 | 2500 | 427 | 102 | 561 | 98 | 220 | 298 | 518 |
| 1500 | 3000 | 579 | 153 | 761 | 172 | 318 | 450 | 768 |
| 1700 | 3000 | 639 | 191 | 840 | 190 | 380 | 482 | 862 |
| 2000 | 3500 | 875 | 308 | 1150 | 332 | 580 | 890 | 1470 |
| 2000 | 4000 | 1008 | 529 | 1589 | 384 | 680 | 1000 | 1680 |
| 2500 | 4000 | 1381 | 663 | 1815 | 698 | 1064 | 1180 | 2244 |
| 2500 | 5500 | 2019 | 943 | 2653 | 880 | 1268 | 1380 | 2648 |
| 3000 | 5000 | 2422 | 1357 | 2713 | 1078 | 1980 | 2388 | 4368 |
| 3000 | 6000 | 2906 | 1628 | 3105 | 1309 | 2400 | 2690 | 5090 |
| 3300 | 4500 | 1884 | 1175 | 2476 | 1640 | 2380 | 2617 | 4997 |
| 3300 | 6000 | 2783 | 1675 | 3652 | 2338 | 2652 | 2814 | 5466 |
| 3300 | 6500 | 3015 | 1814 | 3961 | 2532 | 2980 | 3000 | 5980 |

Remark:

1. reaction force and energy absorption tolerance $\pm 10\%$.
2. product body weight and protection weight tolerance $\pm 10\%$
3. special size can be customized as requested
4. hot-dip galvanizing and anti-rust treatment





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Foam Filled Fender

Solid polyurethane floating fender

The ball is a kind of lightweight elastic and elastic.
It is better than the inflatable fender as a buffering medium.
It is widely used in ports, offshore, and ship-to-ship operations.

Floating performance, and the installation position is not affected by the tolerance.

Maintenance-free, there is no danger of blasting, and it is safe.

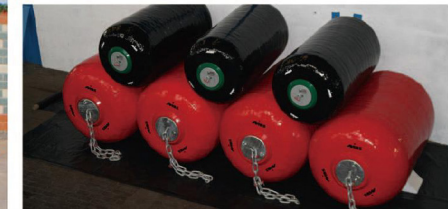
Better energy absorption performance and lower reaction performance

Surface of the fender can be applied in a variety of colors, the product is smooth and beautiful

| 直径×长度 Diameter×Length | 反作用力 Reaction Force At GEA (kN) | 吸能量 Guaranteed Energy Absorption GEA (kNm) | 重量 Weight (kg) | | |
|--------------------------|---------------------------------------|---|--------------------------|-----------|-------------|
| | | | 球体 Approx Fender Body | 护套 Net | 合计 Total |
| 300×500 | 19 | 1.8 | 5 | | 5 |
| 400×800 | 40 | 7 | 9 | | 9 |
| 500×1000 | 48 | 9 | 15 | | 15 |
| 600×1000 | 107 | 15 | 25 | | 25 |
| 700×1500 | 133 | 26 | 96 | | 96 |
| 1000×1500 | 173 | 47 | 108 | 197 | 305 |
| 1000×2000 | 254 | 68 | 263 | 171 | 434 |
| 1200×2000 | 280 | 91 | 378 | 248 | 626 |
| 1350×2500 | 418 | 152 | 600 | 298 | 898 |
| 1500×3000 | 578 | 232 | 890 | 490 | 1380 |
| 1700×3000 | 618 | 282 | 1140 | 510 | 1650 |
| 2000×3000 | 891 | 416 | 840 | 760 | 1600 |
| 2000×3500 | 845 | 454 | 1845 | 890 | 2735 |
| 2000×4000 | 1005 | 540 | 2100 | 1000 | 3100 |
| 2500×5000 | 1856 | 1082 | 2170 | 1450 | 3620 |
| 2500×5500 | 2041 | 1191 | 2325 | 2100 | 4425 |
| 2500×4000 | 1197 | 818 | 3297 | 1180 | 4477 |
| 3000×5000 | 1810 | 1460 | 5988 | 2388 | 8376 |
| 3000×6000 | 2295 | 1851 | 7188 | 2690 | 9878 |
| 3300×6500 | 3184 | 2452 | 4000 | 3100 | 7100 |

Remark:

1. reaction force and energy absorption tolerance $\pm 10\%$.
2. product body weight and protection weight tolerance $\pm 10\%$
3. special size can be customized as requested
4. hot-dip galvanizing and anti-rust treatment





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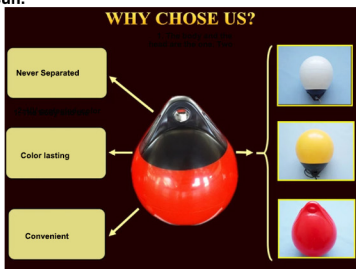
Yacht Buoys

PVC fender also called Boat buoy , it's a kind of compressed fender which builds our protective layer with polyure materials and adopts polyurethane foaming material plastic foaming as buffer medium: The destructive effects on dock and ships will be reduced by the compression to absorb the impact energy from ships in the course of using PVC fender. It is a new kind synthetic polymer whose performance has both advantages of plastic and rubber .

high quality PVC raw material, environmental non-toxic, anti-aging, Corrosion resistance to seawater. We added the UV resistance material, Sunscreen and will not fade even long time exposure to the sun.



| item# | length*dia*hole cm | thickness | pcs/carton | carton size cm |
|--------|-----------------------|-----------|------------|-------------------|
| A23 | 23*29*2.6 | 3.8mm | 10 | 65*45*50 |
| A29 | 29*37*2.7 | 3.8mm | 10 | 70*45*60 |
| A38 | 38*48*3.7 | 3.8mm | 6 | 70*45*60 |
| A40 | 40*55*3.7 | 3.8mm | 6 | 70*45*60 |
| A45 | 45*60*3.7 | 3.8mm | 5 | 70*45*60 |
| A48 | 48*68*3.7 | 3.8mm | 4 | 70*45*60 |
| A55 | 55*73*3.7 | 3.8mm | 4 | 70*45*60 |
| A65 | 65*85*3.7 | 3.8mm | 4 | 70*45*60 |
| A75 | 75*90*3.7 | 3.8mm | 4 | 70*45*60 |
| A95 | 95*110*3.7 | 3.8mm | 3 | 70*45*60 |
| A100 | 100*112*3.7 | 3.8mm | 3 | 70*45*60 |
| F4015 | 40*15*2 | 3.8mm | 20 | 40*40*32 |
| F4211 | 42*11*1.2 | 3.8mm | 20 | 42*40*29 |
| F5114 | 51*14*1.4 | 3.8mm | 10 | 46*50*21 |
| F6216 | 62*16*2.2 | 3.8mm | 10 | 60*43*29 |
| F7220 | 72*20*2.6 | 3.8mm | 10 | 70*51*29 |
| F9530 | 95*30*2.7 | 3.8mm | 4 | 60*49*50 |
| F9835 | 98*35*2.7 | 3.8mm | 4 | 60*49*50 |
| F9840 | 98*40*2.7 | 3.8mm | 4 | 60*49*50 |
| F10424 | 104*24*3 | 3.8mm | 6 | 70*51*29 |



| item# | cylindrical | imperial | water injection | thickness | carton size cm |
|-------|-----------------------|-----------|-----------------|-----------|-------------------|
| | length*dia*hole cm | inch | LBS | | |
| L1 | 47*20*3 | 8"*19" | 24 | 3-3.5mm | 47*32*27cm/5 pcs |
| L2 | 60*28*3 | 11.5"*24" | 48 | 3-3.5mm | 56*39*30cm/5 pcs |
| L3 | 75*33*3.5 | 13.5"*29" | 86 | 3-3.5mm | 70*50*23cm/5 pcs |
| L4 | 96*37*3.5 | 15"*37" | 153 | 3-3.5mm | 70*51*29cm/4 pcs |





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Steel Mooring Buoys

The Steel Mooring Buoys offer safe, durable mooring operations and ensure efficient space usage.

The Steel Mooring Buoys are specially designed for the mooring of vessels in the most economical way.



| | | | | | | |
|------|------------|------------|------|----|------|----------|
| 3 | Φ 2x1.74 | Φ 62 | Φ 45 | 4 | Φ 90 | € 2000 |
| 6 | Φ 2.6x2.27 | Φ 72 | Φ 45 | 6 | Φ 90 | € 5000 |
| 9 | Φ 3.6x2.14 | Φ 90-Φ 100 | Φ 50 | 8 | Φ 14 | € 10000 |
| 28.5 | Φ 5x3.4 | Φ 122 | Φ 60 | 12 | Φ 14 | € 12000 |
| 31.2 | Φ 5.5x3.0 | | | | | € 100000 |
| 34.2 | Φ 6.0x3.2 | | | | | € 150000 |

