

## NANHAI PNEUMATIC FENDER (50KPA)

NANHAI is the international leading pneumatic fender manufacturer with 20 years in pneumatic fender production. **NANHAI Pneumatic Fender** design and manufacture according to ISO 17357-1:20147 "**Superior Guarantee, Supreme Guard**"



### 50kPa Pneumatic Fender Size and Performance Requirements

| Nominal size |        | INTERNAL PRESSURE 50kP at 60% deflection |                   |                  | Safety-valve<br>pressure<br>setting | Testing<br>pressure |
|--------------|--------|------------------------------------------|-------------------|------------------|-------------------------------------|---------------------|
| Diameter     | Length | Energy<br>absorption                     | Reaction<br>force | Hull<br>pressure |                                     |                     |
| mm           | mm     | kN·m                                     | kN                | kPa              | kPa                                 | kPa                 |
| 500          | 1000   | 6                                        | 64                | 132              | —                                   | 200                 |
| 600          | 1000   | 8                                        | 74                | 126              | —                                   | 200                 |
| 700          | 1500   | 17                                       | 137               | 135              | —                                   | 200                 |
| 1000         | 1500   | 32                                       | 182               | 122              | —                                   | 200                 |
| 1000         | 2000   | 45                                       | 257               | 132              | —                                   | 200                 |
| 1200         | 2000   | 63                                       | 297               | 126              | —                                   | 200                 |
| 1350         | 2500   | 102                                      | 427               | 130              | —                                   | 200                 |
| 1500         | 3000   | 153                                      | 579               | 132              | —                                   | 200                 |
| 1700         | 3000   | 191                                      | 639               | 128              | —                                   | 200                 |
| 2000         | 3500   | 308                                      | 875               | 128              | —                                   | 200                 |
| 2500         | 4000   | 663                                      | 1381              | 137              | 175                                 | 250                 |
| 2500         | 5500   | 943                                      | 2019              | 148              | 175                                 | 250                 |
| 3000         | 6000   | 1309                                     | 2387              | 148              | 175                                 | 250                 |
| 3300         | 4500   | 1175                                     | 1884              | 130              | 175                                 | 250                 |
| 3300         | 6500   | 1814                                     | 3015              | 146              | 175                                 | 250                 |
| 3300         | 10600  | 3067                                     | 5257              | 158              | 175                                 | 250                 |
| 4500         | 9000   | 4752                                     | 5747              | 146              | 175                                 | 250                 |
| 4500         | 12000  | 6473                                     | 7984              | 154              | 175                                 | 250                 |

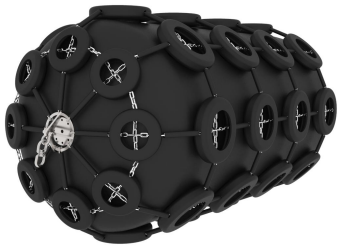
SHANDONG NANHAI AIRBAG ENGINEERING CO.,LTD.

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## 50kPa Pneumatic Fender Pressure Requirements

| Nominal Size |        | Internal Pressure |                   | Minimum Endurable Pressure |                   | Safety-valve pressure setting | Testing pressure |
|--------------|--------|-------------------|-------------------|----------------------------|-------------------|-------------------------------|------------------|
| Diameter     | Length | at 0% deflection  | at 60% deflection | at 0% deflection           | at 60% deflection |                               | at 0% deflection |
| mm           | mm     | kPa               | kPa               | kPa                        | kPa               | kPa                           | kPa              |
| 500          | 1000   | 50                | 132               | 300                        | 462               | -                             | 200              |
| 600          | 1000   | 50                | 126               | 300                        | 441               | -                             | 200              |
| 700          | 1500   | 50                | 135               | 300                        | 473               | -                             | 200              |
| 1000         | 1500   | 50                | 122               | 300                        | 427               | -                             | 200              |
| 1000         | 2000   | 50                | 132               | 300                        | 462               | -                             | 200              |
| 1200         | 2000   | 50                | 126               | 300                        | 441               | -                             | 200              |
| 1350         | 2500   | 50                | 130               | 300                        | 455               | -                             | 200              |
| 1500         | 3000   | 50                | 132               | 300                        | 462               | -                             | 200              |
| 1700         | 3000   | 50                | 128               | 300                        | 448               | -                             | 200              |
| 2000         | 3500   | 50                | 128               | 300                        | 448               | -                             | 200              |
| 2500         | 4000   | 50                | 137               | 350                        | 480               | 175                           | 250              |
| 2500         | 5500   | 50                | 148               | 350                        | 518               | 175                           | 250              |
| 3300         | 4500   | 50                | 130               | 350                        | 455               | 175                           | 250              |
| 3300         | 6500   | 50                | 146               | 350                        | 511               | 175                           | 250              |
| 3300         | 10600  | 50                | 158               | 350                        | 553               | 175                           | 250              |
| 4500         | 9000   | 50                | 146               | 350                        | 511               | 175                           | 250              |
| 4500         | 12000  | 50                | 154               | 350                        | 539               | 175                           | 250              |

# NANHAI PNEUMATIC FENDER (80KPA)

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## 80kPa Pneumatic Fender Size and Performance Requirements

| Nominal Size |        | INTERNAL PRESSURE 80kPa at 60% deflection |                   |                  | Safety-valve<br>pressure<br>setting | Testing<br>pressure |
|--------------|--------|-------------------------------------------|-------------------|------------------|-------------------------------------|---------------------|
| Diameter     | Length | Energy<br>absorption                      | Reaction<br>force | Hull<br>pressure |                                     |                     |
| mm           | mm     | kN·m                                      | kN                | kPa              | kPa                                 | kPa                 |
| 500          | 1000   | 8                                         | 85                | 174              | —                                   | 250                 |
| 600          | 1000   | 11                                        | 98                | 166              | —                                   | 250                 |
| 700          | 1500   | 24                                        | 180               | 177              | —                                   | 250                 |
| 1000         | 1500   | 45                                        | 239               | 160              | —                                   | 250                 |
| 1000         | 2000   | 63                                        | 338               | 174              | —                                   | 250                 |
| 1200         | 2000   | 88                                        | 390               | 166              | —                                   | 250                 |
| 1350         | 2500   | 142                                       | 561               | 170              | —                                   | 250                 |
| 1500         | 3000   | 214                                       | 761               | 174              | —                                   | 250                 |
| 1700         | 3000   | 287                                       | 840               | 168              | —                                   | 250                 |
| 2000         | 3500   | 430                                       | 1150              | 168              | —                                   | 250                 |
| 2500         | 4000   | 925                                       | 1815              | 180              | 230                                 | 300                 |
| 2500         | 5500   | 1317                                      | 2653              | 195              | 230                                 | 300                 |
| 3000         | 6000   | 1890                                      | 2906              | 196              | 230                                 | 300                 |
| 3300         | 4500   | 1640                                      | 2476              | 171              | 230                                 | 300                 |
| 3300         | 6500   | 2532                                      | 3961              | 191              | 230                                 | 300                 |
| 3300         | 10600  | 4281                                      | 6907              | 208              | 230                                 | 300                 |
| 4500         | 9000   | 6633                                      | 7551              | 192              | 230                                 | 300                 |
| 4500         | 12000  | 9037                                      | 10490             | 202              | 230                                 | 300                 |

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## 80kPa Pneumatic Fender Pressure Requirements

| Nominal Size |        | Internal Pressure |                   | Minimum Endurable Pressure |                   | Safety-valve pressure setting | Testing pressure |
|--------------|--------|-------------------|-------------------|----------------------------|-------------------|-------------------------------|------------------|
| Diameter     | Length | at 0% deflection  | at 60% deflection | at 0% deflection           | at 60% deflection |                               | at 0% deflection |
| mm           | mm     | kPa               | kPa               | kPa                        | kPa               | kPa                           | kPa              |
| 500          | 1000   | 80                | 174               | 480                        | 609               | -                             | 250              |
| 600          | 1000   | 80                | 166               | 480                        | 581               | -                             | 250              |
| 700          | 1500   | 80                | 177               | 480                        | 620               | -                             | 250              |
| 1000         | 1500   | 80                | 160               | 480                        | 560               | -                             | 250              |
| 1000         | 2000   | 80                | 174               | 480                        | 609               | -                             | 250              |
| 1200         | 2000   | 80                | 166               | 480                        | 581               | -                             | 250              |
| 1350         | 2500   | 80                | 170               | 480                        | 595               | -                             | 250              |
| 1500         | 3000   | 80                | 174               | 480                        | 609               | -                             | 250              |
| 1700         | 3000   | 80                | 168               | 480                        | 588               | -                             | 250              |
| 2000         | 3500   | 80                | 168               | 480                        | 588               | -                             | 250              |
| 2500         | 4000   | 80                | 180               | 560                        | 630               | 230                           | 300              |
| 2500         | 5500   | 80                | 195               | 560                        | 683               | 230                           | 300              |
| 3300         | 4500   | 80                | 171               | 560                        | 599               | 230                           | 300              |
| 3300         | 6500   | 80                | 191               | 560                        | 669               | 230                           | 300              |
| 3300         | 10600  | 80                | 208               | 560                        | 728               | 230                           | 300              |
| 4500         | 9000   | 80                | 192               | 560                        | 672               | 230                           | 300              |
| 4500         | 12000  | 80                | 202               | 560                        | 707               | 230                           | 300              |

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