

# Mooring compensator



Safe and gentle mooring with rubber mooring compensators

## **FORSHEDA**

*The Original*

The FORSHEDA mooring compensator, made of high quality ozone resistant rubber renders an absolutely safe and longlasting mooring for all types of boats and yachts. Secure and effective locking for the mooring lines without the need of additional accessories. No squeaking, no wear no tear.

Featuring an integrally moulded unique plastic lock. "The Original FORSHEDA" manufactured from EPDM will maintain constant tension and meet the severest of weather conditions.



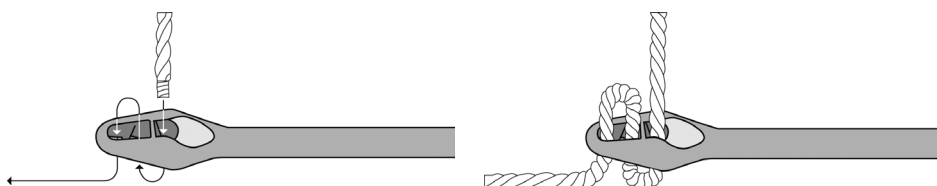
## The Compensator is available in four sizes:

|                            |                  |       |                  |       |
|----------------------------|------------------|-------|------------------|-------|
| Compensator No             | 1                | 2     | 3                | 4     |
| For line diameter, mm      | 10-12            | 14-16 | 18-20            | 22-24 |
| For line circumference, in | 1 <sup>1/2</sup> | 2     | 2 <sup>1/2</sup> | 3     |



### Easy to fit

The mooring line is threaded through the holes, as shown in the drawing.



### Compensating movement and force

The table below gives the maximum movement in mm for different numbers of turns and the force which the compensator takes up when a line which is wound three times around the compensator is straightened out completely.

More than three turns permits such a large compensating movement that the life of the compensator can be greatly shortened.



The extension of the compensator can be varied by changing the number of times the line is wound around it. The more turns, the further the compensator can extend.



You can set the extension you want. In narrow mooring places, e.g. between Y booms, one or two turns is usually right.



In exposed moorings, you should wind the line three times. You might also consider going up one size in mooring line diameter and compensator.

| Size  | Length of the compensating movement, mm |        |        | Max. force with three turns of line |         |
|-------|-----------------------------------------|--------|--------|-------------------------------------|---------|
|       | 1 turn                                  | 2 turn | 3 turn |                                     |         |
| No. 1 | 50                                      | 150    | 250    | 2000N                               | (200kp) |
| No. 2 | 120                                     | 225    | 325    | 2500N                               | (250kp) |
| No. 3 | 175                                     | 300    | 425    | 3500N                               | (350kp) |
| No. 4 | 200                                     | 335    | 470    | 5000N                               | (500kp) |

First determine what line thickness you need on the basis of the size of the boat and situation of the moorage. For secure mooring, we recommend a three-stranded line of synthetic material.

In choosing the proper line thickness, the examples in the table may serve as a guide. (Recommendations of Swedish boat insurance companies.)

| Boat type                                   | Protected mooring | Exposed mooring |
|---------------------------------------------|-------------------|-----------------|
| Rowboat with outboard motor, sailing dinghy | 10 mm             | 12 mm           |
| 5 m boat with outboard                      | 12 mm             | 16 mm           |
| Motorboat or sailboat up to 3 tons.         | 16 mm             | 20 mm           |
| 3-6 tons                                    | 20 mm             | 24 mm           |



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