

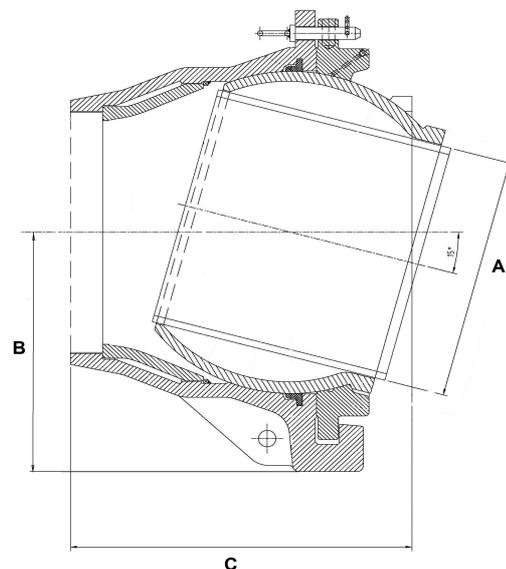
## BALL JOINTS

### Key features:

- ✓ Pipe through ball construction
- ✓ Gland locking mechanism, bayonet type coupling, 4, 5 or 6 claws
- ✓ Ball joint to be welded to the dredge pipe
- ✓ Surface friction between gland ring and ball reduced due to the use of different types of steel.
- ✓ Accurate CNC machining of ball and glandring
- ✓ Overall grease lubrication
- ✓ Exchangeable case liner, Nihard IV or equivalent material
- ✓ Exchangeable rubber seal
- ✓ Reduced weight due to optimized design and first class materials

### Standard dimensions:

| Nominal diameter<br>dredge pipe (ID) | Maximum width | Height  | Finished weight |
|--------------------------------------|---------------|---------|-----------------|
| A<br>mm                              | B<br>Mm       | C<br>mm | Approx.<br>kg   |
| 550                                  | 575           | 850     | 1150            |
| 600                                  | 650           | 900     | 1400            |
| 650                                  | 700           | 1000    | 1700            |
| 700                                  | 750           | 1050    | 2100            |
| 750                                  | 775           | 1100    | 2300            |
| 800                                  | 870           | 1150    | 3000            |
| 850                                  | 900           | 1200    | 3500            |
| 900                                  | 900           | 1300    | 4000            |
| 1000                                 | 1050          | 1400    | 4800            |



Holland Dredge Parts BV is a business unit of Holland Marine technologies BV

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## Greasing of the Ball Joint

Grease nipples have been placed at carefully selected intervals along the total circumference of the gland ring. This enables an overall distribution of grease on the inner contact surface, between the ball and the gland ring.

## Complementary notes

- ✓ The HollandMT Ball Joints can be supplied in any pipe diameter as the customers may require
- ✓ State of the art 3D CAD design is used
- ✓ Tilting angle for the standard HollandMT ball joint is  $2 \times 15^\circ$ , larger tilting angles (up to  $2 \times 20^\circ$ ) are optional
- ✓ All ball joints are supplied with handling, maintenance and safety instructions
- ✓ Short delivery times

## Available options

- ✓ Balljoint can be customized to client's requirements
- ✓ The HollandMT Ball Joint is available in high pressure versions as well (up to 25 bar)
- ✓ Separate liner in ball
- ✓ Reinforced ball
- ✓ Customized seals
- ✓ Flange execution



## Materials used

| Item  | Materials used   |
|-------|--|
| Ball  | Cast steel 52 or manganese steel 25Mn5                             |
| Case  | Cast steel 52 or manganese steel 25Mn5                             |
| Gland | Chrome Nickel Molybdenum Vanadium Steel (Cr Ni Mo V)               |
| Liner | Various High Wear Resistant Materials available, such as Nihard IV |
| Seal  | Oil and Seawater Resistant Rubber                                  |

For more information, please visit our website at [www.HollandMT.com](http://www.HollandMT.com)

All dimensions mentioned in this data sheet are indicative and are subject to change.

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