



## Specification

### Nominal size

DN100

### Inlet connection

4" TTMA

### Outlet connection

Compatible with API RP 1004

### Properties

4 wrap-around triggers that connect with over 60% of the loading adaptor circumference

### Materials

Contact parts: hard anodised aluminium & stainless steel  
Main seal: A range is available, refer to Seal Data p3.

## Design Conditions

|                             |                        |
|-----------------------------|------------------------|
| Weight:                     | 12.6 Kg                |
| Design Pressure (MAWP):     | 6 Bar                  |
| Test Pressure:              | 10 Bar                 |
| Maximum Surge Pressure:     | 15 Bar                 |
| Design Temperature Min/Max: | Refer to Seal Data, p3 |

**NOTE:** The Design Conditions and Section View dimensions are for the specified part number only.

### Design Codes

The Safeload coupler obeys:  
ATEX Group II, Cat 2  
EN 13083  
API RP1004 (2003)  
Energy Institute Specification: Couplers for the bottom loading of petroleum road tankers

## Range

| Description                              | Part No.    |
|------------------------------------------|-------------|
| With stainless steel handle <b>*Note</b> | CE94/2500XX |
| With aluminium handle <b>*Note</b>       | CE94/2400XX |

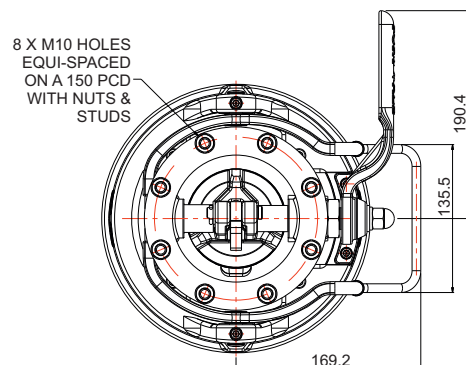
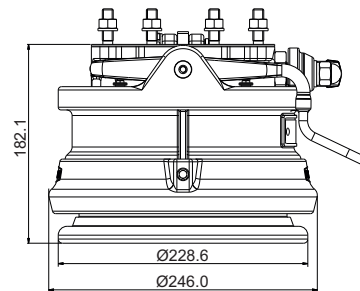
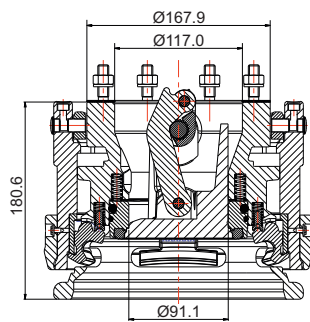
**NOTE:** The seal material changes the Part No.

## Related Parts

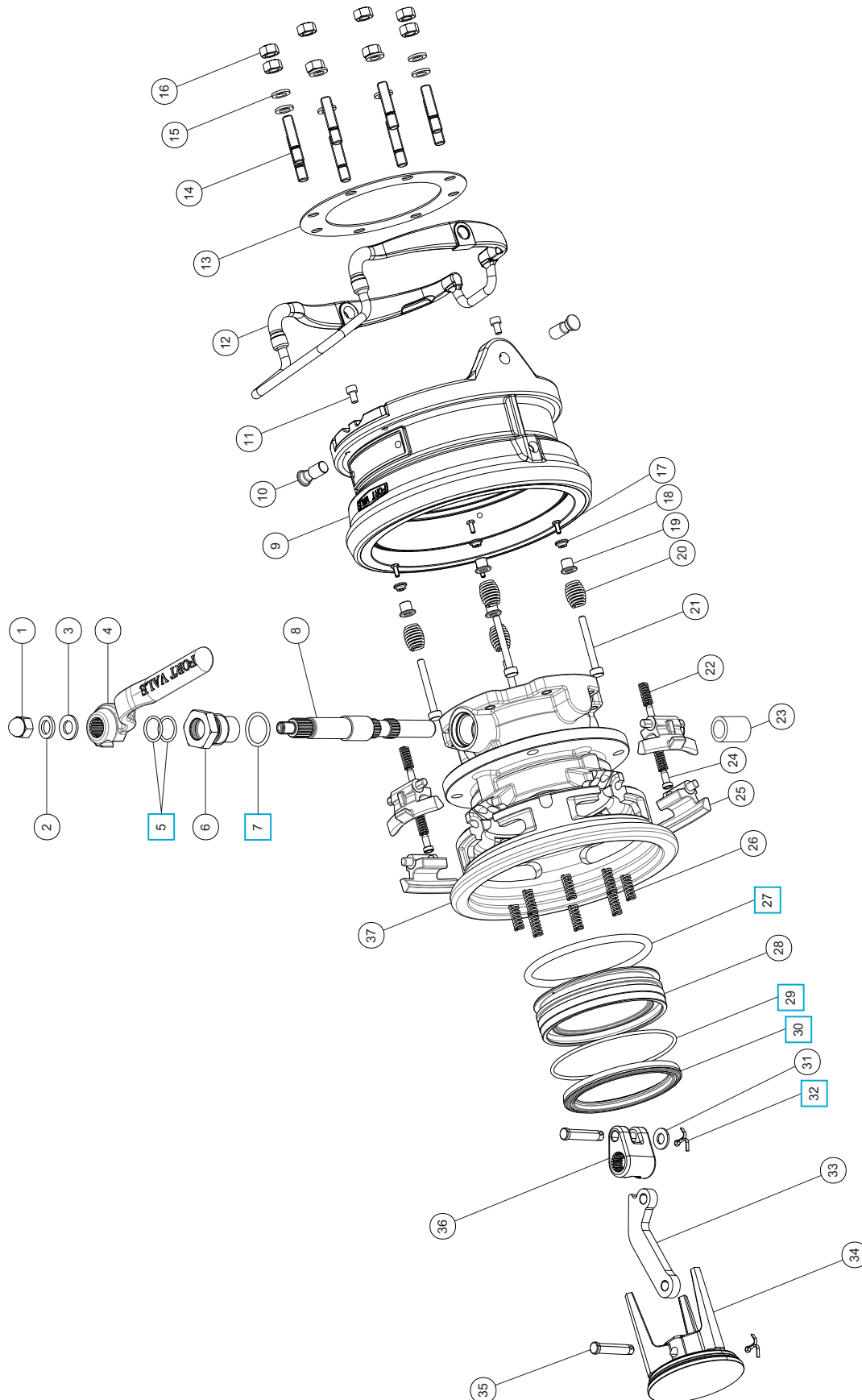
| Description                      | Part No.    |
|----------------------------------|-------------|
| Loading adaptor wear gauge       | 94/2150     |
| Coupler parking nose             | 94/25PC     |
| Coupler seal replacement tool    | 400/9420    |
| 4" TTMA check valve <b>*Note</b> | 94/3690XX/X |

**NOTE:** The specification changes the Part No.

## Section View



**Parts Drawing**



### Parts List

| Item | Description                   | Part No.                            |
|------|-------------------------------|-------------------------------------|
| 1    | M12 domed nut                 | 5112-050                            |
| 2    | M12 spring washer             | 5113-010                            |
| 3    | M12 washer                    | 5123-003                            |
| 4    | Splined handle                | 94/2575                             |
| 5    | Spindle O ring (2) *Note      | 5005-336XX <input type="checkbox"/> |
| 6    | Spindle lock bush             | 94/2513                             |
| 7    | Bush O ring *Note             | 5005-214XX <input type="checkbox"/> |
| 8    | Spindle                       | 94/2511                             |
| 9    | Outer housing & ring assembly | 94/2504                             |
| 10   | Release handle pivot pin (2)  | 94/2577                             |
| 11   | M6 capscrew (2)               | 5111-061                            |
| 12   | Release handle                | 94/3080                             |
| 13   | 4" TTMA gasket                | 94/1044                             |
| 14   | Inlet flange stud (8)         | 94/1040                             |
| 15   | M10 flat spring washer (8)    | 5113-002                            |
| 16   | M10 full nut (8)              | 5112-002                            |
| 17   | M4 hex head set screw (4)     | 5111-064                            |
| 18   | Spring retainer washer (4)    | 94/2529                             |
| 19   | Guide bush (4)                | 94/2048                             |
| 20   | Spring (4)                    | 10146                               |
| 21   | Spring retainer (4)           | 94/1016                             |
| 22   | Trigger spring (4)            | 94/2025                             |
| 23   | Spindle bush                  | 94/2522                             |
| 24   | Trigger spring guide (4)      | 94/2026                             |
| 25   | Extended locking trigger (4)  | 94/2555CE                           |
| 26   | Energizing spring (8)         | 94/2024                             |
| 27   | Seal carrier O ring *Note     | 94/1034XX <input type="checkbox"/>  |
| 28   | Seal carrier                  | 94/2507                             |
| 29   | Wiper O ring *Note            | 5005-584XX <input type="checkbox"/> |
| 30   | Main seal *Note               | 94/1006XX <input type="checkbox"/>  |
| 31   | M10 washer                    | 5113-025                            |
| 32   | Split pin (2)                 | 5118-050 <input type="checkbox"/>   |
| 33   | Lever arm                     | 94/1009A                            |
| 34   | Poppet                        | 94/2518                             |
| 35   | Pivot pin (2)                 | 94/1054                             |
| 36   | Splined crank block           | 94/2528                             |
| 37   | Inner housing                 | 94/2501                             |

**NOTE:** The specification changes the Part No.

### Seal Data

| Seal Material                | Seal Temp. Min/Max | Seal Colour | Coupler Part No. |
|------------------------------|--------------------|-------------|------------------|
| Viton B                      | -13°C/50°C         | Black       | CE94/2500        |
| Viton GFLT-S                 | -23°C/50°C         | Grey        | CE94/2500GF      |
| Ultra low temp. fluorocarbon | -40°C/50°C         | Brown       | CE94/2500MF      |
| Perfluoroelastomer           | -15°C/50°C         | Green       | CE94/2500PF      |

**Seal Kit** - All parts marked ☐ in the Parts List

| Seal Material      | Part No.  |
|--------------------|-----------|
| Viton B            | 94/25SK   |
| Viton GFLT-S       | 94/25SKGF |
| ULT fluorocarbon   | 94/25SKMF |
| Perfluoroelastomer | 94/25SKPF |