

## TECHNICAL DATA SHEET

**Coupling DRC ELEPHANT**  
**CCDS2112x-SS DN150 16 bar steel, TIAN**



## 1. GENERAL PRODUCT INFORMATION

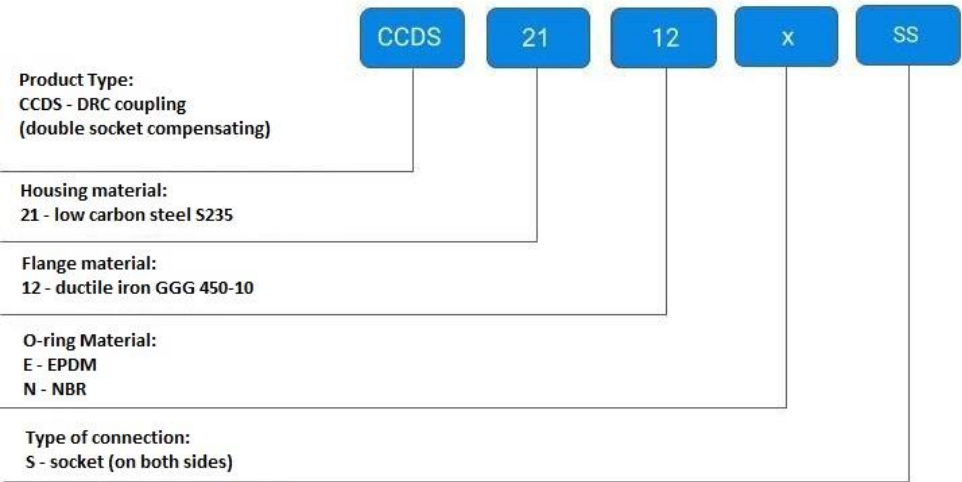
1.1. Product Name: Coupling DRC (compensating double socket) ELEPHANT CCDS2112x-SS DN150 16 bar steel, TIAN.

1.2. Purpose: Coupling coupling DRC (hereinafter referred to as MC DRC) is a pipeline connecting unit, which is designed to connect pipes made of different materials (cast iron, steel, polyethylene, asbcement) with each other in any combinations.

1.3. Working principle. Pipes are connected by compression method by tightening the bolts and pressing the inner surface of the socket against the outer surface of the pipe. MS DRC significantly simplifies and speeds up the work, allowing to connect pipeline sections with an angular deviation of up to 4 degrees per side from the central axis during its repair or replacement, including in confined spaces, without the use of welding technologies.



1.4. Deciphering the designation:



## 2. BASIC TECHNICAL DATA AND CHARACTERISTICS

Table 1

Nominal diameter DN, mm	150
Crimping range, mm	159 - 182
Nominal pressure PN, bar	16
Working temperature of medium, °C	-10 to + 120
Working medium	water, neutral liquids
Direction of medium flow	bilateral
Permissible axial movement in the gasket, mm	± 2,5
Maximum angular deviation, °	4
Areas of application	heating and water supply systems, industrial piping
Internal and external anti-corrosion coating	epoxy, at least 250 microns thick
Service life, years	10



3. BASIC MATERIALS

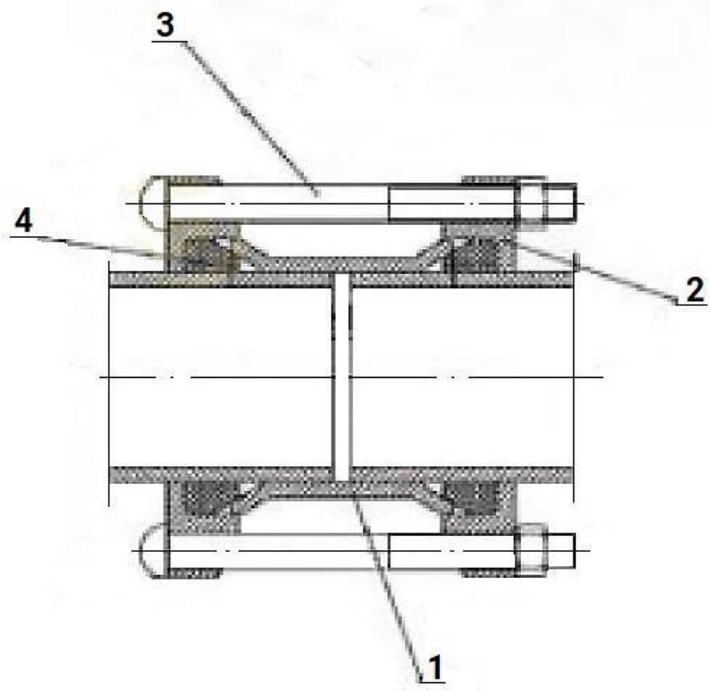


Table 2

Nº	Part name	Material
1	Body	mild steel S235
2	Clamping ring	ductile iron GGG450-10
3	Bolt with nut	galvanized steel
4	Sealing ring	EPDM/NBR

4. WEIGHT AND DIMENSIONAL PARAMETERS

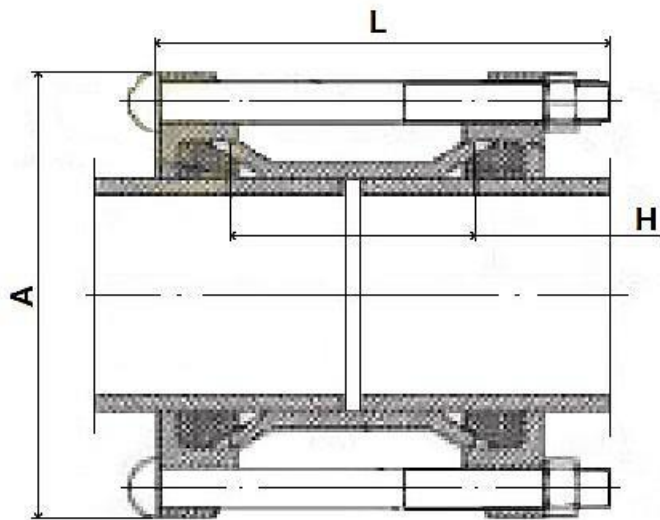


Table 3

	Bolts		A	H	Weight
	L	Quantity	mm	kg	кг
DN150	M12x200	4	280	110	7,2



## 5. INSTALLATION INSTRUCTIONS

5.1. Safety precautions during installation and operation of the DRC must be observed in accordance with the company's established procedures.

5.2. The DRC coupling may be installed and operated by personnel who have studied the product design, safety regulations and the requirements of this data sheet.

5.3. The following requirements must be met before installing the coupling DRC:

- complete delivery;
- carry out an external inspection, check the integrity of the housing parts;
- check internal cavities for foreign objects;
- treat the DRC O-ring with silicone grease;
- check the alignment of the pipeline sections;
- clean the surfaces of pipe edges and flank sections to ensure that there are no scoring and large roughnesses to protect the O-ring.

5.4. Use belt slings for slinging. Slinging may only be carried out with the slings around the DRC housing. Slinging through the through section and tie rods is prohibited.

5.5. Mounting DRC:

- loosen the nuts of the tie-bolts to maximize the expansion of the O-ring;
- - insert the pipes into the DRC, ensuring a gap of 15-25 mm between the ends of the pipelines to be connected;
- Tighten the nuts of the tie bolts evenly crosswise using a torque wrench, without distortion, and achieve tightness of the seal;

**Attention!** The use of extension wrenches for tightening fasteners is prohibited!

5.6. DRC may be mounted on underground and aboveground pipelines, on vertical and horizontal installations.

5.7. During installation, bending and tensile stresses must not be allowed to affect the DRC due to an unsecured pipeline.

5.8. The test pressure during hydraulic testing of the pipeline should be taken equal to 1.5 excess working pressure in accordance with the procedure established at the.



## **6. OPERATING INSTRUCTIONS**

6.1. Before the start of operation, the information about the installation of the coupling DRC must be entered in Table 4, and at the end of operation, the information about its removal must be entered.

6.2. It is not allowed to use coupling DRC at operating parameters exceeding those specified in this passport, as well as when the working medium freezes inside the pipeline.

6.3. The following conditions must be observed during maintenance of the coupling DRC during operation:

- Dismantling and repair work must not be carried out when the pipeline is pressurized with the working medium;
- perform maintenance of DRCs installed in underground mains, where accumulation of harmful for breathing or explosive gases is possible, according to the technical operation and safety rules of the organization operating the mains;
- To carry out periodic inspections and technical certification within the terms established by the rules and regulations of the organization operating the pipeline.





Table 4

<b>Name of the organization and signature of the person who performed the installation (removal)</b>	
<b>Reason for withdrawal</b>	
<b>Date of withdrawal</b>	
<b>Place of installation (name of object)</b>	
<b>Date of installation</b>	



## **7. TRANSPORTATION AND STORAGE CONDITIONS**

7.1. Transportation and storage are carried out according to the requirements in accordance with the procedure established at the enterprise.

## **8. UTILIZATION**

8.1. The product is disposed of in accordance with the procedure established at the enterprise (remelting, burial, resale).



## 9. WARRANTY OBLIGATIONS

9.1. Warranty period - 12 months from the date of commissioning, but not more than 18 months from the date of sale.

9.2. The warranty applies to equipment installed and used in accordance with the installation instructions and product specifications described in this data sheet.

9.3. The manufacturer guarantees compliance of the product with safety requirements, provided that the consumer complies with the rules of transport, storage, installation and operation.

9.4. The warranty covers all defects caused by the fault of the manufacturer.

9.5. The warranty does not apply:

- parts and materials of the product subject to wear and tear;
- for cases of damage caused by:
  - modifications to the original design of the product;
  - violation of general installation recommendations;
  - faults caused by improper maintenance and storage; improper operation and use of the equipment.

## 10. WARRANTY TERMS

10.1. Claims to the quality of the goods may be made during the warranty period.

10.2. Defective products are repaired or exchanged for new ones free of charge during the warranty period. ELEPHANT decides whether to replace or repair the product. The replaced product or its parts resulting from the repair shall become the property of 'ELEPHANT'.

10.3. Costs related to dismantling, installation and transport of the defective product during the warranty period shall not be reimbursed to the Buyer.

10.4. If the claim is unfounded, the Buyer shall pay the costs of diagnostics and expertise of the product.

10.5. Products are accepted for warranty repair (as well as for return) fully assembled.



## WARRANTY CARD № \_\_\_\_\_

№	Product Name	Packs

Name and address of the trading organisation \_\_\_\_\_

Date of sale \_\_\_\_\_ Seller's signature \_\_\_\_\_

Stamp or seal of the trading organisation

Acceptance stamp

I agree with the terms and conditions of the warranty:

Buyer \_\_\_\_\_ (signature)

Warranty period - 12 months from the date of commissioning, but not more than 18 months from the date of sale.

For warranty repairs, complaints and product quality claims, please contact ELEPHANT at: Carrer d'Aragó,264,3-1,08007 Barcelona, Spain\_E-mail address: sales@valveelephant.com.

When making a complaint about the quality of goods, the buyer shall present the following documents:

1. A free-form application, which shall specify:

- name of the organisation or full name of the buyer, actual address, contact telephone numbers;
- name and address of the organisation that carried out the installation;
- basic parameters of the system in which the product was used;
- a brief description of the defect.

2. Document confirming the purchase of the product (delivery note, receipt)..

3. Act of hydraulic test of the system in which the product was installed.

4. This completed warranty card.

A note on the return or exchange of goods \_\_\_\_\_

Date: « \_\_\_\_ » \_\_\_\_\_ 202\_\_ r. Caption \_\_\_\_\_

