

OPERATING MANUAL

FLANGE ADAPTOR FOR CAST IRON PIPES

Cat. no. 9163



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1. INTENDED USE

The adaptors are used in water supply systems made of cast iron pipes.

- The Type 9163 adaptors are intended for installation of piping systems by connecting the plain ends of hard piping to flanged ends of valves and other fittings.
- The adaptors are intended for overground and underground installations, in vertical or horizontal pipelines.

The adaptors for cast-iron pipes are intended for transferring potable or industrial water and other liquids (if approved by the manufacturer).

2. TECHNICAL DESCRIPTION

- Manufacture and acceptance acc. to PN-EN 545 (Ductile iron pipes, fittings, accessories and their joints for water pipelines - Requirements and test methods) and PN-EN 12266 (Industrial valves. Testing of valves).
- Range of operating temperatures from -10°C to +70°C.
- Line pipe diameter range DN [mm] – see the size table for each type.
- Maximum liquid medium flow rate is 4 [m/s].
- The flanged cast-iron adaptor ends are made to fit flanged piping which matches the specific pressure ratings established in PN-EN 1092-2.
- The adaptors are made of (ductile) cast iron acc. to PN-EN 1563 (Founding. Spheroidal graphite cast irons).

Bodies of flanged adaptors are usually made of a flanged bush, and a compression ring with a flanged seal. The adaptor body features a tight seal for pipes with a specific outer diameter. The flange adaptors support connection of line piping with flanged ends. All inner and outer cast-iron surfaces of the adaptors are epoxy powder coated.

3. MARKING

The marking of the adaptors is defined by the following standards: PN-EN 19, PN-EN 1074-1. The adaptor bodies feature markings on the back wall. The marking contains the following data:

- Manufacturer's trade mark
- Nominal diameter
- Nominal pressure
- Body material type

In addition, identification labels containing the following data are placed on the adaptor body:

- Manufacturer's company and country of origin
- Manufacturer's company logo
- Construction approval mark
- Adaptor type (specific product catalogue number)\
- Nominal Diameter (DN)
- Cast iron pipe nominal size DZ
- Nominal pressure

- Year of manufacture
- Product serial no. in a calendar year

4. STORAGE AND TRANSPORT

The products are packed on EURO pallets (1200x800) and wrapped with stretch foil or placed in dedicated packaging. Store the fittings in clean indoor rooms without microbiological or chemical contaminants and at a room temperature between -20°C and 70°C. Protect the paint coat and rubber parts from prolonged exposure to UV radiation. Store the elements ensuring protection against mechanical damage. Do not compress any rubber parts. Secure the products against shifting during shipping and handling. Transport the pipe fittings on sheltered vehicles.

5. INSTALLATION

Before attempting to install the fittings, check the technical and commercial documents delivered with the product to verify that the media and pipeline operating parameters comply with the manufacturer's declaration and check the installation manual. Any change in the operating conditions must be consulted with the fitting manufacturer beforehand.

Before attempting to install the pipe fitting, remove the main bore plugs (if present), check the inner surfaces of the pipe fitting and thoroughly flush it with water, if necessary. Note that the system must not expose the product to bending or tensile stress from loading with the weight of unsupported pipeline sections. It is recommended to perform the installation with due compensation of the pipeline dimensional changes from temperature and pressure.

The adaptors are designed for installation in line piping without any additional seals. Before installing the adaptor, it is recommended to lubricate the sealing system surfaces with industrial grade petroleum jelly to prevent adhesive bonding and possible damage during the removal of rubber components. If not preprocessed for connection (by chamfering), the pipe ends must be deburred and chamfered. Insert the pipe end into the adaptor bell, align the centres of the joint, and tighten all assembly bolts in even turns in accordance with the torque specified in the installation manual. Verify the alignment again after assembly. Adaptors supplied by the manufacturer are not ready for installation (remove transport protection bands from the compression seal, then follow the installation manual).

Note:

- **If the product is damaged mechanically, do not install it in the pipeline.**
- Remove and segregate all gate valve product parts before product disposal. All gate valve parts are recyclable.

6. SAFETY

The OH&S guidelines and recommendations concerning installation of pipelines and devices for water supply stations, heat power plants, water treatment plants, sewage treatment plants, pumping stations and other facilities, and the Polish Regulation concerning general OH&S regulations (use of personal protective equipment and safety garments), especially at work with low or high temperature hazard apply to the pipe fittings. Misuse of this product is prohibited.

7. WARRANTY

The product assembled, installed and operated in conformity with this Operating Manual and the data sheet is covered by a guarantee from the manufacturer. The guarantee conditions and validity period are provided in the warranty conditions at www.jafar.com.pl.

The manufacturer may provide this product with custom materials and modifications on order. The final selection of the product which meets the optimum criteria for the installation project in question is made by the installation designer, who should consider this Operating Manual along with other data and information of significance for the correct operation of the product.

Failure to comply with the guidelines and instructions in this Operation and Maintenance Manual releases the manufacturer from all obligations, liability and warranty. Due to constant development of our company, we reserve the right to introduce modifications and structural alterations to the product presented in this document.