IMP ARMATURE D.O.O.
Ljubljanska cesta 43
1295 Ivančna Gorica
Slovenija EU
t +386 (0)1 7887 300
f +386 (0)1 7887 328
e info@imp-ta.si
w imp-ta.si

INSTRUCTION FOR USE

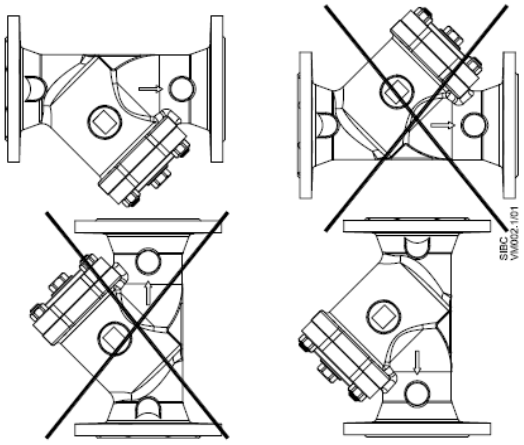
Product: **FLANGED STRAINER**
- EN-GJL-250 (GG 25): DN 15-300, PN 6, PN 10, PN 16
- EN-GJS-400-15U (GGG 40): DN 15-300, PN 16, PN 25
- EN-GJS-400-18U (GGG 40.3): DN 15-300, PN 16, PN 25

Operating conditions shall comply with the Manufacturer's Declaration of Conformity or Performance.

1. PRODUCT INSTALLATION

The correct installation of the strainer is a condition for its smooth operation and functionality. The installation location of the strainer shall provide sufficient space for maintenance work, in particular in the direction of the screen pull-out. Access to the strainer shall be safe and allow safe maintenance work (platform, guard rail, etc.).

Figure 1



- The strainer shall be installed as shown in Figure 1.
- Before installation, remove the PVC plugs, check the direction of flow and turn the strainer correctly according to the arrow on the body.
- Ensure control of the pressure loss in front of and behind the strainer.
- The strainer is of flanged design, dimensions in accordance with EN 1092-2. The flange seals used shall be resistant to the operating conditions - temperature, pressure, medium.
- The flange bolts shall be of a suitable quality with regard to the corrosive effects of the environment. The tightening of the bolts shall follow the sequence shown in Figure 2. The tightening torques recommended by the Manufacturer of the flange seals shall be observed.
- In case of excessive condensation accumulation on the casing, additional thermal insulation is recommended.
- Strainer with ball valve must have installed draining pipe from the ball valve to the outflow so that it prevents unwantead leakage of the medium and possible burns and injuries.

2. MAINTENANCE AND REPAIR

Before any work on or in the strainer, close the valve in front of and behind the strainer! Ensure pressure release of the strainer. In case of high temperature wait that the system cools down. All maintenance work on the strainer shall only be carried out by a trained and instructed person. The pressure loss at the sieve must not exceed 1 bar!

a) Inspection of the strainer body for excessive corrosion activity

The person carrying out this inspection shall be qualified and technically competent. In the event that corrosion exceeding a corrosion addition of 1mm is found, the strainer shall be replaced with a new one. It is also recommended to undertake an analysis of the cause of the corrosion

(mechanical damage, effects of electrolytes and electrical potentials, etc.). Based on the findings, further preventive inspections of the pressure equipment shall be planned.

b) Cleaning or replacing the sieve

The frequency of screen cleaning depends on the operating conditions. In closed circuits, it is 1x to 10x per year. In open circuits, where there is always fresh medium with impurities, the need for cleaning may be several times a day. In this case, we recommend a parallel connection of two strainers in combination with control valves, which allows operation without interruptions during cleaning.
Condition to be ensured: the pressure loss at the sieve must not exceed 1 bar.

b1) Flushing of impurities:

- **For the version with plug:** Shut off the flow, empty the pipeline and cool it to room temperature.
Unscrew the plug and remove it, then rinse the impurities out of the strainer with a partial flow of the medium (opening of the outlet valve – installed after the strainer). After the rinsing close the valve after the strainer, wait that it drains and clean the thread for the plug and sealing surface cleaning. Replace the plug gasket and screw the plug into the valve cover with prescribed torque (1/2" = 120 Nm, 1" = 160 Nm). Then we open the flow.
- **For the version with ball valve**: Close the valve before the strainer, open the ball valve on strainer cover and and rinse rinse the impurities out of the strainer. Then we close the ball valve and open the valve before the strainer.

b2) Cleaning and change of screen:

Shut off the flow, drain the pipeline and cool it to room temperature. Unscrew the nuts of the cover, remove the cover, remove the cover gasket, pull out the cleaning mesh and clean it and replace it if necessary. Before reassembling the cleaning mesh, clean the mesh seat in the body and cover. Replace the cover gasket and clean the sealing surfaces before reassembling the cover. Insert the cleaning mesh into the seat in the body of strainer, install the cover gasket, install the strainer cover and tighten it evenly with the nuts.
The tightening procedure shall be carried out in the sequence shown in Figure 2:
DN 15 – DN 32: 35 Nm +-5Nm
DN 40 – DN 65: 80 Nm +-10Nm
DN 80 – DN 200: 100 Nm +-10Nm
DN 250 – DN 300: 170 Nm +-15Nm

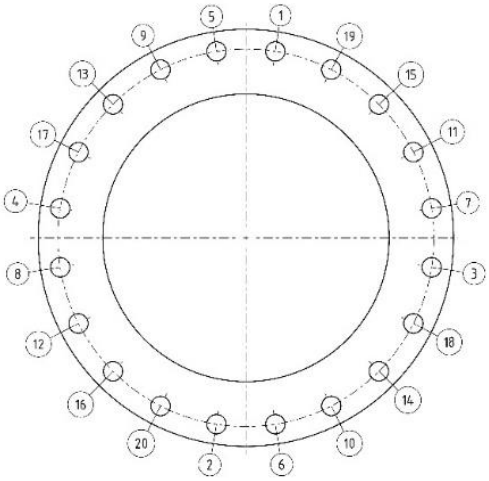


Figure 2

After finished work open the flow.