



NARVIK-YARWAY



Unpacking

The Narvik-Yarway high pressure Strainers are packed with the greatest care in wooden boxes or cartons for protection during handling or transit to site.

After hydrostatic testing, the strainer is flushed through with a high grade of preservative to protect machined and internal surfaces from corrosion. If it is found, however, that damage has occurred during shipment, then this should be reported immediately to your forwarder or Narvik-Yarway representative.

Particular care should be taken when removing the strainer from its packing and your special attention is required to check that no damage has occurred to flange faces, threadings and butt weld profiles (see figure 1).

Installation of a butt weld strainer

Before installation, check the strainer for any visible damage. Make sure that protective covers are removed and that butt weld ends are cleaned. Verify with a handheld flash light that the inlet and outlet connections are free of any obstructions.

Check for the 'arrow flow direction indicator' on the body (1).

Install the strainer in such a way that the flow direction is with the arrow. Install the strainer with the cover (5) is pointing downwards. In this way, sludge and debris trapped by the strainer will be easily drained when the cover is removed.

Make sure that there is sufficient space to remove the cover for cleaning and inspection of the strainer element (2).

Welding

The body material is indicated on the strainer. Follow an acceptable welding code such as ASME IX or EN or your local regulation for welding of the strainer. Make sure that the weld is clean, TIG welding is preferable. The strainer should not be disassembled before welding.

Installation of a flanged strainer

When the strainer is fitted with flanges make sure flanges are clean and that suitable gaskets are available.

Do not re-use gaskets. In case of doubt, consult your local gasket supplier.

Maintenance

The strainer requires little maintenance. Especially during start-up of new or refurbished plant one should check the strainer element for contamination. Make sure that pressure has been relieved before opening the cover. Grind off the tack-weld between the cover and the body.

Use the special tool (figure 2) or another suitable tool to remove the cover. The threading is standard right handed (counter clockwise to unscrew).

Clean the strainer element by using compressed air. As should always be the case, use safety gloves, eye protection and other safety equipment during your work.

Clean the gasket facing on both the body and cover. After cleaning, replace the gasket (4) with a new one suitable for the pressure and temperature. In case of doubt consult Narvik-Yarway.

Retighten the cover, lightly tapping it until metal-to-metal contact is made between cover and body.

Re-weld the tack-weld.

Note

This weld is only needed to secure the cover and has no sealing function. Check the body material for appropriate welding electrode selection.

Forged high pressure Y-strainer, model 51

Installation and Maintenance Instructions

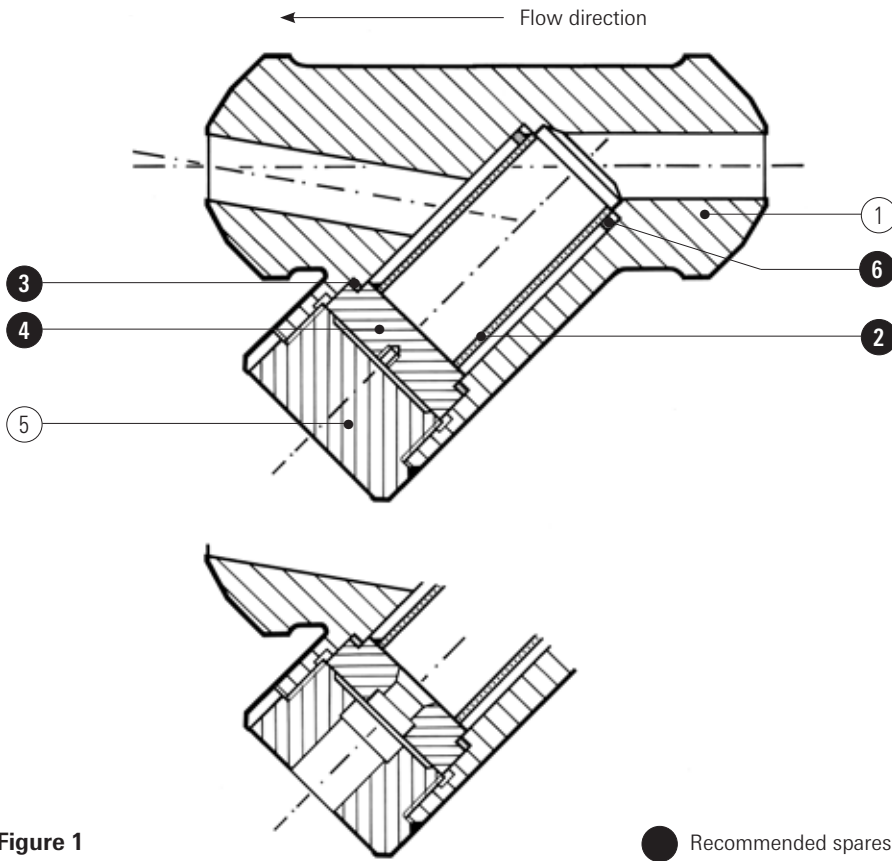


Figure 1

● Recommended spares

Table 1 - Standard materials

| Item | Name | Material | Equivalent |
|------|------------------|----------------------|----------------------|
| 1 | Body forging | ASTM SA 105 | C21 (1.0432) |
| 2 * | Strainer element | AISI 316 L | 1.4404 |
| 3 | Gasket | St. steel / Graphite | St. steel / Graphite |
| 4 * | Spacer | AISI 316 L | 1.4404 |
| 5 | Cover | ASTM SA 105 | C21 (1.0432) |
| 6 * | Guiding ring | AISI 316 L | 1.4404 |

* Supplied as one (welded) spare part

Storage procedure

Upon receipt, check both the high pressure Strainer and the packing case for any transit damage. Any damage to the strainer should be reported immediately to Narvik-Yarway or their local agent. Any damage to the packing container should be rectified to prevent the ingress of dust or water, prior to placing the strainer into storage. Check the information contained on the identification plate/tagplate and documentation and return the strainer to its packing with protective covers in place.

For short term storage, up to 6 months duration, no additional preservation measures are necessary.

Retain the strainer in its original packing in a clean, dry indoor location. If outdoor storage is unavoidable, then the packing case should be enclosed in a waterproof cover.

For long term storage use only a dry indoor location. Apply a cosmoline type grease to machined faces.

Retain the strainer in its original packing and inspect at 3 monthly intervals to ensure that no deterioration has occurred.

Before placing the strainer into service, inspect all components, seals etc., to ensure correct functioning. Follow the procedure for installation as described before.

Note

Materials and data of units supplied, may deviated from this Instruction Manual. Please consult order documents in case of doubt.

The high pressure Strainer is classified under European directive 97/23 EC under Article 3, paragraph 3 (SEP) or category I with CE-marking.

Figure 2



Special tool for disassembly