

Installation & Operation Manual - BOSS 51SS Stainless Steel Y- Strainer

15mm to 50mm

Pressure /Temperature Rating	-20°C to +160°C MAX (800 psi @ 38°C)
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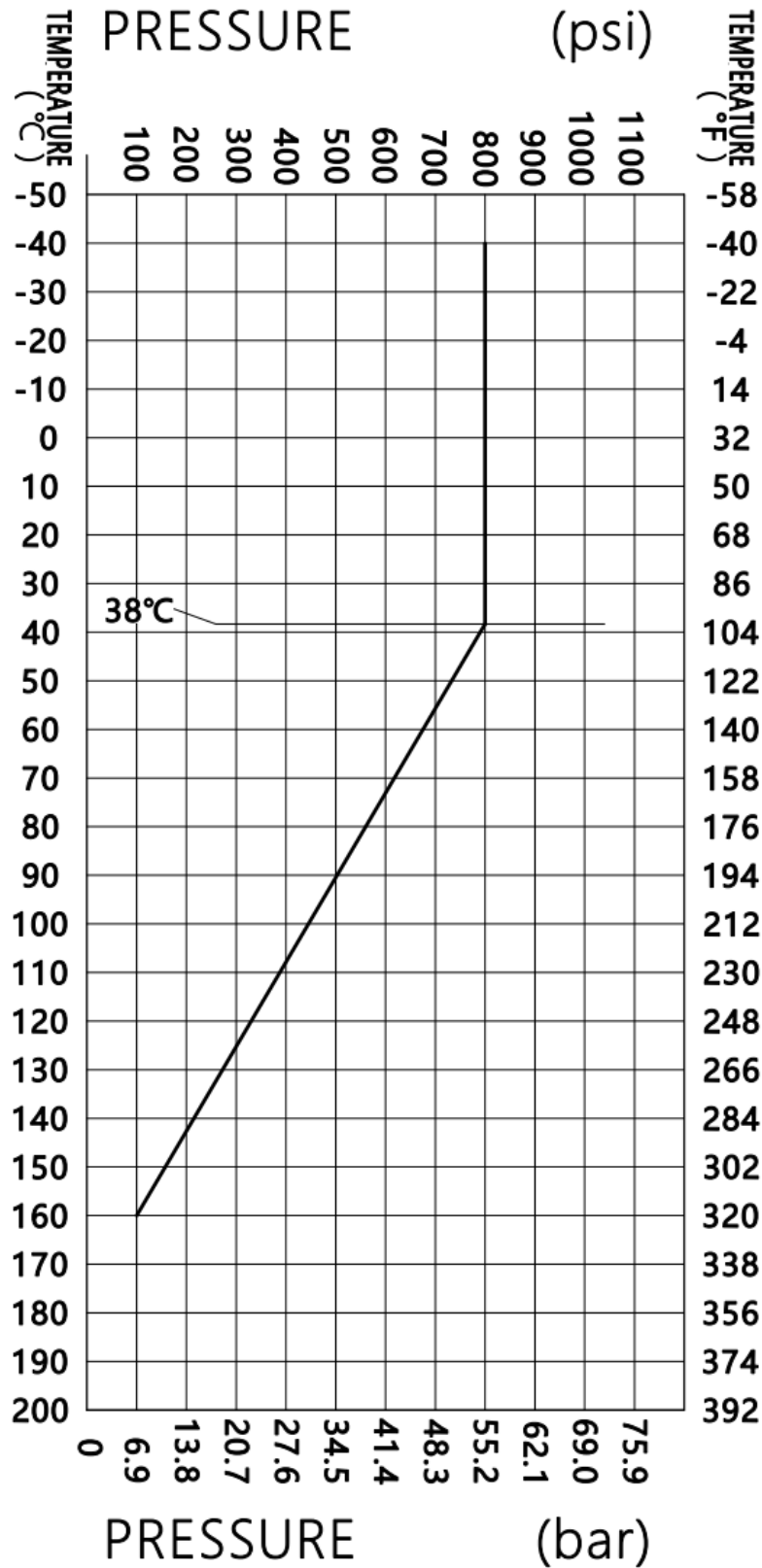
GENERAL CONSIDERATIONS

- Strainers are installed in piping to remove foreign matter like scale, sediment, debris, and dirt from the flow media (water, steam, oil, or gas) that may cause damage to pipeline equipment.
- Service temperature and pressures as indicated on the strainer identification plate or body markings should not be exceeded. Maximum operating pressure reduces as service temperature increases.
- Strainers are not designed to operate under high shock loadings. A pressure surge or shock is usually caused by a sudden reduction in fluid flow velocity, such as caused by the rapid closure of a check or quarter turn valve.
- Strainers are designed for loadings appropriate to their intended use and other reasonably foreseeable operating conditions. Design considerations for additional loadings caused by piping vibrations, weather conditions, and earthquakes are the end users' responsibility.
- All piping to and from strainer must be properly supported.
- The strainers are not designed as "fire safe" pressure equipment.

INSTALLATION

- Ensure strainer is suitable for service conditions; pressure, temperature, and flow media.
- Strainers must be installed with the flow direction as indicated by the arrow cast on the body.
- The strainer can be installed in Horizontal or Vertical pipe, the drain plug to be positioned lowermost.
- Strainers should be located for easy access and allow ample working space for subsequent service of the strainer such as draining, screen removal, and cleaning. Strainer must be installed in the correct orientation with the angled portion (screen) of the strainer body pointing downward to allow for proper drainage. For steam applications, screen can be mounted on its side to minimize fluid build-up.
- Remove dust caps, where fitted, from strainer.

Pressure Flow Chart



ROUTINE MAINTENANCE SERVICE

- It is recommended that a differential pressure gauge be installed across the inlet and outlet of the strainer. When the differential pressure measures 5 ~ 10 psi, it is time to service the strainer.
- Turn off supply pressure to strainer piping. Lock-out & Tag-out per established safety procedure.
- Verify the fluid in the piping is not harmful to humans or the environment; take appropriate actions. Remove the strainer plug allowing strainer and piping to drain.
- Remove strainer cover by unscrewing (smaller size strainers) Remove screen from strainer body by pulling outward.
- Clean out any scale, sediment, debris, and dirt from the strainer body, cover, and screen. Inspect screen and gasket for damage. Replace if necessary.
- Re-assemble the screen and cover using a new gasket. The procedure detailed below should be followed to ensure correct location of the screen in the strainer body.
 - **Strainers with Screwed Cover (Small Size Strainers)**
 1. Fit gasket into the recess of the strainer body.
 2. Push the screen into the pocket of the cover, making sure it seats correctly.
 3. Assemble the cover back into the body and tighten.
- Apply thread sealant to plug. Reinstall strainer plug into cover. Pressurize system, check for leakage.