

Installation

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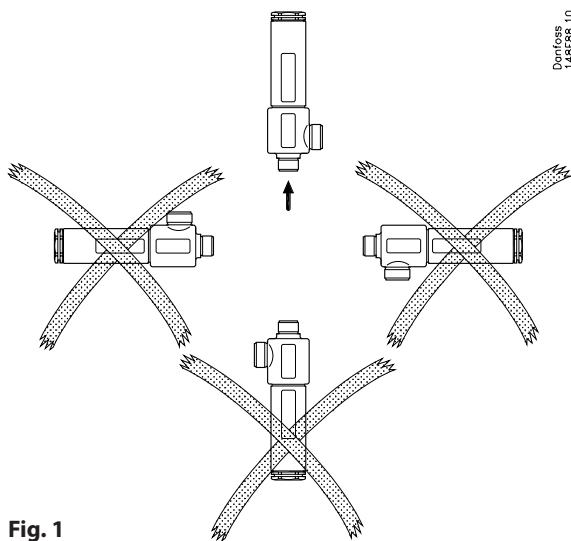


Fig. 1

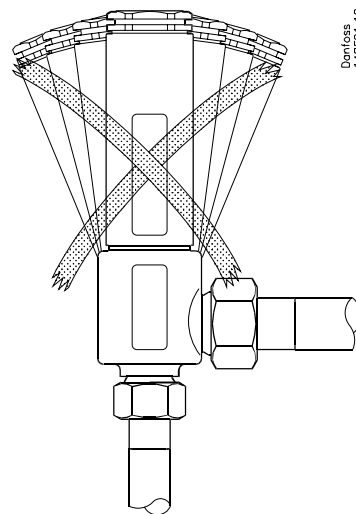


Fig. 2

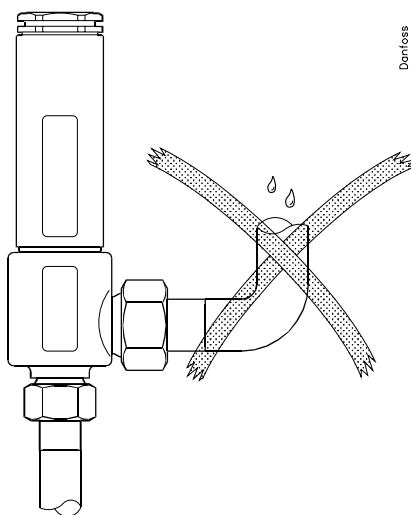


Fig. 3

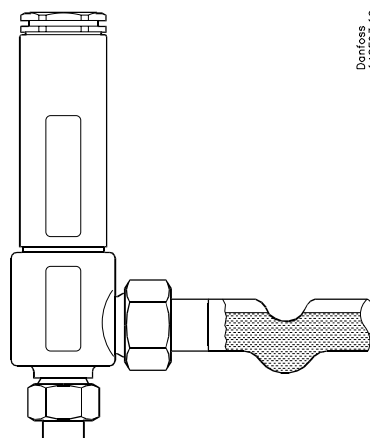


Fig. 4

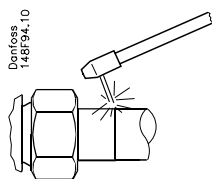


Fig. 5

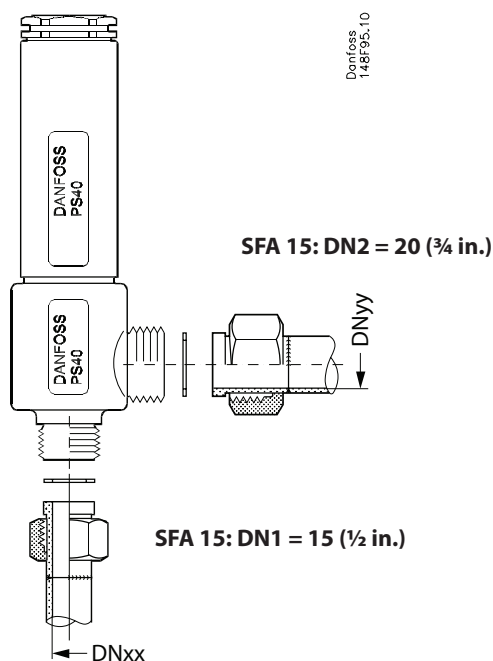


Fig. 6

Installation

Refrigerants

Applicable to all common non-flammable refrigerants, including R717 and non-corrosive gases/liquids dependent on sealing material compatibility. Special types required for flammable hydrocarbons. The valve is only recommended for use in closed circuits. For further information please contact Danfoss.

Temperature range

SFA 15: -30/+100°C (-22/+212°F).

Pressure range

The valve is designed for a max. working pressure of 40 bar g (580 psi g). Danfoss Industrial Refrigeration A/S is supplying safety valves adjusted for a certain pressure (indicated on the ID-plate) and sealed. Danfoss Industrial Refrigeration guarantees correct pressure as long as the seal remains unbroken.

Installation

The valve should be installed with the spring housing upwards (fig. 1). When mounting the safety valve it is important to avoid the influence of thermic and dynamic stress (vibrations) (fig. 2). The outlet pipe of the valve must be designed as to prevent dirt from penetrating into the valve (fig. 3). For valves with outlet in the open air, an oil filled U-pipe is an efficient protection against the entrance of water and dirt (fig. 4). The valve is designed to withstand a high internal pressure. However, the piping system should be designed to avoid liquid traps and reduce the risk of hydraulic pressure caused by thermal expansion. It must be ensured that the valve is protected from pressure transients like "liquid hammer" in the system.

Welding

If welding fittings are applied, these should be dismantled during the welding process (fig. 5). Only materials and welding methods, compatible with the flange material, must be welded to the flange.

Avoid welding debris and dirt in the threads of the housing and pipes.

Assembly

Remove welding slag and dirt from tubes and housing before the valve is mounted. Mount the valve as shown in fig. 6.

Colours and identification

The valves are Zinc-Chromated in the factory. If further corrosion protection is required, it can be painted. Precise identification of the valve is made via the ID-plate on the valve housing. In cases of doubt, please contact Danfoss. Danfoss accepts no responsibility for errors and omissions. Danfoss Industrial Refrigeration reserves the right to make changes to products and specifications without prior notice.