

Instructions

Safety relief valves
BSV 8

148R9506

148R9506

Installation

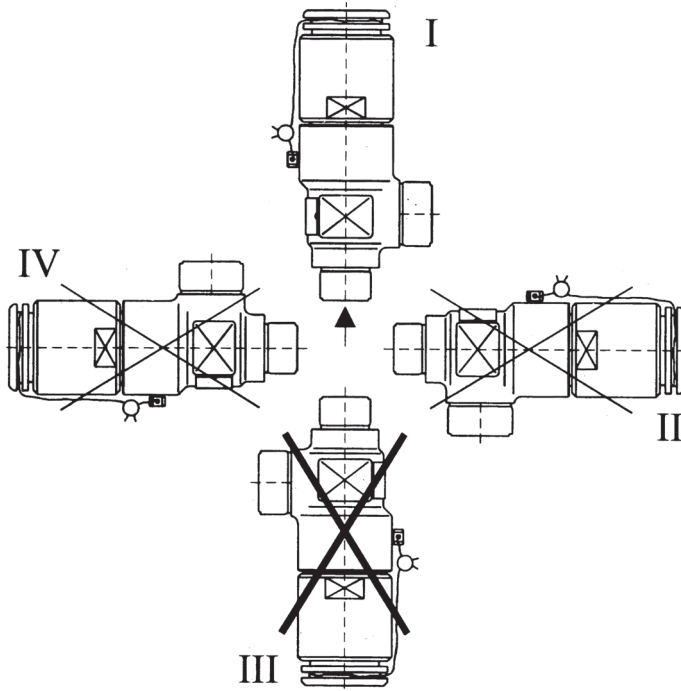


Fig. 1

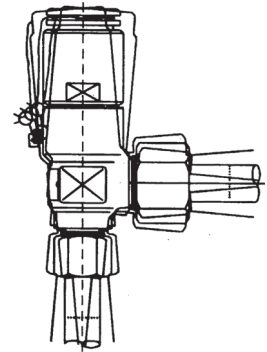


Fig. 2

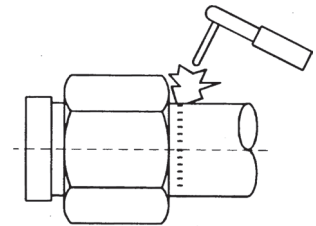


Fig. 3

BSV mounted as safety valve:
with fitting 148F3019

BSV mounted as pilot valve for POV:
with fitting 2469+069

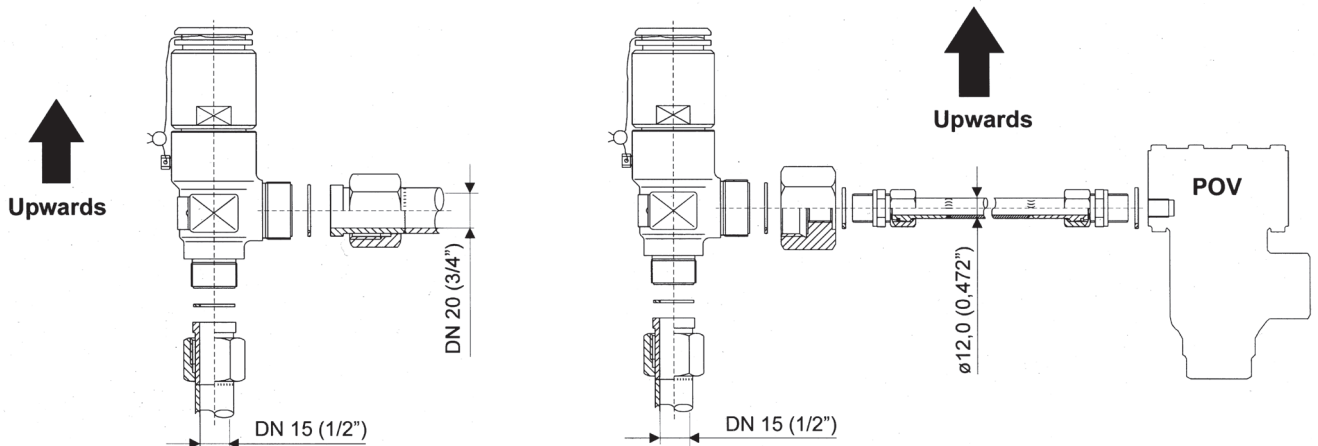


Fig. 4

ENGLISH

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

Temperature range for BSV used as an external safety relief valve:
-30/+100°C (-22/+212°F)

Temperature range for BSV used as a pilot valve for POV:
-50/+100°C (-58/+212°F)

Note:

For temperatures below -30°C (-22°F), the valve may not re-seat to a 100% gas tightness when activated.

Pressure range

The valve is designed for a max. working pressure of 25 bar g (362 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). By mounting of the safety valve it is important to avoid the influence of thermic and dynamic stress (vibrations) (fig. 2). 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. 3). 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. 4.

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 label 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.