

DSV 15 ND + SFV 15

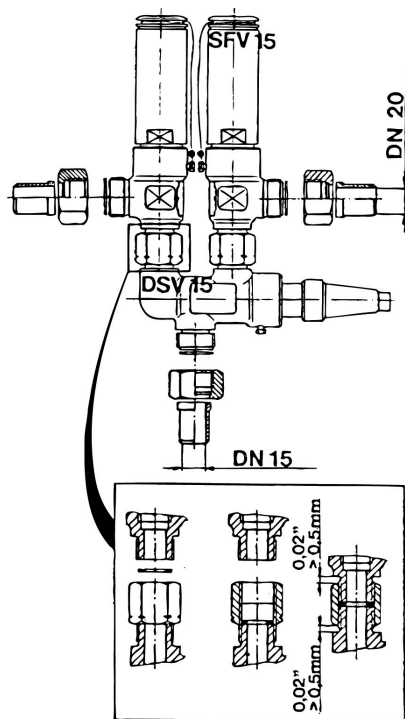


Fig. 1 - I

upwards

DSV 32 FND + SFV 15

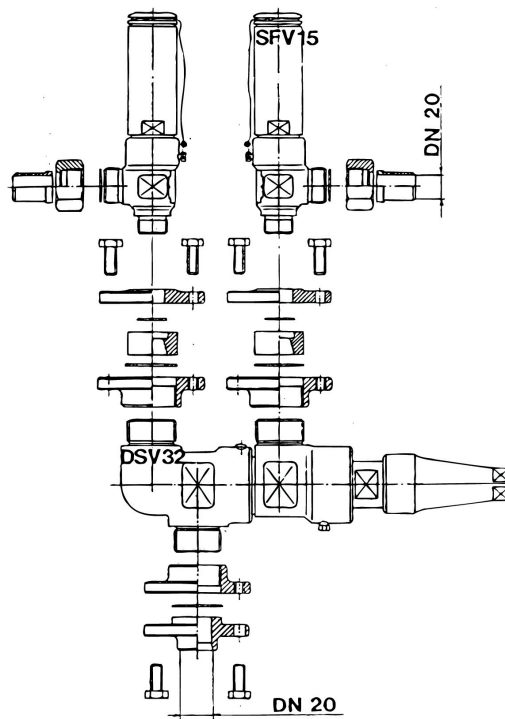


Fig. 1 - II

upwards

DSV 32 FD + SFV 20

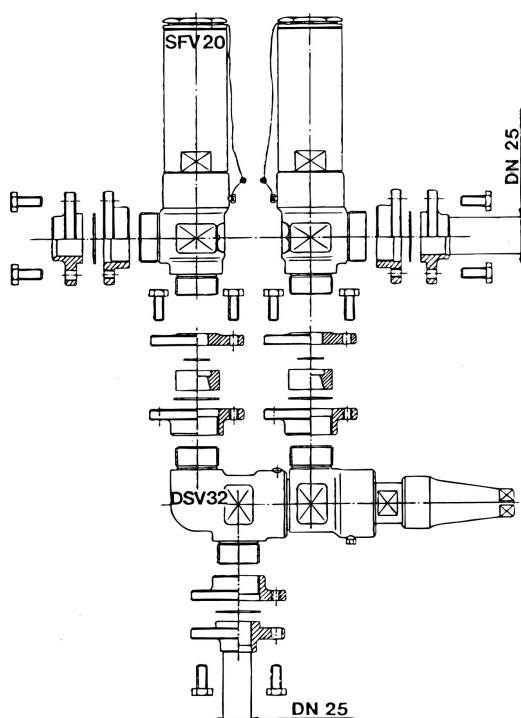


Fig. 1 - III

upwards

DSV 32 FD + SFV 25

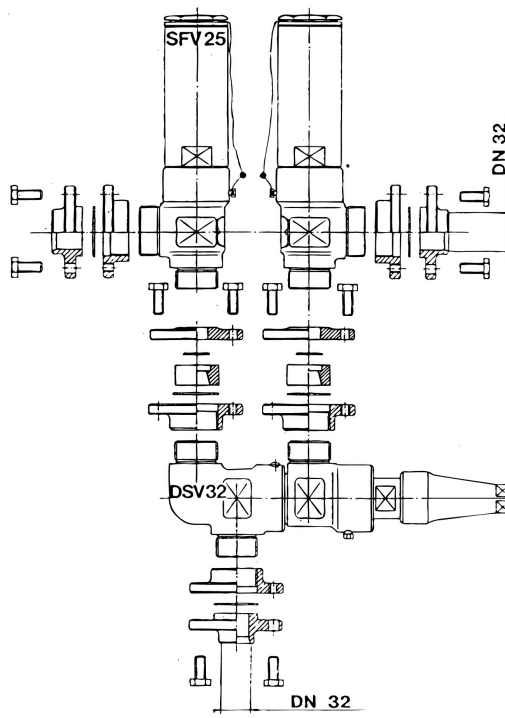


Fig. 1 - IV

upwards

## Installation

### Refrigerants

Applicable to all common non-flammable refrigerants, including R717 and non-corrosive gases/liquids dependent on sealing material compatability. Flammable hydrocarbons are not recommended. The valve is only recommended for use with safety valves type SFV. For further information please contact Danfoss.

### Temperature range

DSV: -50/+100°C (-58/+212°F)

### Pressure range

The valves are designed for a max. working pressure of 25 bar g (363 psi g).

### Installation

Applied in connection with safety valves (SFVs) installation instruction for safety valves must be followed. The double stop valve (DSV) and the two safety valves are to be mounted as indicated on fig. 1.

### IMPORTANT:

**THE INLET/OUTLET PIPE DIMENSIONS MUST NOT BE SMALLER THAN THOSE OF THE SAFETY VALVES.**

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. 2).

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 the pipes.

### Assembly

Remove welding slag and dirt from tubes and housing before the valve is mounted.

Mount the valve as shown in fig. 1.

### Operating Instructions

When the spindle is turned clockwise (fig. 3-I) the inlet socket C is connected to outlet B. When the spindle is turned anticlockwise (fig. 3-II) the inlet socket C is connected to outlet A.

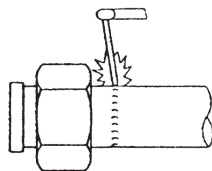
### Colours and identification

The DSV valves are painted with a red oxide primer in the factory. The external surface of the valve housing must be prevented against corrosion with a suitable protective coating after installation and assembly.

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.

DSV 15  
SFV 15



DSV 32  
SFV 20-25



Fig. 2

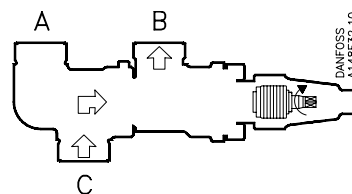


Fig. 3 - I

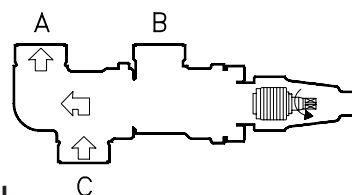


Fig. 3 - II



**DECLARATION OF CONFORMITY**  
The Pressure Equipment Directive 97/23/EC



**Name and Address of Manufacturer within the European Community**

Danfoss Industrial Refrigeration A/S  
Stormosevej 10  
PO Box 60  
DK-8361 Hasselager  
Denmark

**Description of Pressure Equipment**

Refrigerant safety valve  
**Type DSV 32**

Nominal bore	<b>DN 32</b> (1¼ in.)	
Classified for	<b>Fluid Group I</b> (all refrigerants (toxic, nontoxic, flammable and nonflammable)). For further details / restrictions - see Installation Instruction.	
Temperature range	DSV 32	-30°C/+100°C (-22°F/+212°F)
Restrictions	DSV 32	Only for use in systems in conjunction with two SFV 15 or two SFV 20 (Max. 3% pressure drop in upstream line according to prEN13136)
Maximum allowable working pressure	DSV 32	<b>25 bar</b> (363 psi) <b>-50°C/+100°C</b> (-58°F/+212°F)

**Conformity and Assessment Procedure Followed**

Category	<b>I</b>	
Module	<b>A</b>	
Nominal bore	Standard application	<b>DN 32</b> (1¼ in.)

**Name and Address of the Notified Body which carried out the Inspection**

TÜV-Nord e.V.  
Grosse Bahnstrasse 31  
22525 Hamburg, Germany



**Name and Address of the Notified Body monitoring the Manufacturer's Quality Assurance System**

TÜV-Nord e.V.  
Grosse Bahnstrasse 31  
22525 Hamburg, Germany

**References of Harmonised Standards used**

EN 10222-4

**References of other Technical Standards and Specifications used**

prEN 12284      prEN 13136

AD-Merkblätter      DIN 3158

**Authorised Person for the Manufacturer within the European Community**

**Name:** Morten Steen Hansen

**Title:** Production Manager

**Signature:**

Morten Steen Hansen

**Date:** 29/11/2001

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