



SUPERFREEZE



DUAL RELIEF VALVE MANIFOLD

TYPE : SDM

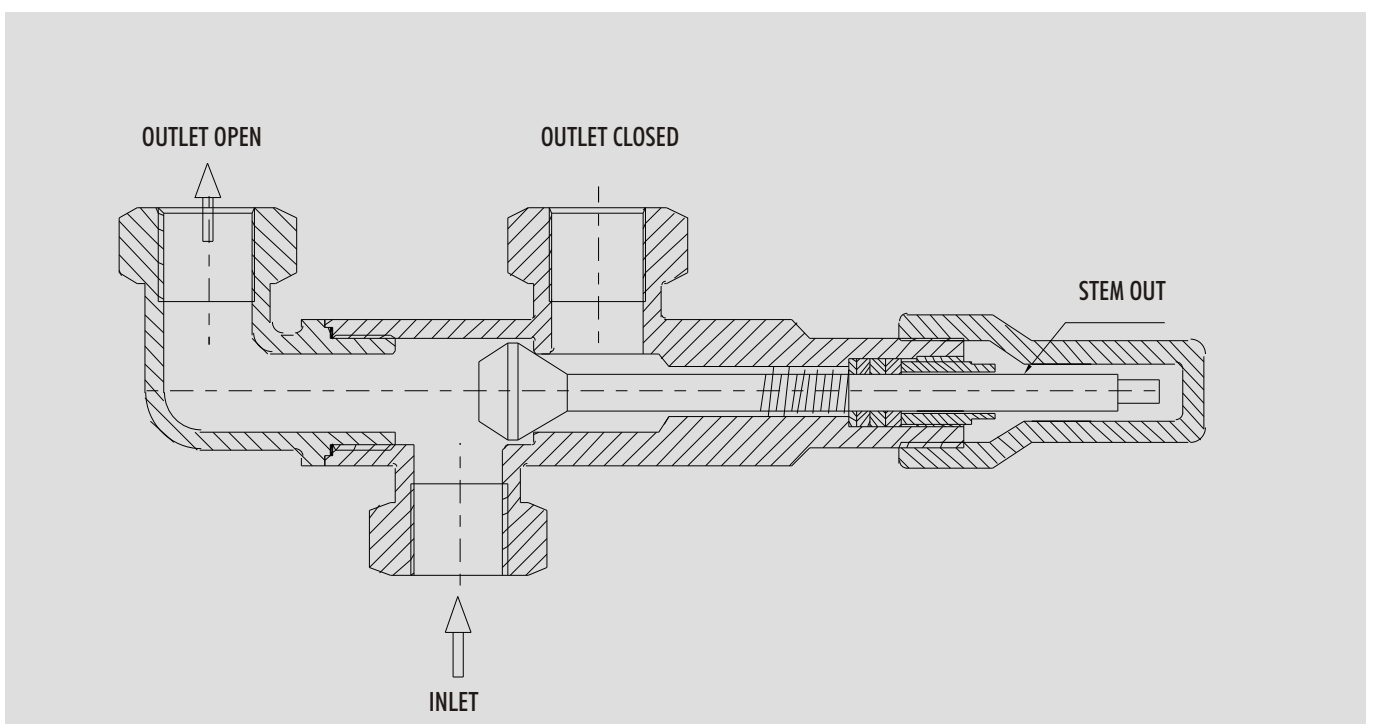
INTRODUCTION

In accordance with ANSI/ASHRAE 15-1994 Safety code for mechanical Refrigeration, pressure vessels having 10 cubic feet or more of internal gross volume, shall be fitted with dual pressure relief valves. This is typically accomplished using a pair of pressure relief valves inter connected via a threeway dual Manifold. In this one valve remains operational, while the other is being replaced there by eliminating the need to remove refrigerant from the vessel.

APPLICATION

These valves facilitate the parallel installation of pressure relief valves. Because three way valves will not isolate both pressures relief valves simultaneously, they are considered the only acceptable type of shut- off valve for use with refrigerant relief piping. Inlet and out let connections are threaded female.

The valve stem should be positioned so that only one Pressure relief valve is activated. While the valve can be either front-seated or back-seated, the back-seated position (as shown in diag. below) is recommended for normal use because it takes pressure off the packing and reduces the possibility of packing leak.

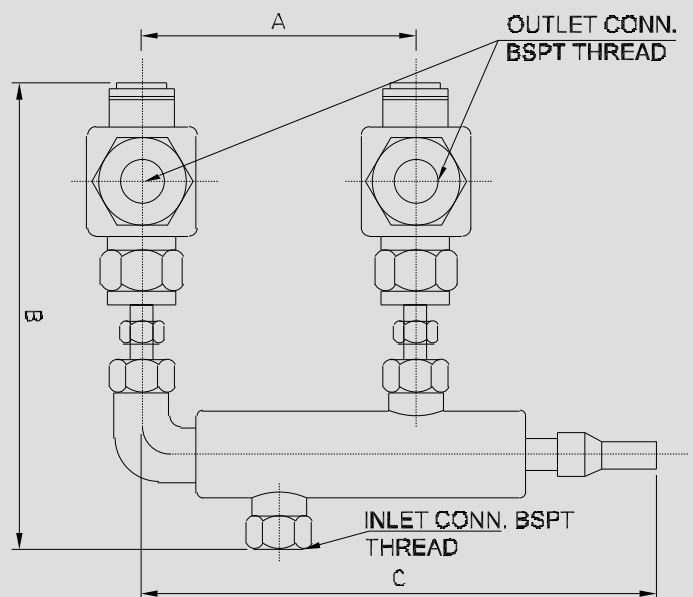


ADVANTAGES

1. Higher releasing capacity
2. No isolation valve required, which give more safety to the pressure vessel with at least one relief valve in operation.
3. One valve can be removed for repairs at any time.

INSTALLATION

SAFETY VALVE WITH MANIFOLD			
CAT NO.	A	B	C
SDM15	110	251	240
SDM20	110	251	240
SDM25	110	273	240





ORDERING INFORMATION

ITEM: MANIFOLD

Cat No	Connection Size (FPT)
SDM 15	1/2" X 1/2"
SDM 20	3/4" X 3/4"
SDM 25	1" x 1"

ORDERING INFORMATION FOR

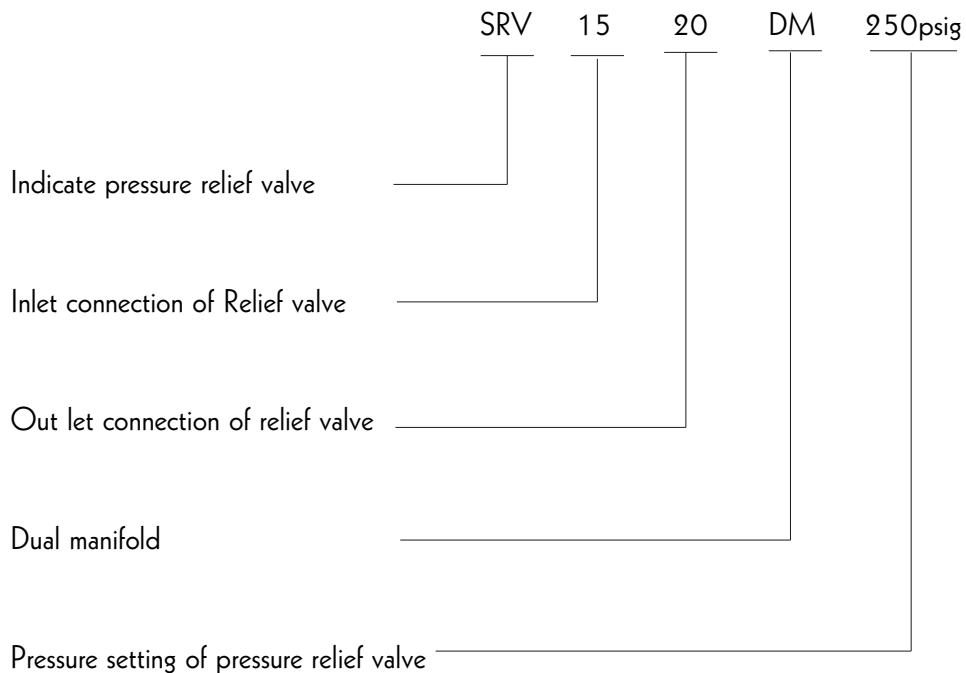
Set of Dual pressure relief valve with Manifold.

This set comprises of the following.

- a) Dual relief valve manifold
- b) Two pressure Relief valves
- c) Two nipple connectors for field assembly.

To order suffix "DM" to pressure relief valve catalog number and specify pressure setting

Example:





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GENERAL PRECAUTIONS

- Never expose face or body to a connected relief valve exit or piping connected thereto.
- Make sure valve setting and capacity (see Nameplate information Section) meet requirements per system design in accordance with local and national regulations.
- Install pressure-relief valve connected directly to the pressure vessel with no shut-off valves and at a location above the liquid refrigerant level.
- Never attempt to reset or change valve setting.
- Do not discharge valves prior to installation or when pressure testing.
- Do not install shut-off valves in line with pressure relief valves.
- Install valves in locations where they will not be damaged by moving equipment such as lift trucks, etc.
- Install valves in a manner that enables them to be replaced.
- Avoid trapped ice build-up between valves and other equipment.
- Do not install valves in a refrigerated space unless precautions are taken to prevent moisture migration into the valve body or the relief vent line.
- Be sure to isolate the valve and related piping from the refrigeration system and pump out pressure to zero before attempting to install or replace any pressure-relief valve and be sure to avoid residual refrigerant when doing so.
- Apply a modest amount of thread sealing compound to external pipe threads only in order to avoid getting compound inside valve.
- Vent relief valve exit to a safe outdoor location in an approved manner away from people and building openings.
- Pressure test all valves and related piping for leaks. When testing a dual pressure relief system, the three-way valve stem should be in the mid-position, ensuring that all valves are properly leak tested.
- When a dual pressure relief system is being put into service, the three-way valve stem should be positioned so that only one valve is activated. While the valve can be either front-seated (front port is closed) or back-seated (back port is closed), the back-seated position is recommended because it takes pressure off the packing and reduces the possibility of packing leaks.
- Use brackets or hangers to support pipe and prevent valve from being overly stressed.
- Do not put undue stress on valve by using it to stretch or align pipe.

ALWAYS REPLACE PRESSURE-RELIEF VALVES ONCE THEY HAVE DISCHARGED.

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