

## DUAL PRESSURE-RELIEF VALVES

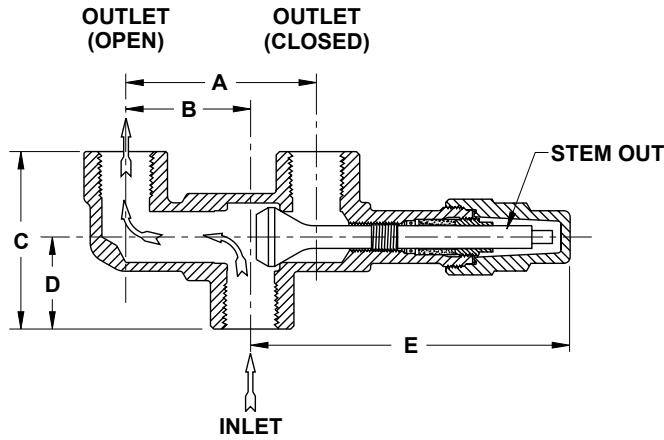
In accordance with ANSI/ASHRAE 15 Safety Standard for Refrigeration Systems, pressure vessels having 10 cubic feet or more of internal gross volume, shall be fitted with dual pressure-relief valves. This is typically accomplished using a pair of pressure-relief valves interconnected via a three-way dual shut-off valve. Even on smaller vessels this arrangement is often preferred because one valve remains operational, while the other is being replaced; thereby eliminating the need to remove refrigerant from the vessel.

### THREE-WAY DUAL SHUT-OFF VALVES

These rugged, forged steel bodied valves facilitate the parallel installation of pressure-relief valves. Because three-way valves will not isolate both pressure-relief valves simultaneously, they are considered the only acceptable type of shut-off valve for use with refrigerant relief piping. Their durable metal-to-metal seating and patented non-leak packing plus O-ring stem seal design combine for long, trouble-free service. Inlet and outlet connections are threaded female NPT all the same size.

Shown below is a three-way dual shut-off valve in the stem out position (backseated). The valve stem should be positioned so that only one pressure-relief valve is activated. While the valve can be either frontseated (front port is closed) or backseated (back port is closed), the backseated position (shown) is recommended for normal use because it takes pressure off the packing and reduces the possibility of packing leaks.

### THREE-WAY DUAL SHUT-OFF VALVE (SHOWN BACKSEATED)



CAT NO	CONNECTION SIZE (DN)	DIMENSIONS (MM)				
		A	B	C	D	E
H8021	1/2" FPT (15)	3.63"	2.38"	3.38"	1.75"	6.00"
H8022	3/4" FPT (20)	(92)	(60)	(86)	(44)	(152)
H8024	1" FPT (25)	5.88"	3.75"	4.00"	2.00"	8.00"
H8025	1 1/4" FPT (32)	(149)	(95)	(102)	(51)	(203)

Material: ASTM A105 Steel

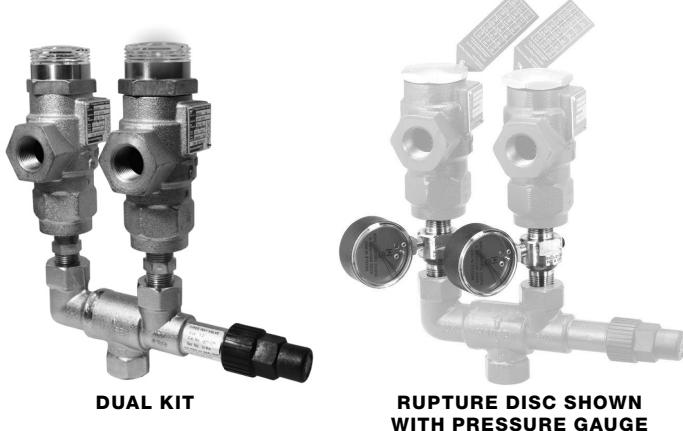
Safe Working Pressure: 600 PSIG (41 Bar)

### TO ORDER:

Please specify three-way dual shut-off valve catalog number and connection size. Add "S" suffix (socket weld) or "W" suffix (butt weld) to catalog number, ie H8021S, H8022W.

## DUAL PRESSURE-RELIEF KITS

Hansen's Dual Pressure-Relief Valve Kit includes one (1) three-way dual shut-off valve, two (2) pressure-relief valves, and two (2) nipples; for field assembly, The Dual Kit is available 1/2" to 1-1/4"



### TO ORDER:

Add "D" suffix for Dual Kit to pressure-relief valve catalog number. Specify inlet/outlet connection size and pressure setting. (i.e. H5600RD, H5613D, etc.)

## RUPTURE DISC ASSEMBLIES

Hansen rupture disc assemblies (RDAs) are used to indicate which pressure-relief valve has discharged. Rupture disc assemblies are required when using Hansen pressure-relief valves in halocarbon applications because the high cost of such refrigerants demands extreme tightness. For more detailed information, including ordering and ASME capacity requirements, see Hansen Bulletin K209.

### CAUTION

Hansen pressure-relief valves and three-way dual shut-off valves are only for refrigerant gas relief and cannot be used for liquid relief. These instructions and related safety precautions must be read and completely understood before selecting, using, or servicing these valves. Only knowledgeable, trained refrigeration mechanics should install, operate, or service valves. Stated temperature and pressure limits should not be exceeded. Valves should not be removed unless evacuated to zero pressure. See also safety precautions in current List Price Bulletin and Safety Precautions Sheet supplied with product. Escaping refrigerant might cause personal injury, particularly to eyes and lungs.

### WARRANTY

Hansen valves are warranted against defective materials and workmanship for one year Ex Works our factory. No labor is included. Terms and conditions of sale apply.



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