

## **Pressure Relief Assembly**

## Purpose:

The primary function of the pressure relief assembly is to protect the gas outlet pipeline vaporizers from leaking due overpressure. By rupturing a pre-set disc, the chemical can flow into the assembly and open the pressure relief valve to vent the gas to a safe location if the pressure reaches 560 psig. Pressure relief assemblies are available for sulfur dioxide chlorine. and ammonia chemical lines.



#### **Included:**

Rupture disc and holder Diaphragm protected pressure switch (and optional gauge) Pressure Relief Valve Piping and fittings

## **Specifications:**

Hydro Instruments

Piping is made from 1" schedule 80 seamless carbon steel pipe, A-106, Grade B. Fittings are made from 3000 pound forged carbon steel, A-105.

Rupture disc holder shall be of flanged type, or union type (*pictured*) upon customer request and shall have a rupture disc set to 400 psig at 72 °F. All rupture disc and holders shall be ASME certified.

A diaphragm protected pressure switch shall be installed downstream of the rupture disc for remote indication of a burst disc. This switch shall be factory set at 40 psig (2.75 barg).

Pressure Relief valve shall have a 1" MNPT inlet and 1.5" FNPT outlet. Relief pressure is factory set at 560 psig. Vent piping shall be seamless schedule 80 carbon steel pipe, A-106 and shall slope downward and include and insect screen.

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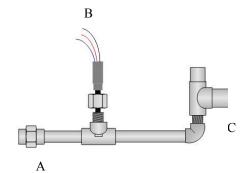


# **Pressure Relief Assembly**

Pressure Relief Valve Assembly for Chlorine/ Sulfur Dioxide Piping

Model NRDPRV- - -

A B C



Position	Feature	Description
A. Rupture Disc Assembly	1	RDH-100 1" NPT union type holder with RD-400 Silver rupture disc (400 psig @ 72°F), vacuum support, ASME
	2	certified. (Fike)  RDH-100 1" NPT union type holder with RD-338 Silver rupture disc (338 psig @ 72°F), non-fragmenting disc, vacuum support. ASME certified. (Fike)
	3	RDH-200 1" NPT flanged holder with RD-300 Tantalum rupture disc (300 psig @ 72°F), non-fragmenting, can handle vacuum, ASME certified. (Continental).
B. Pressure Switch	1	PSL-UECL2-EW Pressure switch with Tantalum diaphragm protector, 1 adjustable switch 25-65 psig range and overpressure rated to 600 psig, proof pressure 1000 psig.
	2	DPGS-A-EW 3.5" pressure gauge (0-600 psi) with 0-100 psi adjustable pressure switch. 2000 psi proof pressure, 9500 psi burst. Tantalum diaphragm protector.
	3	<b>DPGS-V12-EW</b> Digital pressure gauge with switch. 0-600psig.
C. Pressure Relief Valve	1	PRV-560-2850H 1" MNPT inlet and 1.5" FNPT outlet, Carbon Steel inlet and body with 316 SS internals. Pressure relief set at 560 PSI. (See note 3)

Other Configurations Available Upon Request. Contact Hydro Instruments For More Information.

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