

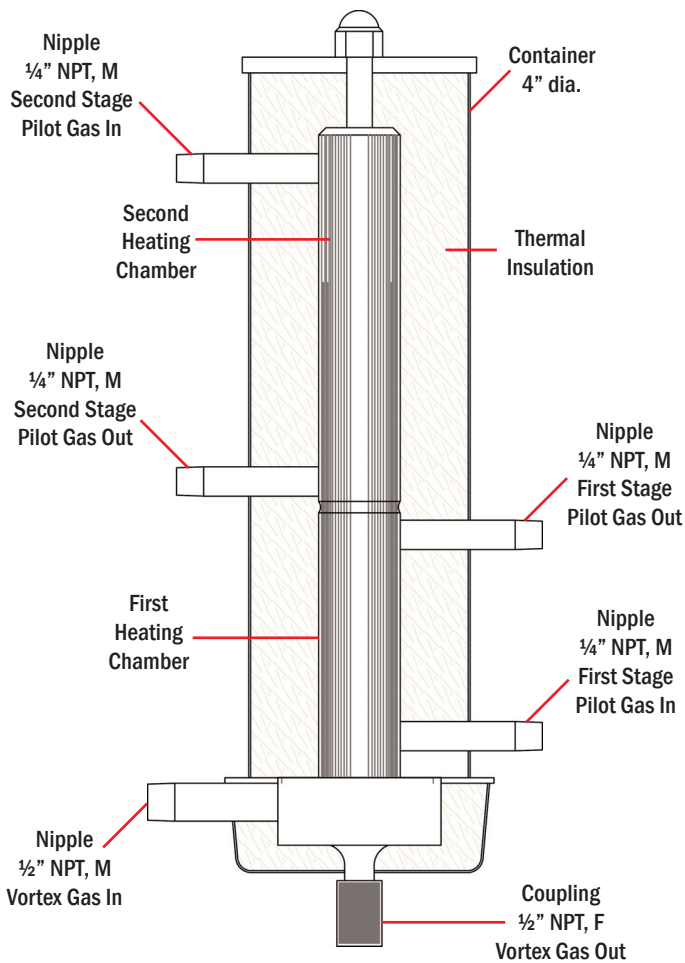


Universal Vortex, Inc.

A Thermal Solution...

Dual Path Vortex Pilot Gas Heater

A **Dual Path Vortex Pilot Gas Heater (VPGH-DP)** performs on the same principles as the VPGH. It has a larger heating capacity and can efficiently heat pilot gas flow twice as much as the VPGH's pilot gas flow. The **VPGH-DP's** heat exchanger is set up on the Vortex Heater's walls. The heat exchanger consists of two separate chambers, each of them designed to heat a separate pilot gas flow. Therefore, the **VPGH-DP** can operate two pilots at once and independently of each other.



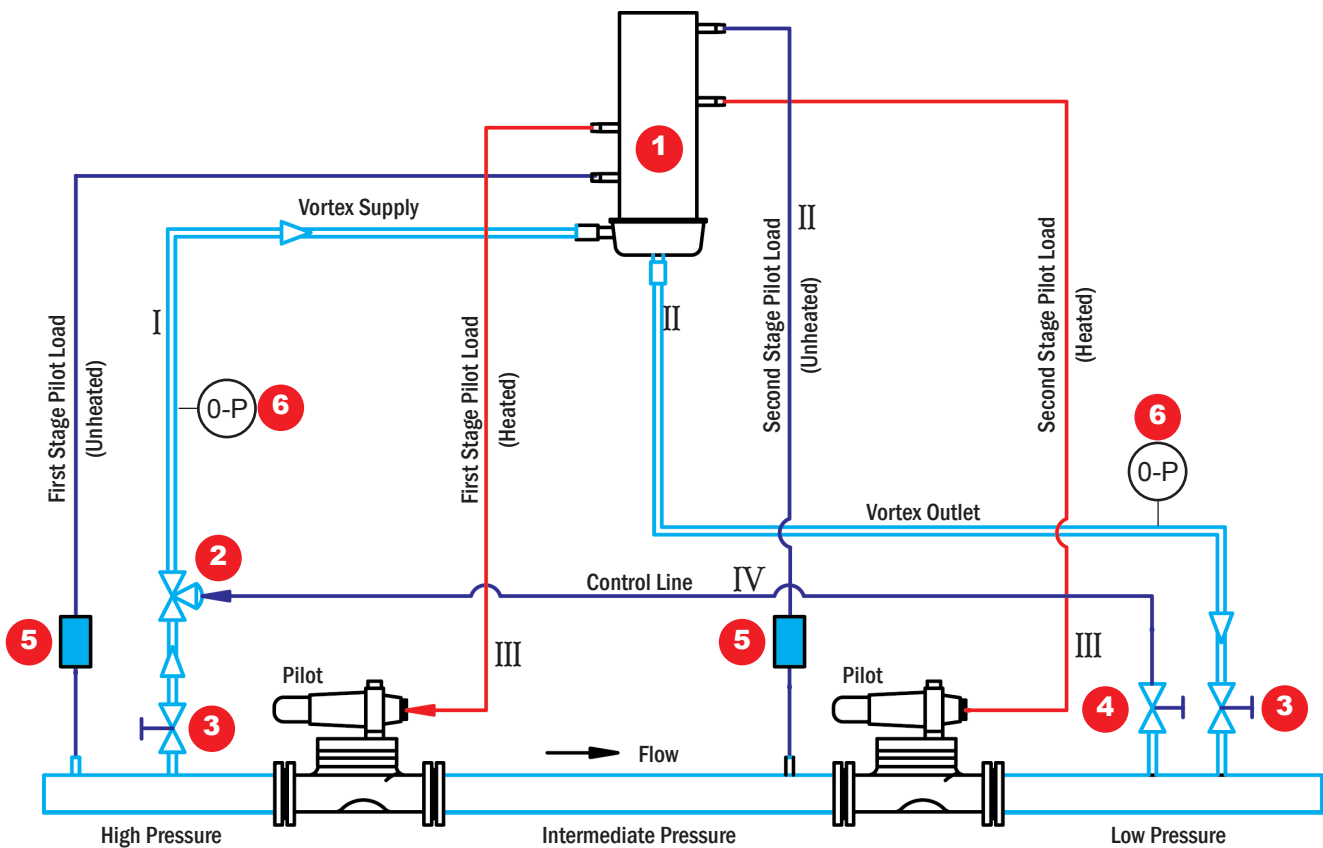
Field Installation Photos of the **VPGH-DP**



Figure 1

Dual Path Vortex Pilot Gas Heater (VPGH-DP)
[as supplied by Universal Vortex]

Only one **VPGH-DP** is needed to serve pressure regulation run with either standby monitor or with working monitor in two-stage sequences.



Material Specification

MATERIAL - ITEM LIST:

- | | |
|---|---------------------------------------|
| 1 Dual Path Vortex Pilot Gas Heater | 4 Lockup Valve (optional) 1/4" NPT |
| 2 Fisher 627M Pilot w/orifice no less than 3/8" | 5 Pilot Gas Filter |
| 3 Lockup Valve (optional) 1/2" NPT | 6 Recommended Start-Up Pressure Gauge |

Installation and Start-Up

The **VPGH-DP** installation, overpressure protection, start-up and insulation requirements are the same as for the VPGH. The **VPGH-DP** installation schematic for two-stage pressure regulation with monitor is shown in Figure II. It is recommended to direct the first-stage pilot gas to the **VPGH-DP**'s first chamber, and the second-stage pilot gas to the second chamber. In the case of a standby monitor sequence, heated pilot gas from the first chamber goes to the worker and the heated pilot gas from the second chamber goes to the monitor.



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