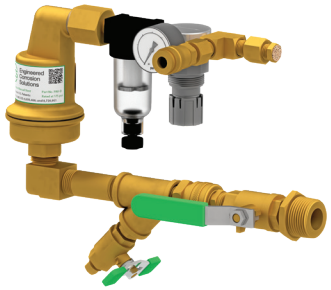
PAV-D/DQ

ECS Protector Vent

Engineered Corrosion Solutions



Features

ECS Protector Vent (U.S. Patents 8,720,591, 9,144,700, 9,186,533 and 9,610,466)

- Float Valve - Prevent water discharge if system trips
- Backpressure Regulator - Prevent total system depressurization
- Quick Connect - Easy installation and servicing
- Isolation Ball Valve Included

General Description

The ECS Protector Vent (PAV-D/DQ) provides oxygen venting in dry pipe fire sprinkler systems. As a fire sprinkler system is filled with a continuous supply of nitrogen gas from the ECS Advanced**IQ** Nitrogen Generator System, the PAV-D/DQ allows oxygen rich gas to be vented from the fire sprinkler system. Over a short period of time the ECS Protector Vent will almost completely remove oxygen from the fire sprinkler system (<2% oxygen).

The ECS Protector Vent must be installed as shown on the engineering design documents. If a location is not specified install the PAV-D/DQ vent on the fire sprinkler system riser on the system side of the main control valve. The PAV-DQ includes the special 5/32" tubing fitting and is used in conjunction with the ECS Advanced**IQ** Vent Controller.

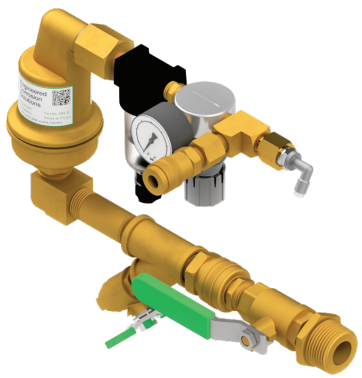
The ECS Protector Vent is equipped with a levered float valve that allows oxygen to discharge but prevents liquid water from leaking through the restricted venting orifice in the event that water enters the fire sprinkler system. A backpressure regulator is also included to prevent total system depressurization from the vent assembly.

The restricted venting orifice allows oxygen to be vented from the fire sprinkler system at a controlled rate to achieve a minimum nitrogen concentration of 98%. A special fitting is provided to receive 5/32" tubing when the vent is used in conjunction with the Advanced**IQ** Vent Controller.

There are three (3) models of the ECS Protector Oxygen Removal Vent, the PAV-D, the PAV-DQ and the PSV-D (PSV-DE). All three units operate as described above but the PSV-D (PSV-DE) model includes an electronic solenoid valve wired to a control panel that automatically closes the vent once the desired nitrogen concentration has been reached. The control panel is also equipped with an on/off switch and vent button to provide a means to allow the venting process to restart should oxygen be reintroduced into the fire sprinkler system.

Specifications

Dimensions	13.5" (W) x 7.5" (H) x 4.25" (D) 343mm (W) x 191mm (H) x 108mm (D)
Weight	7 Lbs (3.1 Kg)
Service Pressure	Up to 175 PSIG (12 Bar)
System Connection	1" NPT Male (25.4mm)
Temperature Range	40˚F - 125˚F (4.5˚C - 51˚C)



PAV-DQ

PAV-D/DQ
ECS Protector Vent

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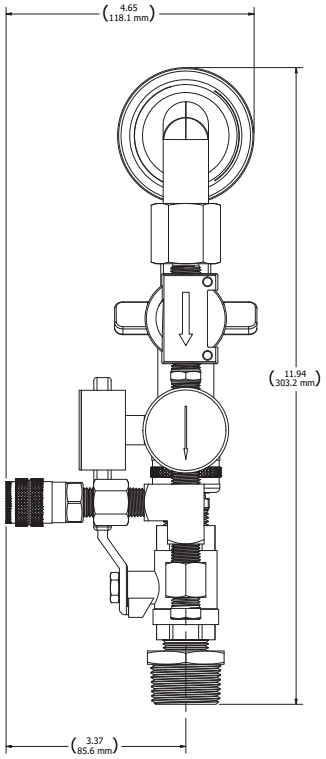
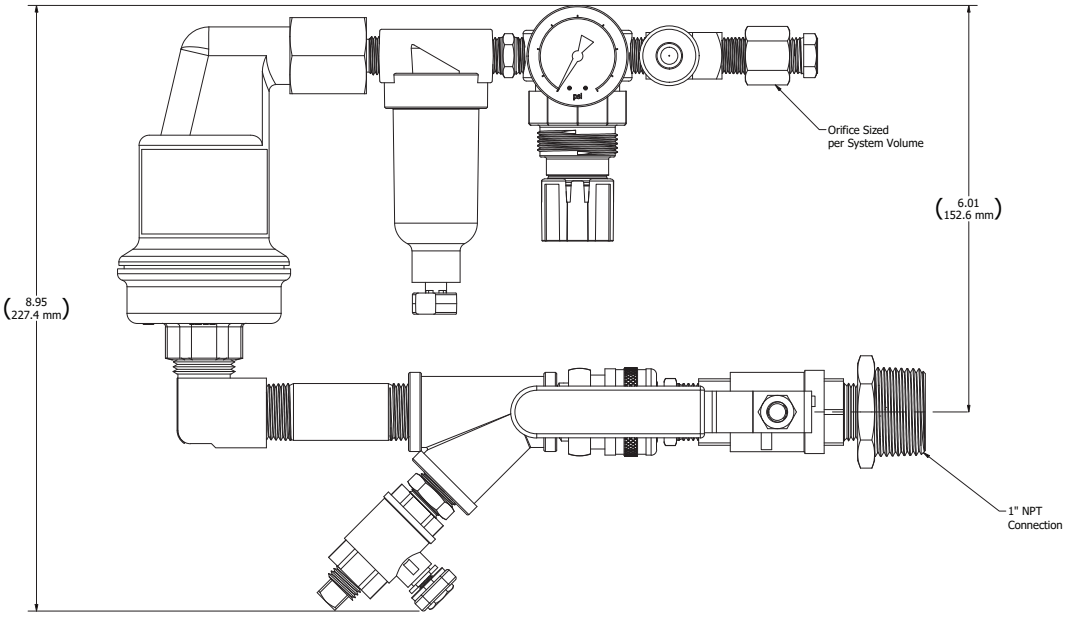
PAV-D

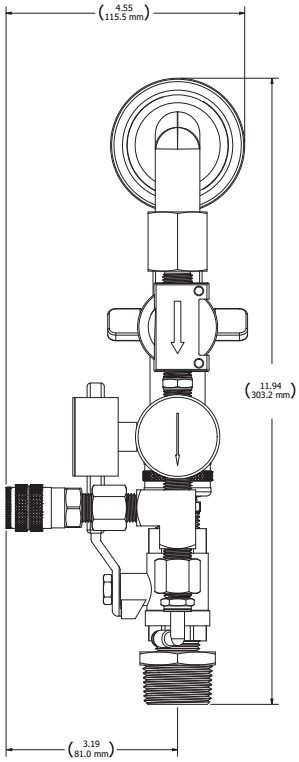


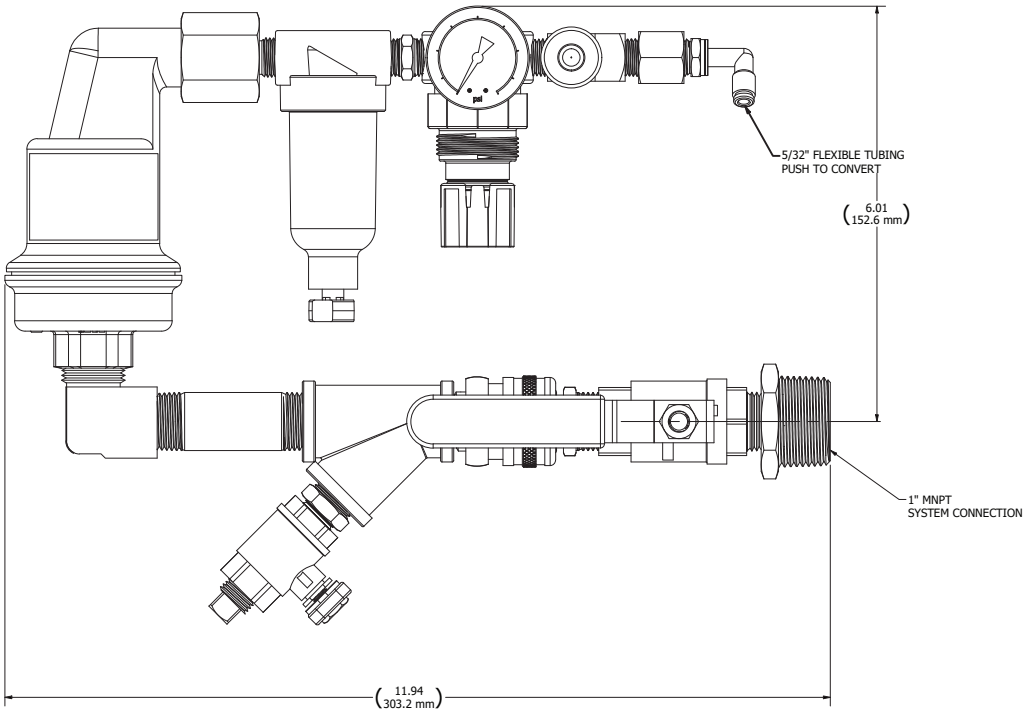


(Dimensions in inches unless otherwise stated.)

PAV-DQ

*For use with Advanced**IQ** Vent Controller*





(Dimensions in inches unless otherwise stated.)