

## MODEL

### Odorant Flow Loop Orifice Fitting

## APPLICATIONS

A single fitting to create a proportional flow for the addition of odorant to small to medium bypass streams

## FEATURES

- Integrated check valves to eliminate over-odorization at zero or ultra-low flows
- Compact 2.5" x 3" block construction
- 500 psig pressure rating
- Stocked in Calgary

## VALUE

Simple design with integrated low-flow check valves will speed up installation and reduce piping errors. The internal orifice plate is held in place by a snap ring that can be easily changed in the field to match expected flows.

Flows by simply changing the orifice size. Customers can customize the flow block to provide the necessary bypass flow to fit their applications, Envent Engineering can supply any orifice size required.

Affordable bypass vessel designs using off-the-shelf tanks and fittings. 150 psig maximum recommended operating pressure.



## Estimated Natural Gas Flow to create 5 inches differential

Orifice (1" NPT) 5" w.c. ΔP	1 PSIG	15 PSIG	30 PSIG	60 PSIG
$Q = \text{Constant} \sqrt{(w.c./\rho)}$	ACFM	ACFM	ACFM	ACFM
0.25 inches, constant=1.3	3.5	2.5	2.1	1.6
0.375 inches, constant=2.8	7.5	5.5	4.5	3.4
0.5 inches, constant=4.6	12.3	9.0	7.3	5.7