

# Purge Assemblies

## FPV-1 Series

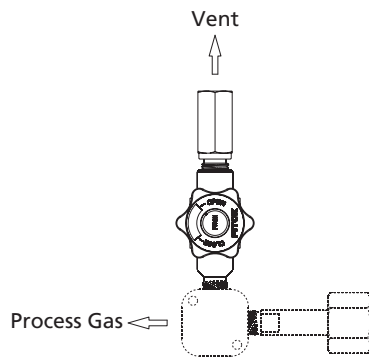
### Technical Data

- ⦿ Maximum working pressure: 4500 psig
- ⦿ Material of the main components:  
 Seat: PCTFE (diaphragm valve)  
 Diaphragm: Elgiloy (diaphragm valve)
- ⦿ Temperature: -10°F~+150°F (-23°C~+65°C)
- ⦿ Leak rates:  
 Internal:  $\leq 1 \times 10^{-9}$  mbar·l/s helium  
 External:  $\leq 1 \times 10^{-9}$  mbar·l/s helium
- ⦿ Minimum orifice:  $\Phi 0.13''$  (3.2 mm)

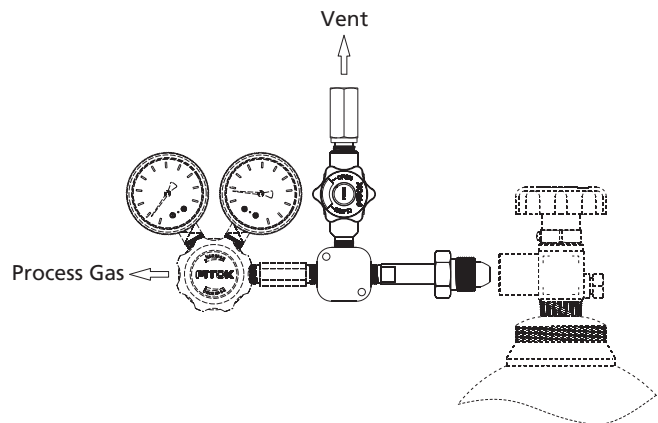
### Product Types

- ⦿ Straight Purge Assemblies  
 Connecting the Inlet (auxiliary) port of the regulator or in between the regulator and the cylinder to allow the corrosive or toxic gas to be vented through to a safe location.

- ⦿ Tee Purge Assemblies  
 Connecting the cylinder with the regulator, allowing process gas flowing through to purge out the remaining contamination in between the cylinder and the regulator to prevent the high purity gas system from atmospheric contamination.



Port Encoding Example: FPV - 1S6L - 01 - 00

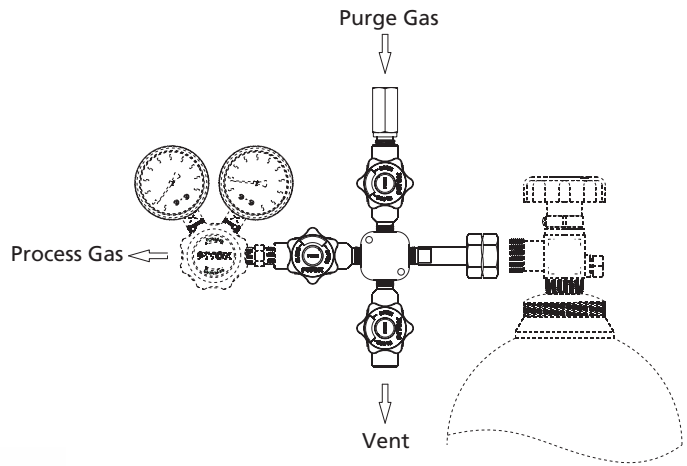


Port Encoding Example: FPV - 1T6L - C580 - 00 - 00

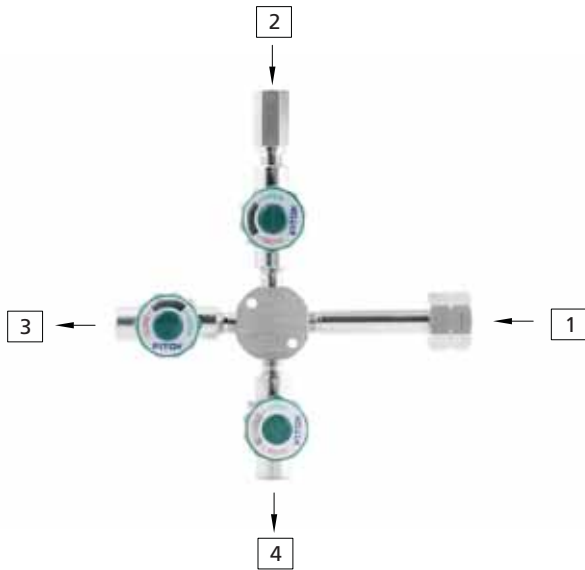
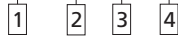


© Cross Purge Assemblies

Connecting the cylinder and the regulator with an additional shutoff diaphragm valve to the Tee Purge Assemblies to utilize inert gas from the outside to purge out the contamination in between the cylinder and the regulator.



Port Encoding Example: FPV - 1C6L - DIN6 - 00 - 00 - 00



Part Number Description

FPV - 1C      6L      -      DIN1      -      00      -      00      -      00

| Product Types |                           | Body Material |         | Connection 1 |  | Connection 2                                 |                   | Connection 3         |  | Connection 4         |  |
|---------------|---------------------------|---------------|---------|--------------|--|--|-------------------|----------------------|--|----------------------|--|
| S             | Straight Purge Assemblies | 6L            | 316L SS | 00           | 1/4" Female NPT  | 00   | 1/4" Female NPT   | Same as Connection 2 |  | Same as Connection 2 |  |
| T             | Tee Purge Assemblies      | SS            | 316 SS  | 01           | 1/4" Male NPT  | 01   | 1/4" Male NPT     |                      |  |                      |  |
| C             | Cross Purge Assemblies    |               |         | C_ _ _       | CGA Number (USA)   | 10   | 1/4" Tube Fitting |                      |  |                      |  |
|               |                           |               |         | DIN_         | DIN Number (Germany)   | 20   | 6 mm Tube Fitting |                      |  |                      |  |
|               |                           |               |         |              | Refer to page B-28 for cylinder connections, according to the specific gas type. Cylinder connections compliant to other standards are available upon request. Please contact FITOK for details. | 21   | 8 mm Tube Fitting |                      |  |                      |  |
|               |                           |               |         |              |  | Other connections are available upon request |                   |                      |  |                      |  |