

# Point-of-Use Panels



# Contents

General Point-of-use Panels	
FPR-1 Series	A-125
<hr/>	
Sensitive Point-of-use Panels	
FPR-1S Series	A-128
<hr/>	

# General Point-of-Use Panels

## FPR-1 Series

### Features

- With a RDGC Series Regulator
- With diaphragm valve to cut off the gas supply
- With special cleaning and packaging, applicable to oxygen-enriched atmospheres

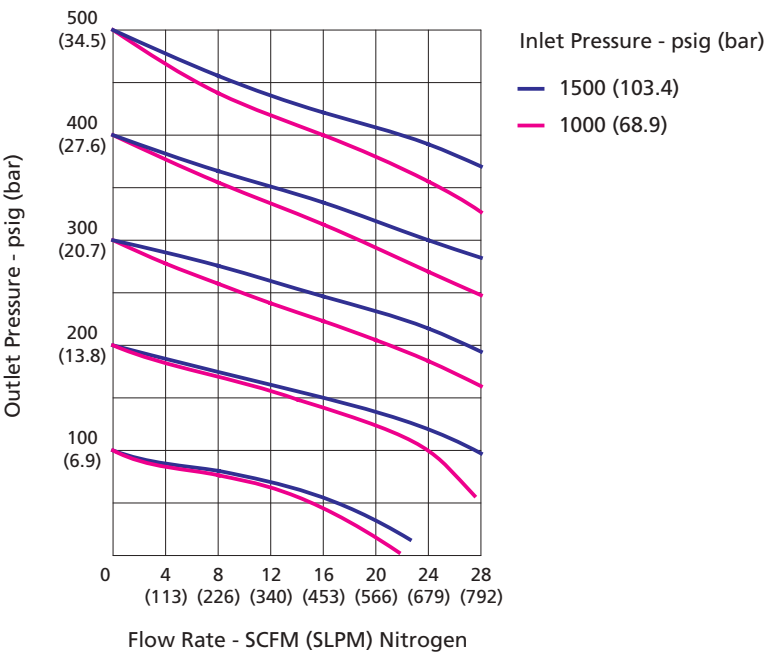
### Technical Data

- Maximum inlet pressure: 1500 psig
- Outlet pressure range: 0 ~ 25, 0 ~ 50, 0 ~ 100, 0 ~ 250 or 0 ~ 500 psig
- Material of the main components:
  - Seat: PCTFE (regulator and diaphragm valve)
  - Diaphragm: Hastelloy (regulator), cobalt alloy (diaphragm valve)
  - Diaphragm valve body: 316L SS
  - Filter: 316L SS
- Temperature: -10 °F ~ 150 °F (-23 °C ~ 65 °C)
- Valve leak rates (helium):
  - Internal:  $\leq 1 \times 10^{-7}$  std cm<sup>3</sup>/s
  - External:  $\leq 1 \times 10^{-9}$  std cm<sup>3</sup>/s
- Flow coefficient (regulator Cv): 0.14



Model: FPR-1U6L-15-50-11-B-11

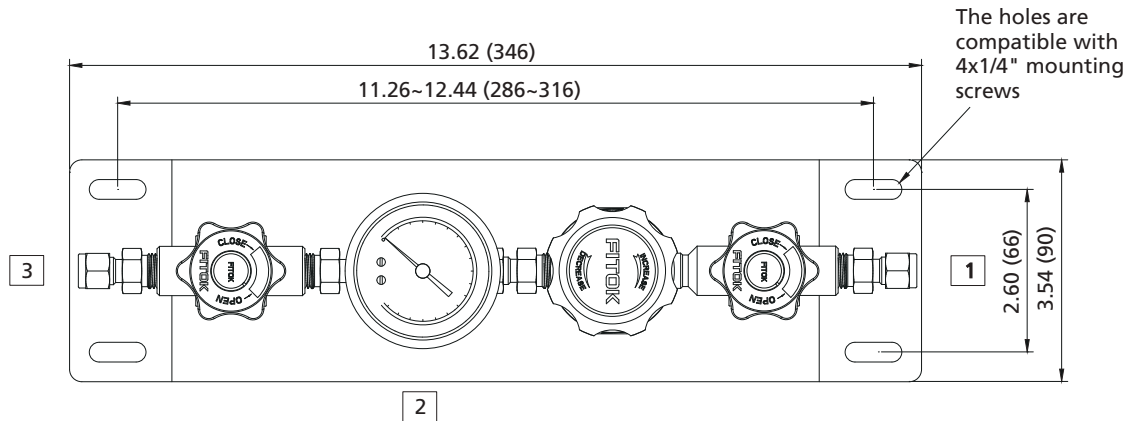
### Typical Flow Chart



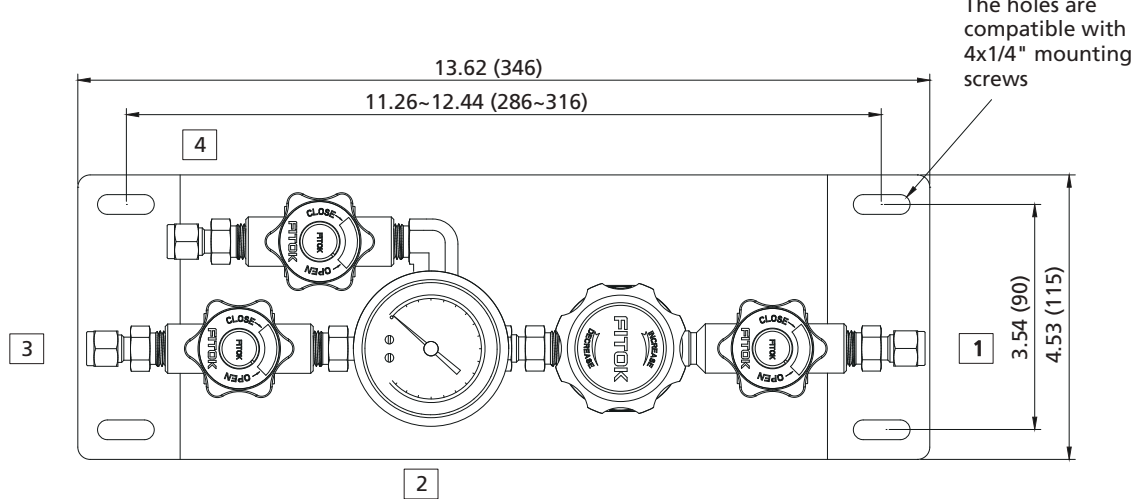
## Dimensions

Dimensions, in inches (millimeters), are for reference only.

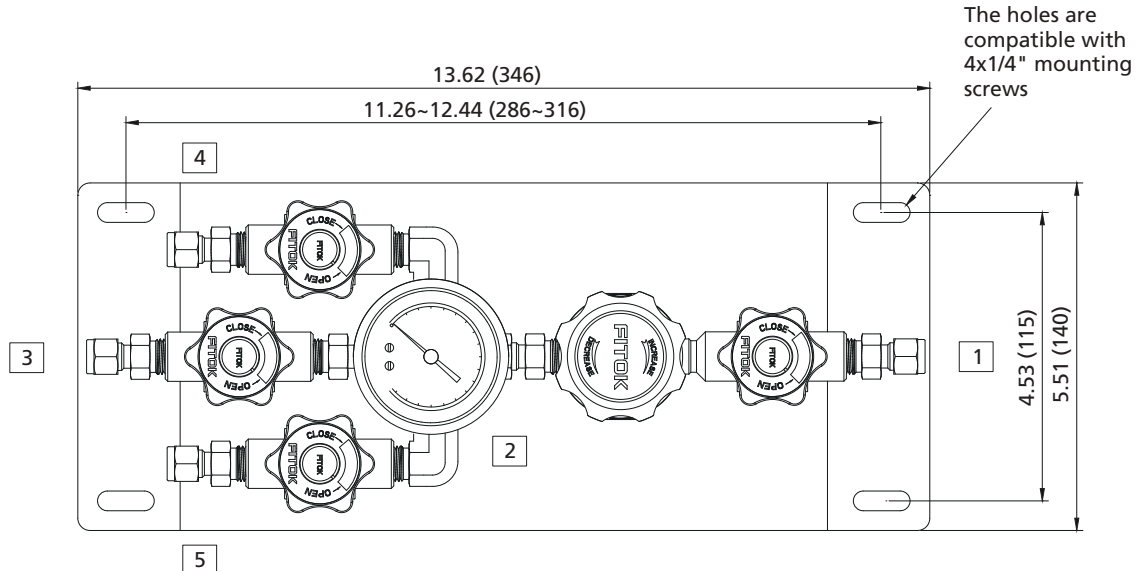
### Single-outlet



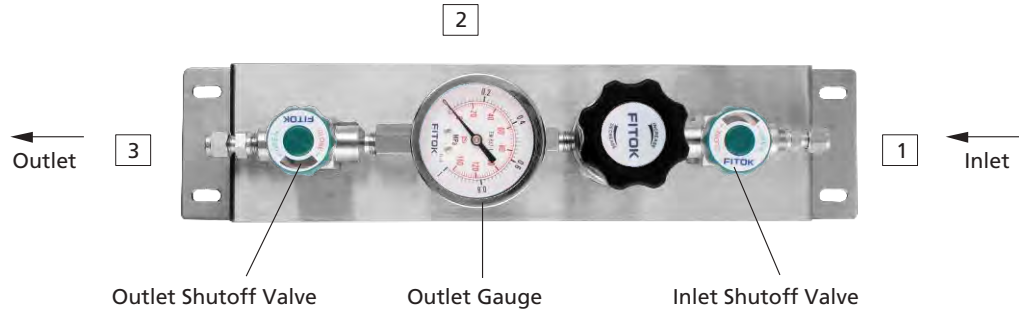
### Dual-outlet



### Triple-outlet



Components Introduction



Ordering Number Description

FPR – 1C 6L – 15 – 100 – 10 – M – 10 – 00 – 00																					
Outlet Option		Inlet Pressure P1		Connection 1		Connection 2		Connection 3		Connection 4											
U	Single-outlet	15	1500 psig	00	1/4" Female NPT	B	With Gauge (psi/bar)	Same as Connection 1		None											
T	Dual-outlet	Outlet Pressure Range P2		01	1/4" Male NPT	M	With Gauge (psi/MPa)	Same as Connection 1		Same as Connection 1											
C	Triple-outlet			10	1/4" Tube Fitting	P	Plug			Connection 5											
Body Material (Regulator)				11	3/8" Tube Fitting	00	1/4" Female NPT														
6L	316L SS			20	6 mm Tube Fitting	Other connections are available upon request															
SS	316 SS			21	8 mm Tube Fitting																
HC	Hastelloy C-276			None																	
B	Brass (Nickel-plated)																				
		25	0~25 psig																		
		50	0~50 psig																		
		100	0~100 psig																		
		250	0~250 psig																		
		500	0~500 psig																		

- Notes:
- 1. "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.
  - 2. Before ordering, please read **User's Guide** on A-12.
- Examples of part number:
- a. 2-port type (1 in, 1 out): FPR-1U6L-15-50-11-B-11
  - b. 3-port type (1 in, 2 out): FPR-1TSS-15-100-00-B-00-00

# Sensitive Point-of-Use Panels

## FPR-1S Series

### Features

- With a RDSC Series sensitive diaphragm regulator
- With diaphragm valve to cut off the gas supply
- With special cleaning and packaging, applicable to oxygen-enriched atmospheres

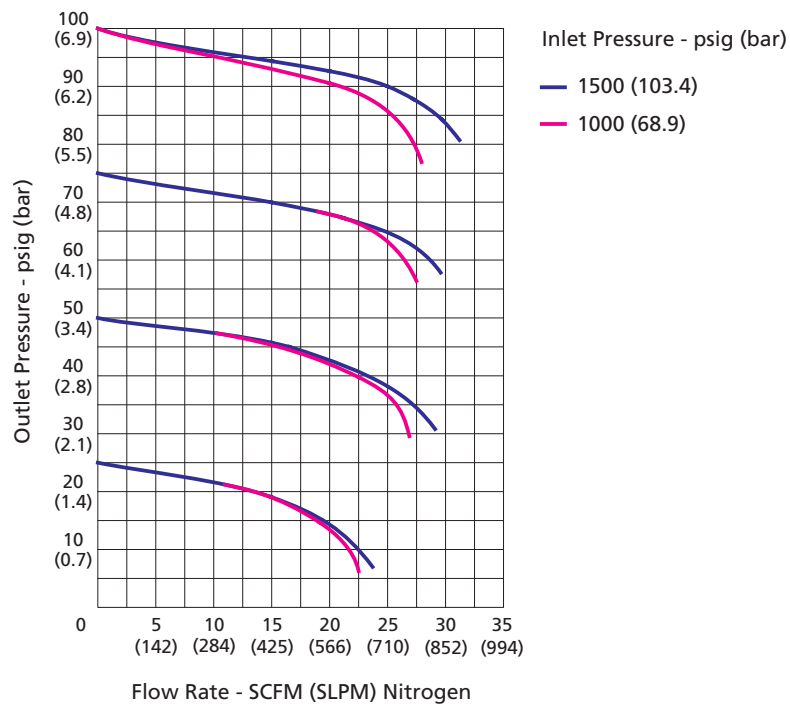
### Technical Data

- Maximum inlet pressure: 1500 psig
- Outlet pressure range: 0 ~ 25, 0 ~ 50, 0 ~ 100, 0 ~ 150 or 0 ~ 200 psig
- Material of the main components:
  - Seat: PCTFE (regulator and diaphragm valve)
  - Diaphragm: Hastelloy (regulator), cobalt alloy (diaphragm valve)
  - Diaphragm valve body: 316L SS
  - Filter: 316L SS
- Temperature: -10 °F ~ 150 °F (-23 °C ~ 65 °C)
- Valve leak rates (helium):
  - Internal:  $\leq 1 \times 10^{-7}$  std cm<sup>3</sup>/s
  - External:  $\leq 1 \times 10^{-9}$  std cm<sup>3</sup>/s
- Flow coefficient (regulator Cv): 0.06



Model: FPR-1SUSS-15-50-10-B-10

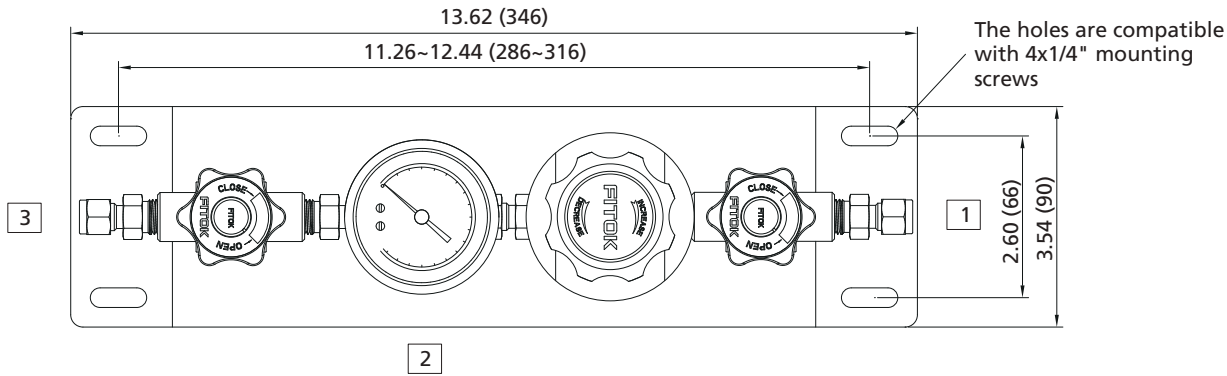
### Typical Flow Chart



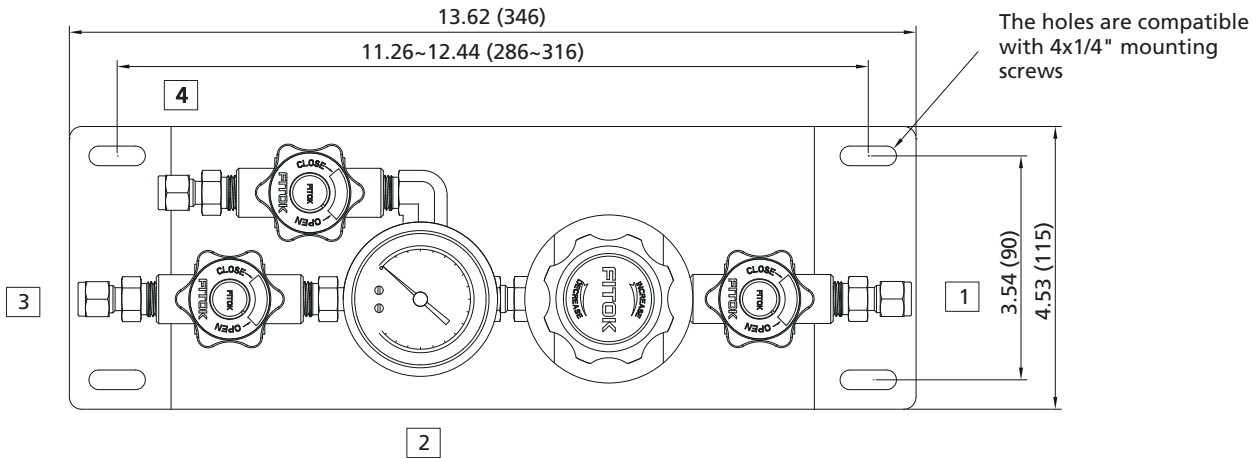
Dimensions

Dimensions, in inches (millimeters), are for reference only.

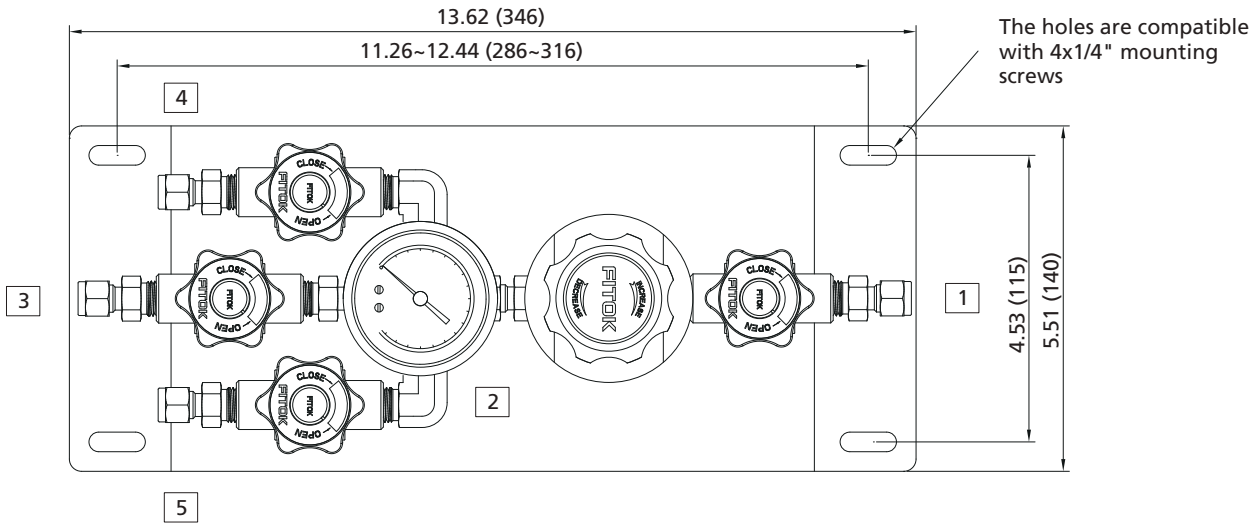
Single-outlet



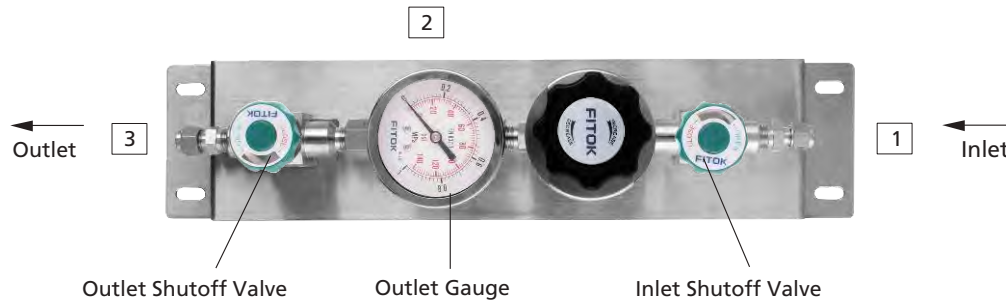
Dual-outlet



Triple-outlet



## Components Introduction



## Ordering Number Description

FPR – 1SC 6L – 15 – 100 – 10 – M – 10 – 00 – 00											
Outlet Option		Inlet Pressure P1		Connection 1		Connection 2		Connection 3		Connection 4	
U	Single-outlet	15	1500 psig	00	1/4" Female NPT	B	With Gauge (psi/bar)	Same as Connection 1			None
T	Dual-outlet	Outlet Pressure Range P2		01	1/4" Male NPT	M	With Gauge (psi/MPa)			Same as Connection 1	
C	Triple-outlet			10	1/4" Tube Fitting	P	Plug				
Body Material (Regulator)				11	3/8" Tube Fitting	00	1/4" Female NPT	Connection 5			
				20	6 mm Tube Fitting	None					
				21	8 mm Tube Fitting	Same as Connection 1					
				Other connections are available upon request							
6L	316L SS	25	0~25 psig								
SS	316 SS	50	0~50 psig								
B	Brass	100	0~100 psig								
		150	0~150 psig								
		200	0~200 psig								

### Notes:

- "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number.  
Not all combinations are available.
- Before ordering, please read **User's Guide** on A-12.  
Examples of part number:
  - 2-port type (1 in, 1 out): FPR-1SU6L-15-25-00-B-20
  - 3-port type (1 in, 2 out): FPR-15TB-15-200-10-M-10-10