

Point-of-Use Panels



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General Point-of-Use Panels

FPR-1 Series

Features

- ⦿ With a FLR-1 Series Regulator
- ⦿ With diaphragm valve to cut off the gas supply
- ⦿ With special cleaning and packaging, applicable to oxygen-enriched atmospheres

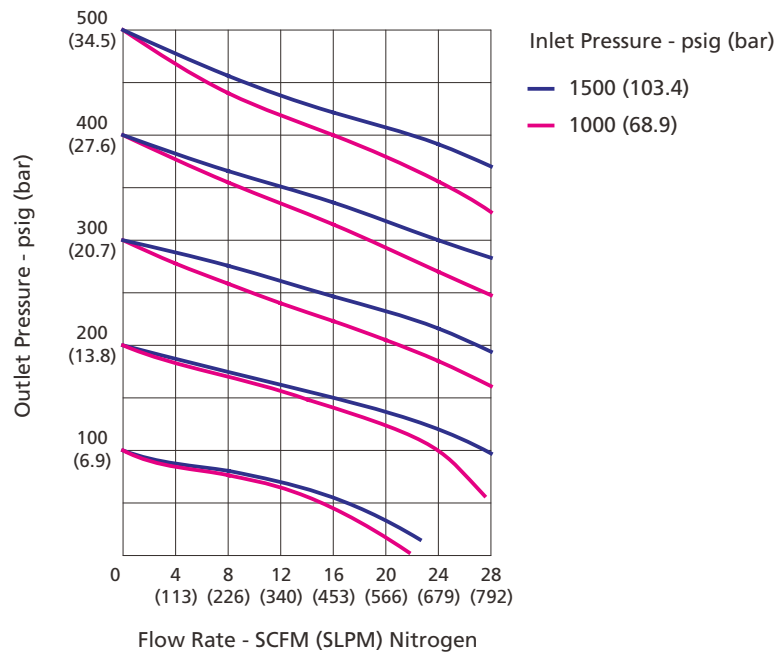
Technical Data

- ⦿ 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 cm³/s
 - External: $\leq 1 \times 10^{-9}$ std cm³/s
- ⦿ Flow coefficient (regulator Cv): 0.14



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

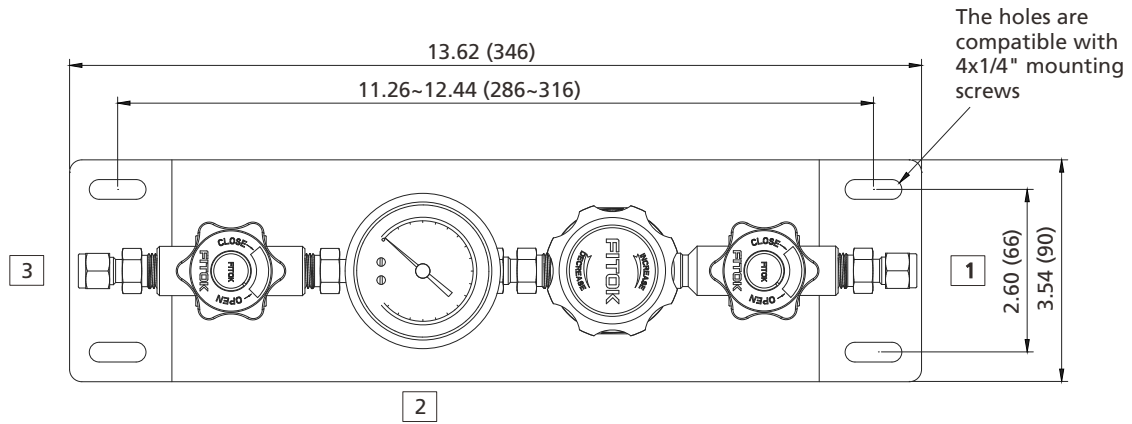
Typical Flow Chart



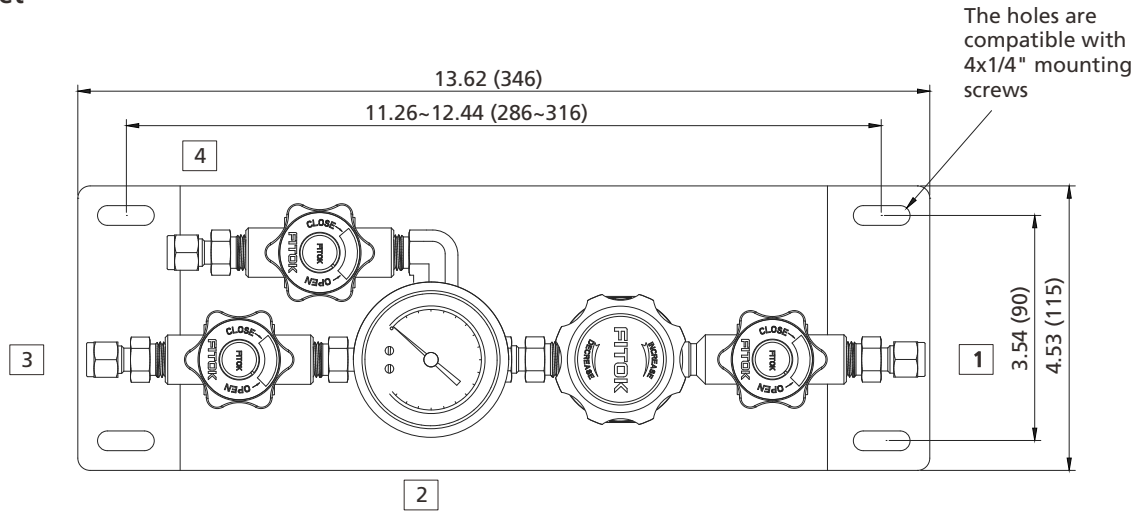
Dimensions

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

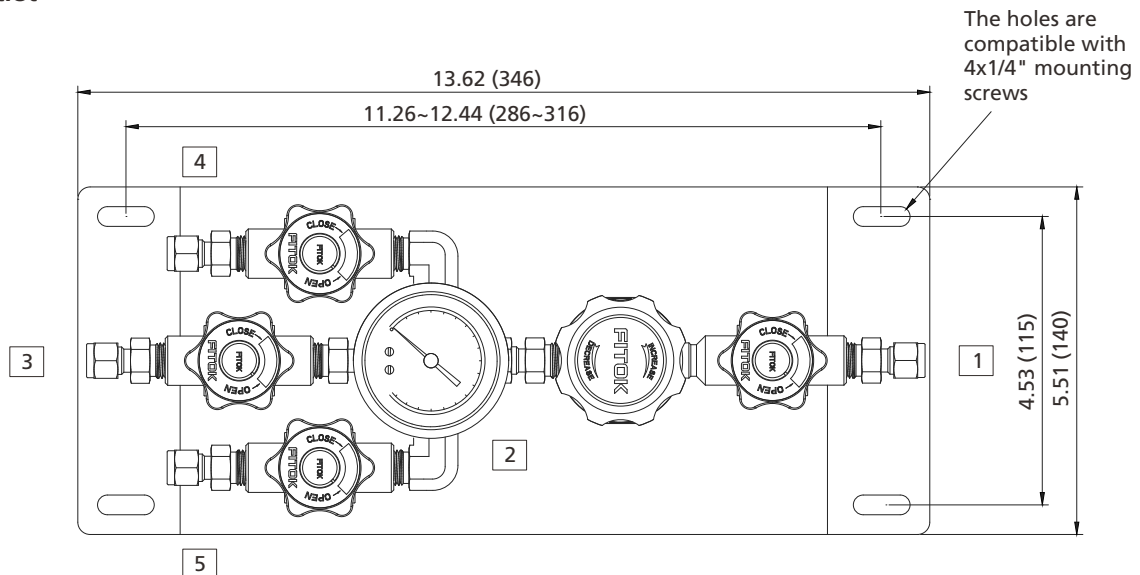
Single-outlet



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
C	Triple-outlet			10	1/4" Tube Fitting	P	Plug				
Body Material (Regulator)		25	0~25 psig	11	3/8" Tube Fitting	00	1/4" Female NPT			Connection 5	
6L	316L SS	50	0~50 psig	20	6 mm Tube Fitting						None
SS	316 SS	100	0~100 psig	21	8 mm Tube Fitting						Same as Connection 1
HC	Hastelloy C-276	250	0~250 psig	Other connections are available upon request							
B	Brass (Nickel-plated)	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 FCR-1S Series sensitive diaphragm regulator
- ⦿ With diaphragm valve to cut off the gas supply
- ⦿ With special cleaning and packaging, applicable to oxygen-enriched atmospheres

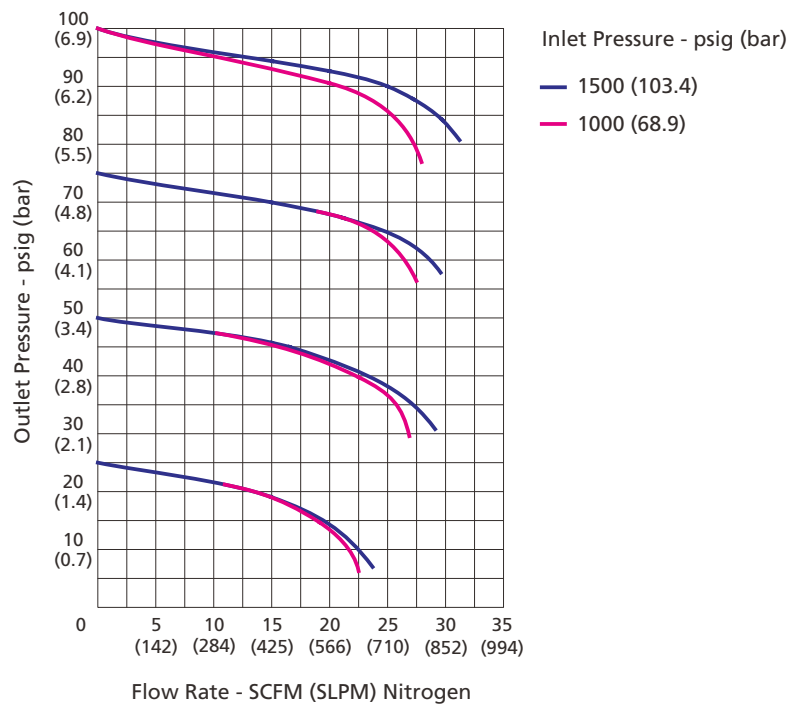
Technical Data

- ⦿ 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 cm³/s
 - External: $\leq 1 \times 10^{-9}$ std cm³/s
- ⦿ Flow coefficient (regulator Cv): 0.06



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

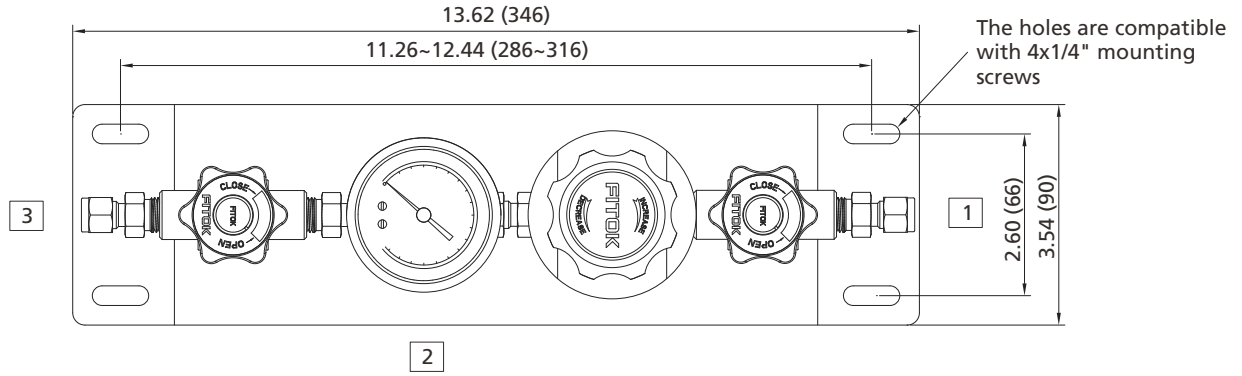
Typical Flow Chart



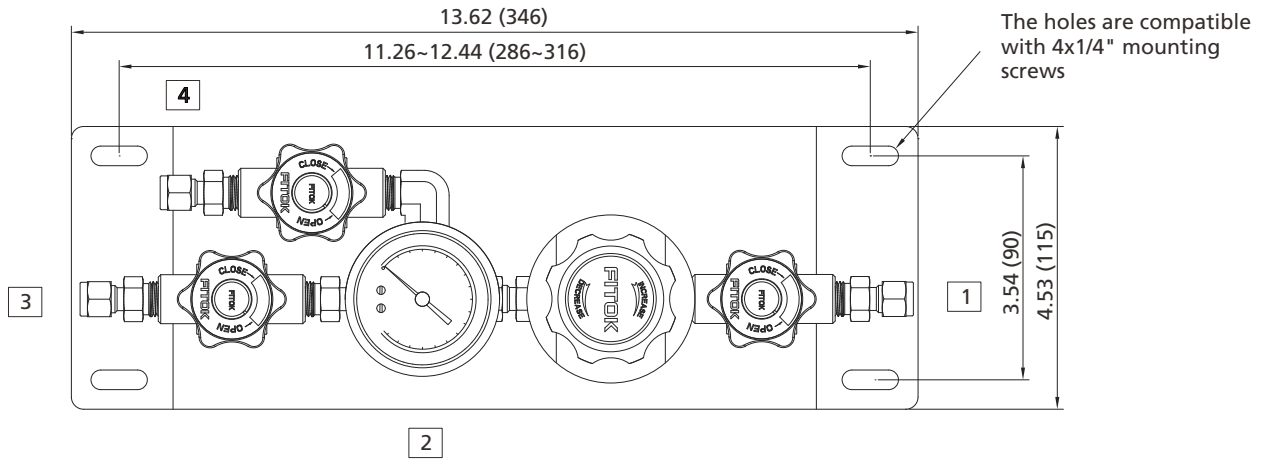
Dimensions

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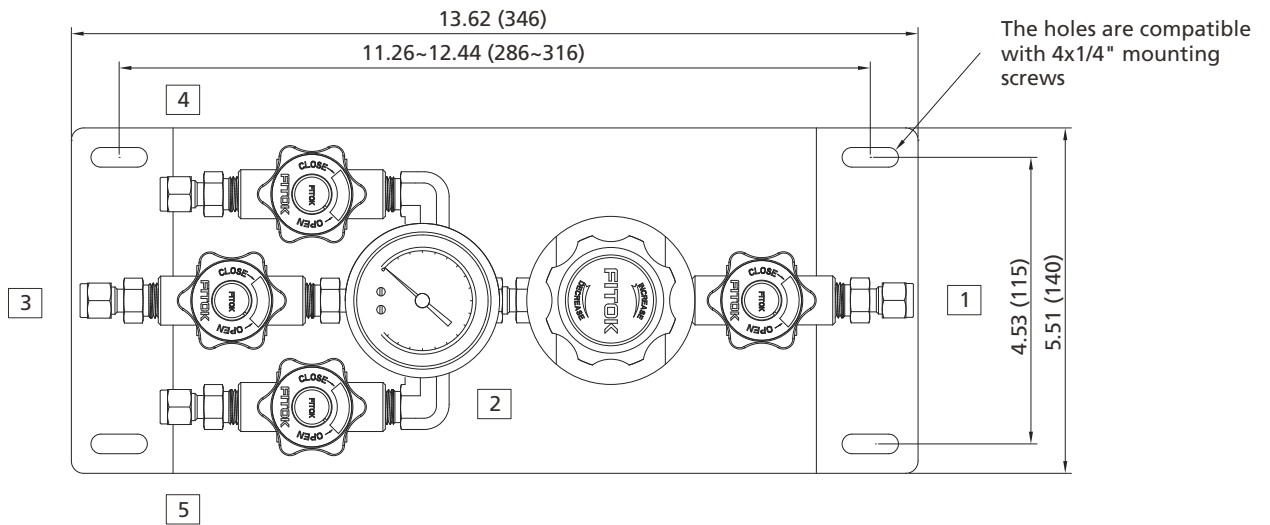
Single-outlet



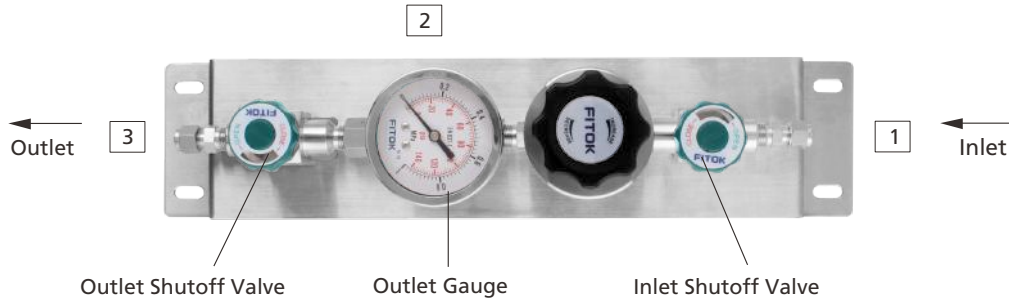
Dual-outlet



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 25 0~25 psig 50 0~50 psig 100 0~100 psig 150 0~150 psig 200 0~200 psig		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) 6L 316L SS SS 316 SS B Brass				11	3/8" Tube Fitting	00	1/4" Female NPT			Connection 5 None	
				20	6 mm Tube Fitting			Same as Connection 1			
				21	8 mm Tube Fitting			Same as Connection 1			
Other connections are available upon request											

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-1SU6L-15-25-00-B-20
 b. 3-port type (1 in, 2 out): FPR-15TB-15-200-10-M-10-10

Gas Control Equipment
Related Products
Technical References