



Gas Supply Panels and Point-of-Use Panels

ACP, MCP and PUP Series

Automatic Changeover Panel

ACP01 series

Features

- ❖ Designed to provide a continuous flow of gas for applications requiring stored gas supplies
- ❖ All parts are mounted on a single panel for easy installation
- ❖ Dual-bank gas supply
- ❖ Diaphragm valve include an easy-to-read status window (open/close)
- ❖ Integrated safety relief valve to ensure additional safety
- ❖ With a vent valve for purging and venting to preserve the purity of gases

Technical Specifications

- ❖ Maximum Inlet Pressure: 3000 psig (206bar)
- ❖ Outlet Pressure Ranges: 0-25 psig (0-1.7 bar), 0-50 psig (0-3.4 bar), 0-100 psig (0-6.9 bar), 0-250 psig (0-17.2 bar), 0-500psig (0-34.4bar)
- ❖ Operating Temperature Range: -40°F to 165°F (-40°C to 74°C)
- ❖ Design Proof Pressure: 150% of maximum operating
- ❖ Leakage
 - Internal: bubble-tight
 - External: design to meet $\leq 2 \times 10^{-8}$ atm cc/sec He
- ❖ Flow Capacity: Cv=0.06

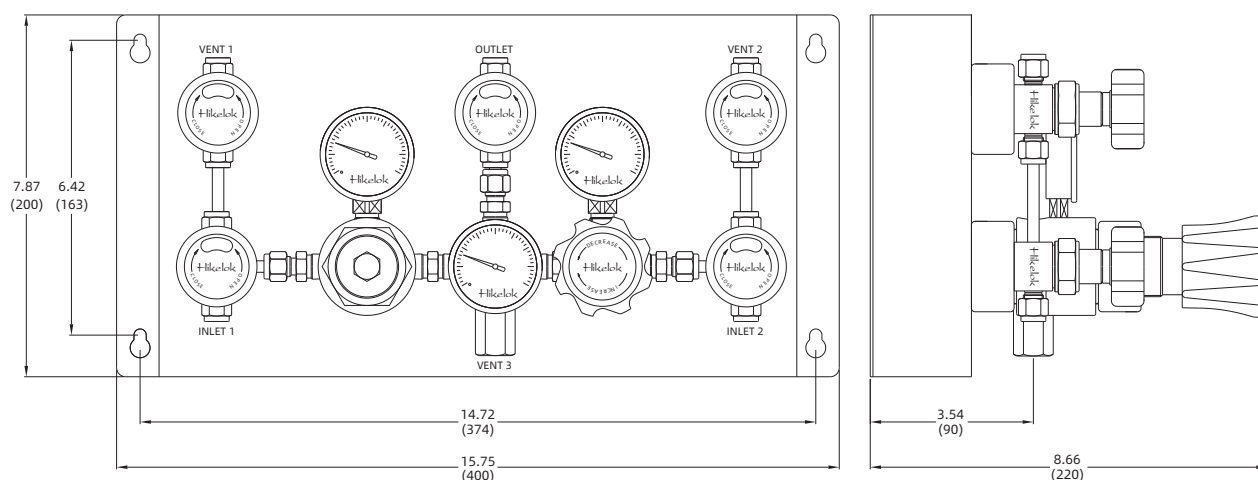
Wetted Material

- ❖ Body: 316 Stainless Steel
- ❖ Bonnet: 300 Series Stainless Steel
- ❖ Diaphragm: 316 Stainless Steel
- ❖ Seat
 - Regulator Seat: **PTFE**
 - Diaphragm Valve Seat: **PCTFE**
- ❖ Remaining Parts: 316 Stainless Steel

Cleaning

- ❖ CGA4.1 and ASTM G93 Grade C

Dimensions



How to Order

ACP01 — FNPT4 — 3100 — D — N — 316L

Series	Inlet/Outlet Connection	Inlet Pressure	Outlet Pressure	Inlet/Outlet /Vent Valve	Vent Valve	Body Material
ACP01	FNPT4 1/4" Female NPT	3 3000 psig	500 0-500 psig	Without Valve	N Without Valve	316 316 S.S.
	NPT4 1/4" Male NPT		250 0-250 psig	B Ball Valve	Y With Valve	316L 316L S.S.
	F2 1/8" O.D. CIR-LOK		100 0-100 psig	D Diaphragm valve		
	F4 1/4" O.D. CIR-LOK		50 0-50 psig	N Needle Valve		
	F6 3/8" O.D. CIR-LOK		25 0-25 psig			
	M6 6mm O.D. CIR-LOK					

Manual Changeover Panel

MCP01 series

Features

- ❖ All parts are mounted on a single panel for easy installation
- ❖ Single-bank gas supply
- ❖ Diaphragm valve include an easy-to-read status window (open/close)
- ❖ Integrated safety relief valve to ensure additional safety
- ❖ With a vent valve for purging and venting to preserve the purity of gases

Technical Specifications

- ❖ Maximum Inlet Pressure: 3000 psig (206bar)
- ❖ Outlet Pressure Ranges:
0-25 psig (0-1.7 bar), 0-50 psig (0-3.4 bar), 0-100 psig (0-6.9 bar), 0-250 psig (0-17.2 bar), 0-500 psig (0-34.4 bar)
- ❖ Operating Temperature Range: -40°F to 165°F (-40°C to 74°C)
- ❖ Design Proof Pressure: 150% of maximum operating
- ❖ Leakage
Internal: bubble-tight
External: design to meet $\leq 2 \times 10^{-8}$ atm cc/sec He
- ❖ Flow Capacity: Cv=0.06

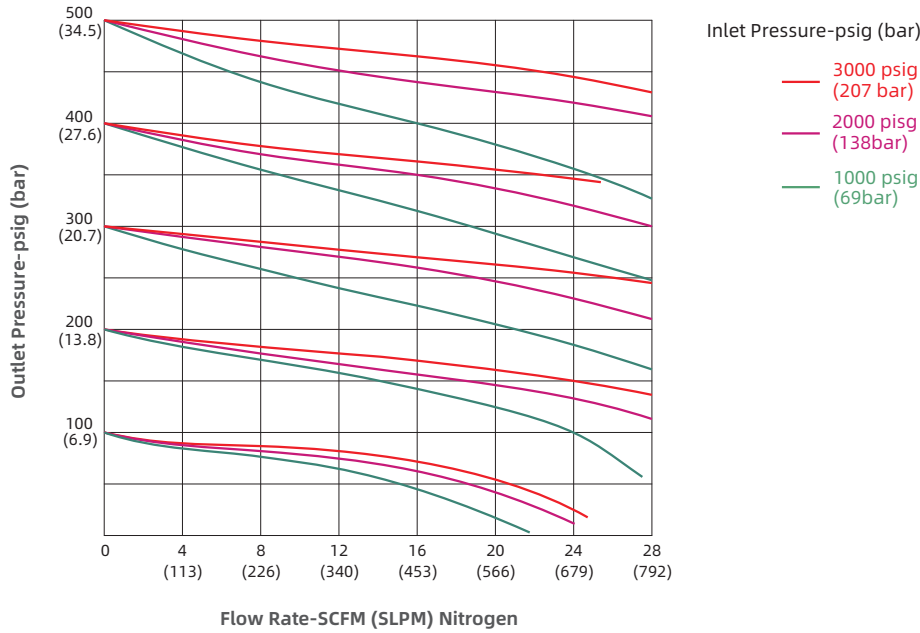
Wetted Material

- ❖ Body: 316 Stainless Steel
- ❖ Bonnet: 300 Series Stainless Steel
- ❖ Diaphragm: 316 Stainless Steel
- ❖ Seat
Regulator Seat: **PTFE**
Diaphragm Valve Seat: **PCTFE**
- Remaining Parts: 316 Stainless Steel

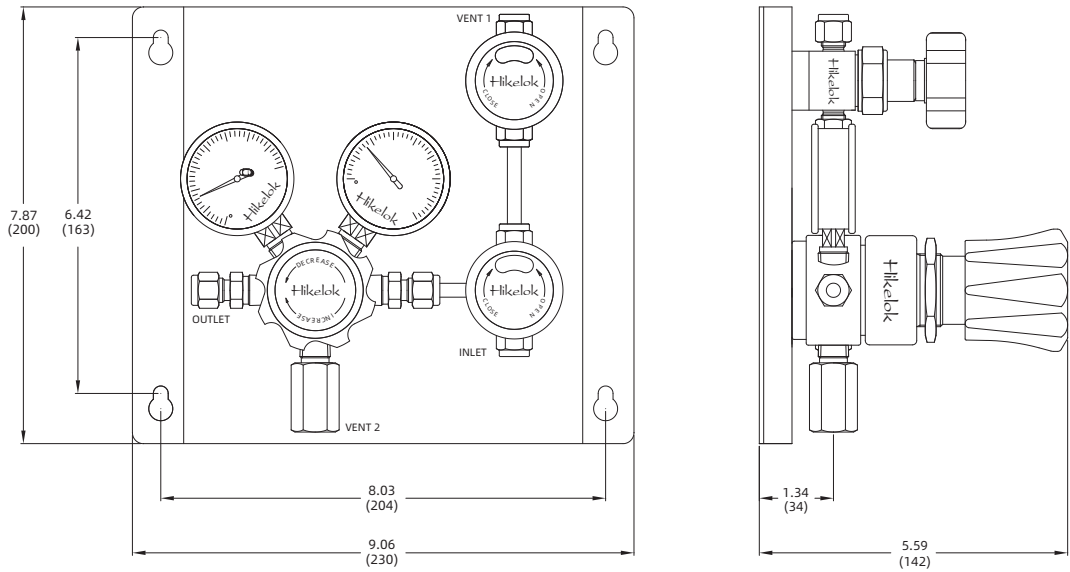
Cleaning

- ❖ CGA4.1 and ASTM G93 Grade C

Flow Charts



Dimensions



How to Order

Series	Inlet/Outlet Connection	Inlet Pressure	Outlet Pressure	Inlet/Outlet /Vent Valve	Vent Valve	Body Material
MCP01	FNPT4 1/4" Female NPT NPT4 1/4" Male NPT F2 1/8" O.D. CIR-LOK F4 1/4" O.D. CIR-LOK F6 3/8" O.D. CIR-LOK M6 6mm O.D. CIR-LOK	3 3000 psig	500 0-500 psig 250 0-250 psig 100 0-100 psig 50 0-50 psig 25 0-25 psig	Without Valve B Ball Valve D Diaphragm valve N Needle Valve	N Without Valve Y With Valve	316 316 S.S. 316L 316L S.S.

Manual Changeover Panel

MCP02 series

Features

- ❖ All parts are mounted on a single panel for easy installation
- ❖ Dual-bank gas supply and automatic changeover
- ❖ Dual-stage pressure reduction to minimizes pressure and flow fluctuation
- ❖ Diaphragm valve include an easy-to-read status window (open/close)
- ❖ The Integrated check valve ensure system safety

Technical Specifications

- ❖ Maximum Inlet Pressure: 3000 psig (206bar)
- ❖ Outlet Pressure Ranges:
0-25 psig (0-1.7 bar), 0-50 psig (0-3.4 bar), 0-100 psig (0-6.9 bar), 0-250 psig (0-17.2 bar), 0-500 psig (0-34.4 bar)
- ❖ Operating Temperature Range : -40°F to 165°F (-40°C to 74°C)
- ❖ Design Proof Pressure: 150% of maximum operating
- ❖ Leakage
Internal: bubble-tight
External: design to meet $\leq 2 \times 10^{-8}$ atm cc/sec He
- ❖ Flow Capacity: Cv=0.06

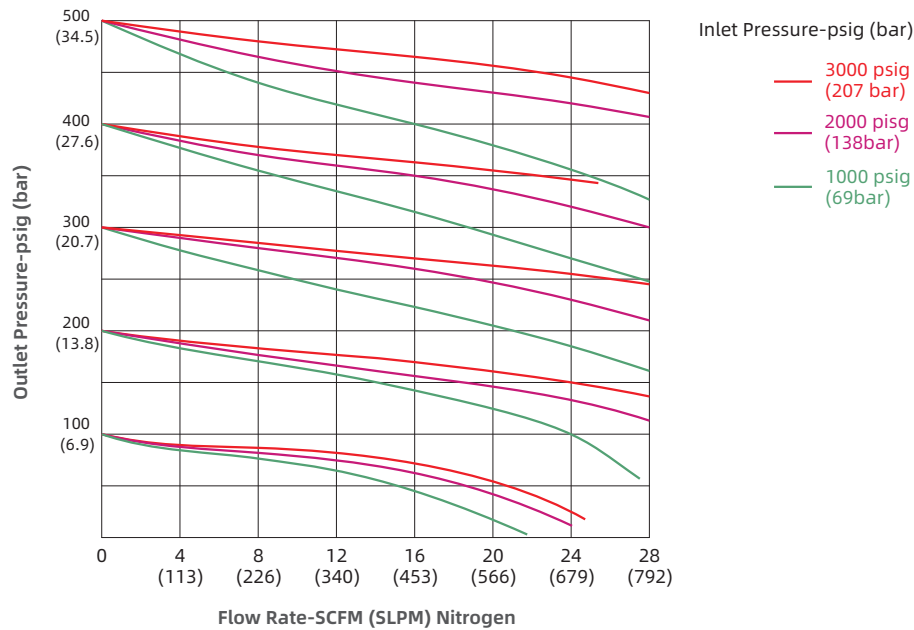
Wetted Material

- ❖ Body: 316 Stainless Steel
- ❖ Bonnet: 300 Series Stainless Steel
- ❖ Diaphragm: 316 Stainless Steel
- ❖ Seat
Regulator Seat: **PTFE**
Diaphragm Valve Seat: **PCTFE**
- ❖ Remaining Parts: 316 Stainless Steel

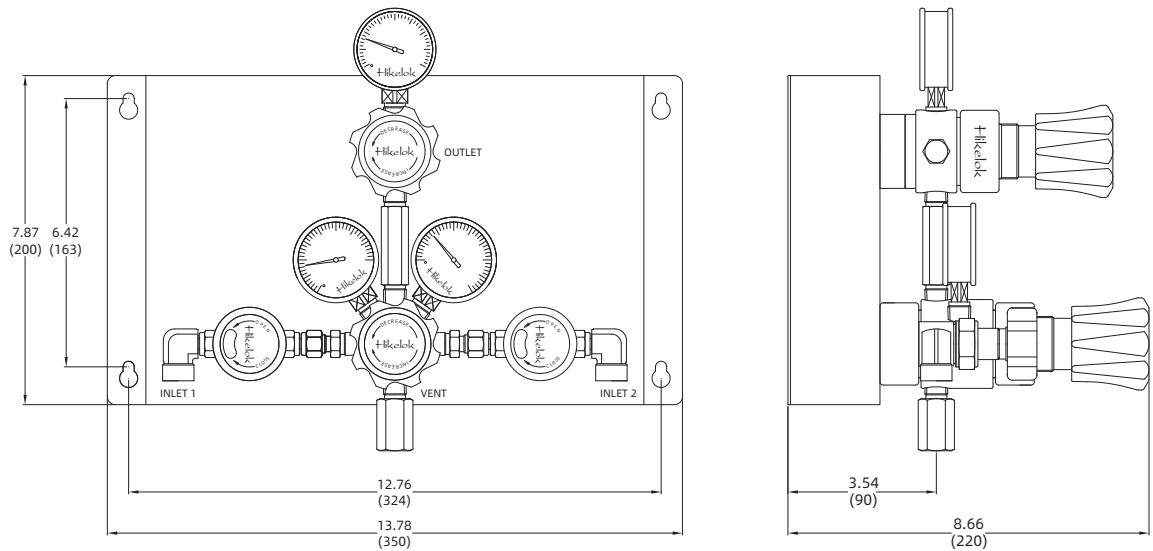
Cleaning

- ❖ CGA4.1 and ASTM G93 Grade C

Flow Charts



Dimensions



How to Order

MCP02 — FNPT4 — 3100 — D — N — 316L

Series	Inlet/Outlet Connection	Inlet Pressure	Outlet Pressure	Inlet/Outlet /Vent Valve	Vent Valve	Body Material
MCP02	FNPT4 1/4" Female NPT	3 3000 psig	500 0-500 psig	Without Valve	N Without Valve Y With Valve	316 316 S.S. 316L 316L S.S.
	NPT4 1/4" Male NPT		250 0-250 psig	B Ball Valve		
	F2 1/8" O.D. CIR-LOK		100 0-100 psig	D Diaphragm valve		
	F4 1/4" O.D. CIR-LOK		50 0-50 psig	N Needle Valve		
	F6 3/8" O.D. CIR-LOK		25 0-25 psig			
	M6 6mm O.D. CIR-LOK					

Point-of-Use Panel

PUP01 series

Features

- ❖ All parts are mounted on a single panel for easy installation
- ❖ Diaphragm valve include an easy-to-read status window (open/close)
- ❖ Diaphragm valves, ball valves and needle valves available
- ❖ Three configurations available

Technical Specifications

- ❖ Maximum Inlet Pressure: 500 psig (34.4bar)
- ❖ Outlet Pressure Ranges: 0-25 psig (0-1.7 bar), 0-50 psig (0-3.4 bar), 0-100 psig (0-6.9 bar), 0-250 psig (0-17.2 bar)
- ❖ Operating Temperature Range: -40°F to 165°F (-40°C to 74°C)
- ❖ Design Proof Pressure: 150% of maximum operating
- ❖ Leakage
 - Internal: bubble-tight
 - External: design to meet $\leq 2 \times 10^{-8}$ atm cc/sec He
- ❖ Flow Capacity: Cv=0.06

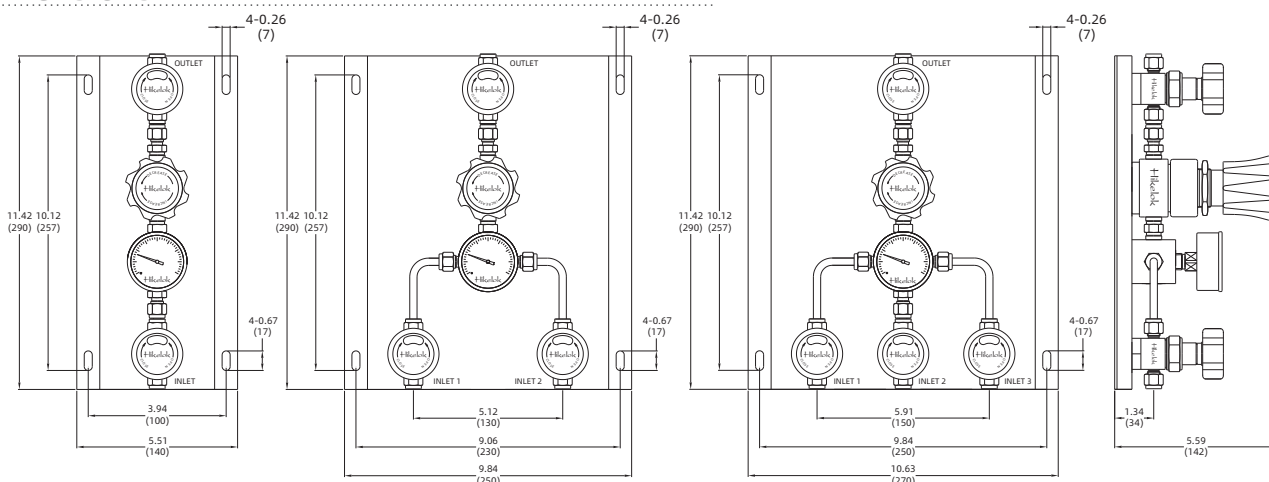
Wetted Material

- ❖ Body: 316 Stainless Steel
- ❖ Bonnet: 300 Series Stainless Steel
- ❖ Diaphragm: 316 Stainless Steel
- ❖ Seat
 - Regulator Seat: **PTFE**
 - Diaphragm Valve Seat: **PCTFE**
 - Ball Valve Seat: **Modified PTFE**
- ❖ Remaining Parts: 316 Stainless Steel

Cleaning

- ❖ CGA4.1 and ASTM G93 Grade C

Dimensions



How to Order

PUP01 — 2 — FNPT4 — D — 5100 — 316L

Series	Outlet Option	Inlet/Outlet Connection	Inlet/Outlet Valve	Inlet Pressure	Outlet Pressure	Body Material
PUP01	1 One Outlet	FNPT4 1/4" Female NPT	Without Valve	5 500 psig	250 0-250 psig	316 316 S.S.
	2 Two Outlets	NPT4 1/4" Male NPT	B Ball Valve		100 0-100 psig	316L 316L S.S.
	3 Three Outlets	F2 1/8" O.D. CIR-LOK	D Diaphragm valve		50 0-50 psig	
		F4 1/4" O.D. CIR-LOK	N Needle Valve		25 0-25 psig	
		F6 3/8" O.D. CIR-LOK				
		M6 6mm O.D. CIR-LOK				