FCR-1 Series General Diaphragm Regulators

Features

- O Metal-to-metal seal to minimize external leak
- Convoluted diaphragm design to improve regulation precision and cycle life
- $\ensuremath{\bigcirc}$ Applicable to corrosive or toxic gases
- With special cleaning and packaging, applicable to oxygen-enriched environments
- O Adjustable relief pressure
- \bigcirc 20 μm filter installed at inlet



Model: FCR-16L-30-100-C330-B-B-00-R-P

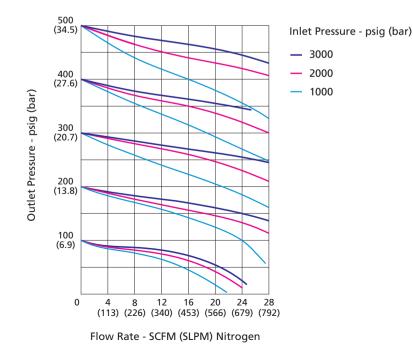
Technical Data

- Single-stage regulator
- O Maximum inlet pressure: 3000 or 4500 psig
- ◎ Outlet pressure range: 0~25, 0~50, 0~100, 0~250 or 0~500 psig
- Material of the internal components: Seat: PCTFE Diaphragm: Hastelloy Filter: 316L
- Temperature: -40°F~+165°F (-40°C~+74°C)
- © Leak rates: Internal: ≤1x10⁻⁷ mbar·l/s helium

External: $\leq 1x10^{\circ}$ mbar·l/s helium

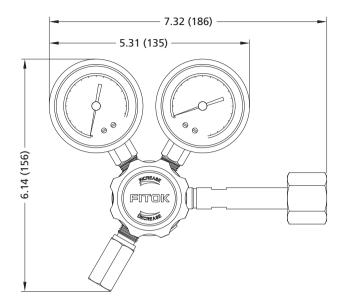
- \bigcirc Flow coefficient (Cv): 0.06
- \odot Weight (regulator only): pprox1.98 lbs (0.9 kg)
- O Body ports: 1/4" female NPT for inlet, outlet, gauge and relief valve

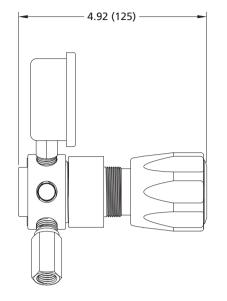
Typical Flow Chart





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

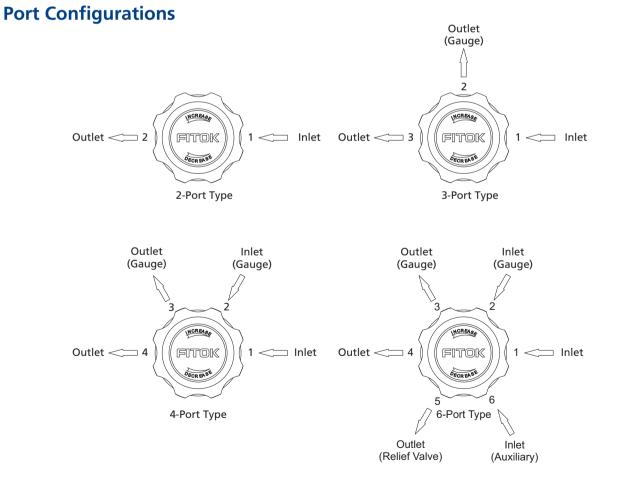


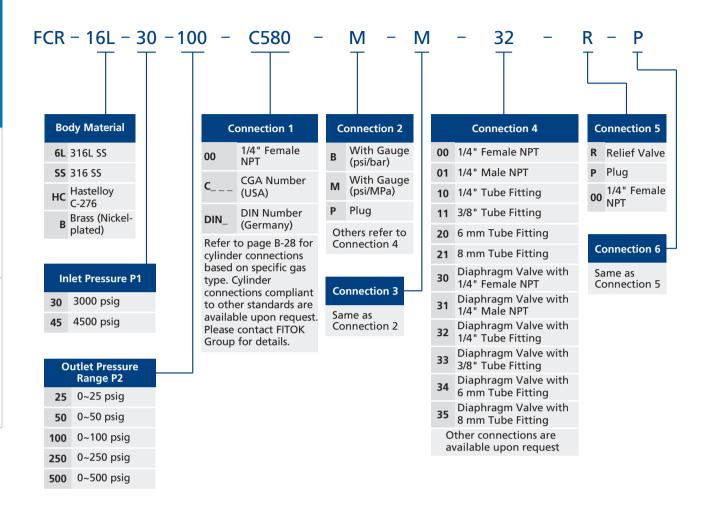




Gas Control Equipment

Related Products





Notes:

- 1. Most configurations are available.
- 2. Before ordering, please read **Installation Instructions and Cautions** on A-77. Examples of part number:
- a. 2-port type (1 in, 1 out): FCR-16L-45-100-C580-00
- b. 3-port type (1 in, 2 out): FCR-1SS-30-500-C330-B-00
- c. 4-port type (2 in, 2 out): FCR-1B-45-250-00-B-B-34

FCR-1S Series Sensitive Diaphragm Regulators

Features

- Large diameter convoluted diaphragm to increase pressure sensitivity and minimize pressure drop
- \bigcirc Fitted with captured vent as standard
- \odot 316L SS and Brass available for valve
- With special cleaning and packaging, applicable to oxygen-enriched environments
- \bigcirc Die spring for stable outlet pressure
- \bigcirc 20 μm filter installed at inlet



Model: FCR-1S6L-30-50-C580-B-B-00-R-P

Technical Data

- ◎ Single-stage regulator
- Maximum inlet pressure: 3000 or 4500 psig
- Outlet pressure range: 0~25, 0~50, 0~100, 0~150 or 0~200 psig
- \bigcirc Material of the internal components:

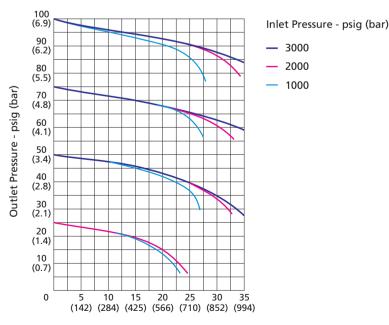
Seat: PCTFE Diaphragm: 316L Filter: 316L

- ◎ Temperature: -40°F~+165°F (-40°C~+74°C)
- O Leak rates:

Internal: $\leq 1 \times 10^{-7}$ mbar·l/s helium

- External: $\leq 1x10^{-9}$ mbar·l/s helium
- O Flow coefficient (Cv): 0.06
- \odot Weight (regulator only): \approx 2.87 lbs (1.3 kg)
- O Body ports: 1/4" female NPT for inlet, outlet, gauge and relief valve

Typical Flow Chart

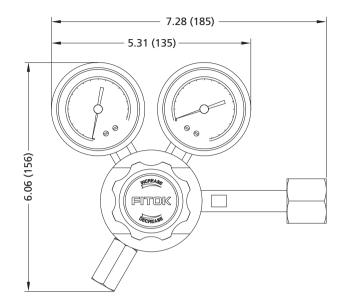


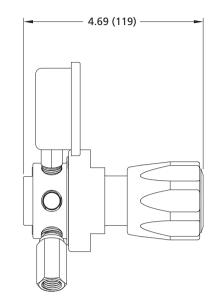
Flow Rate - SCFM (SLPM) Nitrogen



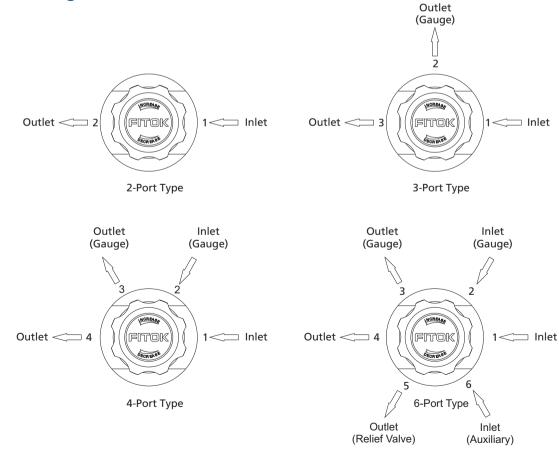
Related Products

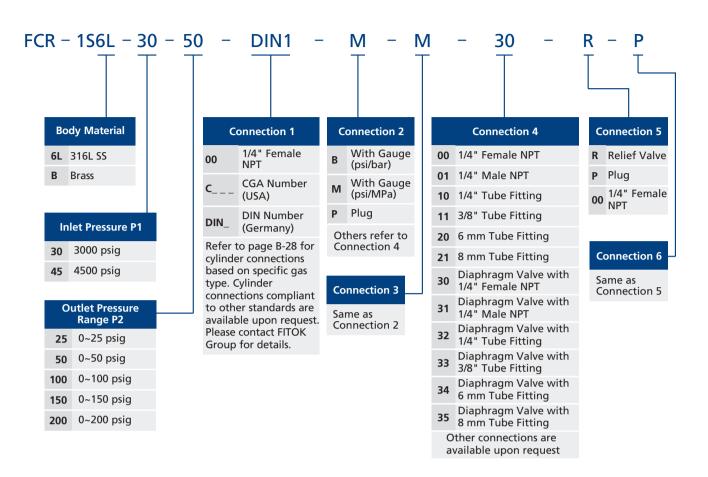
Dimensions, in inches (millimeters), are for reference only.











Notes:

- 1. Most configurations are available.
- 2. Before ordering, please read Installation Instructions and Cautions on A-77.

Examples of part number:

- a. 2-port type (1 in, 1 out): FCR-1S6L-45-25-C580-00
- b. 3-port type (1 in, 2 out): FCR-1SB-30-150-C330-B-00
- c. 4-port type (2 in, 2 out): FCR-1SB-45-200-00-00-00



FCR-2 Series High Pressure Piston Regulators

Features

- \bigcirc For high pressure applications
- \bigcirc Robust piston-sensed design to ensure safety and reliability
- ③ 316L SS or Nickel-plated Brass body optional
- \bigcirc For non-corrosive gases (due to seal limit)
- With special cleaning and packaging, applicable to oxygen-enriched environments
- \bigcirc Venting model available
- \bigcirc 20 μm filter installed at inlet

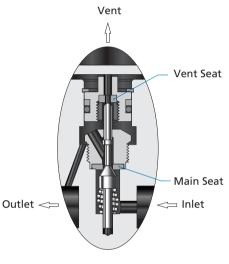
Technical Data

- Single-stage regulator
- Maximum inlet pressure: 4500 or 6000 psig
- Outlet pressure range: 0~750, 0~1500 or 0~2500 psig
- Material of the internal components: Main Seat: PCTFE (PEEK for Venting Model) Vent Seat: PCTFE Piston: 316L
 - O-ring: Viton or Kalrez Filter: 316L
- Temperature: -15°F~+165°F (-26°C~+74°C)
- Leak rates:
 Internal: Bubble-tight
 - External: Bubble-tight
- Flow coefficient (Cv): Without vent: 0.06 Vent: 0.1
- \odot Weight (regulator only): pprox1.98 lbs (0.9 kg)
- \odot Body ports: 1/4" female NPT for inlet, outlet and gauge

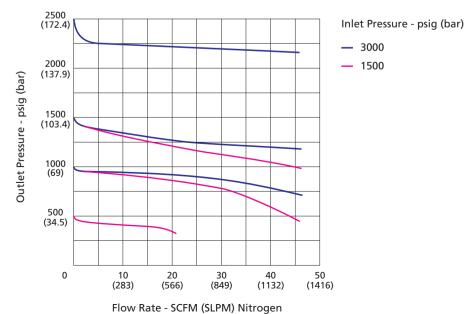
Typical Flow Chart



Model: FCR-26L-45-750-DIN8-B-B-00-P-P



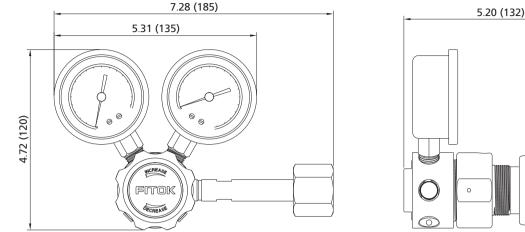
Construction Drawing with Venting Model

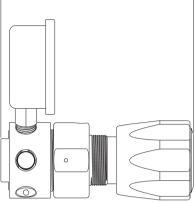




Related Products

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



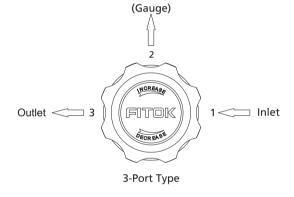


Gas Control Equipment

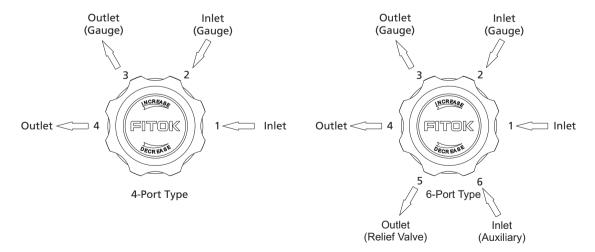


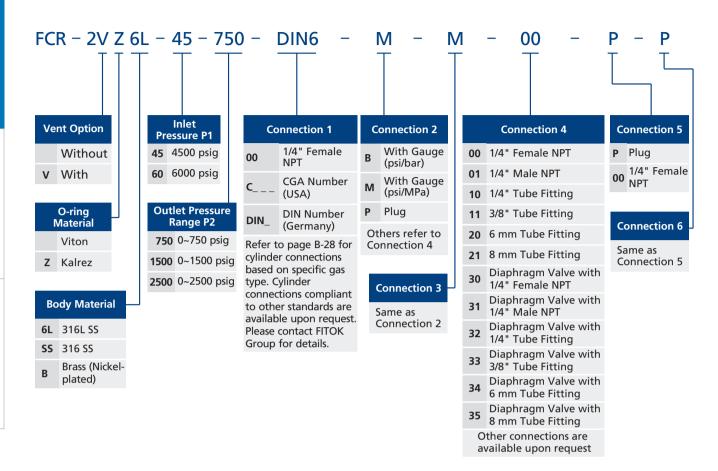






Outlet





Notes:

- 1. Most configurations are available.
- 2. Before ordering, please read Installation Instructions and Cautions on A-77.
- Examples of part number:
- a. 2-port type (1 in, 1 out): FCR-26L-45-1500-C580-00
- b. 3-port type (1 in, 2 out): FCR-2VB-45-750-C660-00-00
- c. 4-port type (2 in, 2 out): FCR-2VZSS-60-2500-00-B-B-32

FCR-1D Series Dual-stage Diaphragm Regulators

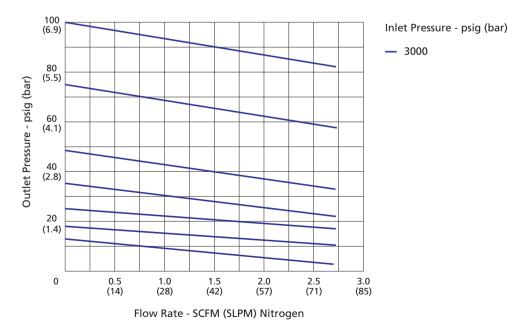
Features

- O Compact design
- O Dual-stage pressure reducing construction to provide accurate and stable pressure
- \bigcirc 20 μm filter installed at inlet
- With special cleaning and packaging, applicable to oxygen-enriched environments

Technical Data

- O Maximum inlet pressure: 3000 or 4500 psig
- 1st stage outlet pressure range: 480~500 psig
 2nd stage outlet pressure range: 0~25, 0~50, 0~100, 0~150, 0~250 psig
- Material of the internal components: Seat: PCTFE
 - Diaphragm: Hastelloy Filter: 316L
- Temperature: -40°F~+165°F (-40°C~+74°C)
- Leak rates: Internal: ≤1x10⁻⁷ mbar·l/s helium External: ≤1x10⁻⁹ mbar·l/s helium
- © Flow coefficient (Cv): 0.05
- \bigcirc Weight (regulator only): \approx 3.3 lbs (1.5 kg)
- ◎ Body ports: 1/4" female NPT for inlet, outlet, gauge and relief valve

Typical Flow Chart





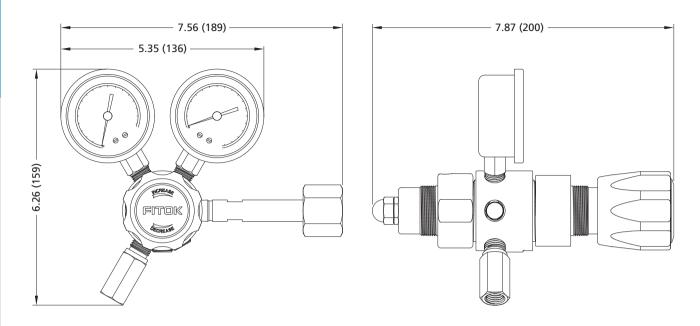
Model: FCR-1D6L-30-100-C660-B-B-00-R-P

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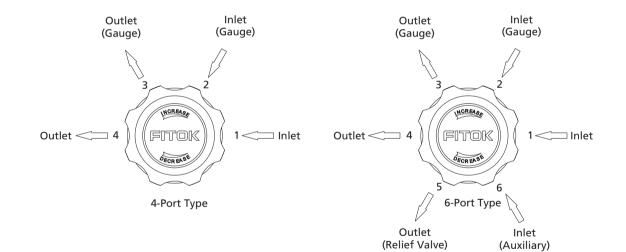
Gas Control Equipment

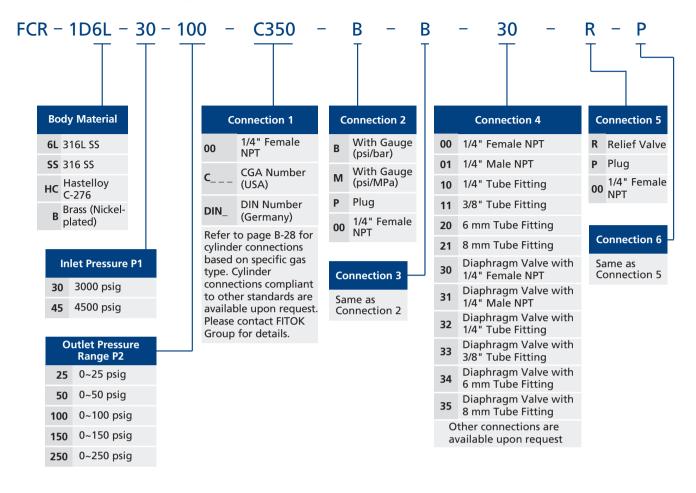
Related Products

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



Port Configurations





Notes:

1. Most configurations are available.

2. Before ordering, please read Installation Instructions and Cautions on A-77.

Examples of part number:

a. 4-port type (2 in, 2 out): FCR-1DB-45-150-DIN1-B-B-30

b. 6-port type (3 in, 3 out): FCR-1DSS-30-50-C580-B-B-00-R-P

