

Ultra High Purity Regulator



Catalog No. U-REHC
JAN. 2013



Material Standards

| | |
|--------------|----------------------|
| Body | 316L Stainless Steel |
| Diaphragm | 316L Stainless Steel |
| Seat | PCTFE |
| Stem | 316 Stainless Steel |
| Back-up Seal | 316 Stainless Steel |

Pressure Ratings

| | |
|-----------------------|---|
| Max. Inlet Pressure | 600 or 3500 psig (41.4 or 241 bar) |
| Outlet Pressure Range | 30, 60, or 100 psig (2.1, 4.1, or 6.9 bar) |

Operating Temperature

| | |
|-------------|---------------------------|
| PCTFE Seat | -40 ~ 60°C (-40°F~140°F) |
| Teflon Seat | -40 ~ 71°C (-40°F~160°F) |
| VespeI Seat | -40 ~ 177°C (-40°F~350°F) |

Flow Capacity

| | |
|---------------------|---------|
| 3500 psig / 241 bar | 0.06 Cv |
| 600 psig / 41.4 bar | 0.15 Cv |

Product Grade

| | | |
|-------------------|---------|-----------|
| Grade | | EP |
| Surface Roughness | Average | < 0.125µm |

Features

- Metal to metal diaphragm sealing.
- Optimum performance and cleanliness at a great value.
- No bias spring or friction device in flow stream.
- Adjustable stop to limit outlet pressure.
- Positionable ported bonnet ring is available.

Helium Leak Test

Every REHC series Regulator are inboard helium leak tested to a rate of 1×10^{-9} cm³/sec at seat and all seals.

Particle Contribution Test

According to ASTM F1394-92.

Cleaning

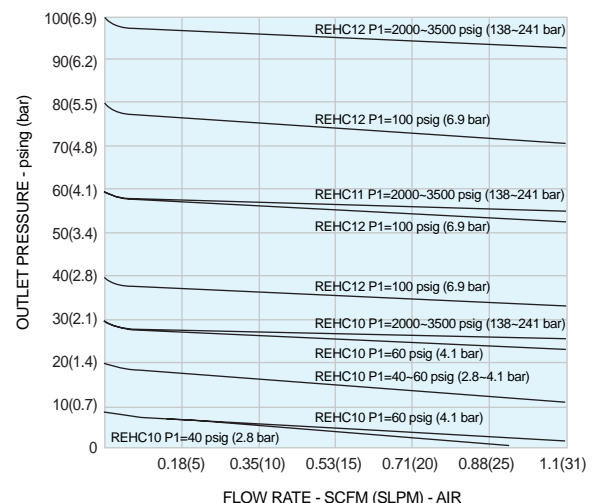
All components are precisely cleaned with 18MΩ deionized water after the passivation procedure in accordance with our own UHP cleaning process (UNIP-705-38) Reference specification : SEMI E49.6.

Packaging

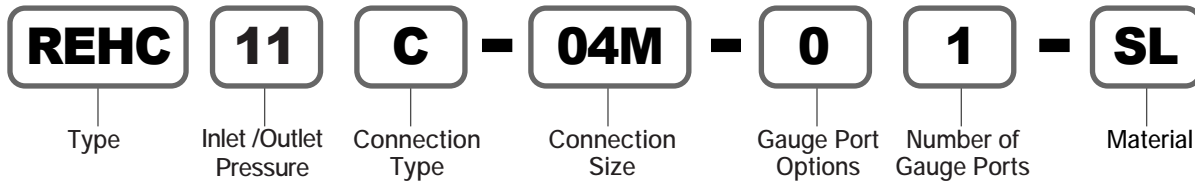
Each component is double bagged to ensure component cleanliness and to protect them from environmental contamination.

Referenced specification : SEMI E49.1.

Flow Chart



How To Order

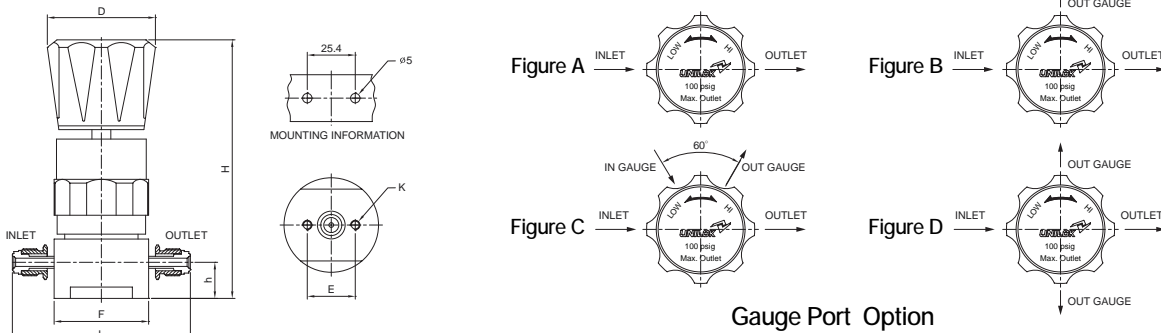


| Type | |
|-----------------|-----------------------------|
| REHC | Ultra High Purity Regulator |
| Inlet Pressure | |
| 1 | 3500 psig/241bar |
| 2 | 600 psig/41.4 bar |
| 3 | 100 psig / 6.9 bar |
| Outlet Pressure | |
| 0 | 30 psig/2.1 bar |
| 1 | 60 psig/4.1 bar |
| 2 | 100 psig / 6.9 bar |

| Connection Type | |
|--|-------------------|
| C-*M | Male UCR Swivel |
| C-*F | Female UCR |
| WB-*A | Butt Weld-Pipe |
| Connection Size | |
| Fractional(Inch) Tube O.D. Designation | |
| Tube O.D. | inch 1/4 1/2 |
| | mm 6.35 12.7 |
| Designator | 04T 08T |
| UCR (Metal Face Seal) Size Designator | |
| UCR Size | 1/4 1/2 |
| Designator | 04M / 04F 08M/08F |

| Gauge Port Options | |
|-----------------------|------------------------|
| 0 | None |
| 1 | 1/4" Male UCR Swivel |
| 2 | 1/4" Female UCR Swivel |
| 3 | 1/2" Male UCR Swivel |
| 4 | 1/2" Female UCR Swivel |
| Number of Gauge Ports | |
| 0 | Figure A |
| 1 | Figure B |
| 2 | Figure C |
| 3 | Figure D |
| Materials | |
| SL | 316L SS |

Ordering Information & Dimensions



| Part No. | End Connections | | Dimensions (mm) | | | | | | |
|----------|-----------------|-----------------|-----------------|------|-----|----|----|------|----|
| | Inlet | Outlet | L | h | H | D | F | E | K |
| REHC- | UP-04T- | H.P.I.C | 27.6 | 19.1 | 140 | 57 | 50 | 25.4 | M5 |
| | WB-04T- | Tube Butt Weld | 76.2 | | | | | | |
| | C-04M- | Male UCR Swivel | 94 | | | | | | |
| | C-04F- | Female UCR | 94 | | | | | | |
| | C-08M- | Male UCR Swivel | 120.6 | | | | | | |
| | C-08F- | Female UCR | 120.6 | | | | | | |

Dimensions are for reference only and are subject to change without prior notice.



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