

SERIES 24 ULTRA HIGH PURITY UHP100T SEMICONDUCTOR PRESSURE REGULATOR

LOW OUTLET, SENSITIVE PRESSURE CONTROL OF CORROSIVE GASES IN HIGH FLOW SYSTEMS.

FEATURES:

- Designed for regulation of HCL, Phosphine and Silane.
- Corrosion resistant.
- Compact size.
- Accurate control.
- High surface finishes.
- Tied diaphragm for positive shut-off.
- Abrasive flow machined and electropolished.
- Low particle generation.
- Fixed or adjustable bonnet vent.

SPECIFICATIONS:

- Maximum inlet pressure: 3000 psi (207 bar).
- Adjustable outlet pressure ranges: 0-25, 0-50, 0-100, 0-150 psi.
- Operating temperature: -40°F to 212°F: (-40°C to 100 °C).
- Body ports: Welded 1/4" VCR® Type.
- Flow coefficient Cv = 0.16.
- Mass spec. Leak Tested to:-
Inboard 1×10^{-9} mbar L/sec He.
Outboard 1×10^{-9} mbar L/sec He.
Across seat 1×10^{-9} mbar L/sec He.
- Ra 10-15 Micro-inch wetted surface finish.

MATERIALS OF CONSTRUCTION:

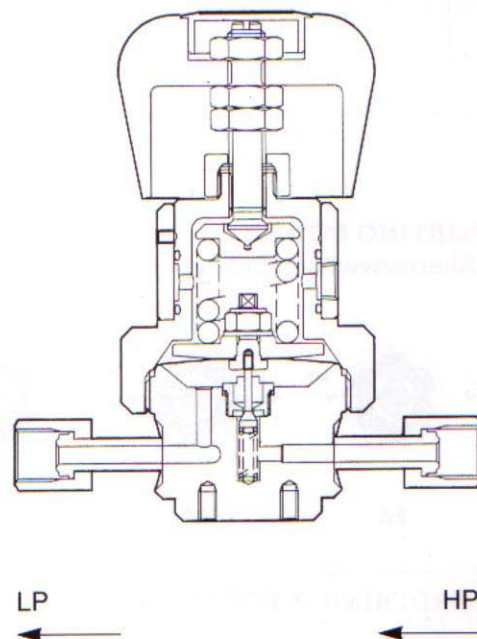
- BODY: Bar stock 316 stainless steel.
- SEAT AND SEAL: 316 stainless steel & Kel-F®.
- DIAPHRAGM: 316 stainless steel.
- BONNET: Electroless nickel plated aluminium bar stock.

APPLICATIONS:

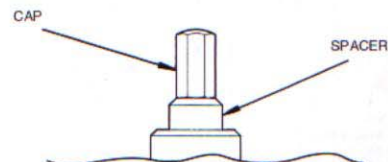
- Wafer process control.
- High purity gas handling.
- Regulation of corrosive & speciality gases.
- Pharmaceuticals.

OPTIONAL FEATURES:

- Locked outlet.
- Relief valve.
- RHP connections.

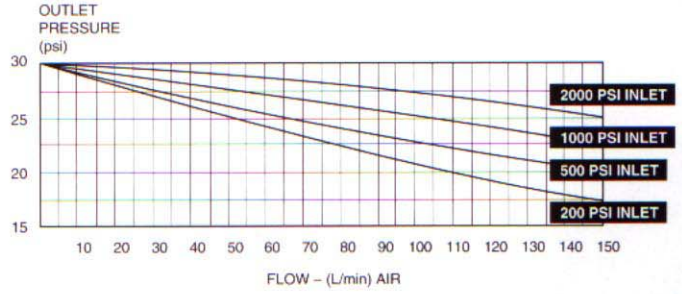
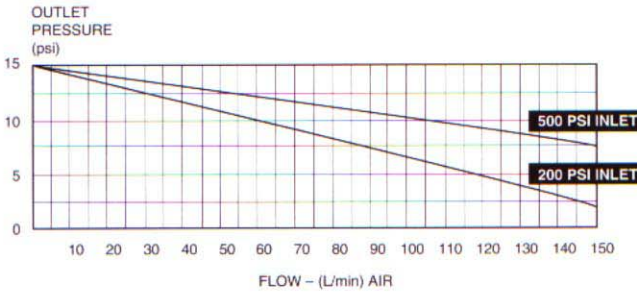
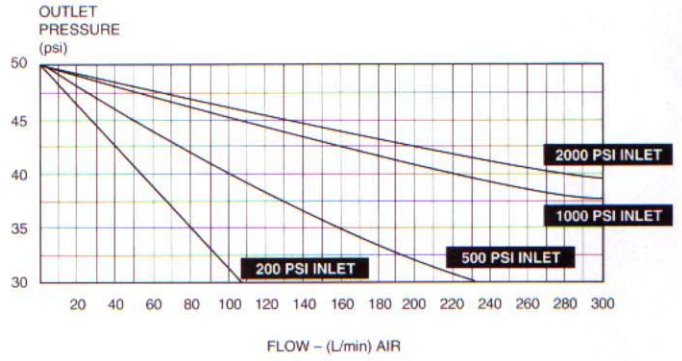
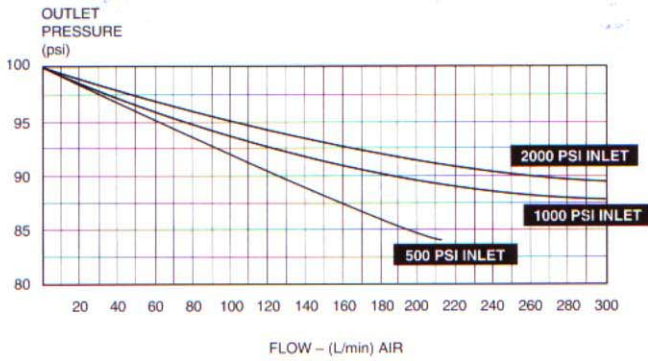


Preset and locked discharge pressure
Control knob replaced by locking cap and spacer



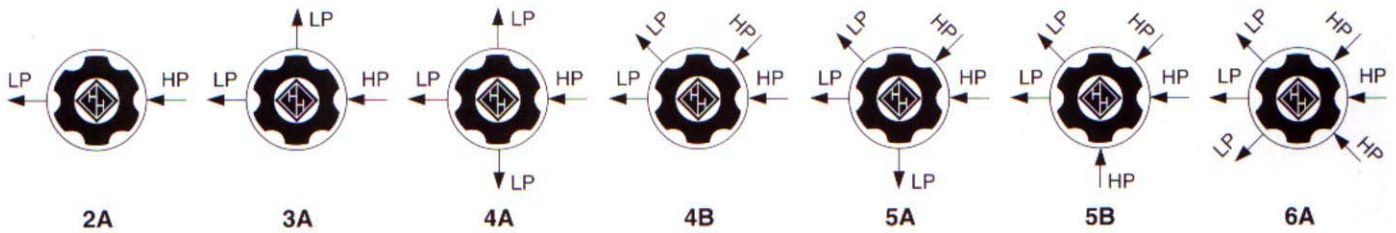
HALE HAMILTON

DISCHARGE CHARACTERISTICS:

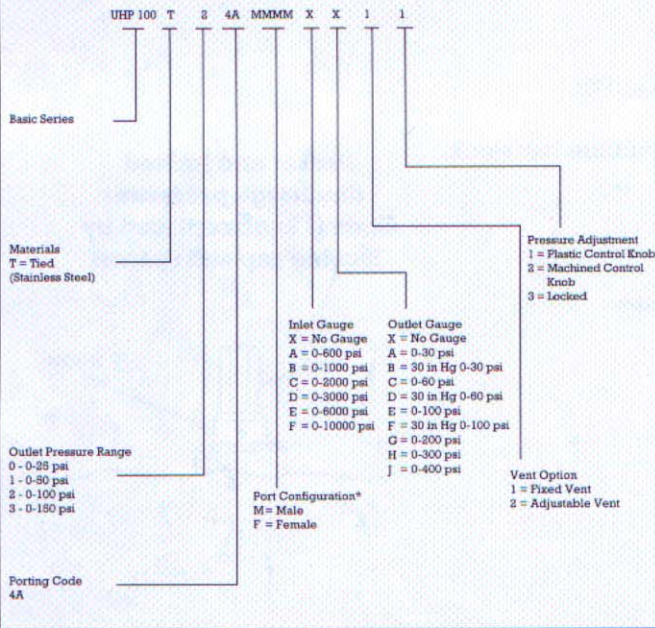


PORTING CODES:

(Alternative Port configurations are available)



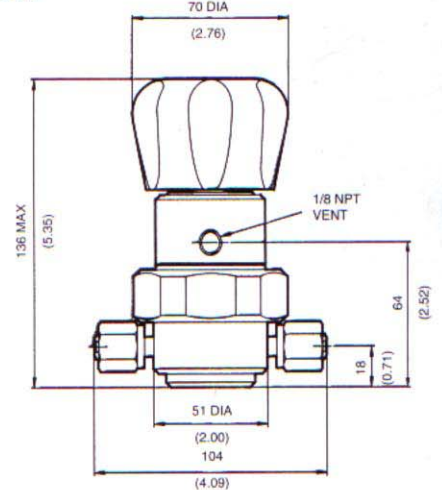
ORDERING INFORMATION:



VCR Trademark of Cajon
TEFLON Trademark of Du-Pont
KEL-F Trademark of 3M

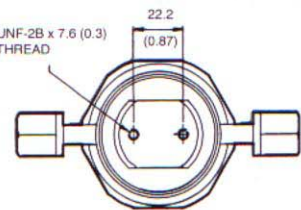
* Notes type of each connection counter clockwise from 3:00 port or regulator inlet

INSTALLATION:



BASEMOUNT:

2 HOLES 10-32UNF-2B x 7.6 (0.3)
FULL THREAD



Imperial equivalent in parenthesis (inches)
Note: All dimensions are reference and nominal



Data subject to change without prior notification.

Quality Assurance Standards: BS5750 PT 1 ISO 9001 1987 - Registration No. 861113