

## UP91 Series ultra high purity pressure regulator

### FEATURES

- ⦿ Manufactured and tested using Total Quality tools including Statistical Process Control
- ⦿ An internally threadless a low internal volume minimizes particle entrapment
- ⦿ Metal-to-metal seal at diaphragm or body interface
- ⦿ 0.25 micrometer finish is available

### TECHNICAL DATA

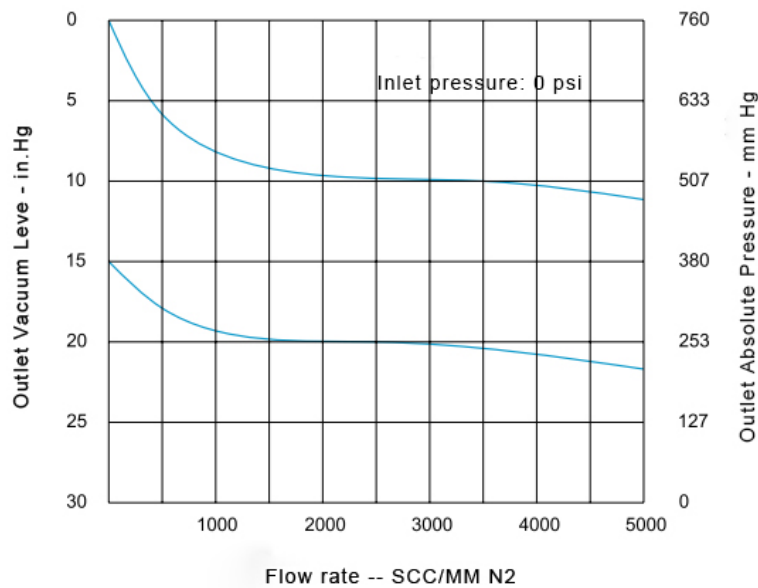
- ⦿ Maximum control pressure: 3500 psig
- ⦿ Pressure control range: 0~25, 0~50, 0~100 or 0~250 psig
- ⦿ Material of the main components:
  - Seat: PCTFE OR PEEK
  - Diaphragm: 316L SS Elgiloy® Hastelloy®
- ⦿ Operating Temperature:
  - PCTFE Seat: -40° F to 140° F / -40° C to 60° C
  - VespeI® Seat: -40° F to 350° F / -40° C to 177° C
- ⦿ Leak rates (helium): <math><1 \times 10^{-9}</math> mbar.L/s
- ⦿ Flow coefficient (Cv): 0.2
- ⦿ Weight: ≈1.98 lbs(0.9 kg)
- ⦿ Cleaning: Ultrahigh-Purity Process Specification 100  
Class 100 clean room assembly



### APPLICATION

- ⦿ 1/4" point-of-use
- ⦿ Gas cabinetAs
- ⦿ Semiconductor manufacturing
- ⦿ High flow purging systems

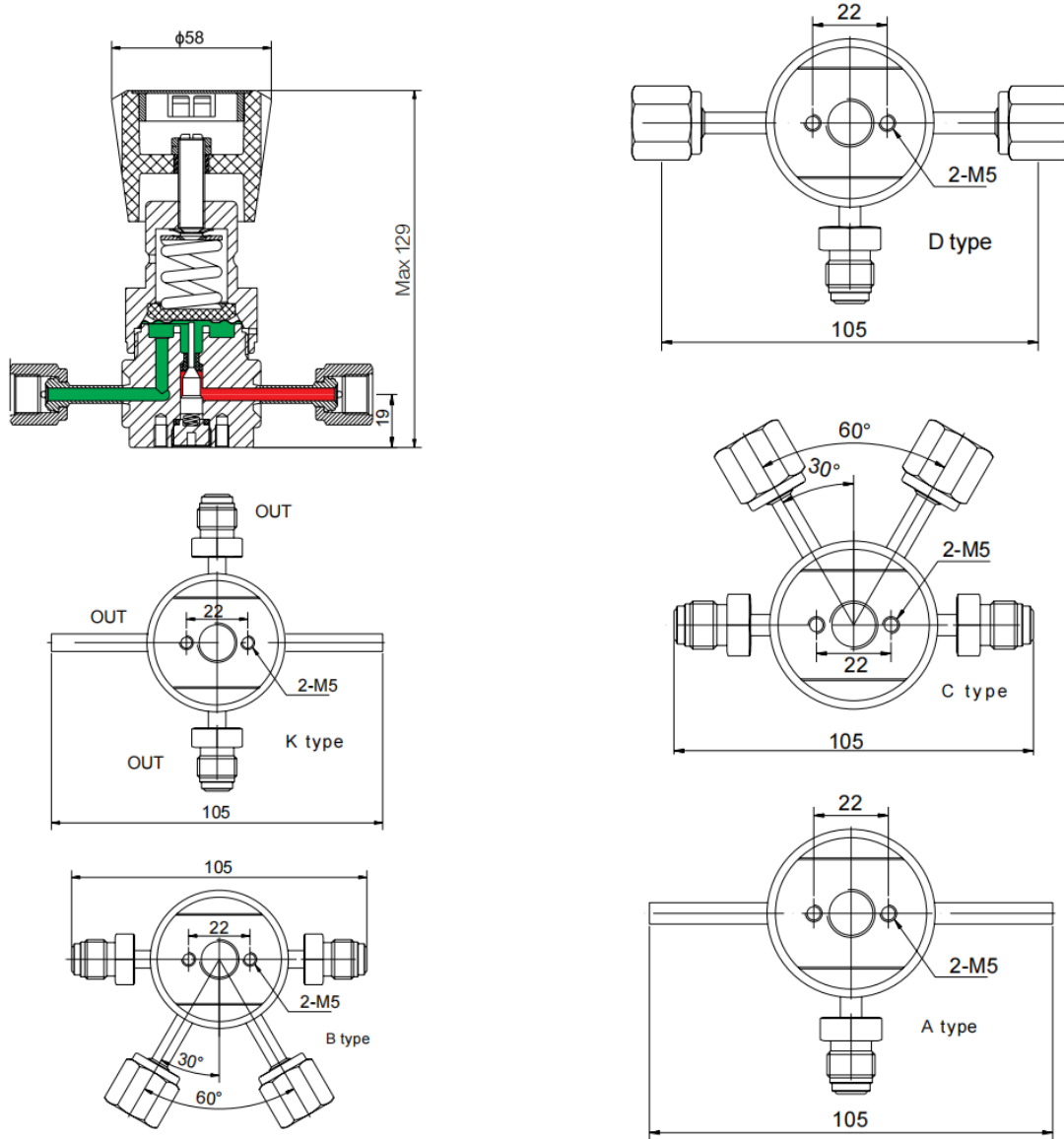
### FLOW DATA



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### DIMENSION

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



### ORDERING INFORMATION

Series	Body Material	Inlet Pressure	Outlet Pressure	Inlet Connection	Outlet Connection	Body Port	Seat Material	Operating Mode
<b>UP91</b>	<b>0</b>	<b>G</b>	<b>H</b>	<b>-0</b>	<b>0</b>	<b>-A</b>	<b>J</b>	<b>A</b>
UP91	4:304LSS 6:316L SS V:316L +V W:316L+VV	S:0~3500psi N: 0~1000psi M:0~600psi	A :25 psi B: 50 psi C: 100 psi D: 150psi F : 250 psi G: 300 psi	5: Male VCR 6: Female VCR 7: Socket weld 8: Butt - weld	5: Male VCR 6: Female VCR 7: Socket weld 8: Butt - weld	A B C D K	J: PCTFE H: Hastelloy®	A: Manual adjustment B: Pneumatic Adjustment