

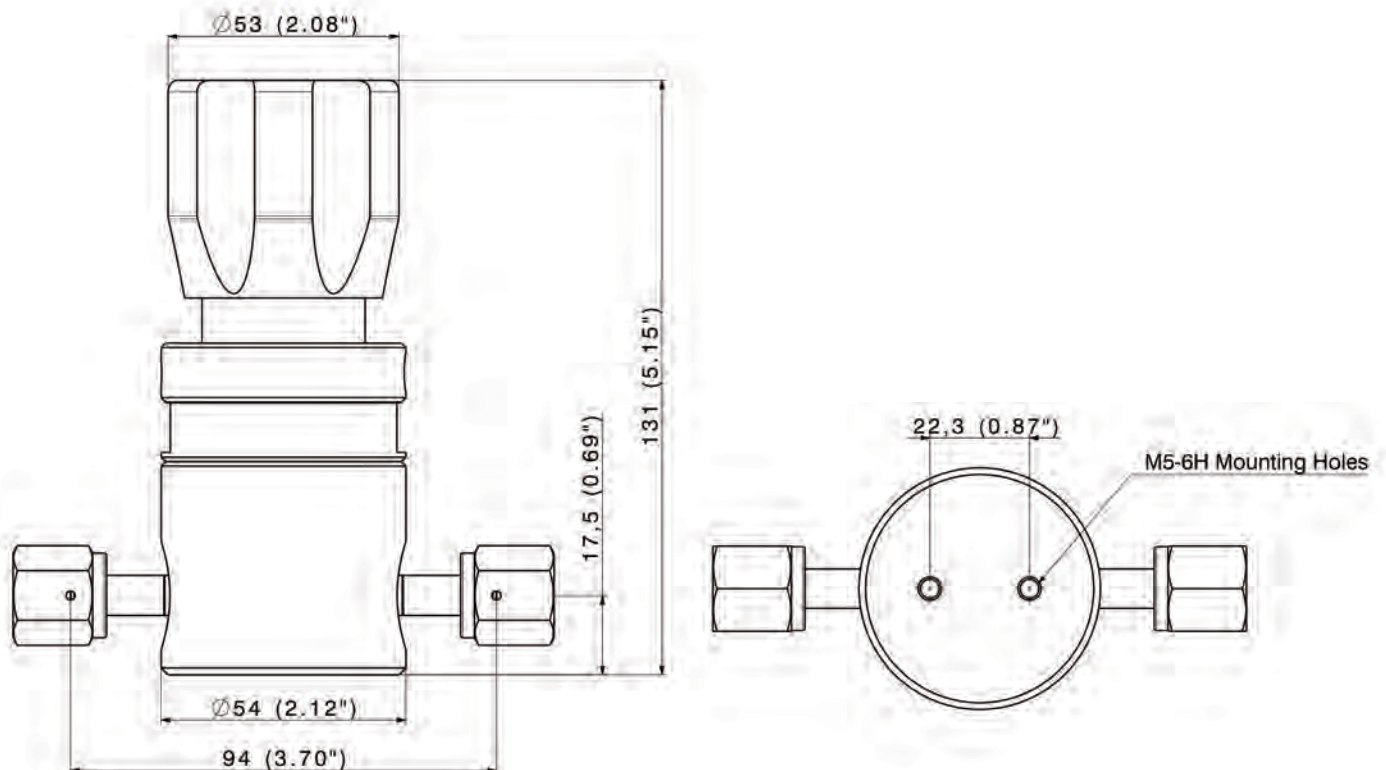
SI 240 | DIAPHRAGM PRESSURE REGULATOR / MEDIUM FLOW

KEY FEATURES

- Individual Serial number, for full traceability
- Ergonomic Design
- Spherical ball for ultra smooth control
- Sealed bonnet for extra protection
- Minimal wetted surfaces for optimal purging
- Gas specific solutions
- Assembling, testing & Packaging in cleanroom: Class ISO 4
- Controlled (PC) electropolishing for better corrosion resistance
- No spring in the wetted area for zero particle emission
- Multi-port options available
- Excellent response at high and low pressures (droop, hysteresis, creep)



DIMENSIONS



SPECIFICATIONS

Fluid media	Standard, high or ultra high purity corrosive and noncorrosive gases	Flow capacity (Cv)	0.09	Certified max. Helium across the seat leak rate (at max. pressure)	$\leq 1 \times 10^{-7}$ mbar.l/s
Max. inlet pressure	240 bar (3481 psig) (PVDF: 10 bar / 145 psig)	Number of ports	2, 3 or 4	Certified max. Helium inboard leak rate (at max. pressure)	$\leq 1 \times 10^{-9}$ mbar.l/s
Outlet pressure	2/4/7 bar (29/58/102 psig)	Burst pressure*	300% of operating pressure	Supply pressure effect I*	0.3 bar / 100 bar
Temperature range	-20°C to +65°C (-4°F to +149°F)	Proof pressure*	150% of operating pressure		
		Certified max. Helium outboard leak rate (at max. pressure)	$\leq 1 \times 10^{-9}$ mbar.l/s		

* According to CGA-E4

CONSTRUCTION MATERIAL

	Parts	Material
Wetted parts	Body	SS 316L, VAR
	Seat	PCTFE, PVDF, VESPEL®
	Diaphragm	Hastelloy®
	Poppet	SS 316L
Non-wetted parts	Bonnet	Brass
	Handwheel	Aluminium
	Others	Stainless Steel and Others

SURFACE FINISH

S	V	U
Ra 0.4 µm (15 µin)	Ra 0.25 µm EP (10 µin)	Ra 0.18 µm EP (7 µin)

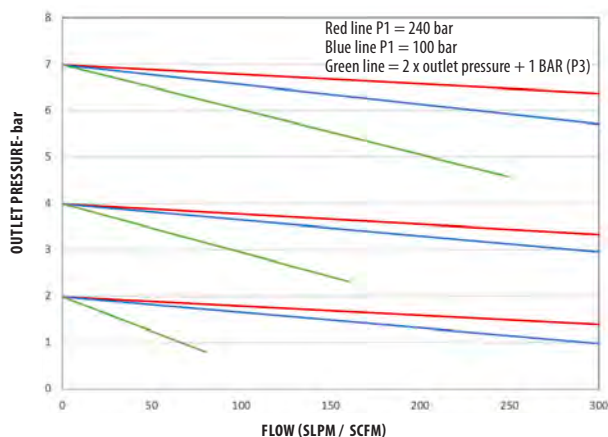
RATED FLOW CAPACITY (Q_R*) /
OUTLET PRESSURE (P2)

P2 (bar)	Q _R *(SLPM)
2	60
4	100
7	170

* According to CGA-E4

FLOW CURVES

FLOW CURVES S1240 (NITROGEN)



PRODUCT CONFIGURATOR

SI	240	Surface Finish	Porting Configuration	Body Material	Seat Material	Outlet Regulated Pressure	End Connection	Options
		S	2V1	I	K	4b	A/B: V¼ F	PG
		Ra 0.4 µm (15 µin Ra)	See page 37	SS 316L	I PCTFE (Kel-F®)	2 bar (29 psig)	2b Metal face seal ¼" - Female	V¼ F Pressure gauge 2"***
		Ra 0.25 µm EP (10 µin)		VAR*	A PVDF	P 4 bar (58 psig)	4b Metal face seal ¼" - Male	V¼ M ***Please refer to page 37
		Ra 0.13 µm EP (5 µin)*		*On demand	PI (VespeL®)	V 7 bar (102 psig)	7b Metal face seal ¼" - Internal Female	V¼ FI
		*On demand						



Special configuration on demand