

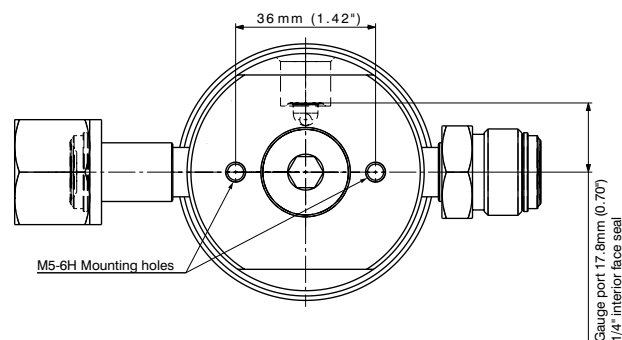
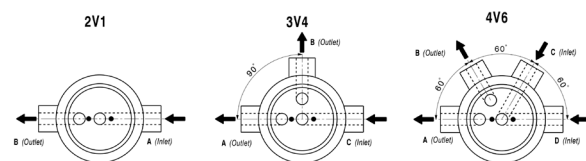
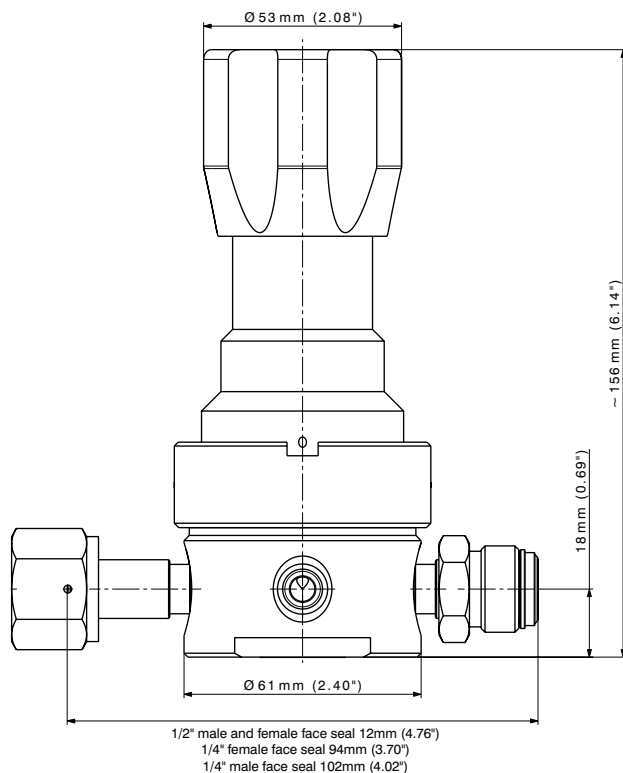
# RX2500 | DIAPHRAGM PRESSURE REGULATOR HIGH FLOW

## KEY FEATURES

- 100% Functional & Helium Leak Test performed
- Hastelloy® diaphragm
- Internally springless
- Assembling, testing & Packaging in cleanroom: Class ISO 4
- Individual serial number for full traceability
- Corrosion resistant internal option available: Hastelloy® poppet
- Electropolished surface roughness per SEMI F19 UHP Grade
- 316L VAR® stainless steel double melt per SEMI F20 option available
- High-Flow (HF) version (Cv:1.2) up to 1150 SLPM available
- Fluid specific seat material as standard options
- Additional multi-port options



## DIMENSIONS



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

## SPECIFICATIONS

<b>Max. inlet pressure</b>	Standard: 200 bar (2900 psig) HF: 50 bar (363 psig)	<b>Burst pressure**</b>	300% of operating pressure	<b>Certified max. Helium outboard leak rate (at max. pressure)</b>	$\leq 1 \times 10^{-9}$ mbar.l/s
<b>Outlet pressure</b>	5/8/10 bar* (73/116/145 psig)	<b>Proof pressure**</b>	150% of operating pressure	<b>Certified max. Helium across the seat leak rate (at max. pressure)</b>	$\leq 1 \times 10^{-7}$ mbar.l/s
<b>Temperature range</b>	-20°C to +60°C (-4°F to +140°F)	<b>Supply pressure effect I**</b>	Standard: 1.5 bar / 100 bar HF: 6 bar / 100 bar	<b>Certified max. Helium inboard leak rate (at max. pressure)</b>	$\leq 1 \times 10^{-9}$ mbar.l/s
<b>Flow capacity (Cv)</b>	Standard: 0.45 High Flow: 1.2				

\* full outlet pressure not achievable at all inlet pressures

\*\* According to CGA-E4

## CONSTRUCTION MATERIAL

	Parts	Material
<b>Wetted parts</b>	Body	SS 316L, VAR
	Seat	PCTFE, PVDF, VESPEL®
	Diaphragm	Hastelloy®
	Poppet	SS 316L, Hastelloy®
<b>Non-wetted parts</b>	Bonnet	Chrome Plated 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 0.13 µm EP (5 µin)

RATED FLOW CAPACITY (Q<sub>R</sub>\*) / OUTLET PRESSURE (P2)

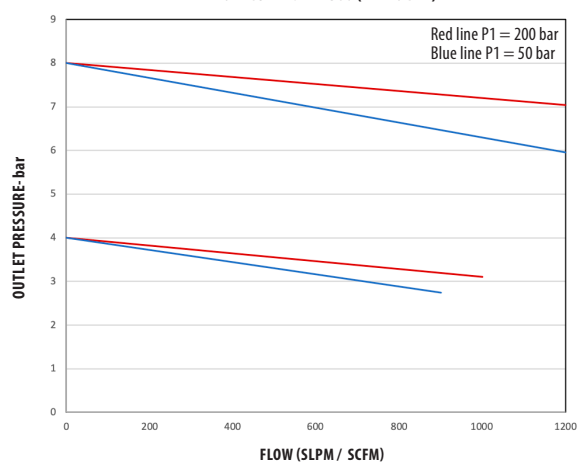
P2 (bar)	Q <sub>R</sub> *(SLPM)	Q <sub>R</sub> *(SLPM) HF
5	650	950
8	1,100	-
10	-	1,900

\* According to CGA-E4

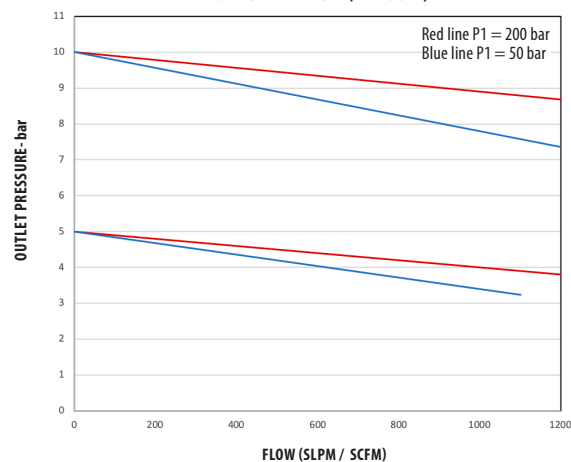
All specifications subject to change without notice

## FLOW CURVES

FLOW CURVES RX2500 (NITROGEN)



FLOW CURVES RX2500 (NITROGEN) HF



## PRODUCT CONFIGURATOR

		Outlet Regulated Pressure		Body Material		Surface Finish		Porting Configuration		Inlet / Outlet Connections		Options		Version	
RX	25	02		-		V		2V1		4M4M		V		HF	
		2 bar (29 psig)	02	SS 316L	-	Ra 0.4 µm (15 µin)	S	2 ports	2V1	Metal face seal ½" - Male	8M	Vespeal Seat	V	Standard (Cv 0.45)	
		5 bar (73 psig)	05	VAR	V	Ra 0.25 µm EP (10 µin)	V	3 ports	3V4	Metal face seal ½" - Female	8F	Hastelloy Poppet	HP	High Flow (Cv 1.2)	HF
		10 bar (145 psig)	10			Ra 0.13 µm EP (5 µin)*	U	4 ports	4V6	Metal face seal ¼" - Male	4M	Gauge(s)*	PG		
						*On demand				Metal face seal ¼" - Female	4F	PTFE Nickel loaded**	TE		
										Metal face seal ¼" - Internal*	4FI	*Gauge(s) requires 4FI connection(s)			
										*Gauge port(s) only		**Contact Rotarex			

\*On demand

\*Gauge port(s) only

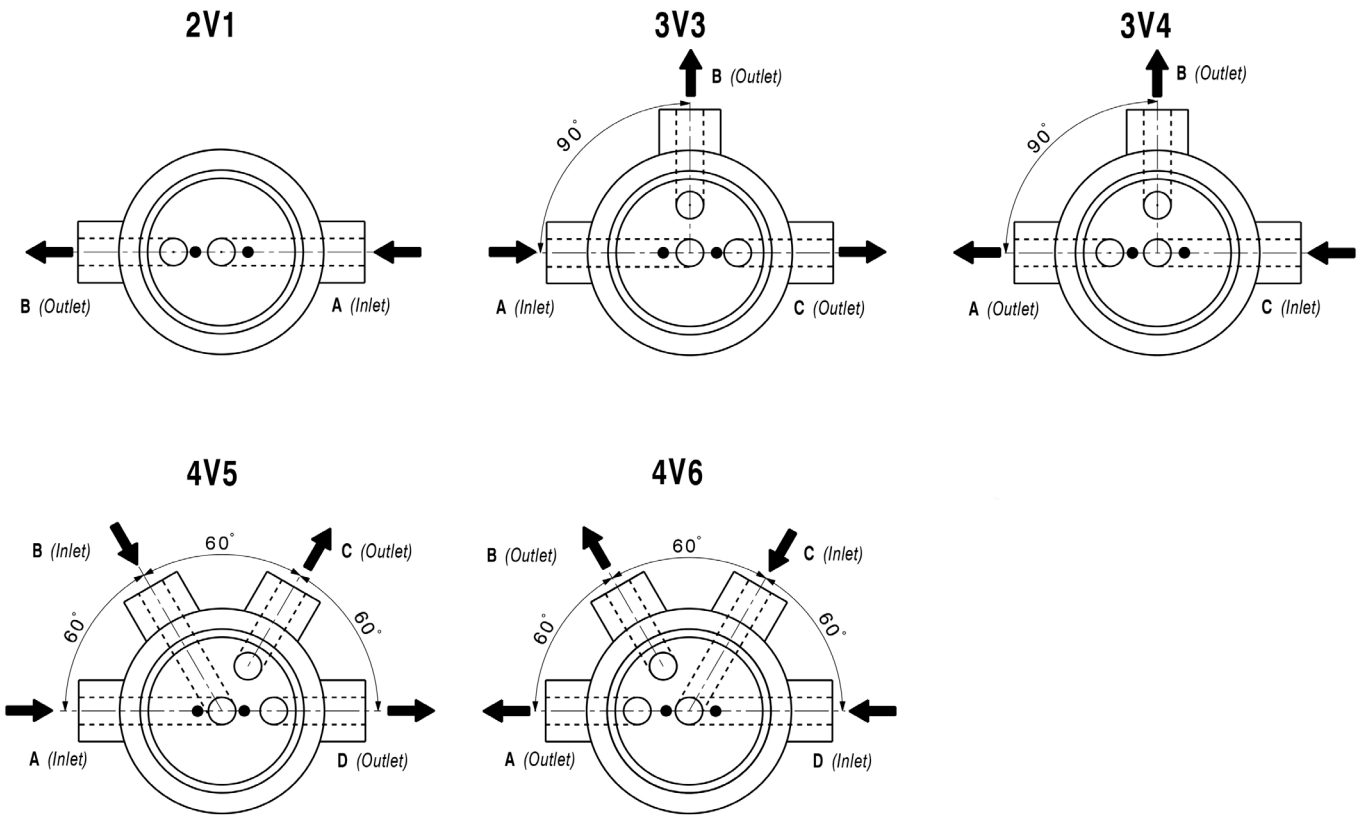


Special configuration on demand

REGULATORS

TOP VIEW

Standard configurations:



● ➔ Bottom Threaded holes

Other configurations: on demand

PRESSURE GAUGES (BAR / PSI)

