

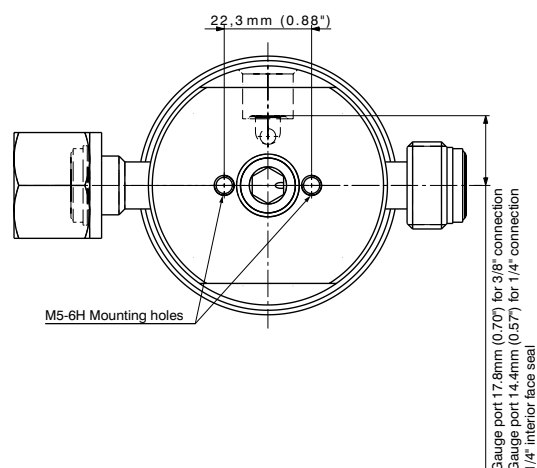
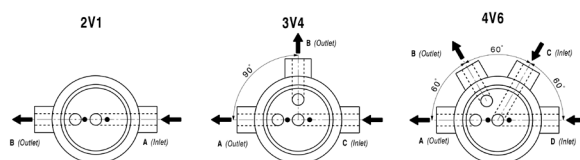
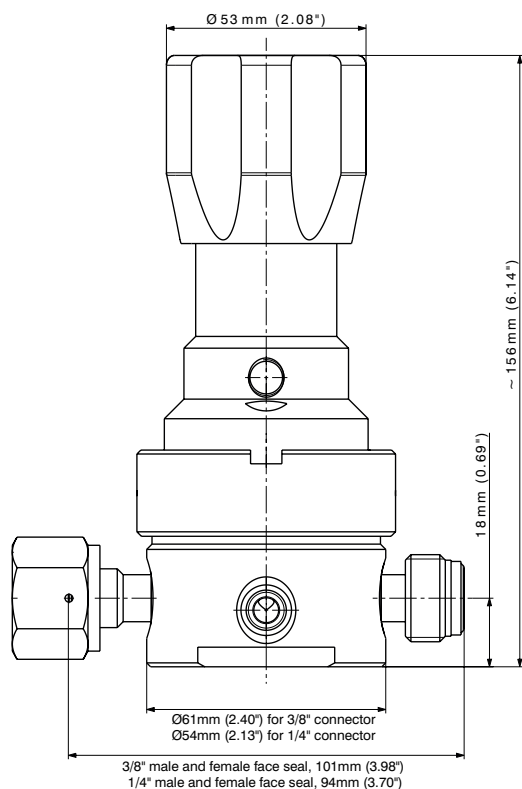
# RX2200 | DIAPHRAGM PRESSURE REGULATOR MEDIUM FLOW & HIGH FLOW

## KEY FEATURES

- 100% Functional & Helium Leak Test performed
- Hastelloy® diaphragm
- Internally spring- and threadless for highest UHP requirements
- 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
- Coating option of wetted areas is available
- 316L VAR® stainless steel double melt per SEMI F20 option 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>	240 bar (3481 psig)	<b>Flow capacity (Cv)</b>	0.2	<b>Certified max. Helium outboard leak rate</b>	$\leq 1 \times 10^{-9}$ mbar.l/s
<b>Outlet pressure</b>	3/8/10/15/25/50 bar (44/116/145/218/363/725 psig)	<b>Burst pressure*</b>	300% 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 +65°C (-4°F to +149°F)	<b>Proof pressure*</b>	150% of operating pressure	<b>Certified max. Helium inboard leak rate (at max. pressure)</b>	$\leq 1 \times 10^{-9}$ mbar.l/s
		<b>Supply pressure effect I*</b>	1.35 bar / 100 bar		

\* According to CGA-E4

## CONSTRUCTION MATERIAL

	Parts	Material
<b>Wetted parts</b>	Body	SS 316L, VAR
	Seat	PCTFE
	Diaphragm	Hastelloy®
	Poppet	SS 316L, Hastelloy®
<b>Non-wetted parts</b>	Joint	Nickel, SS316L
	Bonnet	Brass
	Handwheel	Aluminium
	Others	Stainless Steel and Alloys

## 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 (P<sub>2</sub>)

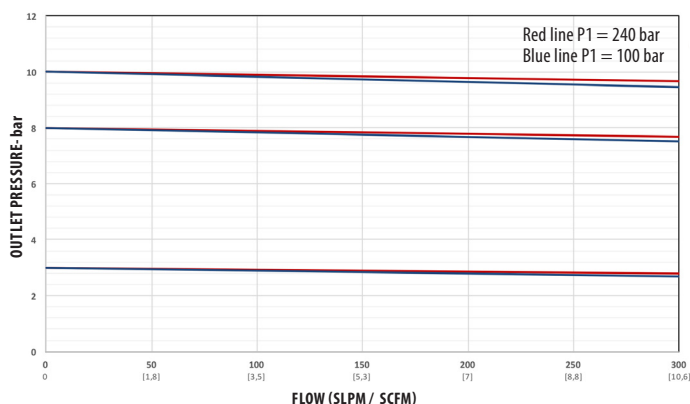
P <sub>2</sub> (bar)	Q <sub>R</sub> *(SLPM)
3	280
8	580
10	680
15	970
25	1,550
50	3,000

\* According to CGA-E4

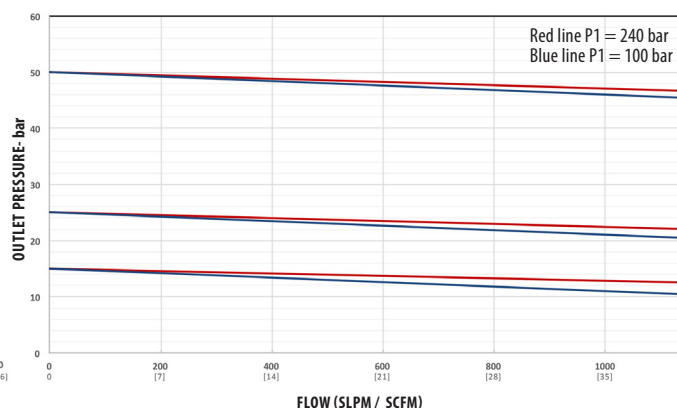
All specifications subject to change without notice

## FLOW CURVES

FLOW CURVES RX2200 (NITROGEN)



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## PRODUCT CONFIGURATOR

RX	22	Outlet Regulated Pressure	Body Material	Surface Finish	Porting Configuration	Inlet / Outlet Connections	Options
		02	V	-	3V4	4F4FI4F	PG
		2 bar (29 psig)	02 SS 316L	-	2 ports	2V1 Metal face seal 1/4" - Male	V
		4 bar (58 psig)	04 VAR	V	3 ports	3V4 Metal face seal 1/4" - Female	P
		7 bar (102 psig)	07	Ra 0.13 µm EP (5 µin)*	4 ports	4V6 Metal face seal 3/8" - Female	HP
		10 bar (145 psig)	10	*On demand		Metal face seal 3/8" - Male	PG
		25 bar (363 psig)	25			Metal face seal 1/4" - Internal*	*Gauge(s) requires 4FI connection(s)
		50 bar (725 psig)	50				*Gauge port(s) only

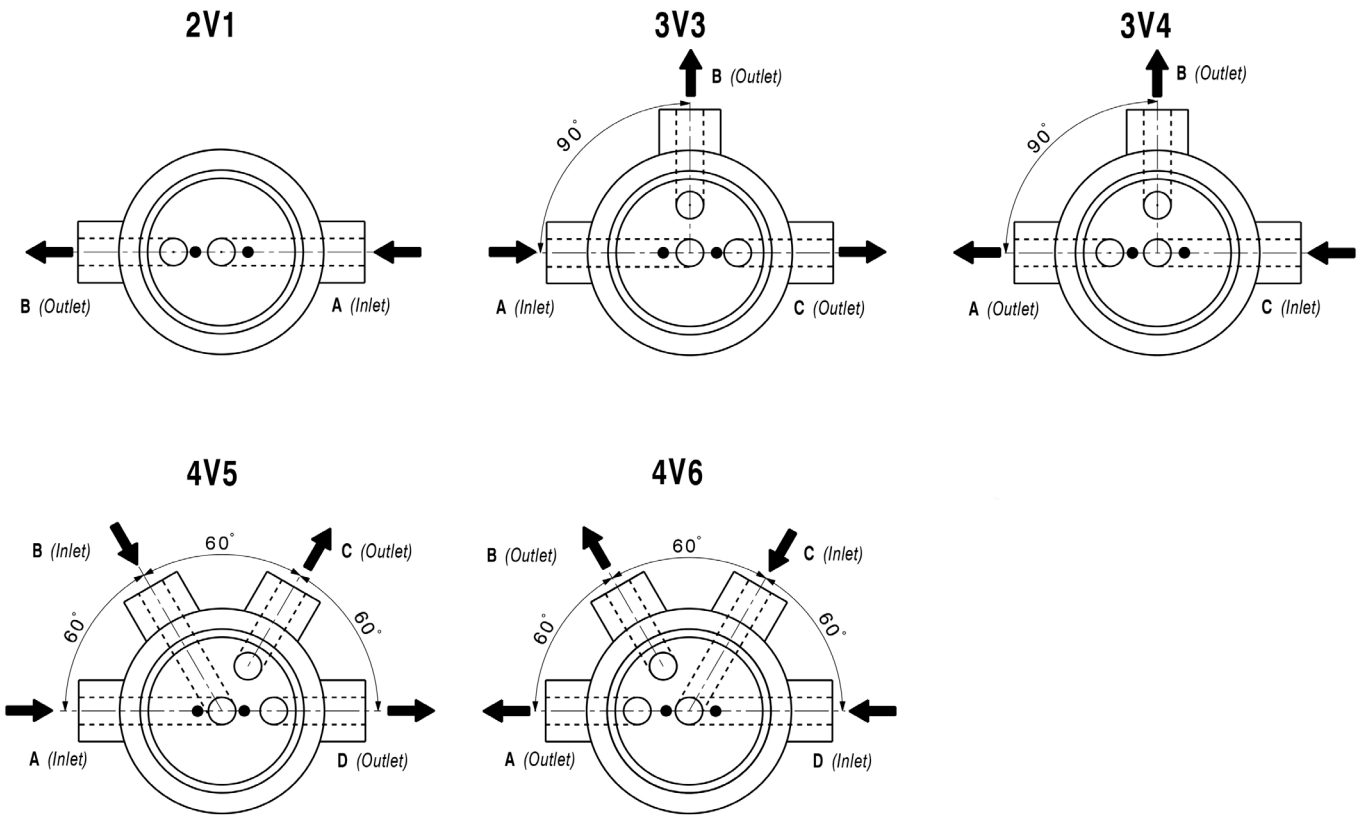


Special configuration on demand

REGULATORS

TOP VIEW

Standard configurations:



● ➔ Bottom Threaded holes

Other configurations: on demand

PRESSURE GAUGES (BAR / PSI)

