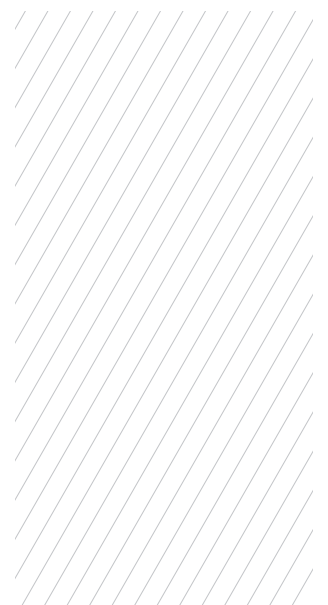




SUB-ATMOSPHERIC PRESSURE REGULATOR FOR HP & UHP APPLICATIONS

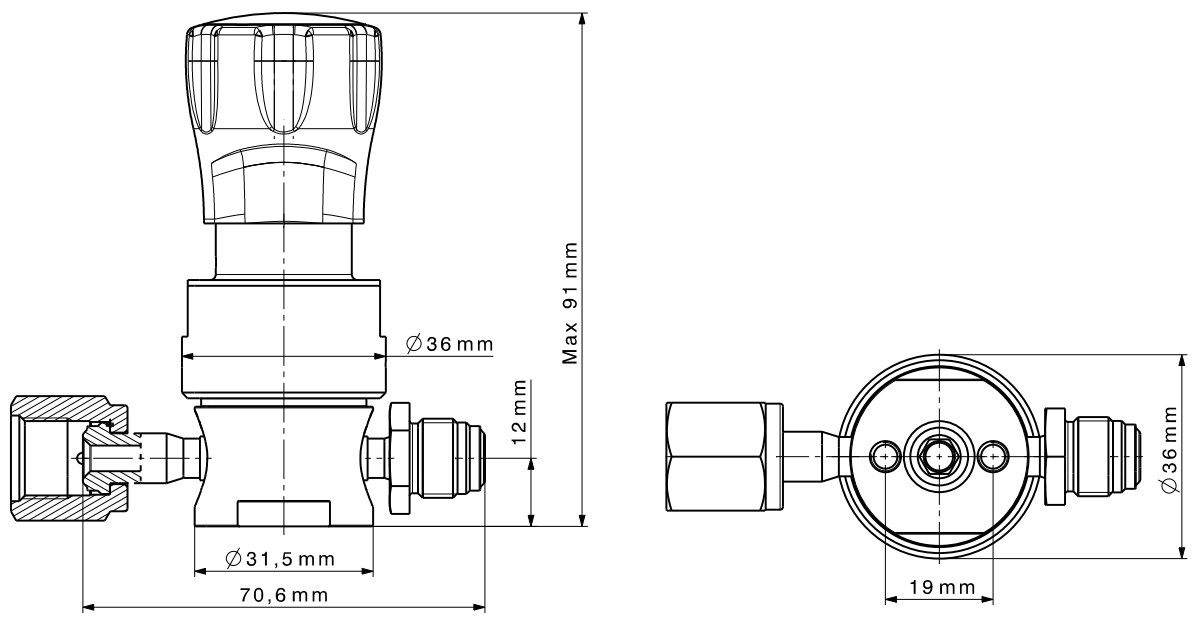
- Unique threadless design in all versions for a higher purity level
- Spring less design
- Optimized supply pressure effect and excellent flow stability
- Life duration according to CGA E4
- Vacuum to 21 bar (300 psig) inlet
- Assembling, testing & packaging in cleanroom: Class ISO 4
- Individual serial number for full traceability
- Electropolished surface per SEMI F19 UHP Grade
- 316L VAR® stainless steel double melt per SEMI F20 option available

RX3100



RX3100 | ABSOLUTE PRESSURE REGULATOR

FOR THE HIGHEST LEVEL OF PURITY



SPECIFICATIONS

Max. inlet pressure 21 bar (305 psig)	Poppet type Tied diaphragm	Certified max. Helium outboard leak rate $\leq 1 \times 10^{-9}$ mbar.l/s
Outlet pressure 0.7 / 2 bar (10/29 psig)	Burst pressure 300% of operating pressure	Certified max. Helium across the seat leak rate (at max. pressure) $\leq 1 \times 10^{-8}$ mbar.l/s
Temperature range -20°C to +65°C (-4°F to +149°F)	Proof pressure 150% of operating pressure	Certified max. Helium inboard leak rate (at max. pressure) $\leq 1 \times 10^{-9}$ mbar.l/s
Flow capacity (Cv)	0.09	
Supply pressure effect I*	0.25	
*1 bar / 100 bar inlet pressure change		

CONSTRUCTION MATERIAL

	Parts	Material
Wetted parts	Body	SS 316L, VAR
	Seat	PCTFE (PVDF, PTFE, VESPEL® optional)
	Diaphragm	SS 316L (Hastelloy optional)
	Poppet	SS 316L (Hastelloy optional)
	Spring	SS 316L (Hastelloy optional)
	Spring Holder	SS 316L
Non-wetted parts	Bonnet	SS 303
	Handwheel	PA 6.6
	Others	Stainless Steel and Brass

SURFACE FINISH

S	Ra 0.4 µm (15 µin)
V	Ra 0.25 µm EP (10 µin)
U	Ra 0.13 µm EP (5 µin)

SCAN ME FOR FLOW CURVES & PRODUCT CONFIGURATOR



PRODUCT CONFIGURATOR

Regulator type		Outlet pressure		Seat material		Cv value		Body material		Surface finish		Porting Configuration		Connections		Actuation type		Inlet pressure		Options	
RX	31	01		K		009		S		V		2W1		4F4F		M		021		HPG0	
Vacuum (Tied dia- phragm)	31	0.7 bar (10 psig)	01	PCTFE	K	0.09	009	Stainless Steel AISI 316L	S	Ra 0.4 µm (15 µin)	S	2 ports	2 W 1	¼" Female VCR	4F	Hand- wheel	M	21 bar (305 psig)	021	Hastelloy Trim	H
		2 bar (29 psig)	02	Vespel	V			Stainless Steel AISI 316 AOD Var	V	Ra 0.25 µm EP (10 µin)	V	3 ports	3 W 4	¼" Male VCR	4M					Gauge (bar/PSI)	P G 0
				PVDF	P					Ra 0.13 µm EP (5 µin)	U	4 ports	4 W 6							Gauge (MPa)	P G 1
				PTFE	T																



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