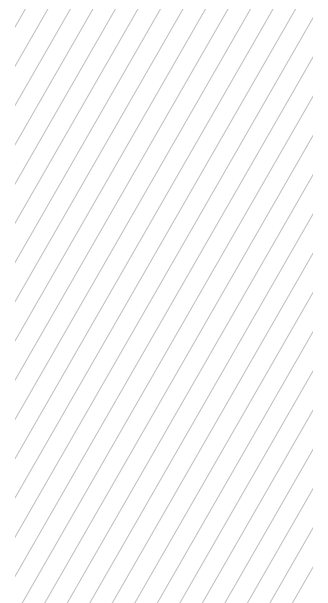




PISTON LOADED HIGH PRESSURE REGULATOR FOR HP & UHP APPLICATIONS

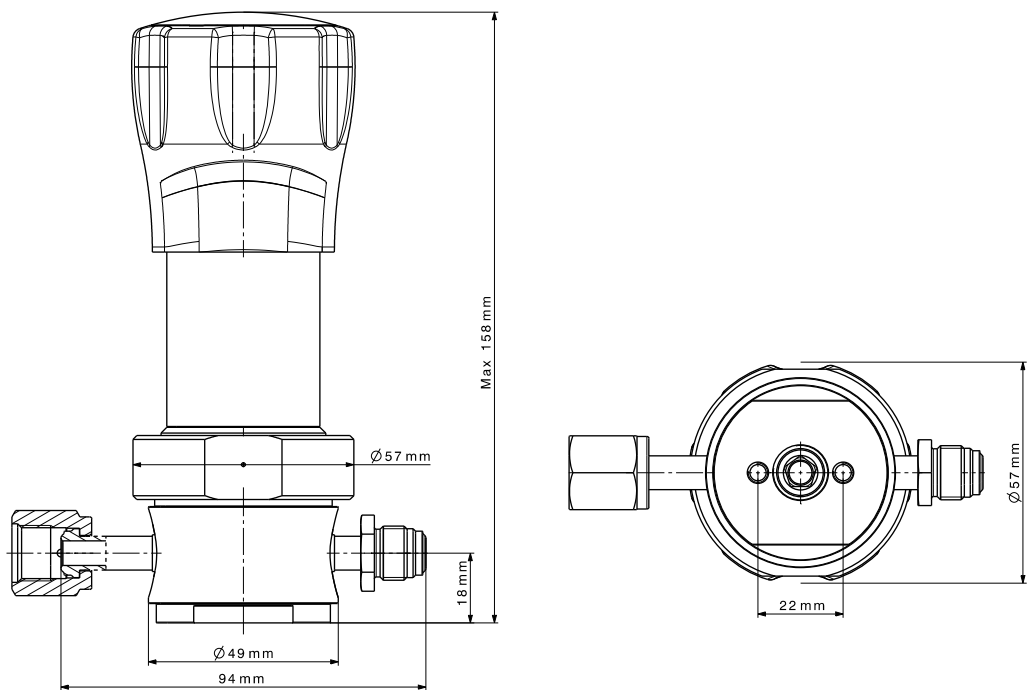
- Unique threadless design in all versions for a higher purity level
- Self-relieving option (venting)
- Optimized supply pressure effect and excellent flow stability
- Life duration according to CGA E4
- Vacuum to 310 bar (4500 psig) inlet
- Assembling, testing & packaging in cleanroom: Class ISO 4
- Individual serial number for full traceability
- Electropolished surface per SEMI F19 UHP Grade
- 316L VAR® stainless steel double melt per SEMI F20 option available

023700 RX3700



RX3700 | HIGH PRESSURE PISTON REGULATOR

SELF-RELIEVING AND NON-RELIEVING



SPECIFICATIONS

Max. inlet pressure

310 bar (4,500 psig)

Outlet pressure

34/ 172 bar
(500/ 2,500 psig)

Temperature range

-20°C to +65°C (-4°F to +149°F)

Poppet type

Tied diaphragm

Burst pressure

300% of operating pressure

Proof pressure

150% of operating pressure

Certified max. Helium outboard leak rate

≤ 1 x 10⁻⁶ mbar.l/s

Certified max. Helium across the seat leak rate (at max. pressure)

≤ 1 x 10⁻⁶ mbar.l/s

Certified max. Helium inboard leak rate (at max. pressure)

≤ 1 x 10⁻⁶ mbar.l/s

Flow capacity (Cv)	0.09	0.15
Supply pressure effect I*	5	11

*1 bar / 100 bar inlet pressure change

CONSTRUCTION MATERIAL

	Parts	Material
Wetted parts	Body	SS 316L, VAR
	Seat	PCTFE (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	37	K	K	009	S	V	2W1	4F4F	M	310	HPG0										
High outlet pressure with piston (Tied diaphragm)	37	34 bar (500 psig)	K	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	310 bar (4,500 psig)	310	Hastelloy Trim	H
		172 bar (2,500 psig)	M	Vespel	V	0.15*	015	Stainless Steel AISI 316 AOD Var	V	Ra 0.25 µm EP (10 µin)	V	3 ports	3 W 4	¼" Male VCR	4M	Hand-wheel venting	S			Gauge (bar/PSI)	P G 0
										Ra 0.13 µm EP (5 µin)	U	4 ports	4 W 6							Gauge (MPa)	P G 1

* Vespel mandatory for Cv of 0.15



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