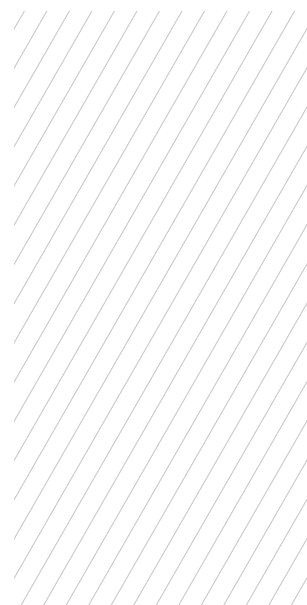




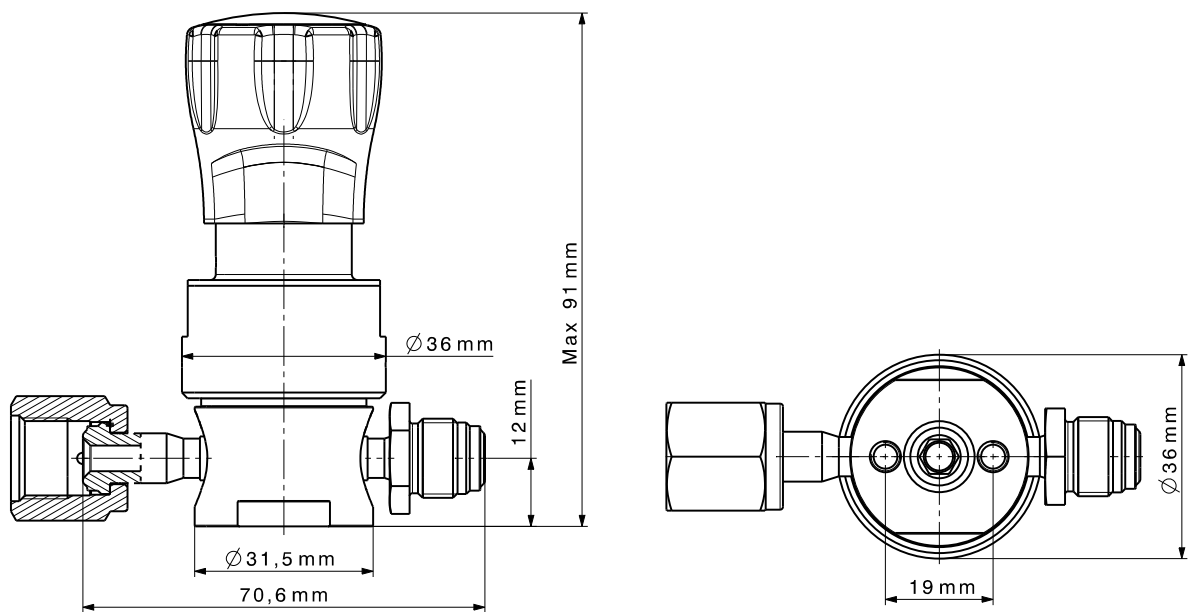
COMPACT SINGLE-STAGE DIAPHRAGM PRESSURE REGULATOR FOR HP & UHP APPLICATIONS

- Unique threadless design in all versions for a higher purity level
- Life duration according to CGA E4
- As compact as UHP line valves
- Vacuum to 240 bar (3500 psi) 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

0001RX1000



RX1000 | THE FIRST OF ITS KIND THREADLESS PRESSURE REGULATOR FOR THE HIGHEST LEVEL OF PURITY



SPECIFICATIONS

Max. inlet pressure

240 bar (3,500 psig)

Outlet pressure

0.7/2/4/7/10 bar
(10/29/58/102/145 psig)

Temperature range

-20°C to +65°C (-4°F to +149°F)

Poppet type

Free diaphragm: RX 1000

Burst pressure

300% of operating pressure

Proof pressure

150% of operating pressure

Certified max. Helium outboard leak rate

≤ 1 x 10⁻⁹ mbar.l/s

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

≤ 1 x 10⁻⁸ mbar.l/s

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

≤ 1 x 10⁻⁹ mbar.l/s

Flow capacity (Cv)	0.04	0.09	0.15
Supply pressure effect I*	0.5	0.8	1.7

*1 bar / 100 bar inlet pressure change

CONSTRUCTION MATERIAL

	Parts	Material
Wetted parts	Body	SS 316L, VAR
	Seat	PCTFE (PVDF, 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)

PRODUCT CONFIGURATOR

Regulator type		Outlet pressure		Seat material		Cv value		Body material		Surface finish		Porting configuration		Connections		Actuation type		Inlet pressure		Options	
RX	10	07		K		004		S		V		2W1		4F4F		M		240		H	
Free dia-phragm	10	0.7 bar (10 psig)	01	PCTFE	K	0.04	004	Stainless Steel AISI 316L	S	Ra 0.4 µm (15 µin)	S	2 ports	2 W 1	¼" Female VCR	4F	Hand-wheel	M	240 bar (3,500 psig)	240	Hastelloy Trim 1	H
		2 bar (29 psig)	02	Vespel	V	0.09	009	Stainless Steel AISI 316 AOD Var	V	Ra 0.25 µm EP (10 µin)	V				¼" Male VCR					4M	¹ Includes Hastelloy C22 Poppet, wetted spring & diaphragm
		4 bar (58 psig)	04	PVDF	P	0.15	015			Ra 0.13 µm EP (5 µin)	U										
		7 bar (102 psig)	07																		
		10 bar (145 psig)	10																		



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Brasil * China * France * Germany * India * Indonesia
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