



ROTAREX
VALVES - REGULATORS - SYSTEMS

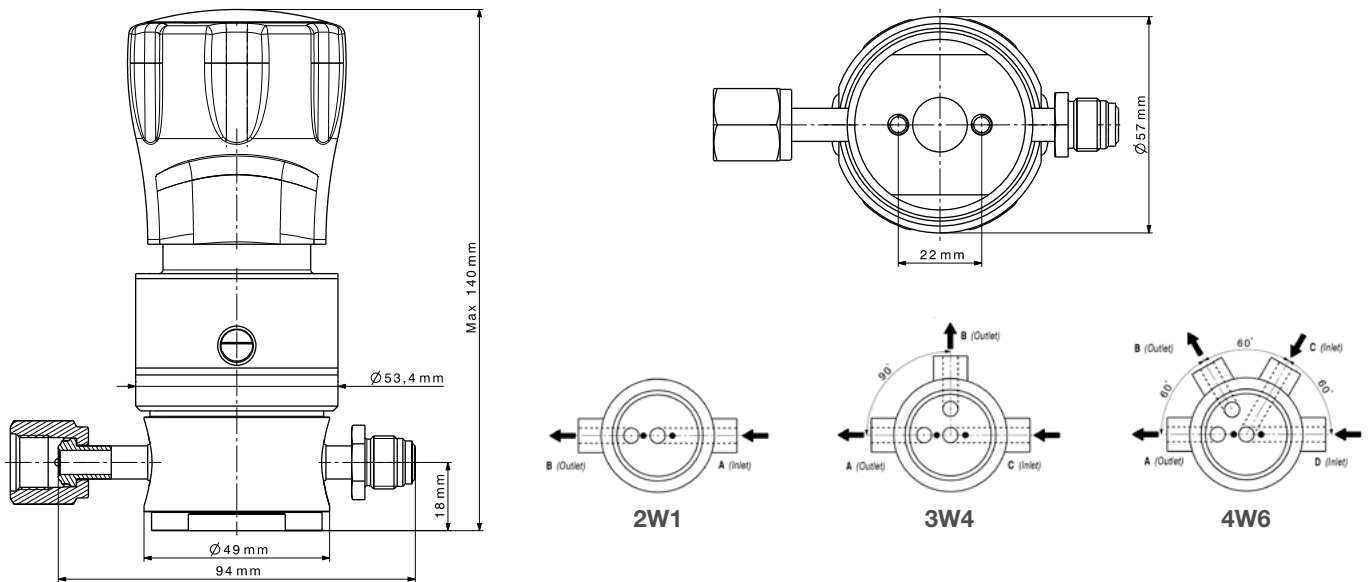


SINGLE-STAGE DIAPHRAGM PRESSURE REGULATOR FOR HP & UHP APPLICATIONS

- Unique threadless design for a higher purity level
- Optimized supply pressure effect and excellent flow stability
- Life duration according to CGA E4
- 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

RX3000

RX3000 | THE FIRST OF ITS KIND THREADLESS PRESSURE REGULATOR FOR THE HIGHEST LEVEL OF PURITY



SPECIFICATIONS

Max. inlet pressure

21/240 bar (305/3500 psig)

Outlet pressure

0.7/ 2/4/7/10/21 bar
(10/29/58/102/145/305 psig)

Temperature range

-20°C to +65°C
(-4°F to +149°F)

Poppet type

Free diaphragm

Burst pressure

300% of operating pressure

Proof pressure

150% of operating pressure

Certified max. Helium outboard leak rate

$\leq 1 \times 10^{-9}$ mbar.l/s

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

$\leq 1 \times 10^{-8}$ mbar.l/s

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

$\leq 1 \times 10^{-9}$ mbar.l/s

Flow capacity (Cv)	0.09	0.15
Supply pressure effect I*	0.25	0.5

*1 bar / 100 bar inlet pressure change

SCAN ME FOR FLOW CURVES & PRODUCT CONFIGURATOR



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	30	07	K	009	S	V	2W1	4F4F	M	240	HPG0												
	Free diaphragm	30	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 ¹	H	
			2 bar (29 psig)	02	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				240 bar (3,500 psig)	240	Gauge (bar/PSI) ²	P G 0
			4 bar (58 psig)	04	PVDF*	P				U	Ra 0.13 µm EP (5 µin)	U	4 ports	4 W 6							Gauge (MPa) ²	P G 1	
			7 bar (102 psig)	07	PTFE*	T																	
			10 bar (145 psig)	10																			
			21 bar (305 psig)	21																			

* PTFE, PVDF seat and 0.7 bar (10 psig) outlet pressure are only available for 21 bar (305 psig) inlet pressure



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