

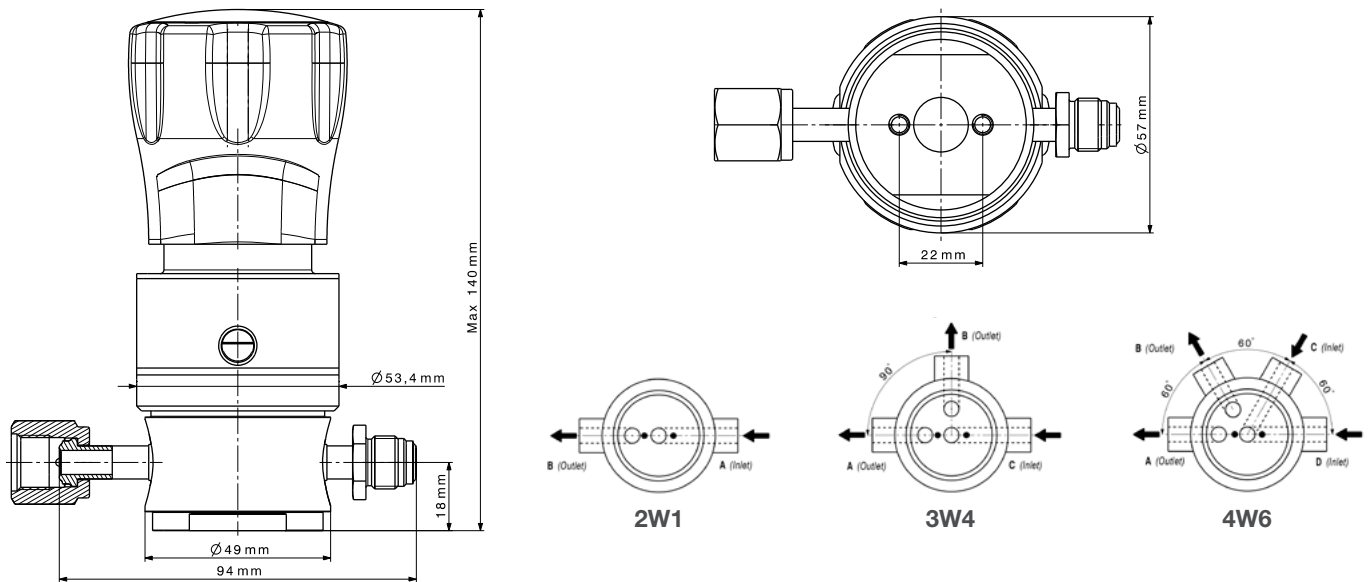


SINGLE-STAGE DIAPHRAGM PRESSURE REGULATOR FOR HP & UHP APPLICATIONS

- 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 dia-phragm	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	PG 0
		4 bar (58 psig)	04	PVDF*	P					Ra 0.13 µm EP (5 µin)	U	4 ports	4 W 6							Gauge (MPa) ²	PG 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 (10psig) outlet pressure are only available for 21 bar (305 psig) inlet pressure



Find out our locations here
<https://rotarex.com/locations>



E01006_BRO_EN_A4_RX3000_V17