ROTAREX
VALVES - REGULATORS - SYSTEMS

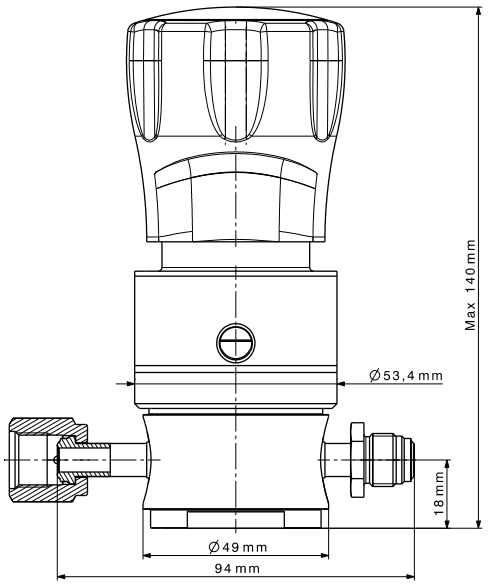
RX3000

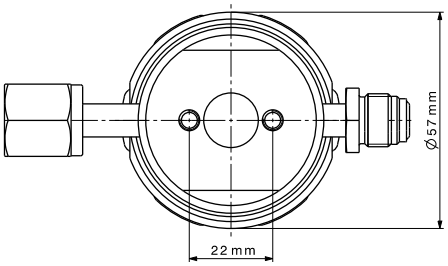


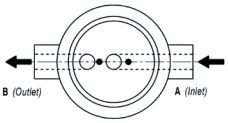
SINGLE-STAGE DIAPHRAGM PRESSURE REGULATOR FOR HP & UHP APPLICATIONS

- Unique threadless design in all versions for a higher purity level
- Spring less design for tied diaphragm version
- Sub-atmospheric option available
- 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

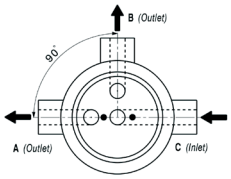
RX3000 | THE FIRST OF ITS KIND THREADLESS AND SPRINGLESS PRESSURE REGULATOR FOR THE HIGHEST LEVEL OF PURITY



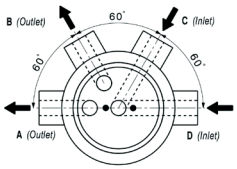




2W1



3W4



4W6

SPECIFICATIONS

Max. inlet pressure

240 bar (3500 psig)
21 bar for sub atmospheric

Outlet pressure

0.7/ 2/4/7/10/21 bar
(10/30/60/100/150/300 psig)

Temperature range

-20°C to +65°C
(-4°F to +149°F)

Flow capacity (Cv)

Standard: 0.09
High Flow: 0.15

Poppet type

Free poppet: RX 3000
Tied diaphragm: RX3200

Burst pressure*

300% of operating pressure

Proof pressure*

150% of operating pressure

Supply pressure effect I*

Standard: 0.25 bar / 100 bar
HF: 0.5 bar / 100 bar

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

CONSTRUCTION MATERIAL

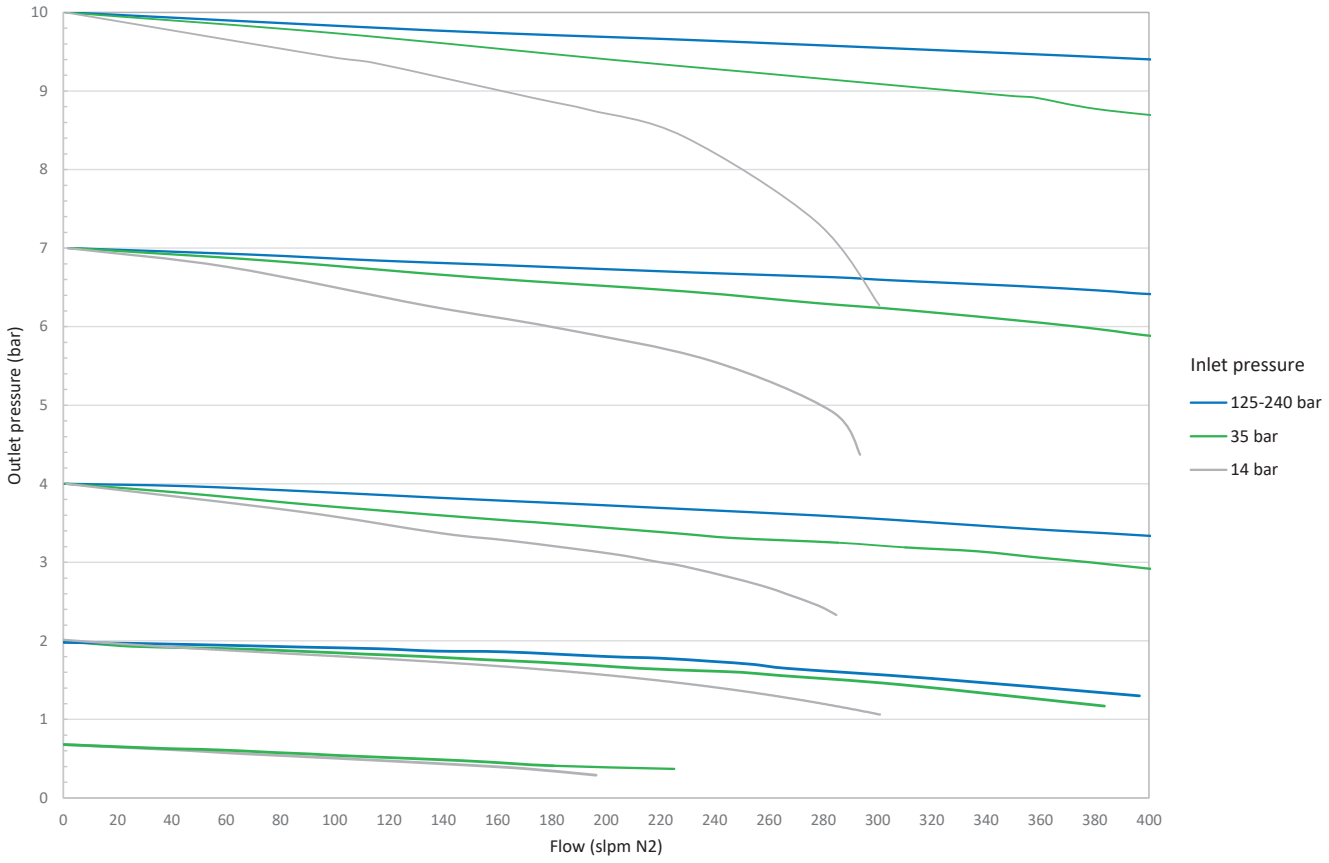
	Parts	Material
Wetted parts	Body	SS 316L, VAR
	Seat	PCTFE (PVDF, VESPEL® optional)
	Diaphragm	SS 316L (Hastelloy optional)
	Poppet	SS 316L (Hastelloy optional)
	Spring	SS 316L (Hastelloy optional)
	Spring Holder	SS 316L
Non-wetted parts	Bonnet	SS 303
	Handwheel	PA 6.6
	Others	Stainless Steel and Brass

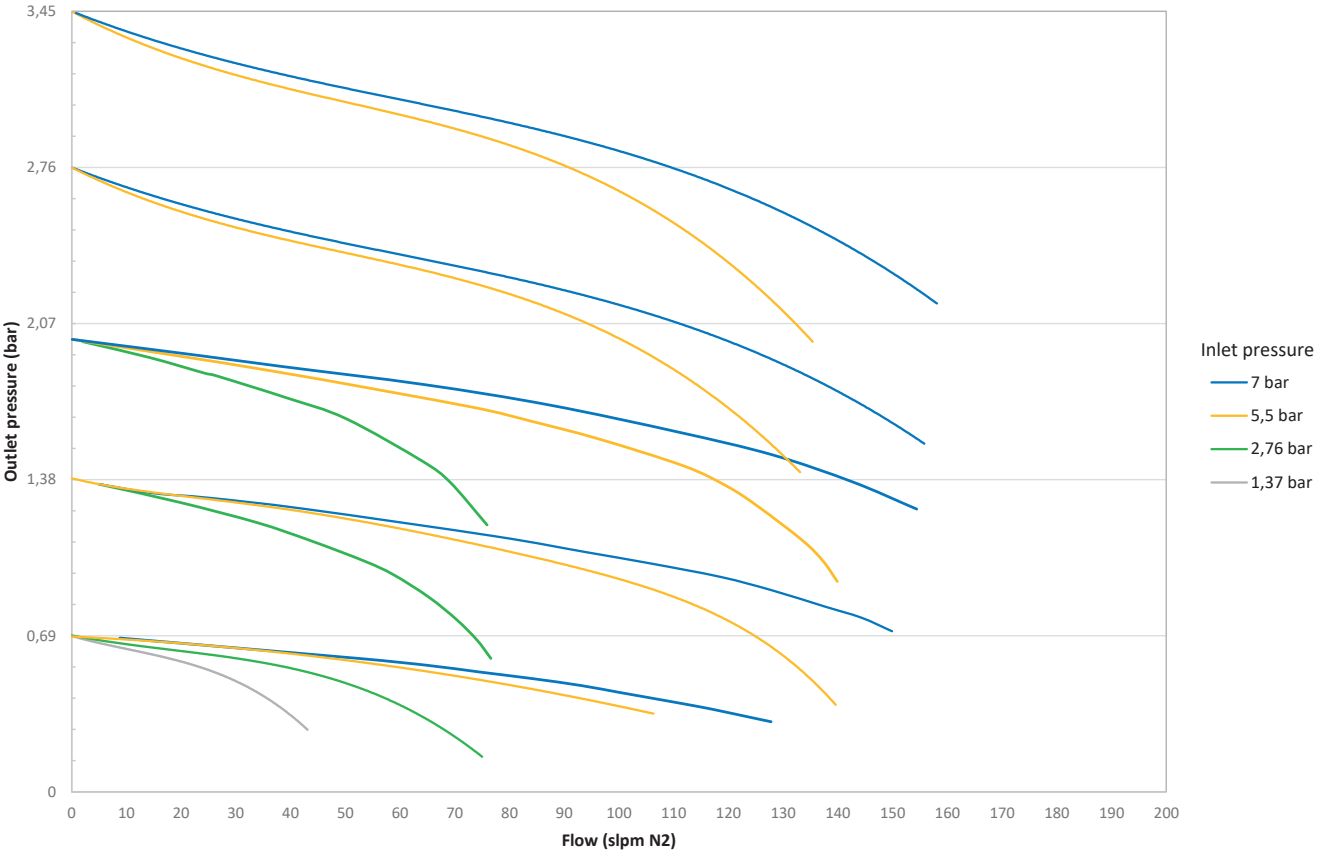
SURFACE FINISH

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

SCAN ME FOR FLOW CURVES & PRODUCT CONFIGURATOR

FLOW CURVES


Outlet pressure (bar)
10
9
8
7
6
5
4
3
2
1
0
0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400
Flow (slpm N2)
Inlet pressure
125-240 bar
35 bar
14 bar


Outlet pressure (bar)
3,45
2,76
2,07
1,38
0,69
0
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200
Flow (slpm N2)
Inlet pressure
7 bar
5,5 bar
2,76 bar
1,37 bar

PRODUCT CONFIGURATOR

	Regulator type		Max. Delivery Pressure		Body Material		Surface Finish		Porting Configuration		Inlet / Outlet Connections		Seat Material		Options		Version	
RX	30		07		-		V		2W1		4M4M		-		-		HF	
	Free poppet	30	0.7 bar (10 psig)	01 **	SS 316L	-	Ra 0.4 µm (15 µin)	S	2 ports	2W1	Metal face seal 1/4" - Female	4F	PCTFE Seat	-	Hastelloy Trim***	H	Standard (Cv 0.09)	-
	Tied and sub atmospheric delivery pressure (min 100 mbara)	31	2 bar (29 psig)	02	VAR	V	Ra 0.25 µm EP (10 µin)	V	3 ports	3W4	Metal face seal 1/4" - Male	4M	PVDF Seat	P	Gauge(s) ****	PG	High Flow (Cv 0.15)	HF
	Tied diaphragm	32	4 bar (58 psig)	04			Ra 0.13 µm EP (5 µin)	U	4 ports	4W6	Metal face seal 1/4" - Internal	4FI	Vespel® Seat	V				
			7 bar (102 psig)	07														
			10 bar (145 psig)	10														
			21 bar (305 psig)	21														

* Recommended with a max. delivery pressure of 0.7 bar or 2 bar
** Max inlet pressure 21 bar
*** Hastelloy poppet, diaphragm and spring
**** Gauge(s) port(s) only

WORLDWIDE HEADQUARTERS

ROTAREX
VALVES - REGULATORS - SYSTEMS



Find out our 24 locations here
https://rotarex.com/locations

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