

Clean Regulator

Series SRH

Contamination controlled stainless steel regulator

Outstanding corrosion resistance

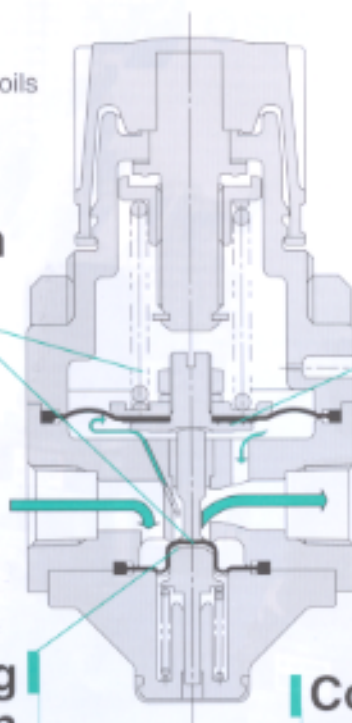
All metal parts in contact with fluid use stainless steel SUS316

Oil free

Parts assembled without any use of oils

2 types of diaphragm material available

Depending upon the application, PTFE (Grade A) or fluororubber (Grade B) can be selected for the diaphragm material

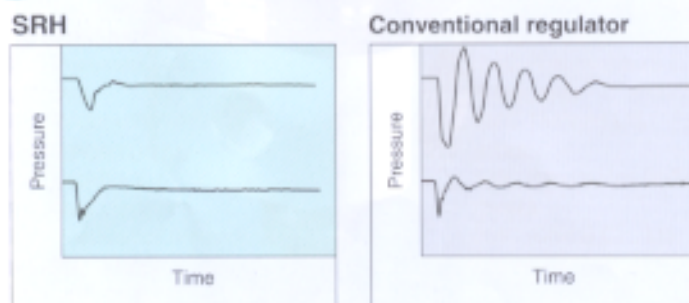


Designed to minimize residual fluid

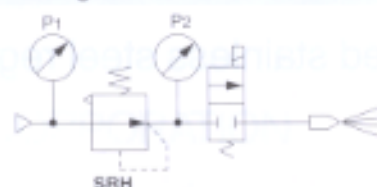
- Design includes an intake/exhaust port in the diaphragm compartment which facilitates flow
- Valve springs are partitioned by the diaphragm

Pulsation suppressing design

Step response comparison



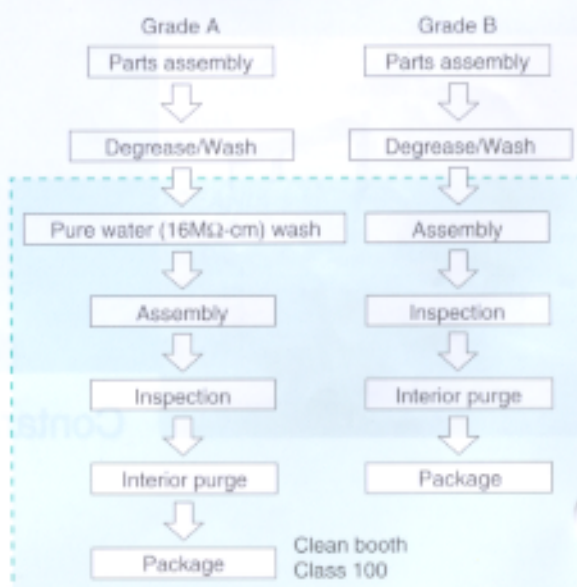
Circuit diagram



Consistent clean room production

Washed, assembled and inspected in a Class 100 environment, and sealed in double bags

Manufacturing process



Clean Regulator

Series *SRH*

How to Order



SRH 3 0 0 0 - 02 - R

Body size

3	1/4
4	3/8

Washing grade

0	Grade A
1	Grade B

Set pressure

0	0.01 to 0.2MPa (0.1 to 2.0kgf/cm ²)
1	0.05 to 0.7MPa (0.5 to 7.1kgf/cm ²)

Relief mechanism

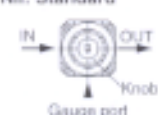
0	Non-relief
1	Relief

Port size

Symbol	Piping port size	SRH3000	SRH4000
01	Rc1/8	•	—
02	Rc1/4	•	•
03	Rc3/8	—	•
04	Rc1/2	—	•
A2	With metal gasket seal fitting	9/16-18UNF	—
A3	With metal gasket seal fitting	—	7/8-14UNF

Gauge port orientation

Nil: Standard



R: R Specification



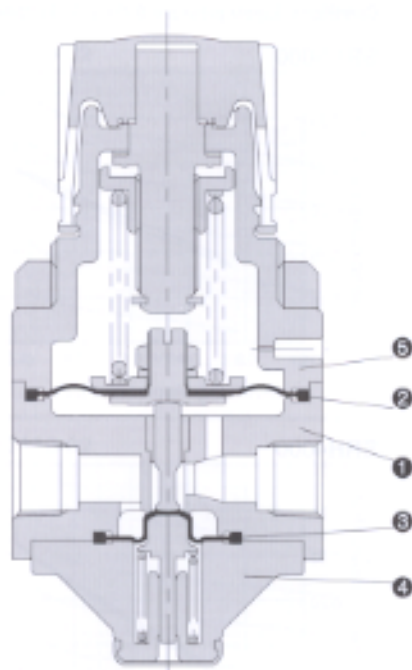
*There is only one gauge port.

Note) The pressure gauge is optional. Refer to option specifications on page 6.

Specifications

Model		SRH3□□0	SRH4□□0	SRH3□□1	SRH4□□1
Relief mechanism		Non-relief		Relief	
Port size		Rc(PT)1/8, 1/4 9/16-18UNF	Rc(PT)1/4, 3/8, 1/2 7/8-14UNF	Rc(PT)1/8, 1/4	Rc(PT)1/4, 3/8, 1/2
Fluid	Grade A	Clean air, N ₂ , Ar, CO ₂ , Pure water		Clean air, N ₂	
	Grade B	Air, N ₂ , Ar, CO ₂ , Water		Air, N ₂	
Proof pressure		1.5MPa (15.3kgf/cm ²)			
Max. operating pressure		1MPa (10.2kgf/cm ²)			
Set pressure	Low pressure type	0.01 to 0.2MPa (0.1 to 2kgf/cm ²)			
	High pressure type	0.05 to 0.7MPa (0.5 to 7.1kgf/cm ²)			
Ambient & fluid temperatures		0 to 60°C (With no condensation)			
Fluid-contact material (metal)		Stainless steel SUS316 (Body is SUS316L)			
Diaphragm material	Grade A	PTFE			
	Grade B	Fluororubber			
Weight		360g	730g	360g	730g

Construction



Parts list

No.	Description	Material	
		Grade A	Grade B
①	Body	Stainless steel SUS316L	
②	Diaphragm	PTFE	Fluororubber
③	Diaphragm	PTFE	Fluororubber
④	Valve guide	PPS	
⑤	Bonnet	PPS	