

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

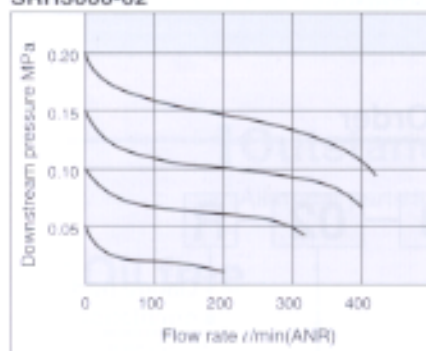
Series SRH

Flow Rate Characteristics

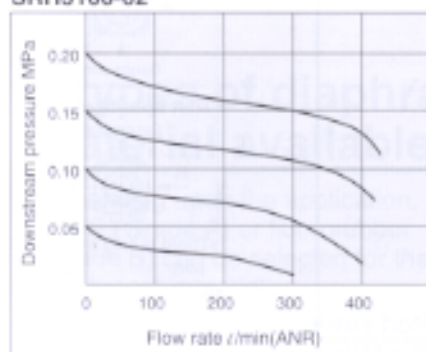
Fluid: Air

Conditions/Supply pressure: 0.5MPa (5.1kgf/cm²)

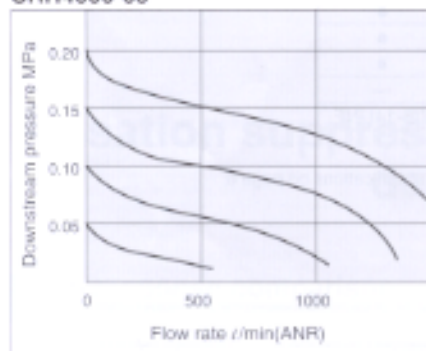
SRH3000-02



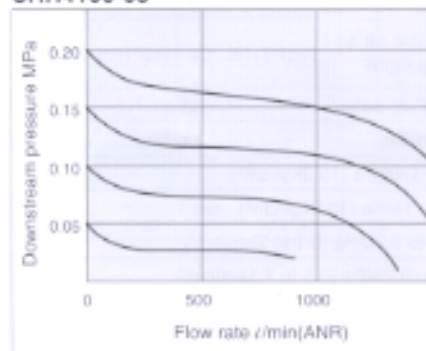
SRH3100-02



SRH4000-03

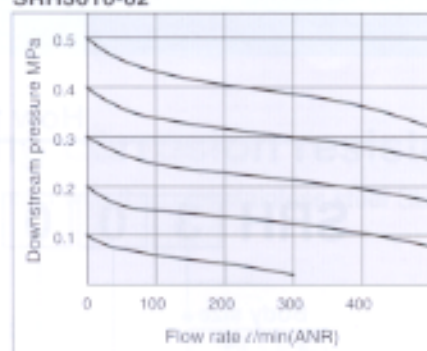


SRH4100-03

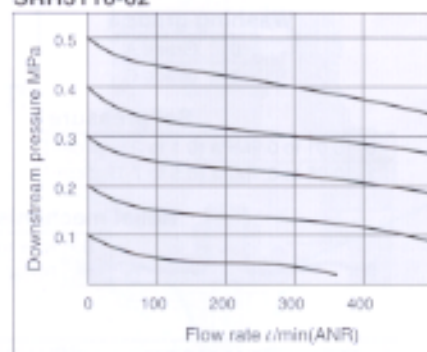


Conditions/Supply pressure: 0.7MPa (7.1kgf/cm²)

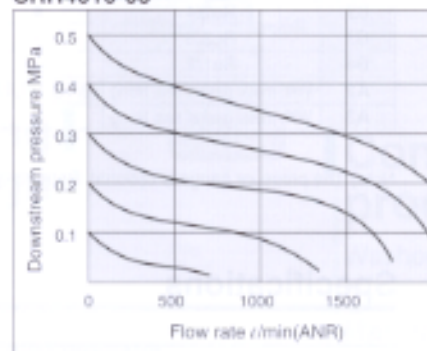
SRH3010-02



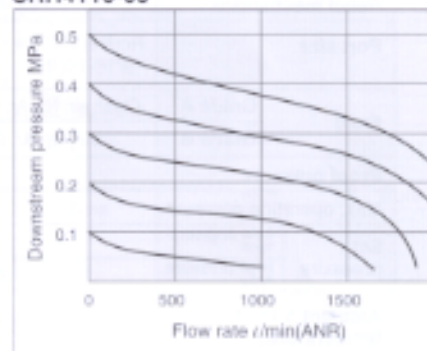
SRH3110-02



SRH4010-03



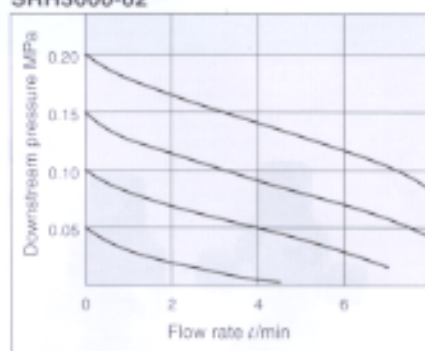
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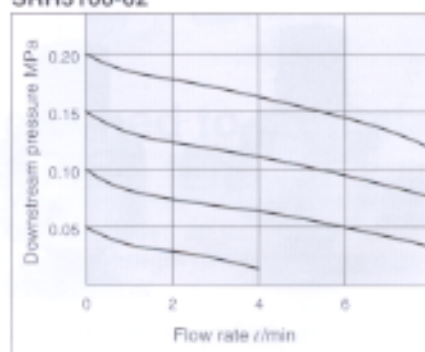
Fluid: Water

Conditions/Supply pressure: 0.5MPa (5.1kgf/cm²)

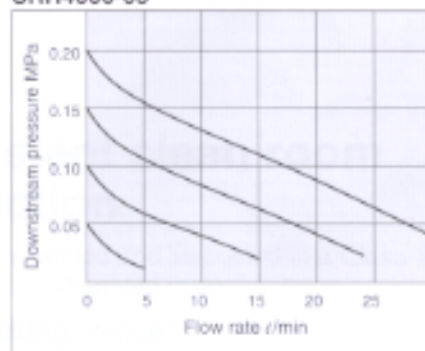
SRH3000-02



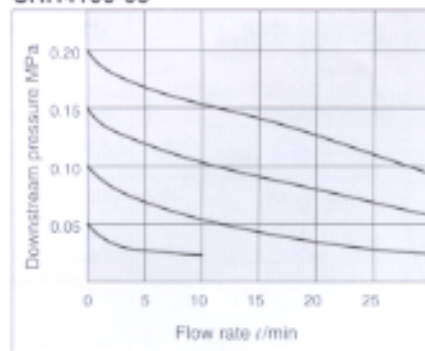
SRH3100-02



SRH4000-03



SRH4100-03

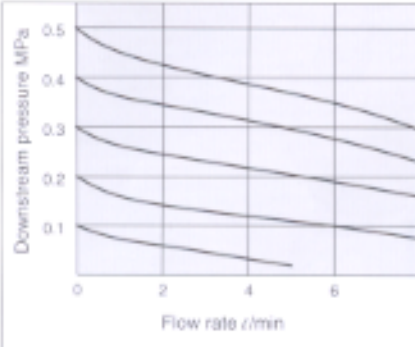


Pressure Characteristics

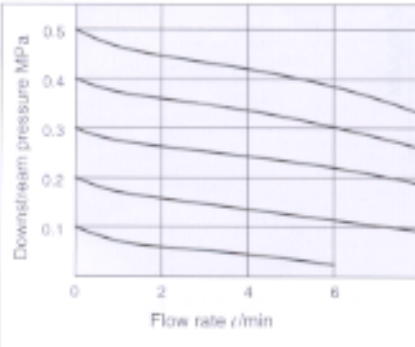
Fluid: Water/Air

Conditions/Supply pressure: 0.7MPa (7.1kgf/cm²)

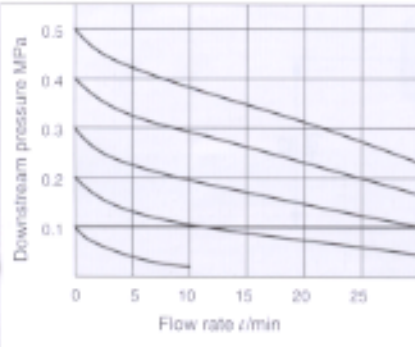
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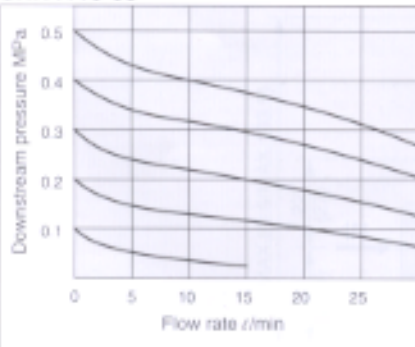
SRH3110-02



SRH4010-03

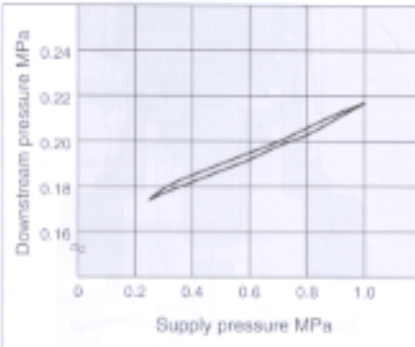


SRH4110-03

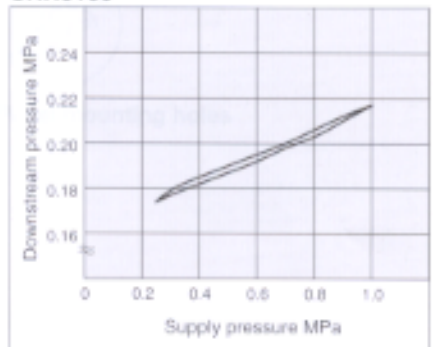


Conditions/Supply pressure: 0.7MPa (7.1kgf/cm²), Downstream pressure: 0.2MPa (2.0kgf/cm²), Flow rate 2 l/min

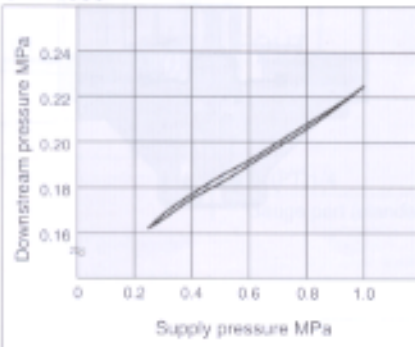
SRH3000



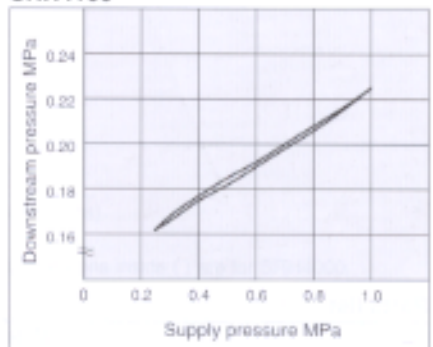
SRH3100



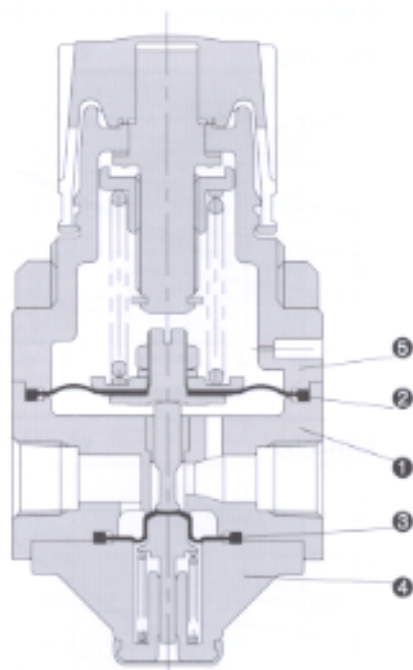
SRH4000



SRH4100



Construction

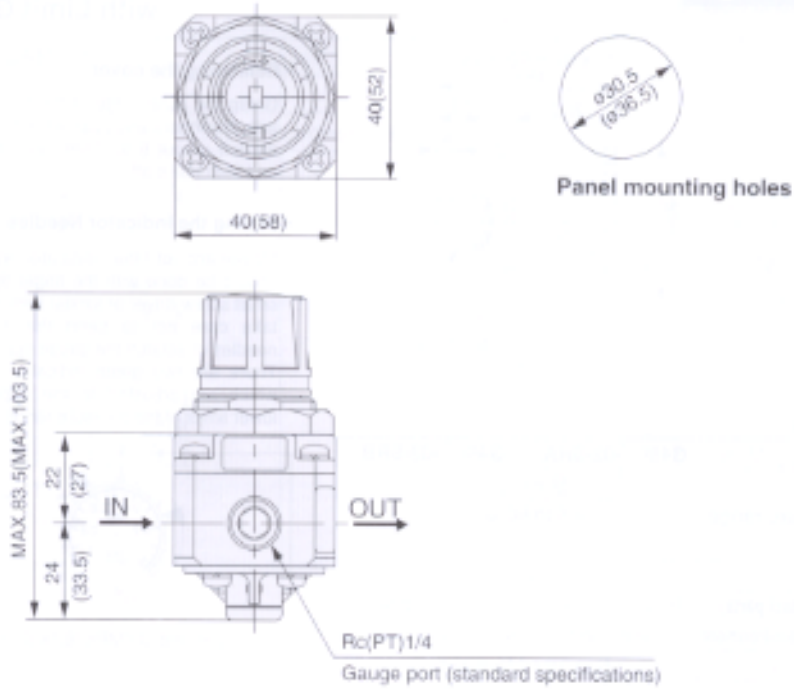


Parts list

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	

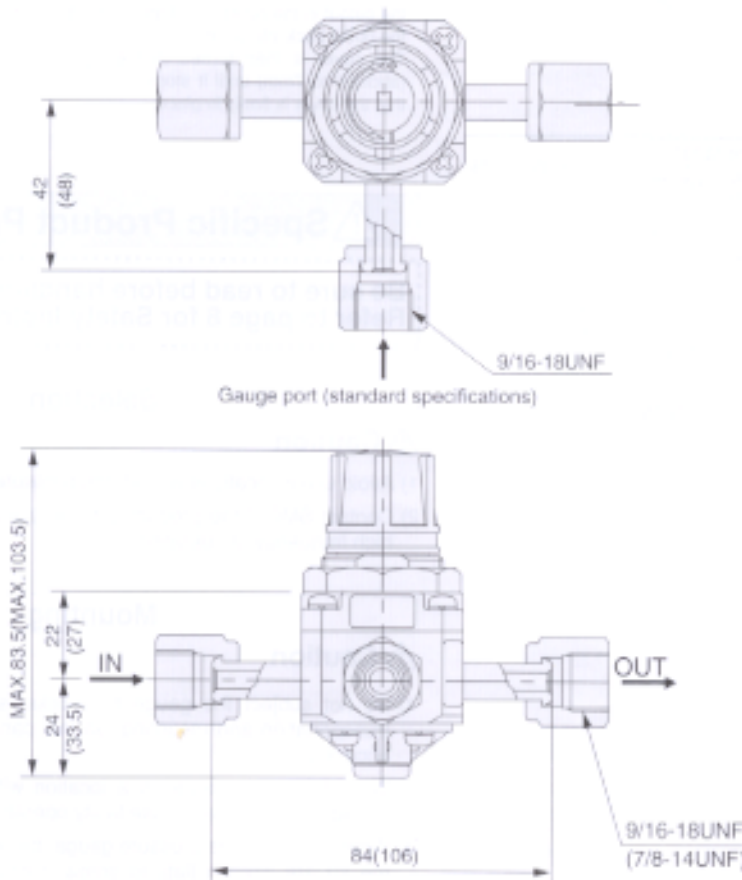
Dimensions

Rc(PT) thread type



Dimensions inside () are for SRH4000.

Metal gasket seal fitting type

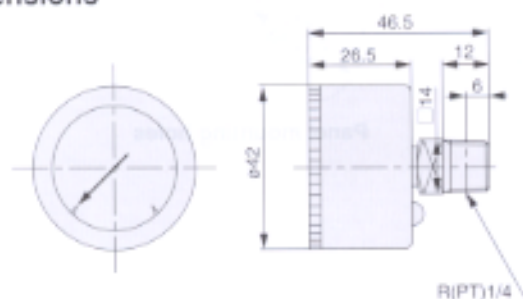


Dimensions inside () are for SRH4000.

Options

Pressure Gauge

Dimensions



Specifications

Item	Model	G46-02-SRA	G46-02-SRB
Port size		R(PT)1/4	
Operating temperature range		5 to 60°C	
Accuracy		±3% F.S.	
Scale range		270°	
Parts washing (fluid-contact parts)		Precision wash	General degrease
Assembly & adjustment environment		Clean room	General production line
Oil free / Water free		Non-lube / Non-wet	
Materials	Fluid-contact parts	Stainless steel SUS316	
	Case	Stainless steel SUS304 (Black melamine coating)	
	Clear cover	Polycarbonate	
	Internal parts	Brass	
Weight		80g	

Models

Model	Pressure range		Indicator units
	MPa	kgf/cm ²	
G46-2-02-SRA	0 to 0.2	0 to 2	MPa kgf/cm ² Combined
G46-2-02-SRB			
G46-4-02-SRA	0 to 0.4	0 to 4	
G46-4-02-SRB			
G46-7-02-SRA	0 to 0.7	0 to 7	
G46-7-02-SRB			
G46-10-02-SRA	0 to 1.0	0 to 10	
G46-10-02-SRB			

Handling Instructions for Pressure Gauge with Limit Gauge Indicators

• Removing the cover

Grasp the outer edge of the front cover with the fingers and push while turning to the left (about 6 to 7mm) until it stops, and then pull it off.



• Setting the Indicator Needles

Movement of the indicator needles should be done with the finger tips. If a small screw driver or similar item is used, take care not to bend the indicator needles or scratch the gauge dial. There are two green indicator needles which are adjusted to the upper and lower limits of the pressure range.



• Installing the cover

After setting the indicator needles, the cover is replaced to its original position. This is accomplished by aligning the notch at the top of the black case with the cutout in the cover, and then pushing the cover back into position. The cover is then turned to the right (about 6 to 7mm) until it stops. Confirm that the cover is firmly in place.



⚠ Specific Product Precautions

Be sure to read before handling.
Refer to page 8 for Safety Instructions.

Selection

⚠ Caution

- 1) Avoid use in locations with strong pressure pulsation or vibration.
- 2) Contact SMC if the product is to be used in an application with a high frequency of operation.

Mounting

⚠ Caution

- 1) Do not subject the gauge to shocks, such as dropping during transportation and mounting, as this can cause loss of indication accuracy.
- 2) Do not use this gauge in a location with high temperature and humidity, as this may cause faulty operation.
- 3) When mounting the pressure gauge, be certain to use a wrench on the square wrench flats to screw it into place. If the wrench is applied on any other part, air leakage or other damage may occur.

Brackets

	For SRH3000	For SRH4000
Model	B21-1-T1	1350112-T1
Material	Rolled sheet steel (Electroless nickel plated)	
Dimensions	