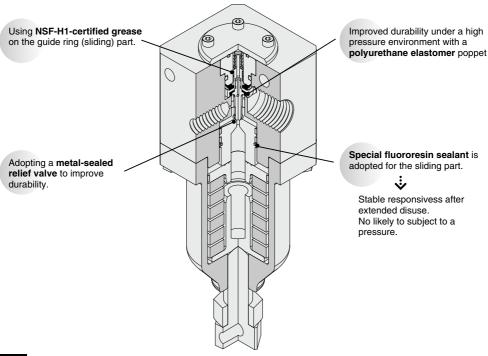
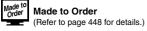
Direct Operated Regulator for 6.0 MPa (Relieving Type)

VCHR Series

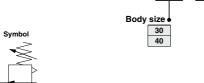






How to Order

VCHR 30 - 06 G



Thread type
(Conforming to ISO1179-1 on the pneumatic/hydraulic G thread)

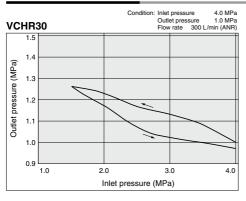
Port size

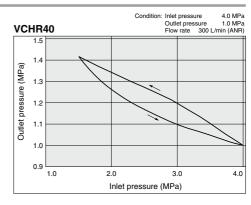
Symbol	Port size	VCHR30	VCHR40
06	3/4	•	
10	1	•	•
14	1•1/2		•

Specifications

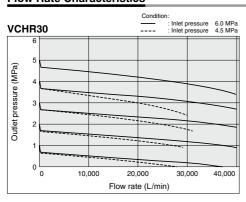
Model	VCHR30	VCHR40	
Valve construction	Piston type		
Valve material	Polyurethane elastomer		
Relief mechanism	Relieving type		
Port size	G3/4, G1 G1, G1•1/2		
Thread type	Conforming to ISO1179-1 on the pneumatic/hydraulic G thread		
Fluid	Air		
Max. operating pressure	6.0 MPa		
Set pressure range	0.5 to 5.0 MPa		
Fluid temperature	−5 to 60°C		
Ambient temperature	−5 to 60°C		
Weight	4.4 kg 6.2 kg		

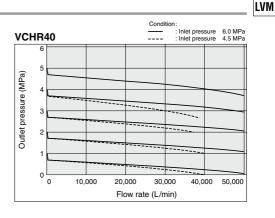
Pressure Characteristics





Flow Rate Characteristics





VCH□

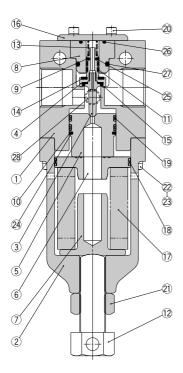
VDW

SX10

VQ

VCHR Series

Construction

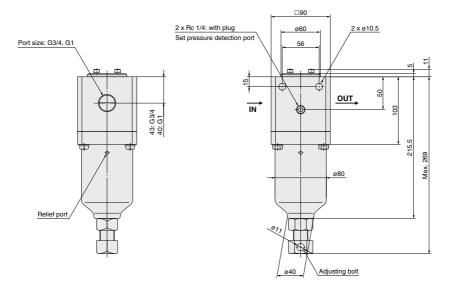


Component Parts

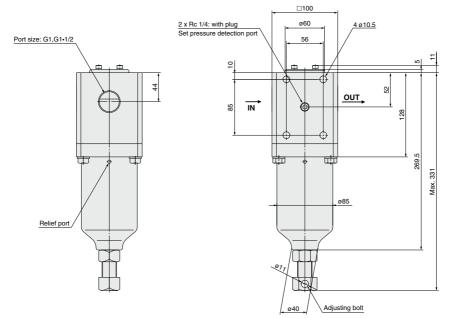
No.	Description	Material
1	Body	Aluminum + Hard anodized
2	Bonnet	Aluminum + Hard anodized
3	Valve	Stainless steel
4	Valve spool	Stainless steel
5	Piston	Steel + Electroless nickel plated
6	Spring guide	Steel + Electroless nickel plated
7	Spring seat	Steel + Electroless nickel plated
8	Spool guide	Aluminum + Hard anodized
9	Seal A	Resin
10	Seal B	Resin
11	Guide ring	Resin
12	Adjusting bolt	Stainless steel
13	Return spring	Stainless steel
14	Cushion	Polyurethane elastomer
15	Poppet	Polyurethane elastomer
16	Plate	Steel + Electroless nickel plated
17	Spring	Stainless steel
18	Guide ring	Resin
19	Guide ring	Resin
20	Hexagon socket head cap screw	Carbon steel
21	Hexagon nut	Carbon steel
22	Hexagon bolt	Carbon steel
23	Spring washer	Carbon steel
24	O-ring	NBR
25	O-ring	NBR
26	O-ring	NBR
27	O-ring	NBR
28	Hexagon socket head plug	Carbon steel
	·	

Dimensions

VCHR30



VCHR40



447

VCH□

vDW

SX10

VQ

LVM

VCHR Series **Made to Order Specifications:**





1 6.0 MPa piloted regulator (Air operated type)

Remote control is possible with electro-pneumatic regulator ITV.

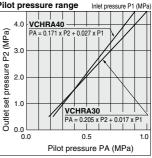


			PUIT SIZE
Symbol	Port size	VCHRA30	VCHRA40
06	3/4	•	
10	1	•	•
14	1•1/2		•



Specifications				
Model	VCHRA30	VCHRA40		
Valve construction	Piston type Polyurethane elastomer Relieving type			
Valve material				
Relief mechanism				
Port size				
Port size Thread standard	Conforming to ISO1179- on the pneumatic/hydraul G thread			
Fluid	Polyurethane elastome Relieving type G3/4, G1 G1, G1-1/ Conforming to ISO1179- on the pneumatic/hydraul G thread Air 6.0 MPa Refer to the graph. 0.5 to 4.5 MPa -5 to 60°C	ir		
Max. operating pressure		MPa		
Pilot pressure range		he graph.		
Set pressure range	0.5 to 4.5 MPa			
Fluid temperature				
Ambient temperature	−5 to 60°C			
Weight	2.9 kg 4.1 kg			

Pilot pressure range



Note) Outlet pressure may fluctuate under certain conditions.



VCHR Series Specific Product Precautions

Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions and Best Pneumatics No. 6 for Precautions on every series.

Adjustment

⚠ Caution

 When adjusting the outlet side pressure, moment is applied on the adjusting bolt. Support it separately so that moment is not applied to the external pipings.

Reference for Handle Moment Unit: Net					
Set pressure	1 MPa	2 MPa	3 MPa	4 MPa	5 MPa
Torque	3	6	9	12	15

2. When adjusting the outlet side pressure, the adjusting bolt (32 mm width across flats) can be fixed with a wrench. A screwdriver of approximately 20 to 30 cm can also be used for easy adjustments, using the (ø11) hole on the width across flats.

Piping

 When tightening a screw on the piping material, use the recommended torque, holding the female side.

Insufficient torque will cause looseness or inferior sealing. However, overtightening will cause damage to the thread. Also, tightening without holding the female side will put excessive direct stress on brackets, etc., resulting in damage, etc.

Recommended Tightening Torque Unit: N				
Connecting thread	3/4	1	1•1/2	
Torque	28 to 30	36 to 38	48 to 50	

Disassembly

 This product cannot be disassembled since it is made of precision components with a specific tolerance. VCH■ VDW

SX10

VQ

LVM