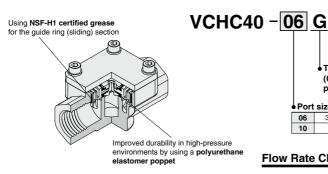
## 5.0 MPa Check Valve VCHC40 Series

#### How to Order



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





#### **Specifications**

Model		VCHC40						
Operating pressure		0.05 to 5.0 MPa						
Cracking pressure		0.05 MPa						
Orifice diameter		ø16						
stics	C value (Effective area)	28 dm <sup>3</sup> /(s·bar) (140 mm <sup>2</sup> )						
Flow characteristics	b	0.15						
chara	Cv	7.4						
Fluid		Air						
Fluid temperature		5 to 80°C						
Ambient temperature		5 to 80°C						
Body material		Brass						
Seal material		Polyurethane elastomer						
Port size		G3/4, 1 (Conforming to ISO1179-1 on the pneumatic/hydraulic G thread)						
Mounting orientation		Unrestricted						
Weight		1.02 kg						

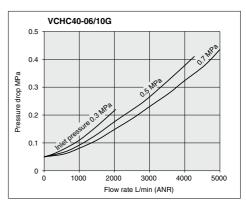
## Flow Rate Characteristics

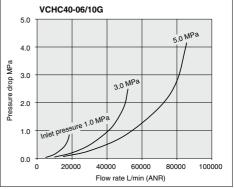
3/4

Port size 06

10

Thread type



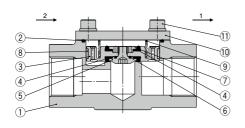


Note) The flow rate characteristics are representative values.



## VCHC40 Series

#### Construction

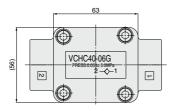


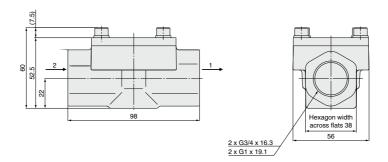
#### **Component Parts**

No.	Description	Material						
1	Body	Brass						
2	O-ring	NBR						
3	Piston	Aluminum + Hard anodized						
4	Poppet	Polyurethane elastomer						
5	Set screw	Stainless steel						
6	O-ring	NBR						
7	Nut	Stainless steel						
8	Guide ring	Resin						
9	Spring	Stainless steel						
10	Plate	Steel + Electroless nickel plated						
11	Hexagon socket head cap screw (with SW)	Carbon steel						

#### **Dimensions**

#### VCHC40







# VCHC40 Series Specific Product Precautions

Be sure to read this before handling the products. Refer to page 11 for safety instructions.

#### Selection

## **⚠** Warning

#### 1. Fluid

Corrosive gas

Do not use corrosive gas because it may cause corrosive stress cracks and other problems.

The minimum operating pressure is the pressure when the valve begins to open, and not the pressure when the valve is fully open.

#### **Piping**

### 

#### 1. Winding of sealant tape

Pipe tape is not necessary since this product uses a pneumatic and hydraulic purpose G thread which conforms to ISO 1179-1. When an R (taper) thread is used, leave 1 to 2 threads at the tip exposed before winding the piping thread around it 4 to 5 times.



Connecting a R thread

#### Always tighten threads with the proper tightening torque.

When attaching fittings to valves, tighten with the proper tightening torque shown below.

#### **Tightening Torque for Piping**

Connection threads	Proper tightening torque N · m
G, Rc 3/4	28 to 30
G, Rc 1	36 to 38

#### **Operating Environment**

### **⚠Warning**

- 1. Do not use in an explosive atmosphere.
- In locations where there is contact with water, oil or spatter from soldering, etc., implement suitable protective measures.

#### Maintenance

### **⚠** Caution

#### 1. Storage

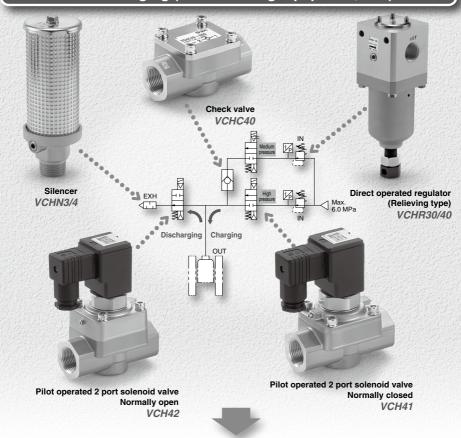
In the case of long term storage after use with water, etc., first thoroughly remove all moisture to prevent rust and deterioration of rubber materials.



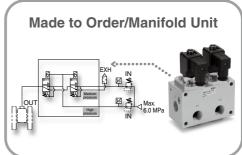
## 5.0 MPa

## **Pneumatic**

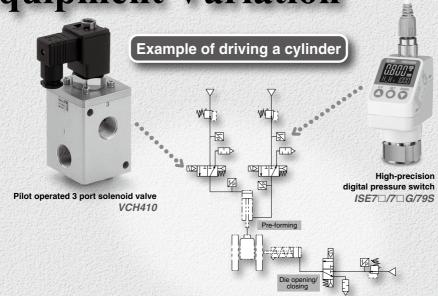
Applications included air-blowing, charging fluid into a vessel, or discharging (Blow-molding equipment, etc.)







**Equipment Variation** 



		F .	Maximum operating			Port size						
	Description		pressure (MPa)		1/4	1/2	3/4	1	11/4	11/2	Page	
	Pilot operated 2 port solenoid		5.0	VCH41(N.C.)			•	•			Web Catalog	
	valve	5.0	VCH42(N.O.)			•	•			Web Catalog		
	Check valve	Service life: 10 million cycles Adopting a polyurethane elastomer poppet in a valve seat. Improved durability under a high pressure environment.	5.0	VCHC40			•	•			Web Catalog	
3	Pilot operated 3 port solenoid valve		5.0	VCH410		•	•	•			Web Catalog	
	Direct operated regulator				Inlet pressure 6.0	VCHR30			•	•		
	(Relieving type)	Set pressure 0.5 to 5.0	VCHR40				•		•	web Catalog		
N. C.		Noise reduction 35 dB(A)	Noise reduction 35 dB(A)	5.0	VCHN3			•	•			
	Silencer (At supply pressure 4.0 MPa) Clogging-reduction with double-layer construction		VCHN4				•	•	•	Web Catalog		
Related Equip	nent											
			5.0	105577								

Related Equipm	nent							
	High-precision digital pressure switch	3-screen display Visualization of settings	5.0 10 16 50	ISE7□/ 7□G/ 79S	•			Web Catalog

Made to Order

1 6.0 MPa pilot operated regulator (Air operated type)

- Web Catalog

2 22.0 MPa 2 port air operated valve



····· Web Catalog