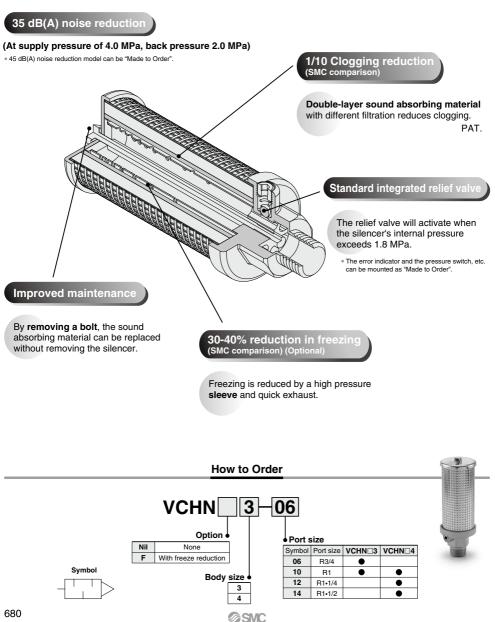
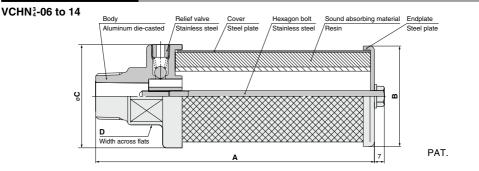
5.0 MPa Silencer Series VCHN

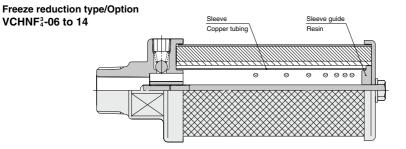


Specifications

Model	VCHN3 VCHNF3 VCHN4 VCHN					VCHNF4				
Fluid	Air, Insert gas									
Max. operating pressure (MPa)	5.0 (Solenoid valve inlet pressure)									
Relief valve unlocking pressure (MPa)	1.8									
Port size	R3/4	R1	R3/4	R1	R1	R1•1/4	R1•1/2	R1	R1•1/4	R1•1/2
Effective area (mm ²)	200	280	160	180	280	370	370	180	320	320
Sound absorbing material effective area (Single) (mm ²)) 420 500									
Fluid temperature (°C)	5 to 80									
Ambient temperature (°C)	5 to 80									
Noise reduction dB(A)	35 (Supply pressure 4.0 MPa, Back pressure 2.0 MPa)									

Construction/Dimensions





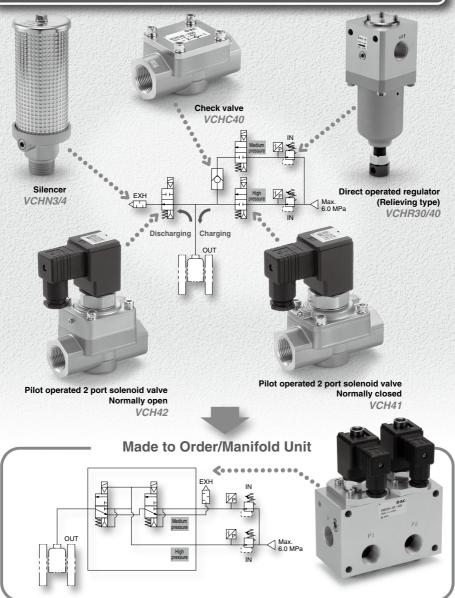
AN
VCHN
AMC
AMV
AMP

VCHN3-06 VCHNF3-06 VCHN3-10	t size (R) 3/4 3/4	A 200 200	B ø72	C ø74	D 41	Weight (g) 590
VCHNF3-06 VCHN3-10	G , 1			ø74	41	590
VCHN3-10	3/4	200	70			000
	1		ø72	ø74	41	710
		200	ø72	ø74	41	605
VCHNF3-10	1	200	ø72	ø74	41	725
VCHN4-10	1	230	ø72	ø74	41	665
VCHNF4-10	1	230	ø72	ø74	41	810
VCHN4-12	1•1/4	240	ø72	ø74	54	765
VCHNF4-12	1•1/4	240	ø72	ø74	54	910
VCHN4-14	1•1/2	240	ø72	ø74	54	790
VCHNF4-14	1•1/2	240	ø72	ø74	54	935

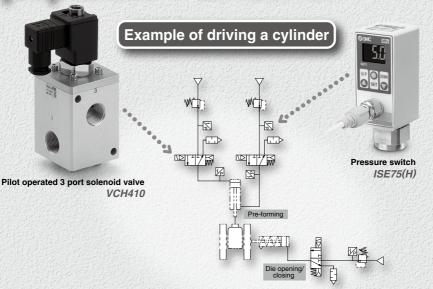
5.0 MPa

Pneumatic

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



Equipment Variation



	Description	Fratures	Maximum operating		Port size					Deste							
	Description	Features	pressure (MPa)	Series	1/4	1/2	3/4	1	11/4	1/2	Page						
. 1	Pilot operated 2 port solenoid		5.0	VCH41(N.C.)			•	•			Best Pneumatics						
	valve		5.0	VCH42(N.O.)			•	•			No.7						
	Check valve	Service life: 10 million cycles Adopting a polyurethane	5.0	VCHC40			•	•			Best Pneumatics No.7						
	Pilot operated 3 port solenoid valve	elastomer poppet in a valve seat. Improved durability under a high pressure environment.	5.0	VCH410		•	•	•			Best Pneumatics No.7	AN					
							-	-		_		VCHN					
	Direct operated		Inlet pressure 6.0	VCHR30			•	•			Best Pneumatics						
U.	regulator (Relieving type)		Set pressure 0.5 to 5.0	VCHR40				•		•	No.5	AMC					
-		Notes and other						-		_		AMV					
No. of the second se		Noise reduction 35 dB(A)	5.0	VCHN3			\bullet	٠				_					
	Silencer	(At supply pressure 4.0 MPa, back pressure 2.0 MPa)	Relief valve release								P.680	AMP					
	Clogging-reduction w	Clogging-reduction with double-layer construction	\ pressure: 1.8 MPa /	VCHN4				•		•							

Related Equipment

Pressure switch 2-color display Metal body (Aluminum die-cast) 10.0 15.0 ISE75(H) • P.813 Made to Order 1 6.0 MPa pilot operated regulator (Air operated type)										
1 6.0 MPa pilot operated regulator (Air operated type) —— Usest Pneumatics No.5	Pressure switch	Metal body		ISE75(H)	•					P.813
2 22.0 MPa 2 port air operated valve Best Pneumatics No.7		-	operated type) —		····· E	Best Pn	eumati	cs No	0.5	
	2 22.0 MPa 2 p	ort air operated valve —		···· Best Pneum	natics	No.7				



Series VCHN Specific Product Precautions

Be sure to read before handling.

Design

Warning

1. The exhaust port can clog due to a clogged or frozen silencer.

Consider design safety to avoid malfunctions of the entire system. Also, under conditions conducive to freezing, use a freeze-reduction model. (VCHNF series)

▲ Caution

1. A silencer reduces compressed air exhaust noise from the pneumatic equipment.

Noise other than that generated by the exhaust assembly (noise generated inside piping, due to equipment vibration, solenoid valve switching, etc.) cannot be reduced. As for noise generated by sources other than the exhaust, locate the cause and take measures.

2. Silencer inlet side pressure shows the solenoid valve supply pressure (P1). (See below.)



 Noise reduction may vary, depending on the pneumatic circuit or pressure, etc. exhausted from solenoid valves.

Selection

A Caution

1. Select a silencer with a larger effective area (including the synthetic effective area) than the solenoid valve.

Mounting

A Caution

1. Tighten the silencer, using an appropriate wrench on the width across flats, within the range of the recommended tightening torque as shown below.

Do not use a pipe wrench. Otherwise, the silencer will be damaged.

Recommended	Tightenin	g Torque		(Unit: N•m)
Connecting thread	3/4	1	1•1/4	1•1/2
Torque	28 to 30	36 to 38	40 to 42	48 to 50

- 2. Do not apply a lateral load on the main body during or after mounting.
- 3. When the silencer has loosened due to vibrations from the mounted equipment, mount the silencer after applying an anti-loosening agent to the thread.

Maintenance

▲ Caution

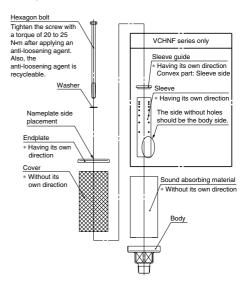
1. When exhaust speed begins to slow from clogging and system functionality begins to degrade, replace with a new silencer or sound-absorbant material.

Also, be sure to confirm the actuator's operation status once per day.

How to Replace the Sound Absorbing Material

▲ Caution

1. When replacing the sound absorbing material, please follow the instructions below.



Replacement Parts

Sound Absorbing Material Part No.

ÌSMC

Part no.	Description	Applicable model
VCHN3-EL	Sound absorbing material	For VCHN(F)3
VCHN4-EL	Sound absorbing material	For VCHN(F)4