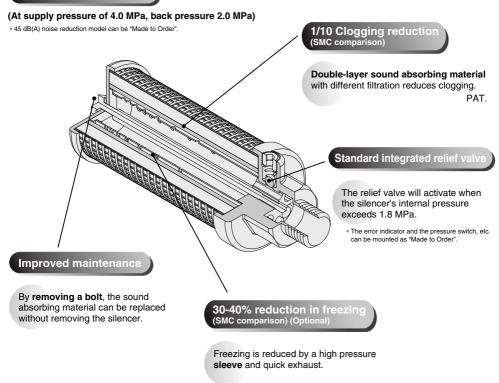
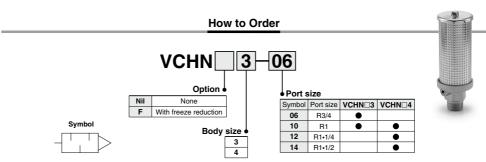
5.0 MPa Silencer VCHN Series

35 dB(A) noise reduction



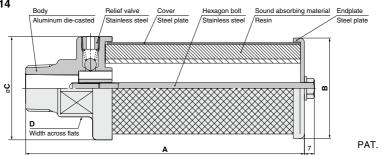


Specifications

Model	VCI	IN3	VCH	INF3		VCHN4			VCHNF4	
Fluid	Air									
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 (mm²)	200	280	160	180	280	370	370	180	320	320
Sound absorbing material effective area (Single) (mm²)	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





Freeze reduction type/Option
VCHNF3-06 to 14

Sleeve Copper tubing Resin

						(mm)
Model	Port size (R)	Α	В	С	D	Weight (g)
VCHN3-06	3/4	200	ø72	ø74	41	590
VCHNF3-06	3/4	200	ø72	ø74	41	710
VCHN3-10	1	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

VCH□

VDW

SX10 VQ

LVM



VCHN Series Specific Product Precautions

Be sure to read this before handling the products.

Design

\land Warning

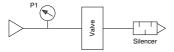
 The exhaust port can clog due to a clogged or frozen silencer.

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

 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.

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

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

Mounting

∧ Caution

 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		

- Do not apply a lateral load on the main body during or after mounting.
- 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

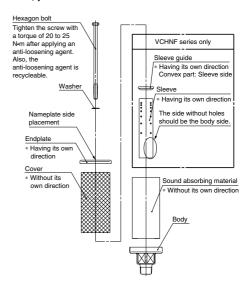
 When exhaust speed begins to slow from clogging and system functionality begins to degrade, replace with a new silencer or sound-absorbant material.

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

How to Replace the Sound Absorbing Material

⚠ Caution

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



Replacement Parts

Sound Absorbing Material Part No.

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

452

