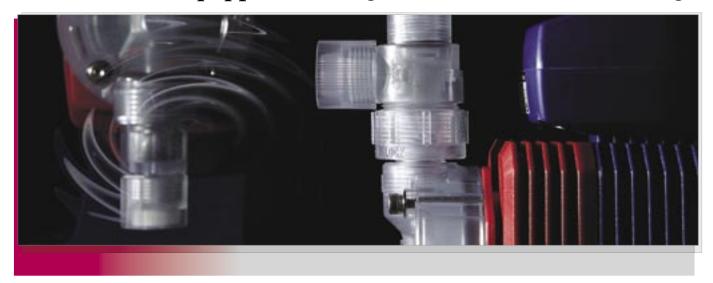




Electromagnetic metering pumps

The latest electromagnetic metering pump equipped with digital controller & multi-voltage



EHN Series is the latest electromagnet drive & diaphragm type metering pump. Pump head and driving mechanism employ those of experienced EH-R Series pumps while control unit is newly developed.



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EHN Series is the latest electromagnet drive & diaphragm type metering pump. Pump head and driving mechanism employ those of experienced EH-R Series pumps while control unit is newly developed. Multi-voltage from 100 to 240V and digitized EHN Series pump is easy to operate in a variety of chemical feeding application.









VC/VH type

FC type

SH type

Multi-voltage power source

Multi-voltage power source from AC100 to 240V for all models. You are now free from worrying about power voltage.

High resolution

Thank to digitized controller, stroke speed can be adjusted by 1 spm step from 1 to 360 spm. Combined with stroke length adjustment, you can do the fine adjustment from very small flow to maximum flow rate.



Stroke length adjusting dial



Control pane

Pump head variation

Wide variety of standard pump head (VC/VH), automatic air bleeding type (NAE) and high compression type (55 model).

Note: Refer to page 5 for details of NAE and 55.



Control unit

The highly-functional EHN-Y which is equipped with digital and analogue inputs are added to the standard production line as well as EHN-R.

Air vent valve

Small flow capacity models (EHN-11, 16 & 21) equip air vent valve. Air in the pump chamber can be easily released by turning knob.



Water/dust-proof

Each unit such as driving unit and control unit is sealed to make the pump IP66 equivalent water/dust-proof.

Note : Do not install pump outdoor.

Various combinations of the controller and the pump head meet a wide range of application requirement.

Basic type **EHN-R** series

The basic model of the EHN series. Key lock function prevents erroneous operation after controller programming. The mounted controller provides EXT and STOP functions. Multiply and dividing operations becomes newly available by EXT functions and allows you to delicate pump control.



Controller function

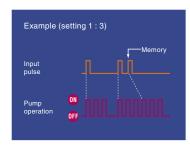
Manual operation

Pump run/stop and stroke rate setting (1 to 360 spm) can be done by keys. Stroke rate can be set either when pump is running or stopped.

EXT operation

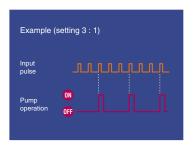
Multiply (1:n)

Pump makes multiply operation by external pulse signal. Pump makes "n" times shots against one pulse signal input. "n" can be set from 1 to 999. Pulses which came while operation are put in memory up to 255 pulses.



Dividing (n : 1)

Pump makes dividing operation by external pulse signal. Pump makes one shot against "n" times pulse input. "n" can be set from 1 to 999.

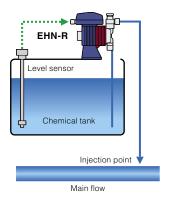


Note: If "n" is set at 1, pump makes synchronous operation. If pump is connected to optionally available EH controller, please use this function

STOP function

Pump stops by external contact signal. Pump operates when stop signal input is released. This function enables pump ON/OFF control. This is convenient function when used in combination with level sensor.

Note: It is possible to operate pump while STOP signal comes in (Change over with keys). In this case, when pump is operated in EXT mode, pump operates synchronous with EXT signal input while STOP signal is coming in.



Level sensor watches water level in tank, and stops pump when water level comes to lower limit.



Digital/Analogue correspondence **EHN-Y** type

Analogue input operation is also available as well as Manual and EXT (Multiply and dividing) operation. STOP function is also provided to control the pump via an external contact signal. DC 12V built-in sensor power is a standard feature.



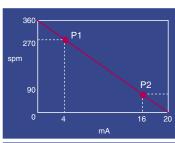
Controller function

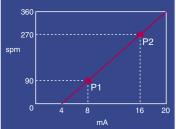
Manual operation

Pump run/stop and stroke rate setting (1 to 360 spm) can be done by keys. Stroke rate can be set either when pump is running or stopped.

Analogue input operation

Proportional control of spm by programming 2 points between 0-20mA.





EXT operation

Multiply (1 : n)

Pump makes multiply operation by external pulse signal. Pump makes "n" times shots against one pulse signal input. "n" can be set from 1 to 999. Pulses which came while operation are put in memory up to 255 pulses.

Dividing (n:1)

Pump makes dividing operation by external pulse signal. Pump makes one shot against "n" times pulse input. "n" can be set from 1 to 999.

Note: If "n" is set at 1, pump makes synchronous operation. If pump is connected to optionally available EH controller, please use this function.

STOP function

Pump stops by external contact signal. Pump operates when stop signal input is released. This function enables pump ON/OFF control. This is convenient function when used in combination with level sensor.

Note: It is possible to operate pump while STOP signal comes in (Change over with keys). In this case, when pump is operated in EXT mode, pump operates synchronous with EXT signal input while STOP signal is coming in.

The pump can be specialized for the need of a special chemical transfer.

The optimum for gaseous liquid feeding

Automatic air vent type **EHN-NAE**

This type equips automatic air vent mechanism. An air vent valve built-in pump chamber enables reliable air venting. Also equipped manual air vent valve enables easy pressure release in discharge piping. Gaseous liquid such as sodium hypochlorite or hydrogen peroxide can be injected without gas locking.



The optimum for sodium hypochlorite feeding

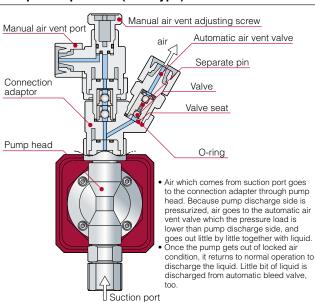
High compression head type

EHN-55

Increased compression ratio due to minimized dead volume in pump chamber. Suitable for injection of boiler chemicals such as hydrazine or so.



Principle of operation (NAE type)



Wet-end material

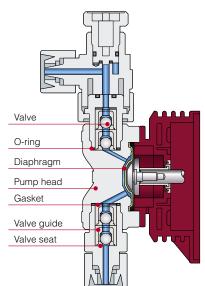
Trot ona matorial					
Material code	VC	VH			
Pump head	PVC				
Connection adaptor	PVC				
Separate pin	Titanium	Hastelloy C276			
Valve	Alumina ceramic	Hastelloy C276			
Valve seat	FKM	EPDM			
O-ring	FKM	EPDM			

Specification

Model		EHN-B11-NAE	EHN-B16-NAE	EHN-C21-NAE			
Max. discharge capacity	mL/min	30	55	110			
Discharge capacity per shot	mL/shot	0.04 - 0.08	0.08 - 0.15	0.12 - 0.31			
Max.discharge pressure	MPa	1.0	0	.7			
Stroke length adjustable range	%	50 - 100 40 - 100					
Stroke rate	spm		1 - 360				
Connection (Hose dia.)		Ø4 × Ø9					
Power voltage	AC100 - 240V 50/60Hz single phase						
Accessory		Check valve CA-1, PVC braided hose 3m					

Operating condition: Liquid temperature 0 - 40 °C. Ambient temperature 0 - 40 °C Note: Max. discharge capacity represents the figure when pumping clear water at ambient temperature at max. discharge pressure. Pump discharges more liquid than shown above if it runs at lower discharge pressure. If discharge pressure is 0.12MPa or lower, be sure to use check valve to avoid over-feeding.

Construction (55 type)



Wet-end material

Material code	VC
Pump head	PVC
Valve	Alumina ceramic
Valve seat	FKM
Valve guide	PVC
Gasket	PTFE
O-ring	FKM
Diaphragm	PTFE coated EPDM

Specification

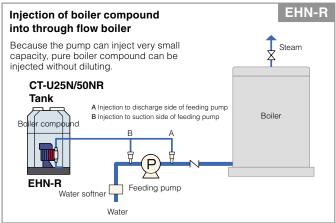
Model		EHN-B11VC-55	EHN-B21VC-55	
Max. discharge capacity	mL/min	38	100	
Discharge capacity per shot	mL	0.05 - 0.11	0.14 - 0.28	
Max.discharge pressure	MPa	1.0	0.4	
Stroke length adjustable range	%	50 - 100		
Stroke rate	spm	1 - 360		
Connection (Hose dia.)		Ø4 × Ø9		
Power voltage		AC100 - 240V 50/60Hz single phase		
Accessory		Check valve CA-1, PVC braided hose 3m		

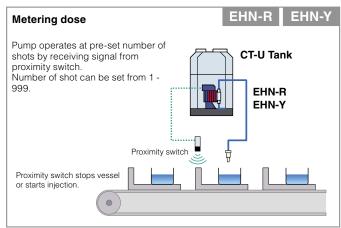
Operating condition: Liquid temperature 0 - 40 °C. Ambient temperature 0 - 40 °C

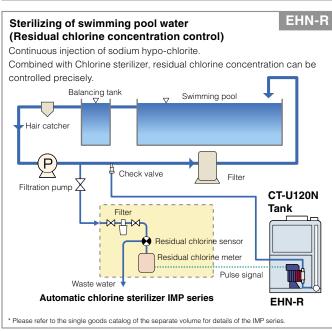
Note 1: Max. discharge capacity represents the figure when pumping clear water at ambient temperature at max. discharge pressure. Pump discharges more liquid than shown above if it runs at lower discharge pressure. If discharge pressure is 0.12MPa or lower, be sure to use check valve to avoid over-feeding.

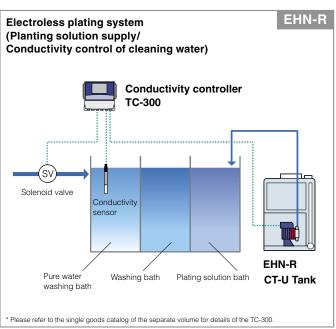


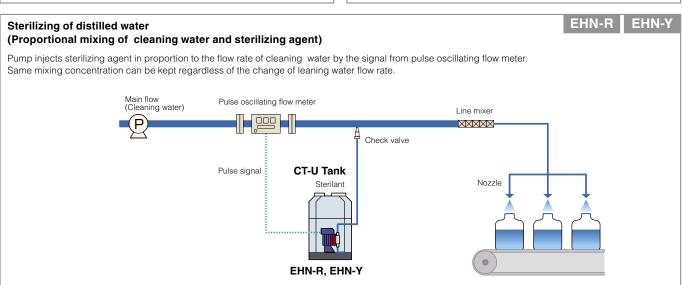
The EHN series meets the needs of various chemical feeding in water treatment fields.



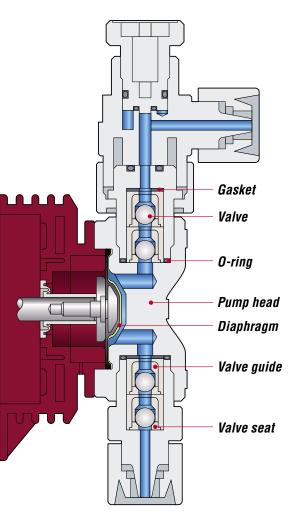








Technical data



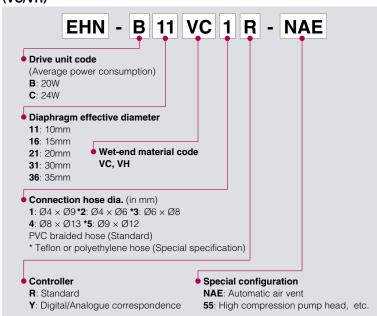
Construction and materials

Material symbol	VC	VH FC		SH				
Pump head	PVC	PVC	PVDF	SUS316				
Valve	Alumina ceramic	Hastelloy C276	Alumina ceramic	Hastelloy C276				
Valve seat	FKM	EPDM	PCTFE	SUS316				
Valve guide	PVC	PVC	PVDF	SUS316				
Gasket		PT	FE					
O-ring	FKM	EPDM	_	_				
Diaphragm	PTFE+EPDM (EPDM of diaphragm is not wet-end.)							

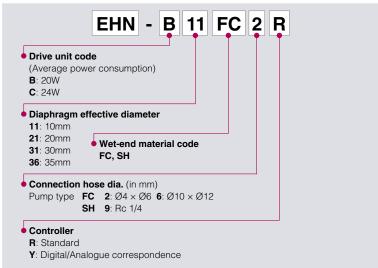
PVC: Transparent polyvinyl chloride PCTFE: Polychlo FKM: Fluor rubber PTFE: Poytetraf EPDM: Ethylene-propylene-diene-methylene PVDF: Poly vinyl

PCTFE: Polychlorotrifluoroethylene PTFE: Poytetrafluro ethylene PVDF: Poly vinylidene fluoride

Pump identification (VC/VH)



(FC/SH)





Specifications of pump (VC/VH)

Model		EHN-B11	EHN-B16	EHN-B21	EHN-B31	EHN-C16	EHN-C21	EHN-C31	EHN-C36
Max. discharge capacity	mL/min	38	65	100	230	80	130	270	450
	mL/shot	0.05 - 0.11	0.09 - 0.18	0.14 - 0.28	0.32 - 0.64	0.09 - 0.22	0.14 - 0.36	0.30 - 0.75	0.50 - 1.25
Max.discharge pressure	MPa	1.0	0.70	0.40	0.20	1.0	0.70	0.35	0.20
Stroke rate	spm				1 -	- 360			
Stroke length			50 - 100% (0).5 - 1.0mm)		40 - 100% (0.5 - 1.25mm)			
Connection (Hose dia.)	mm		Ø4 × Ø9		Ø8 × Ø13	Ø4 >	< Ø9	Ø8 ×	Ø13
Power voltage				AC	100 - 240V 50/	60Hz single ph	ase		
Air vent valve	Air vent valve O				×	C)	,	<
Accessory	Check valve	CA-1		CA-2-L	CA	ι-1	CA-2	CA-2-L	
В	raided hose			$\emptyset4 \times \emptyset9$ or $\emptyset8 \times \emptyset13$ made in PVC/3 m					

Note 1: The maximum discharge capacity of each model represents the figure when the pump is pumping clean water at maximum discharge pressure, rated voltage, ambient temperature, and 360 spm with stroke length 100%.

Note 2: 0.12MPa or more discharge pressure is needed to prevent over feeding (0.05MPa or more for the EHN-B31 and C36). If the discharge pressure is at or below the required MPa, install a check valve or back pressure valve.

Operating condition: Liquid temperature range is 0 - 60 °C(0 - 40 °C for VC/VH)

Ambient temperature range is 0 - 40 °C

(FC/SH)

Model		EHN-B11	EHN-B21	EHN-C21	EHN-C31	EHN-C36			
Max. discharge capacity	mL/min	38	100	130	270	410			
	mL/shot	0.05 - 0.11	0.14 - 0.28	0.14 - 0.36	0.30 - 0.75	0.46 - 1.14			
Max.discharge pressure	MPa	1.0	0.40	0.70	0.35	0.20			
Stroke rate	spm			1 - 360					
Stroke length		50 - 100% ((0.5 - 1.0mm)		40 - 100% (0.5 - 1.25mr	n)			
Connection	FC	Ø4 × Ø6 Ø10 × Ø12							
	SH	Rc 1/4							
Power voltage			AC10	0 - 240V 50/60Hz single	e phase				
Air vent valve		SH: O FC: ×							
Accessory		FC: BVC(Back pressure valve) SH: CS-1S(Check valve)							

Note 1: The maximum discharge capacity of each model represents the figure when the pump is pumping clean water at maximum discharge pressure, rated voltage, ambient temperature, and 360 spm with stroke length 100%.

Operating condition: Liquid temperature range is 0 - 60 °C (on condition that liquid quality is not changed by freezing, viscosity change, or slurry interfusion).

Specifications of controller

Model		R	Υ				
Operation	Mode	EXT (Pulse dividing or multiply)					
mode	Mode selection	EXT & START/STOP keys					
Control	Setting	Manual Stroke rate 1 - 360spm Multiply 1: n n=1 - 999 Dividing n: 1 n=1 - 999	Manual stroke rate 1 - 360spm Digital input operation Multiply 1: n n=1 - 999 Dividing n: 1 n=1 - 999 Analogue input operation Set point 1 Amperage: 0 - 20 mA Stroke rate: 0 - 360 spm Stroke rate: 0 - 360 spm Stroke rate: 0 - 360 spm				
	Setting method	3 operating keys	4 operating keys				
	Stop	No voltage contact (Make off/Make on can be selected by c	changing controller setting)				
Display		4-digit LCD					
Input	Pulse	No voltage contact, Open collector					
	Stop	No voltage contact, Open collector					
Output	Sensor power	-	DC 12V 20mA or less				
Power voltage	ge	AC100 - 240V 50/60Hz single phase					

Optional accessories

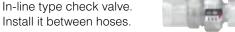
Check valve

Mount the check valve at the end of discharge hose for the prevention of over feeding, backflow, and siphon action. Note: CB type is an option.

CA type: Standard accessory



CB type: In-line type check valve.



CS type: Stainless type for high liquid temperature. General model and boiler model are available.



Madal	Conn	ection	Set	press.		Material		Applicable	Wet end							
Model	IN	OUT	N	1Pa	Body	Spring	O-ring	pump	material code							
CA-1VC-4	ø4×ø9						FKM		VC							
CA-1VE-4	Hose						EPDM	B11 · 16 · 21	VH							
CA-1VC-4x6	ø4×ø6			0.01			FKM	C16 · 21	VC							
CA-1VE-4x6	Hose		0.17	±0.04	B1 / G		EPDM		VH							
CA-2VC-8					PVC		FKM	C31	VC							
CA-2VE-8	ø8×ø13	R3/8,				Hastelloy	EPDM	031	VH							
CA-2VCL-8	Hose	R1/2	0.05	+0.04		C276	FKM	B31	VC							
CA-2VEL-8		Thread	0.05	-0.03			EPDM	C36	VH							
CA-1VCH-4	ø4×ø9						FKM	D44 40 04	VC							
CA-1VEH-4	Hose						0.34	±0.04	PVC		EPDM	B11 · 16 · 21 C16 · 21	VH			
CA-1VH-4	11036						EPDM	016.51	VH							
CB-1VC-4	ø4×ø9	ø4×ø9								FKM	B11 · 16 · 21	VC				
CB-1VE-4	Hose	Hose	0.17	0.17 +0.04			EPDM	C16 · 21	VH							
CB-2VC-8		ø8×ø13 Hose							ø8×ø13	0.17	1 10.04	PVC		FKM	C31	VC
CB-2VE-8	ø8×ø13									ø8×ø13			' *	Hastelloy	EPDM	031
CB-2VCL-8	Hose								0.05	+0.04		C276	FKM	B31	VC	
CB-2VEL-8			0.00	-0.03			EPDM	C36	VH							
CB-1VCH-4	ø4×ø9	ø4×ø9	0.34	+0.04	PVC		FKM	B11 · 16 · 21	VC							
CB-1VEH-4	Hose	Hose	0.54	±0.04	FVC		EPDM	C16 · 21	VH							
CS-1S	Rc1/4	Rc1/4	0.2	±0.03	SUS316	Hastelloy	_	B11 · 21 C21 · 31	SH							
CS-1SL	Thread	Thread	0.05	±0.03		C276		C36								
CS-1E	ø4×ø6	R3/8 Thread	0.12	+0.04	SUS304	Hastelloy	EPDM	B11 · 16 · 21	VH							
CS-1E-2	Hose	R1/2 Thread	0.12	10.04	303304	C276	EFDIN	C16 · 21	VΠ							

Backflow prevention valve

Mount the backflow prevention valve at the end of discharge hose for the prevention of backflow.



Model	Conne	ction	Mate	erial	Applicable	Wet end	
Wiodei	IN	OUT	Body	Rubber	pump	material code	
CV-1VC-1	ø4×ø9			FKM		VC	
CV-1VE-1	Hose			EPDM	B11 · 16 · 21	VH	
CV-1VC-2	ø4×ø6	R3/8, R1/2	PVC	FKM	C16·21	VC	
CV-1VE-2	Hose	Thread	FVC	EPDM		VH	
CV-2VC-4	ø8×ø13	1111000		FKM	B31	VC	
CV-2VE-4	/E-4 Hose			EPDM	C31 · 36	VH	

Back pressure valve

The back pressure valve enhances the dosing accuracy and prevents backflow. Set pressure is adjustable.

Set press.

MPa

0.2 ±0.02

0.1 ±0.02

0.2 ±0.02

Connection

IN

ø4×ø6

ø10×ø12

OUT

R3/8,



C31

C31

FKM FKM

EPDM EPDM

Note: Gasket (made in PTFE)

Accumulator

Model

BVC-1TV-4H

BVC-1TV-10H

BVC-1TV-10H

BVC-1PVL-8H

BVC-1PEL-8H

Mount the accumulator on discharge side hose to reduce vibration comes from pulsation.

ø8×ø13 R3/8, R1/2 D.2 ±0.02 PVC



VC

Model	Conne	ection	Capacity	Capacity Material		Applicable	Wet end	
wodei	IN	OUT	ml	Body	Vladar	O-ring	pump	material code
AQ-V-1	ø4×ø9	ø4×ø9			FKM	FKM		VC
AQ-E-1	Hose	Hose		DVO	EPDM	EPDM	B11 · 16 · 21 C16 · 21	VH
AQ-V-2	ø4×ø6	ø4×ø6			FKM	FKM		VC
AQ-E-2	Hose	Hose		00	PVC	EPDM	EPDM	
AQ-V-4	ø8×ø13	ø8×ø13			FKM	FKM	B31	VC
AQ-E-4	Hose	Hose			EPDM	EPDM	C31·36	VH

Hose flange

The hose flange is the adapter for connecting hose to flange. Hose flange with the check valve is also available.





Model	Connection		N	Material	Applicable	Wet end
Wodei	Hose	Flange	Body	Check valve model	pump	material code
15FCA-1VC	ø4×ø9			CA-1VC	B11 · 16 · 21	VC
15FCA-1VE	04×09			CA-1VE	C16·21	VH
15FCA-2VC	ø8×ø13	JIS10K15AFF		CA-2VC	C31	VC
15FCA-2VE	00 × 013			CA-2VE	031	VH
15F×4	ø4×ø9			_	B11 · 16 · 21	_
15FS×4	04X09	JIS10K15A		_	C16·21	_
15F×8	ø8×ø13	JIS10K15AFF	PVC	_	B31 C31·36	_
20FCA-1VC	ø4×ø9		FVC	CA-1VC	B11 · 16 · 21	VC
20FCA-1VE	04X09			CA-1VE	C16·21	VH
20FCA-2VC	ø8×ø13			CA-2VC	C31	VC
20FCA-2VE	00×013	JIS20K20AFF		CA-2VE	CST	VH
20Fx4	ø4×ø9	JISZUKZUAFF		_	B11 · 16 · 21 C16 · 21	_
20Fx8	ø8×ø13			_	B31 C31 · 36	_

Note: Please ask us for ø4×ø6, ø9×ø12 connection.



Hose joint

The hose joint offers a secure connection between hose and pipe.



Thread connection

Model	Conn	ection	Material	Applicable	Wet end		
	Hose	Thread	Body	pump	material code		
V4-3/8-1	40	3/8		B11 · 16 · 21			
V4-1/2-1	4-1/2-1 Ø4ר9	1/2	PVC	C16·21	VC		
V8-3/8-4	~0~10	3/8	FVC	B31	VH		
V8-1/2-4 Ø8ר13		1/2		C31 · 36			

VP plumbing connection

Model	Conn	ection	Material	Applicable	Wet end			
wodei	Hose	VP plumbing	Body	pump	material code			
V4-16-1	~4~0	VP16		B11 · 16 · 21				
V4-20-1	ø4×ø9	VP20	PVC	C16·21	VC			
V8-16-4	~0~10	VP16	FVC	B31	VH			
V8-20-4	ø8×ø13	VP20		C31·36				

Note: ø4×ø6, ø9×ø12 connection is prepared.

Air vent valve

Use the air vent valve for the B31, C31, and C36 types as necessary.



Hose Body Rubber pump material code	Model	Connection	Mat	erial	Applicable	Wet end	
AV-E30/35VC-4		Hose	Body	Rubber	pump	material code	
	AV-E30/35VC-4	~0~10	DVC	FKM	D04 C04 0C	VC	
AV-E30/35V6-4 EPDM EPDM VH	AV-E30/35V6-4	06X013	PVC	EPDM	B31.C31.30	VH	

Note: Please contact to Iwaki for 9×12 connection.

Multifunction valve

The multifunction valve functions as a back pressure valve, air vent valve, and relieve valve. The set pressure of the back pressure valve is fixed to 0.2MPa.



Model	Connection		Applicable	Wet end		
wodei	Hose	Body	Diaphragm	Rubber	pump	material code
MFV-SVC-1	ø4×ø9	PVC	PTFF+FPDM	FKM	B11 · 16 · 21	VC
MFV-SVH-1	Ø4ר9	FVC	FIFE+EFDIVI	EPDM	C16·21	VH

Strainer with a foot valve

Mount the strainer at the end of suction hose. The strainer with a foot valve prevents backflow and foreign matter interfusion. Inlet bore can be selected according to hose bore.



Model	Connection		M	laterial		Applicable	Wet end	
wodei	Hose	Strainer	Body	Valve ball	Rubber	pump	material code	
FSV-4x9	ø4×ø9			Alumina ceramic	FKM	B11 · 16 · 21, C16 · 21	1,10	
FSV-8x13	ø8×ø13	Aflon	PVC		FNIVI	B31, C31 · 36	VC	
FSE-4x9	ø4×ø9	Allon		Hastelloy	FPDM	B11 · 16 · 21, C16 · 21	\/II	
	ø8×ø13			C276	ENDIN	B31, C31 · 36	VH	

Note1: For ø4× ø6 and ø9× ø12, contact us. Note2: PVDF strainers (FSTC type) are also available.

Note3: Mesh size is 20 mesh.

Foot valve with a strainer

Mount the foot valve at the end of suction hose. The foot valve with a strainer and a ceramic weight ball prevents backflow and foreign matter interfusion. Inlet bore can be selected according to hose bore.



Model	Connection		Ма	terial	Applicable	Wet end		
wodei	Hose	Strainer	Body	Valve ball	Rubber	pump	material code	
FSC-4x6	ø4×ø6					B11 · 16 · 21		
FSC-4x9	ø4×ø9	9 PE		Alumina ceramic	FKM	C16 · 21	VC	
FSC-8x13	ø8×ø13			Ceramic		B31, C31 · 36		

Note1: For ø9×ø12, contact us. Note2: Mesh size is 150 mesh.

Reducing joint

Use the reducing joint to a connection between different bore hoses.



Model	Conn	ection	Mat	erial	Applicable	Wet end	
	Hose	Hose	Body	O-ring	pump	material code	
HJ-1/2V	ø4×ø9	ø4×ø6			D.1. 10 01		
HJ-1/18V	1/18V Ø4ר9	ø6×ø11 PVC		FKM	B11 · 16 · 21 C16 · 21	VC	
HJ-2/3V	ø4×ø6	ø6×ø8			010 21		

Note1: VH type is available as option. Note2: Same bore hoses are available as option.

T-joint

Use T-joint for a branch pipe.

Model	Connection Hose	Material Body	Applicable pump	Wet end material code	
TJ-4H	ø4×ø9	PVC	B11 · 16 · 21, C16 · 21	\(C \(\)	
TJ-8H	ø8×ø13	PVC	B31, C31 · 36	VC, VH	



Flow counter/Controller

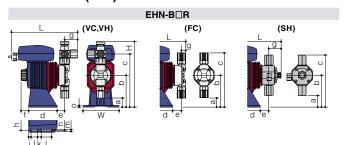
The pressure sensor detects pulsation to monitor the flow. Air lock and hose disconnection are also can be detected.

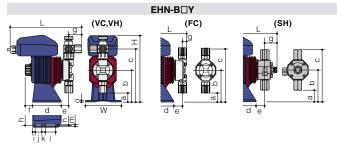


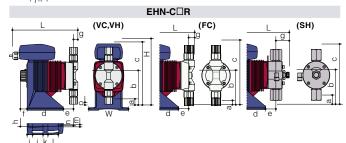
Flow counter	er						
Madal		Material		Applicable	Applicable	Wet end	
Model	Sensor	Body	Rubber	controller	pump	material code	
FCP-1VC	Alumina	DVO	FKM	FCU-01	B11 · 16 · 21	VC	
FCP-1VE	ceramic	PVC	EPDM	S3D2-CK	C16 · 21	VH	

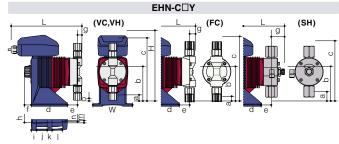
Controlle	r						
Model		Electr	ic specification	Applicable	NI-4-		
Model	power voltage	setting method	Output	Warning time	pump	Note	
FCU-01	AC100/200V	DIN Rail	open collector (3 output)	1 - 20 min	B11 · 16 · 21	Iwaki product	
S3D2-CK	AC100 - 240V	DIN Hall	relay output (1c)	0.1 - 1/1 - 10s	C16 · 21	Omron product	

Dimentions (mm)









EHN-R (VC VH)

Model	W	Н	L	а	b	С	d	е	f	g	h	i	j	k	ı	m	n	0
EHN-B11,16,21	100	(184)	(192)	(26)	90	(150)	81.5	(25)	(21)	(37)	88	7	16	10	32	6.2	88	5
EHN-B31	100	(174)	(174)	(8)	90	(172)	81.5	(27)	(21)	(16)	88	7	16	10	32	6.2	88	5
EHN-C16,21	116	(194)	(210.5)	(36)	100	(160)	105	(27)	(18)	(37)	100	8	37	15	30	7	95	8
EHN-C31	116	(189)	(191.5)	(17.5)	100	(182.5)	105	(29)	(18)	(16)	100	8	37	15	30	7	95	8
EHN-C36	116	(189)	(191)	(18)	100	(182)	105	(28.5)	(18)	(16)	100	8	37	15	30	7	95	8

EHN-R (FC,SH)

Model	W	Н	L	а	b	С	d	е	f	g
EHN-B11,21FC	100	(174)	(167)	(27)	90	(153)	81.5	(25)	(21)	(12)
EHN-C21FC	116	(189)	(185.5)	(37)	100	(163)	105	(27)	(18)	(12)
EHN-C31FC	116	(189)	(191.5)	(18.5)	100	(181.5)	105	(29)	(18)	(16)
EHN-C36FC	116	(189)	(191)	(18.5)	100	(181.5)	105	(28.5)	(18)	(16)
EHN-B11,21SH	100	(174)	(188)	(34)	90	(146)	81.5	(24)	(21)	(34)
EHN-C21SH	116	(189)	(209)	(44)	100	(156)	105	(26)	(18)	(36.5)
EHN-C31SH	116	(189)	(209)	(34)	100	(166)	105	(28)	(18)	(34.5)
EHN-C36SH	116	(189)	(208.5)	(31)	100	(169)	105	(28)	(18)	(34)

EHN-Y (VC,VH)

Model	W	Н	L	а	b	С	d	е	f	g	h	i	j	k	ı	m	n	0
EHN-B11,16,21	100	(191)	(208.5)	(26)	90	(150)	81.5	(25)	(21)	(37)	88	7	16	10	32	6.2	88	5
EHN-B31	100	(191)	(189.5)	(8)	90	(172)	81.5	(27)	(21)	(16)	88	7	16	10	32	6.2	88	5
EHN-C16,21	116	(206.5)	(227)	(36)	100	(160)	105	(27)	(18)	(37)	100	8	37	15	30	7	95	8
EHN-C31	116	(206.5)	(208)	(17.5)	100	(182.5)	105	(29)	(18)	(16)	100	8	37	15	30	7	95	8
EHN-C36	116	(206.5)	(207.5)	(18.5)	100	(181.5)	105	(28.5)	(18)	(16)	100	8	37	15	30	7	95	8

EHN-Y (FC,SH)

Model	W	Н	L	а	b	С	d	е	f	g
EHN-B11,21FC	100	(191)	(183.5)	(27)	90	(153)	81.5	(25)	(21)	(12)
EHN-C21FC	116	(206.5)	(202)	(37)	100	(163)	105	(27)	(18)	(12)
EHN-C31FC	116	(206.5)	(208)	(18.5)	100	(181.5)	105	(29)	(18)	(16)
EHN-C36FC	116	(206.5)	(207.5)	(18.5)	100	(181.5)	105	(28.5)	(18)	(16)
EHN-B11,21SH	100	(191)	(204.5)	(34)	90	(146)	81.5	(24)	(21)	(34)
EHN-C21SH	116	(206.5)	(225.5)	(44)	100	(156)	105	(26)	(18)	(36.5)
EHN-C31SH	116	(206.5)	(225.5)	(34)	100	(166)	105	(28)	(18)	(34.5)
EHN-C36SH	116	(206.5)	(225)	(31)	100	(169)	105	(28)	(18)	(34)

www.iwakipumps.jp

IWAKI CO.,LTD. 6-6 Kanda-Sudacho 2-chome Chiyoda-ku Tokyo 101-8558 Japan TEL: (81)3 3254 2935 FAX: 3 3252 8892

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EUROPE / U.S.A.

European office : IWAKI Europe GmbH
Austria : IWAKI (Austria) GmbH
Belgium : IWAKI Belgium N.V.
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Sweden : IWAKI Sverige AB
Switzerland : IWAKI Sverige AB
Switzerland : IWAKI SVerige (AB)
U.K. : IWAKI America Inc. TEL: (49)2154 9254 0 TEL: (41)26 674 93 00 TEL: (32)13 67 02 00 FAX: 2154 9254 48 FAX: 26 674 93 02 FAX: 13 67 20 30 TEL: (32)13 67 02 00
TEL: (45)48 24 2345
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TEL: (39)02 990 3931
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ASIA / OCEANIA

Australia : IWAKI Pumps Australia Pty Ltd. TEL: (61)2 9899 2411 FAX: 2 9899 2421 China Hong Kong: IWAKI Pumps Co., Ltd. TEL: (852)2607 1168 FAX: 2607 1000 TEL: (852)2607 1168
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