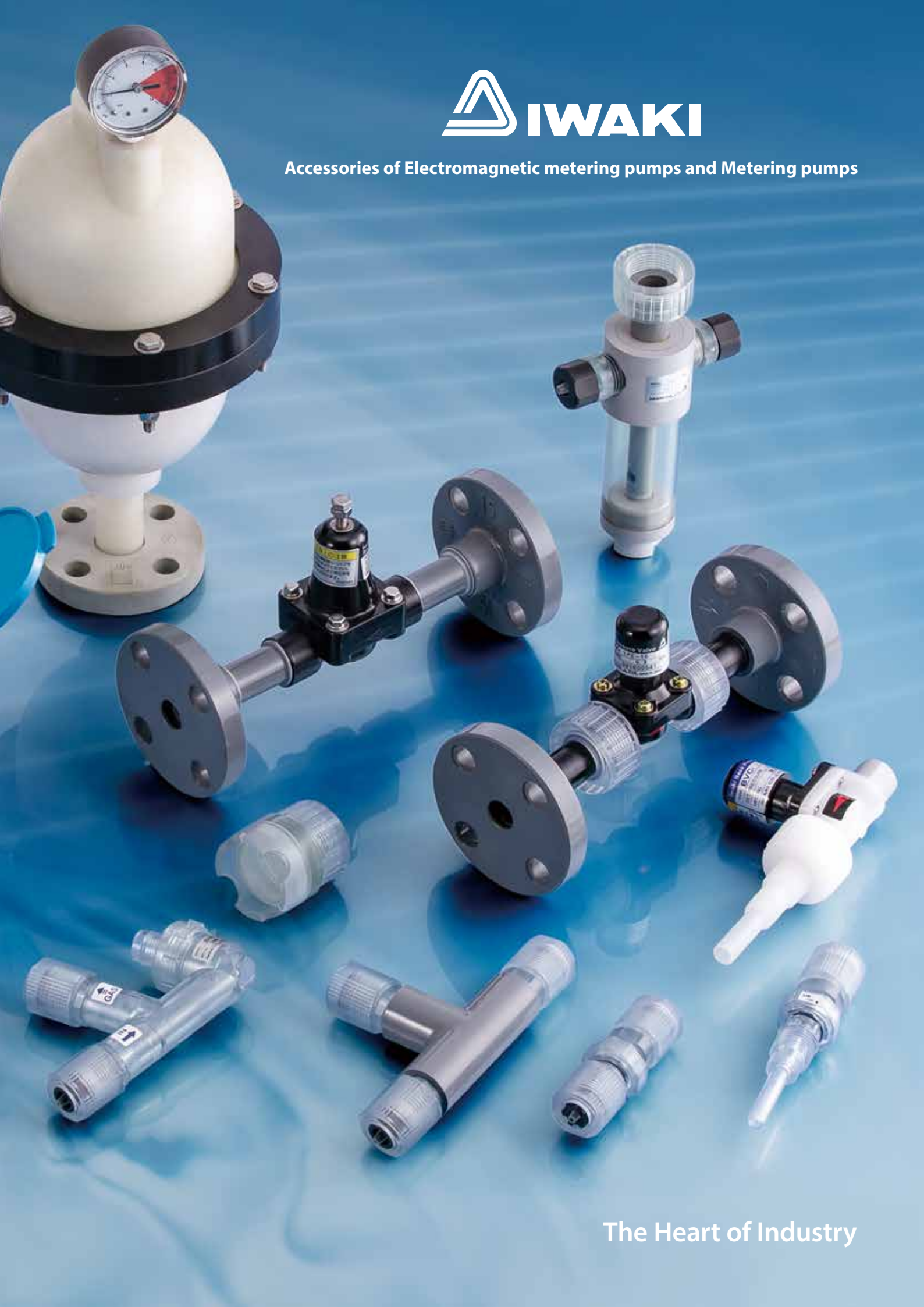
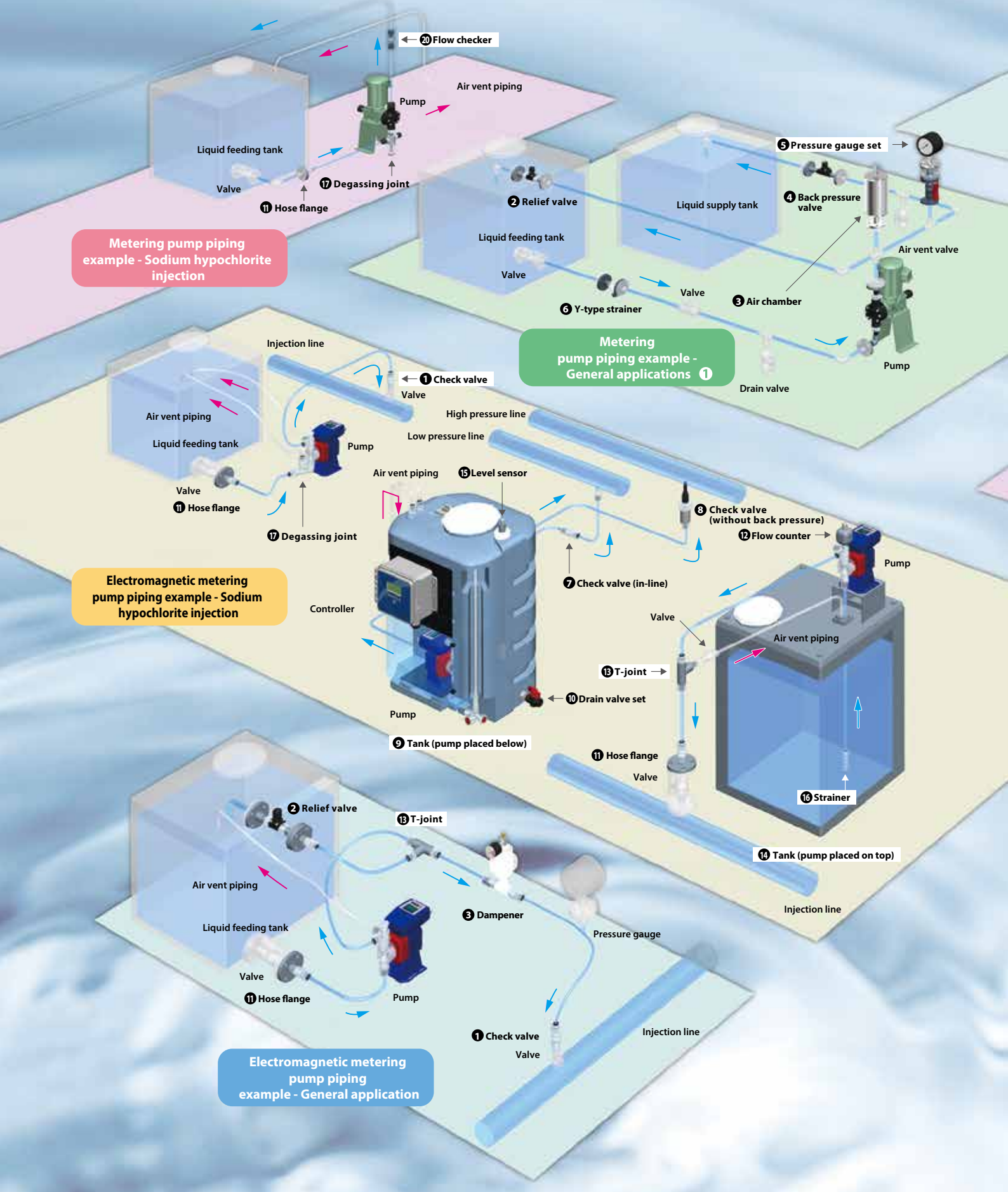
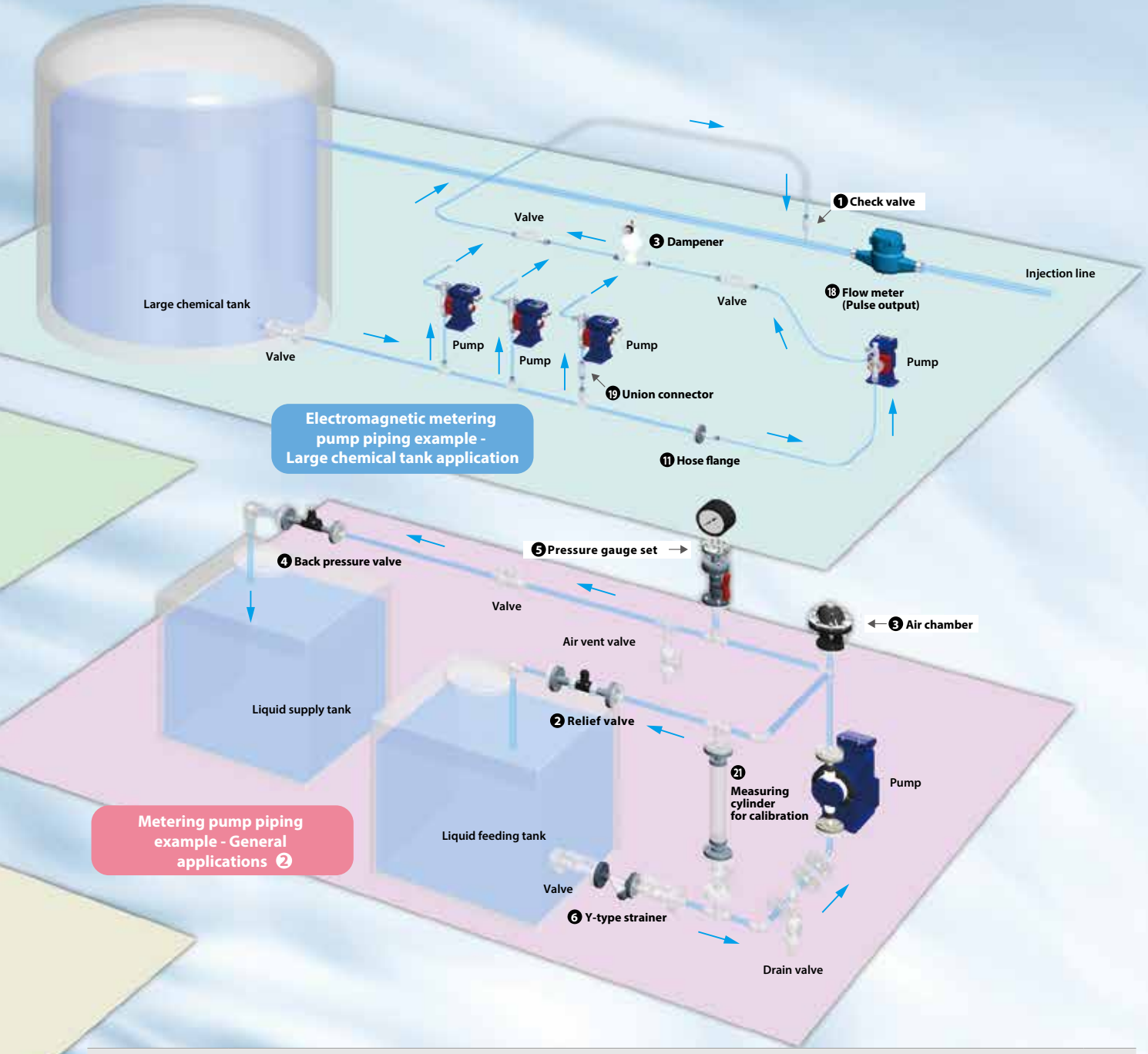

IWAKI
Accessories of Electromagnetic metering pumps and Metering pumps
The Heart of Industry

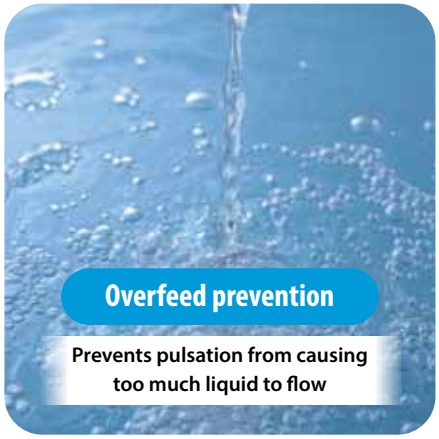
IWAKI supports all kinds of chemical dosing with its rich lineup of accessories





Name	Installation purpose / Brief description	Page
❶ Check valve	Applies a constant pressure to the discharge side of the pump. Attached to the hose on the discharge side. Prevents overfeeding, backflow and siphon of the chemical.	5-6
❷ Relief valve	Prevents damage to the pump and piping due to an abnormal rise of the discharge pressure. When the pressure in the piping rises above the set pressure, the valve opens to release the pressure.	11-13
❸ Air chamber	Suppresses discharge pulsation. Prevents piping vibration and overfeeding by suppressing the pulsation unique to a reciprocating pump.	15-16
❸ Dampener	Suppresses discharge pulsation. Installed on the discharge side, pulsation is suppressed and piping vibration is prevented.	14
❹ Back pressure valve	Applies a constant pressure to the discharge side of the pump. To be installed when the pressure difference between the discharge side and the suction side (differential pressure) is small.	9-10, 13
❺ Pressure gauge set	A convenient unit that combines a pressure gauge and a stop valve. Required for checking the discharge pressure or controlling air supply to the air chamber. PVC type and SUS type are available.	19
❻ Y-type strainer	Installed to the suction piping to prevent dirt and foreign matter from entering the pump chamber. PVC type and SUS type pressure gauges are available.	26
❼ Check valve (in-line)	In-line type check valve that is installed in the middle of the hose. Secures the check pressure and extends the hose.	5-6
❽ Check valve (without back pressure)	Attached at the injection point of the piping on the discharge side to prevent backflow of the chemical solution.	7
❾ Tank (pump placed below)	Made of polyethylene and designed to have a pump below. Gas lock doesn't occur easily and can be used safely even for chemicals such as sodium hypochlorite and hydrazine which generate decomposition gas.	29
❿ Drain valve set	A set of drain and an opening/closing valve for drainage. Please contact us for details.	29
⓫ Hose flange	Adapter to connect the pump hose and the flange piping. A check valve is optional.	21
⓬ Flow counter	The pressure sensor during the discharge operation of the electromagnetic metering pump detects the pulsation of fluid, to accurately grasp the discharge of the pump. Gas lock and hose disconnection can be also detected.	17
⓭ T-joint	Used to branch off hose piping.	21-22
⓮ Tank	A wide variety is available, including round tanks, general-purpose tanks and those with a pump placed below.	29-32
⓯ Level sensor	Attached directly to the tank. Checks the level of the chemical solution in the tank and outputs a signal when the level is low.	32
⓰ Strainer	Attached at the end of the suction hose. Prevents the entry of dirt and foreign matter into the pump chamber.	24
⓱ Degassing joint	Attached to the suction side of the pump to prevent gas sucking when transferring a liquid like sodium hypochlorite which easily generates gas.	20
⓲ Flow meter (Pulse output)	Measures main piping flow rate for proportional control of the pump. Outputs a pulse in proportion to the flow rate of treated water.	17
⓳ Union connector	Connects hoses of different diameter. Used when the existing hose piping has a different diameter from the pump connection. (Can be also used to extend a hose in case of the same diameter.)	23
⓴ Flow checker	Checks the discharge. FCM type outputs liquid feeding status as a pulse. FC type checks the status by detecting the move of the float inside the piping.	18
㉑ Measuring cylinder for calibration	Used to calibrate the discharge amount of the pump. Installed on the suction side to measure the suction amount.	19

Smart solutions for chemical injection problems

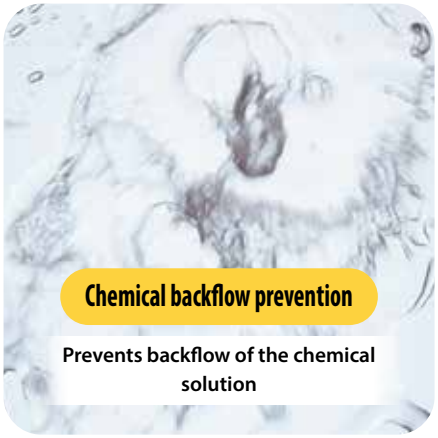


Overfeed prevention

Prevents pulsation from causing too much liquid to flow

Siphon prevention

Prevents the liquid from being sucked out and flowing continuously even if the pump stops



Chemical backflow prevention

Prevents backflow of the chemical solution

Overpressure prevention

Prevents damage to pump and piping due to an abnormal rise of the discharge pressure

Pulsation dampener

Reduces pulsation

Dampens pipe vibration

Reduces piping vibration

Flow proportional control

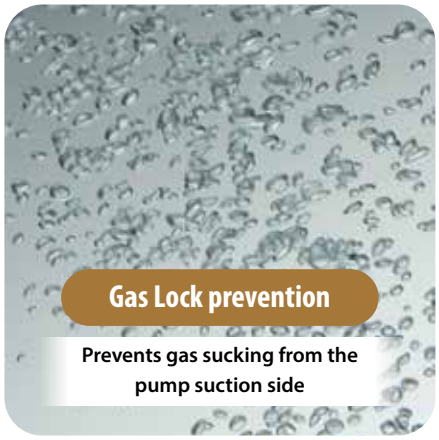
Controls the pump in direct proportion to the flow rate

Discharge check

Checks the liquid feeding status of the pump

Pressure check

Checks the discharge pressure



Gas Lock prevention

Prevents gas sucking from the pump suction side

Piping connection

Useful items for piping connections

Contamination prevention

Prevents contamination by foreign matter in the pump chamber

* Besides the above items, many other accessories such as a pump protecting cover and a special base to elevate the pump for piping works are also available. See the page on the right or the main text for details, and consult with us if you have any questions.

Contents

Check valve

Attached to the hose on the discharge side. It prevents overfeeding and backflow of the chemical solution and also prevents siphon.

Application

- Overfeed prevention
- Siphon prevention
- Chemical backflow prevention

Applicable pump

EHN, EWN, EH-E, IX-B

CAN type
Standard type

CBN type
In-line type that connects in the middle of hose/tube

CS type
Stainless steel type for high temperature
For general use/for boiler

TCAN type
Hose/tube type check valve with hose/tube discharge port. As there is no stagnant area, clogging due to crystallization of the chemical can be prevented.

Model identifications

CA - 1 VC LL - 4
① ② ③ ④ ⑤

① Series
- **CA**.....Fixed hose/tube diameter
- **CAN**.....Multi-hose/tube connection

② Size
- **1**.....For small flow rate
- **2**.....For medium flow rate
- **3**.....For large flow rate

③ Material
- **VC**.....PVC • FKM
- **VE**.....PVC • EPDM
- **V**.....GFRPP • CFRPP • FKM
- **E**.....GFRPP • CFRPP • EPDM

④ Set pressure
- **None**.....Standard
- **LL**.....Low • Low pressure
- **L**.....Low pressure
- **H**.....High pressure

⑤ Connection (Hose/Tube size in mm)
- **4**.....Ø4×Ø9 (CA-1/2) Ø8×Ø13 (CA-3)
- **4×6**.....Ø4×Ø6 (CA-1/2)
- **11**.....Ø10×Ø16 (CA-3)
- **M**.....Multi-hose/tube connection (CAN)
- **1**.....Ø4×Ø9 (CAN)
- **2**.....Ø4×Ø6 (CAN)

CBN - 1 VC H - M
① ② ③ ④ ⑤

① Series
- **CBN**.....Hose/tube connection

② Size
- **1**.....For small flow rate
- **2**.....For medium flow rate

③ Material
- **VC**.....PVC • FKM
- **VE**.....PVC • EPDM
- **V**.....GFRPP • CFRPP • FKM
- **E**.....GFRPP • CFRPP • EPDM

④ Set pressure
- **None**.....Standard
- **L**.....Low pressure
- **H**.....High pressure

⑤ Connection
- **M**.....Multi-hose/tube connection

CS - 1 S □ - □
① ② ③ ④ ⑤

① Series
- **CS**.....Stainless steel

② Sizel
- **1**.....For small·medium flow rate
- **2**.....For large flow rate

③ Type
- **S**.....For general use
- **E**.....For boiler

④ Set pressure
- **None**.....Standard
- **L**.....Low pressure

⑤ OUT thread connection
- **None**.....Standard
- **2**.....R1/2 (for boiler)

TCAN-1 VC □ - M
① ② ③ ④

① Series
- **TCAN-1**.....Tube type

② Material
- **VC**.....PVC • FKM

③ Length
- **None**.....Standard
- **S**.....Short type

④ Connection
- **M**.....Ø4×Ø9/Ø4×Ø6

Specifications

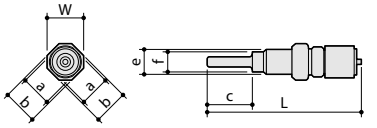
Model	Connection		Set pressure		Material			Applicable pump	Wet-end material symbol
	IN	OUT	MPa		Body	Spring	O-ring		
CA-1VCLL-4	Hose/tube Ø4×Ø9	Thread R3/8 R1/2	0.03	+0.02 -0.005	PVC	Hastelloy C276	FKM	EHN-B09	VC
CA-1VCLL-4×6	Hose/tube Ø4×Ø6								
CAN-1VC-M	Hose/tube Ø4×Ø9[Note 2] Ø4×Ø6	Thread R3/8 R1/2	0.17	±0.04	PVC		FKM	EHN/EWN-B11 • 16 • 21, C16 • 21	VC
								IX-B007 • 015	TC
CAN-1VE-M							EPDM	EHN/EWN-B11 • 16 • 21, C16 • 21	VH
								IX-B007 • 015	TE
CAN-1VCL-M			0.05	+0.04 -0.03			FKM	EHN/EWN-B11 • 16 • 21, C16 • 21	VC
CAN-1VEL-M							EPDM		VE
CAN-1VCH-M			0.34	±0.04			FKM		VC
CAN-1VEH-M							EPDM		VH
CAN-1V-M			0.17	+0.05 -0.04	GFRPP CFRPP		FKM	EHN-B11 • 16 • 21, C16 • 21	PC
CAN-1E-M							EPDM		PH
CAN-1VH-M			0.34	±0.04			FKM		PC
CAN-1EH-M							EPDM		PH
CAN-2VC-M	Hose/tube Ø8×Ø13[Note 2] Ø9×Ø12	Thread R3/8 R1/2	0.17	±0.04	PVC	Hastelloy C276	FKM	EHN/EWN-C31 EH-E31 • 36	VC
								IX-B030 • 045	TC
CAN-2VE-M	Hose/tube Ø8×Ø13[Note 2] Ø9×Ø12	Thread R3/8 R1/2	0.17	±0.04	PVC	Hastelloy C276	EPDM	EHN/EWN-C31 EH-E31 • 36	VH, V6
								IX-B030 • 045	TE

Model	Connection		Set pressure		Material			Applicable pump	Wet-end material symbol
	IN	OUT	MPa		Body	Spring	O-ring		
CAN-2VCL-M	Hose/tube Ø8×Ø13[Note 2] Ø9×Ø12	Thread R3/8 R1/2	0.05	+0.04 -0.03	PVC	Hastelloy C276	FKM	EHN/EWN-B31, C36	VC
CAN-2VEL-M							EPDM		VH
CAN-2V-M			0.17	±0.04	GFRPP CFRPP		FKM	EHN-C31 EH-E31・36	PC
CAN-2E-M							EPDM	EHN-C31	PH
CAN-2VL-M			0.05	+0.04 -0.03			FKM	EHN-B31, C36	PC
CAN-2EL-M							EPDM		PH
CA-3VCH-4	Hose/tube Ø8×Ø13	Thread R1/2	0.17	±0.04	PVC	Hastelloy C276	FKM	EH-E46	VC
CA-3VEH-4							EPDM		V6
CA-3VH-4					GFRPP		FKM		PC
CA-3VC-11	Hose/tube Ø10×Ø16		0.1	±0.04	PVC		FKM	EH-E55, 56	VC
CA-3VE-11							EPDM		V6
CA-3V-11					GFRPP		FKM		PC
CA-3VCL-11			0.05	±0.02	PVC		FKM		VC・VM
CA-3VEL-11							EPDM		V6
CA-3VL-11					GFRPP		FKM		PC
CBN-1VC-M	Hose/tube Ø4×Ø9[Note 2] Ø4×Ø6	Hose/tube Ø4×Ø9 Ø4×Ø6	0.17	±0.04	PVC	Hastelloy C276	FKM	EHN/EWN-B11・16・21, C16・21	VC
CBN-1VE-M							EPDM		VH
CBN-1VCH-M			0.34	±0.04			FKM		VC
CBN-1VEH-M							EPDM		VH
CBN-1V-M			0.17	+0.05 -0.04	GFRPP CFRPP		FKM	EHN-B11・16・21, C16・21	PC
CBN-1E-M							EPDM		PH
CBN-1VH-M			0.34	+0.05 -0.04			FKM		PC
CBN-1EH-M							EPDM		PH
CBN-2VC-M	Hose/tube Ø8×Ø13[Note 2] Ø9×Ø12	Hose/tube Ø8×Ø13 Ø9×Ø12	0.17	±0.04	PVC	Hastelloy C276	FKM	EHN/EWN-C31	VC
CBN-2VE-M							EPDM		VH
CBN-2VCL-M			0.05	+0.04 -0.03			FKM	EHN/EWN-B31, C36	VC
CBN-2VEL-M							EPDM		VH
CBN-2V-M			0.17	±0.04	GFRPP CFRPP		FKM	EHN-C31	PC
CBN-2E-M							EPDM		PH
CBN-2VL-M			0.05	+0.04 -0.03			FKM	EHN-B31, C36	PC
CBN-2EL-M							EPDM		PH
CCA-1FC-4×6	Hose/tube Ø4×Ø6	Thread R3/8, R1/2	0.04	or more	PVDF	Hastelloy C276	FKM	EHN-B11・16・21, C16・21 (FC type)	FC
CS-1S	Thread Rc1/4	Thread Rc1/4	0.2	±0.04	SUS316	Hastelloy C276	PTFE[Note 1]	EHN-B11・21, C21・31 EH-E31・36	SH
								IX-B007・015	S6
CS-1SL			0.05	+0.04 -0.03				EHN-C36	SH
CS-1E	Hose/tube Ø4×Ø6	Thread R3/8	0.12	±0.04	SUS304		EPDM	EHN-B11, C16-H	VH・PH
CS-1E-2		Thread R1/2							
CS-2S	Thread Rc3/8	Thread Rc3/8	0.2	±0.03	SUS316		PTFE[Note 1]	EH-E46	SH
								IX-B030・045	S6
CS-2SL			0.1	±0.03				EH-E56	SH
TCAN-1VC-M	Hose/tube Ø4×Ø9[Note 2] Ø4×Ø6	Thread R3/8 R1/2	0.2	±0.04	PVC	Hastelloy C276	FKM	EHN-B11・16・21, C16・21	VC
TCAN-1VCS-M									

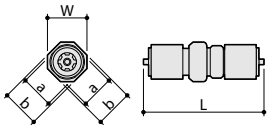
Note 1: The sealing of CS type is a gasket.
Note 2: Applicable hose/tube diameter can be changed. Refer to "Connection diameter of multi-hose/tube" on page 34 for details.

Dimensions in mm

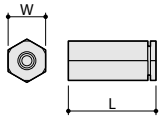
· CAN type



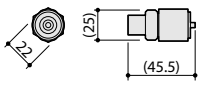
· CBN type



· CS-1/2S(L)

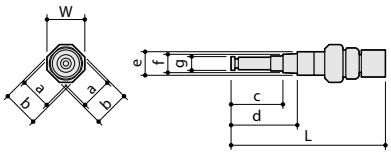


· CS-1E(-2)

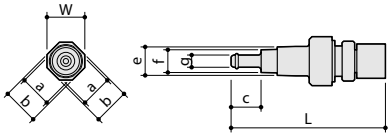


Model	W	L	a	b	c	d	e	f	g
CAN-1V□-M	32	(137)	27	30	40	—	R1/2	R3/8	—
CAN-2V□-M	38	(146)	27	36	40	—	R1/2	R3/8	—
CA-3V□-M	40	(116)	30	40	24	—	R1/2	Ø12	—
CBN-1□	32	(99)	27	30	—	—	—	—	—
CBN-2□	38	(105)	27	36	—	—	—	—	—
CCA-1FC-4×6	35	(109)	22	29	21	—	R1/2	R3/8	Ø9
CS-1S	32	(745)	—	—	—	—	—	—	—
CS-2S	21	(57)	—	—	—	—	—	—	—
TCAN-1VC-M	32	(140)	27	30	(43)	(55)	R1/2	R3/8	Ø13
TCAN-1VCS-M	32	(116)	27	30	(19)	(31)	R1/2	R3/8	Ø13

· TCAN type



· CCA-1FC-4×6



Check valve (Without back pressure)

Application	Applicable pump
Chemical backflow prevention	EHN
	EWN

Attached at the injection point of the piping on the discharge side to prevent backflow of the chemical solution.

Model identification

CV - 1 VC - 1
① ② ③ ④

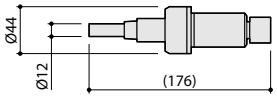
① Series
CV.....Check valve (Without back pressure)

② Size
1.....For small flow rate
2.....For medium flow rate

③ Material
VC.....PVC • FKM
VE.....PVC • EPDM

④ Hose/tube size (in mm)
1.....Ø4×Ø9
2.....Ø4×Ø6
4.....Ø8×Ø13

Dimensions in mm



Specifications

Model	Connection		Material		Applicable pump	Wet-end material symbol
	IN	OUT	Body	O-ring		
CV-1VC-1	Hose/tube Ø4×Ø9	Thread R3/8 R1/2	PVC	FKM	EHN/EWN-B11 • 16 • 21, C16 • 21	VC
CV-1VE-1				EPDM		VH
CV-1VC-2	Hose/tube Ø4×Ø6			FKM		VC
CV-1VE-2				EPDM		VH
CV-2VC-4	Hose/tube Ø8×Ø13			FKM	EHN/EWN-B31, C31 • 36	VC
CV-2VE-4				EPDM		VH

Back pressure valve with check valve

Application	Applicable pump	
Overfeed prevention	EHN	LK
Siphon prevention	EWN	SK
Chemical backflow prevention	EH-E	

This is installed when the pressure difference between the discharge side and the suction side (differential pressure) is small. It improves injection accuracy and prevents backflow. The release pressure is adjustable.

Model identification

BVC-1 TV - 4H
① ② ③

① Series
BVC-1.....Back pressure valve with check valve

② Material
PV.....PVC • FKM
PE.....PVC • EPDM
TV.....PVDF • FKM
V.....GFRPP • FKM

③ Hose/tube size (in mm)
4P.....Ø4×Ø6 (PE)
4H.....Ø4×Ø9 (PV/PE), Ø4×Ø6 (TV)
6P.....Ø6×Ø8
8H.....Ø8×Ø13.5, Ø8×Ø14
8H (8×13).....Ø8×Ø13
9P.....Ø9×Ø12
10H.....Ø10×Ø12
10.....Ø10×Ø16
12H.....Ø12×Ø18
12P.....Ø12×Ø16 (PE)
13E.....Ø13×Ø20 (PVC)

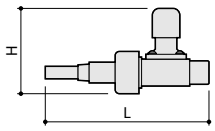
■ Specifications

Model	Connection		Set pressure	Material			Applicable pump	Wet-end material symbol
	IN	OUT	MPa	Body	Valve	O-ring		
BVC-1TV-4H	Hose/tube Ø4×Ø6	Thread R3/8 R1/2	0.2 ±0.02	PVDF	FKM	PTFE	EHN-B11 • 21, C21	FC
BVC-1TV-10H	Hose/tube Ø10×Ø12		0.05 +0.02 −0.01				EHN-C36, EH-E56	
			0.1 ±0.02				EHN-C36, EH-E46 • 56	
			0.2 ±0.02				EHN-C31, EH-E31 • 36	
BVC-1PVL-4H	Hose/tube Ø4×Ø9	Thread R3/8 R1/2	0.15 ±0.01 Note 1 (0.05 to 0.2) Note 2	PVC	FKM	FKM	EHN/EWN-B11 • 16 • 21, C16 • 21 LK-11, 21, 22	VC
BVC-1PEL-4H					EPDM	EPDM		VH
BVC-1PV-4H	Hose/tube Ø4×Ø9		0.3 ±0.01		FKM	FKM	LK-11 • 21 • 22 SK-11 • 21 • 22	VC
BVC-1PE-4H					EPDM	EPDM		VH
BVC-1PVL-4P	Hose/tube Ø4×Ø6		0.15 ±0.01		FKM	FKM	SK-1, 2	VC
BVC-1PEL-4P					EPDM	EPDM		VH
BVC-1PVL-6P	Hose/tube Ø6×Ø8		0.15 ±0.01 Note 1 (0.05 to 0.2) Note 2		FKM	FKM	EHN/EWN-B11 • 16 • 21, C16 • 21	VC
BVC-1PEL-6P					EPDM	EPDM		VH
BVC-1PVL-8H (8×13)	Hose/tube Ø8×Ø13		0.15 ±0.01		FKM	FKM	EHN/EWN-C31 EH-E31 • 36 • 46,	VC
BVC-1PEL-8H(8×13)					EPDM	EPDM		VH • V6
BVC-1PVL-8H	Hose/tube Ø8×Ø13.5 Ø8×Ø14		0.15 ±0.01		FKM	FKM	SK-31, 32	VC
BVC-1PEL-8H					EPDM	EPDM		VH
BVC-1PVL-9P	Hose/tube Ø9×Ø12		0.15 ±0.01 Note 1 (0.05 to 0.2) Note 2		FKM	FKM	EHN/EWN-B11 • 16 • 21, C16 • 21 SK-31, 32	VC
BVC-1PEL-9P					EPDM	EPDM		VH
BVC-1PVL-10	Hose/tube Ø10×Ø16		0.2 ±0.02		FKM	FKM	EH-E56	VC
			0.1 ±0.03					
BVC-1PEL-10			0.2 ±0.02		EPDM	EPDM	EH-E56	V6
			0.1 ±0.03					
BVC-1VL-10	Hose/tube Ø10×Ø16	Thread R3/8 R1/2	0.2 ±0.02	GFRPP	FKM	PTFE	EH-E56	PC
			0.1 ±0.03					
BVC-1PVL-12H	Hose/tube Ø12×Ø18	Thread R3/8 R1/2	0.05 to 0.2 Standard : 0.15	PVC	FKM	FKM	LK-31 • 32 • 45, SK-41, 42	VC
BVC-1PEL-12H					EPDM	EPDM		VH
BVC-1PV-12H	Hose/tube Ø12×Ø18		0.2 to 0.8 Standard : 0.3		FKM	FKM	LK-21 • 32 • 45, SK-41, 42	VC
BVC-1PE-12H					EPDM	EPDM		VH
BVC-1PVL-12P	Hose/tube Ø12×Ø16		0.15 ±0.01 Note 1 (0.05 to 0.2) Note 2		FKM	FKM	SK-4	VC
BVC-1PEL-12P					EPDM	EPDM		VH

Note 1: Standard set pressure
Note 2: Adjustable pressure

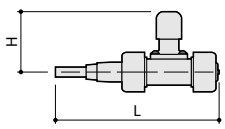
Dimensions in mm

·BVC-1TV-4H
·BVC-1TV-10H



Model	L	H
BVC-1TV-4H	(172)	(88)
BVC-1TV-10H	(174)	(88)

·Except the above



Model	L	H
BVC-1P □L-4H	(185)	(67)
BVC-1P □L-4P	(185)	(67)
BVC-1P □L-8H	(185)	(67)
BVC-1P □L-8H (8×13)	(189)	(67)
BVC-1P □-4H	(185)	(67)
BVC-1P □L-10	(189)	(67)
BVC-1VL-10	(189)	(67)
BVC-1P □-12H	(185)	(67)
BVC-1P □L-12H	(185)	(67)
BVC-1P □L-12P	(185)	(67)
BVC-1P □L-13E	(185)	(67)

Back pressure valve

This is installed when the pressure difference between the discharge side and suction side (differential pressure) is small.

Application

- Overfeed prevention
- Siphon prevention

Applicable pump

EHN	TD
EWN	SK
EH-E	AX
LK	IX-B/C/D

PVDF type

PVC type

Model identifications

BV - 2 S6 B - 15
① ② ③ ④ ⑤

① Series
- **BV** ..... back pressure valve

② Capacity
- **1** ..... 1.0 l/min
- **2** ..... 2.0 l/min
- **3** ..... 3.0 l/min
- **7** ..... 7.5 l/min
- **25** ..... 25 l/min

③ Material (main material/O-ring)

BV-1	**PV**	PVC/FKM
	PE	PVC/EPDM
BV-3	**P**	PVC • PTFE/None
	NE	PVC/EPDM
	PV	PVC • PTFE/FKM
	NV	PVC/FKM
	PE	PVC • PTFE/EPDM
BV-2 • 7 • 25	**S6**	SCS14 (or SUS316) • PTFE/None
	V	PVC • PTFE/None
	F	PVDF • PTFE/None
	TV	PVDF • PTFE/FKM
	TE	PVDF • PTFE/EPDM

④ Set pressure
- **None** ..... 0.8 MPa or less (1.0 MPa for BV-3P type only, 0.3 MPa or less for BV-3N type)
- **B** ..... 0.8 MPa or more
- **L** ..... 0.05 - Less than 0.2 MPa (BV-1P type only)

⑤ Connection

Hose/tube connection type
- **4H** ..... Ø4×Ø9 hose (PVC)
- **8H** ..... Ø8×Ø13.5 hose (PVC) Ø8×Ø14 hose (PVC)
- **12H** ..... Ø12×Ø18 hose (PVC)
- **4P** ..... Ø4×Ø6 hose (PE)
- **9P** ..... Ø9×Ø12 hose (PE)
- **12P** ..... Ø12×Ø16 hose (PE)

Flange connection type
- **15** ..... 15A flange
- **20** ..... 20A flange
- **25** ..... 25A flange
- **40** ..... 40A flange
- **50** ..... 50A flange

Thread connection type
- **C17** Rc1/2
- **C18** Rc3/4

N 50 BV - 5 S6 - F
① ② ① ③ ④ ⑤

① Type
- **N** ..... N ☐ BV type

② Connection
- **50** ..... 50 A
- **65** ..... 65 A

③ Maximum set pressure
- **5** ..... 0.5 MPa

④ Material
- **S4** ..... SUS304 • PTFE
- **S6** ..... SUS316 • PTFE
- **V** ..... PVC • CR
- ⑤ **V2** ..... PVC • FKM

Connection
- **F** ..... Flange connection

Specifications

Model	Connection	Flow range L/min (L/H)	Set pressure MPa (Set pressure symbol : L)	Material			Applicable pump Note 2	Wet-end material symbol	Mass kg
				Body	Diaphragm	Rubber			
BV-1PV(L)-15	Flange JIS10K15A	0.005 to 1.0 (0.3 to 60)	0.2 to 0.8 Standard : 0.3 (0.05 to 0.2) (Standard : 0.15)	PVC	FKM	FKM	EHN/EWN-B11 to 31, C16 to 36 EH-E36 to 46 LK-11 to 45 SK-11 to 42 AXJ-L07 to 30	VC	0.5
BV-1PE(L)-15					EPDM	EPDM		VH • V6	
BV-1TV(L)-15	Flange JIS10K15A	0.005 to 1.0 (0.3 to 60)	0.2 to 0.8 Standard : 0.3 (0.05 to 0.2) (Standard : 0.15)	PVDF	FKM	FKM	EHN-B11 to 31, C16 to 36 EH-E31 to 56	FC	0.5
							LK-11 to 45	TC	
BV-1PV(L)-20	Flange JIS10K20A	0.005 to 1.0 (0.3 to 60)	0.2 to 0.8 standard : 0.3 (0.05 to 0.2) (standard : 0.15)	PVC	FKM	FKM	AXJ-L07 to 30	VC	0.7
BV-1PE(L)-20					EPDM	EPDM		VH	
BV-1PVL-4H	Hose/tube Ø4×Ø9	0.005 to 1.0 (0.3 to 60)	0.05 to 0.2 Standard : 0.15	PVC	FKM	FKM	LK-11 to 22 SK-11 to 22	VC	0.2
BV-1PEL-4H					EPDM	EPDM		VH	
BV-1PV-4H			0.2 to 0.8 Standard : 0.3		FKM	FKM	EHN/EWN-B11 to 31, C16 to 36 EH-E36 to 46 LK-11 to 22 SK-11 to 22	VC	
BV-1PE-4H					EPDM	EPDM		VH • V6	
BV-1PV-4P	PE tube Ø4×Ø6	0.005 to 1.0 (0.3 to 60)	0.2 to 0.8 Standard : 0.3	PVC	FKM	FKM	EHN/EWN-B11 to 31, C16 to 36 EH-E36 to 46 SK-11 to 22	VC	0.2
BV-1PE-4P					EPDM	EPDM		VH • V6	
BV-1PVL-4P			0.05 to 0.2 Standard : 0.15		FKM	FKM	SK-11 to 22	VC	
BV-1PEL-4P					EPDM	EPDM		VH	
BV-1PV(L)-8H	Hose/tube Ø8×Ø13.5 Note 1 Ø8×Ø14 Note 1	0.005 to 1.0 (0.3 to 60)	0.2 to 0.8 Standard : 0.3 (0.05 to 0.2) (Standard : 0.15)	PVC	FKM	FKM	SK-31 • 32	VC	0.2
BV-1PE(L)-8H					EPDM	EPDM		VH	
BV-1PV(L)-9P	PE tube Ø9×Ø12			PVC	FKM	FKM	EHN/EWN-B31, C31 • 36 EH-E36 to 46 SK-31 • 32	VC	0.2
BV-1PE(L)-9P					EPDM	EPDM		VH • V6	
BV-1PVL-12H	Hose/tube Ø12×Ø18	0.005 to 1.0 (0.3 to 60)	0.05 to 0.2 Standard : 0.15	PVC	FKM	FKM	LK-31 to 45 SK-41 • 42	VC	0.2
BV-1PEL-12H					EPDM	EPDM		VH	

Model	Connection	Flow range L/min (L/H)	Set pressure MPa (Set pressure symbol : L)	Material			Applicable pump Note 2	Wet-end material symbol	Mass kg
				Body	Diaphragm	Rubber			
BV-3T□-15	JIS10K 15A DIN PN10 DN15 ANSI 150LB 1/2"Note4	0.000125 to 3.0 (0.0075 to 180)	0.1 to 0.8Note3 Standard : 0.15	PVDF	FKM EPDM	FKM EPDM	IX-B IX-C060	TC • TE	0.7
BV-3T□-20	JIS10K 20A						IX-C150 IX-D150		0.8
BV-3T□-MS	Hose/tube Ø4×Ø6, Ø4×Ø9						IX-B		0.5
BV-3T□-ML	Hose/tube Ø8×Ø13, Ø9×Ø12								
BV-3T□-R	R1/2								
BV-3T□-N	1/2NPT								
BV-3T□-G	G3/4								
BV-1PV-12H	Hose/tube Ø12×Ø18	0.005 to 1.0 (0.3 to 60)	0.2 to 0.8 Standard : 0.3	PVC	FKM	FKM	LK-31 to 45 SK-41 • 42	VC	0.2
BV-1PE-12H					EPDM	EPDM		VH	
BV-1PV(L)-12P	PE tube Ø12×Ø16	0.005 to 1.0 (0.3 to 60)	0.2 to 0.8 Standard : 0.3 (0.05 to 0.2) (Standard : 0.15)	PVC	FKM	FKM	SK-41 • 42	VC	0.2
BV-1PE(L)-12P					EPDM	EPDM		VH	
BV-1PV(L)-13E	Hose/tube Ø13×Ø20				FKM	FKM		VC	
BV-1PE(L)-13E					EPDM	EPDM		VH	
BV-3P-15	Flange JIS10K15A	0.03 to 3.0 (1.8 to 180)	0.1 to 0.8 Standard : 0.15	PVC	PTFE	—	LK-47, TD-01 to 2 AXJ-L07 to 30	VC • VH • V6	0.6
							IX-C060	TC • TE	
BV-3P-20	Flange JIS10K20A						AXJ-L07 to 30	VC • VH	
							IX-C150, D150	TC • TE	
BV-3P-25	Flange JIS10K25A						LK-55 • A55 AXJH-L42 AXK-L30 • 42 AXA-L42	VC • VH	0.9
BV-3PV-12H	Hose/tube Ø12×Ø18	0.03 to 3.0 (1.8 to 180)	0.1 to 0.8 Standard : 0.15	PVC	PTFE	FKM	SK-41 • 42 TD-01 to 2	VC	0.4
BV-3PE-12H						EPDM		VH • V6 • VS	
BV-3PV-12P	PE tube Ø12×Ø16	0.03 to 3.0 (1.8 to 180)	0.1 to 0.8 Standard : 0.15	PVC	PTFE	FKM	SK-41 • 42	VC	0.4
BV-3PE-12P						EPDM		VH	
BV-3PV-13E	Hose/tube Ø13×Ø20					FKM		VC	
BV-3PE-13E						EPDM		VH	
BV-3NV-15	Flange JIS10K15A	0.005 to 3.0 (0.3 to 180)	0.1 to 0.3 Standard : 0.15	PVC	FKM	FKM	EH-E56 LK-11 to 47	VC	0.6
							IX-B • C060	TC	
BV-3NE-15					EPDM	EPDM	EH-E56 LK-11 to 47	V6	
							IX-B • C060	TE	
BV-3NV-20	Flange JIS10K20A				FKM	FKM	EH-E56	VC	
							IX-C150 • D150	TC	
BV-3NE-20					EPDM	EPDM	EH-E56	V6	
							IX-C150 • D150	TE	
BV-3NV-25	Flange JIS10K25A				FKM	FKM	LK-55 • A55	VC	0.9
BV-3NE-25					EPDM	EPDM		VH	
BV-7TV-15	Flange JIS10K15A	0.2 to 7.5 (12 to 450)	0.05 to 0.8 Standard : 0.15	PVDF	PTFE	FKM	IX-B • C060 SK, LK-47	TC	5
BV-7TE-15						EPDM		TE	
BV-7V-20	Flange JIS10K20A	0.2 to 7.5 (12 to 450)	0.05 to 0.8 Standard : 0.15	PVC	PTFE	—	IX-C150 • D150	TC • TE	3.5
BV-7V-25	Flange JIS10K25A						LK-55 • 57 • A55 • A57 TD-6 to 8	VC • VH • V6	
BV-7F-C17	Thread Rc1/2	0.2 to 7.5 (12 to 450)	0.05 to 0.8 Standard : 0.15	PVDF	PTFE	—	IX-B	TC • TE	3.5
BV-7F-C18	Thread Rc3/4								
BV-7TV-25	Flange JIS10K25A	0.2 to 7.5 (12 to 450)	0.05 to 0.8 Standard : 0.15	PVDF	PTFE	FKM	IX-D300 LK-55 • 57	TC	5
BV-7TE-25						EPDM		TE	
BV-25V-25	Flange JIS10K25A	2 to 25 (120 to 1,500)	0.05 to 0.8 Standard : 0.15	PVC	PTFE	—	TD-8	VC • V6 • V5	4
BV-25TV-25	Flange JIS10K25A	2 to 25 (120 to 1,500)	0.05 to 0.8 Standard : 0.15	PVDF	PTFE	FKM	LK-A65 • B65	TC	4
BV-25TE-25						EPDM		TE	
BV-25V-40	Flange JIS10K40A	2 to 25 (120 to 1,500)	0.05 to 0.8 Standard : 0.15	PVC	PTFE	—	LK-A65 • B65	VC • VS4 • V5	4
BV-25TV-40	Flange JIS10K40A	2 to 25 (120 to 1,500)	0.05 to 0.8 Standard : 0.15	PVDF	PTFE	FKM	LK-A65 • B65	TC	4
BV-25TE-40						EPDM		TE	
BV-25V-50	Flange JIS10K50A	2 to 25 (120 to 1,500)	0.05 to 0.8 Standard : 0.15	PVC	PTFE	—	LK-B75, C76	VC • VS4 • VS	4.5
N50BV-5V-F		2.5 to 50 (15 to 3,000)	0.15 to 0.5 Standard : 0.15		CR	CR	LK-C76, B75	VS4 • VS	20
N50BV-5V2-F					FKM	FKM		VC	
N65 • 50BV-5V-F	Flange JIS10K65A	5 to 70 (300 to 4,200)			CR	CR	LK-C86 • 87	VS4 • VS	
N65 • 50BV-5V2-F					FKM	FKM	LK-C86 • 87	VC	

Model	Connection	Flow range L/min (L/H)	Set pressure MPa	Material			Applicable pump Note 2	Wet-end material symbol	Mass kg
				Body	Diaphragm	Rubber			
BV-2S6-15	Flange JIS10•16K15A	0.02 to 2.0 (1.2 to 120)	0.05 to 0.8 Standard : 0.15	SUS316 SCS14	PTFE	PTFE	LK-11 to 47 TD-01 to 1 IX-B • C060	S6	3.5
BV-2S6-C17	Thread Rc1/2						IX-B		
BV-2S6-C18	Thread Rc3/4								
BV-7S6-20	Flange JIS10•16K20A	0.2 to 7.5 (12 to 450)	0.1 to 0.8 Standard : 0.15				IX-C150, D150		6
BV-7S6-25	Flange JIS10•16K25A						LK-55 • 57 • A55 • A57 IX-D300		
BV-25S6-25	Flange JIS10K25A	2 to 25 (120 to 1,500)					TD-6 to 8		7
BV-25S6-40	Flange JIS10K40A						LK-A65 • B65		7.5
BV-25S6-50	Flange JIS10K50A						LK-B75, C76		8.5
N50BV-5S6-F		2.5 to 80 (150 to 4,800)	0.15 to 0.5 Standard : 0.15				LK-B75, C76	S4 • S6	29
N65BV-5S6-F	Flange JIS10K65A	5 to 120 (300 to 7,200)					LK-C86 • 87		42

Note 1: For SK Series Note 2: Hose flange is required for use with EHN, EWN, EH-E.
Note 3: When connecting a hose, use it at a hose normal pressure or less.
Note 4: The flange is a shared product that complies with the standards listed in the table.
* External dimensions are the same as the relief valve. See Page 13 for details.

Relief valve

When the pressure in the piping rises above the set pressure, the valve opens to release the pressure.

Application

Overpressure prevention

Applicable pump

EHN	TD
EWN	SK
EH-E	AX
LK	IX-B/C/D

Model identifications

RV - 2 S6 B - 15
① ② ③ ④ ⑤

① Series
RV.....Relief valve

② Capacity
1.....1.0 l/min
2.....2.0 l/min
3.....3.0 l/min
7.....7.5 l/min
25.....25 l/min

③ Material (main material/O-ring)
RV-1
PV.....PVC/FKM
PE.....PVC/EPDM
RV-3
P.....PVC•FKM/None
PV.....PVC•PTFE/FKM
PE.....PVC•PTFE/EPDM
RV-2•7•25
S6.....SCS14 (or SUS316) •PTFE/None
V.....PVC•PTFE/None
TV.....PVDF•PTFE/FKM
TE.....PVDF•PTFE/EPDM

④ Set pressure
None.....0.8 MPa or less (1.0 MPa for RV-3P type only)
B.....0.8 MPa or more

⑤ Connection
Hose/tube connection type
4H.....Ø4×Ø9 hose (PVC)
8H.....Ø8×Ø13.5 hose (PVC)
Ø8×Ø14 hose (PVC)
12H.....Ø12×Ø18 hose (PVC)
4P.....Ø4×Ø6 hose (PE)
9P.....Ø9×Ø12 hose (PE)
12P.....Ø12×Ø16 hose (PE)
Flange connection type
15.....15A flange
20.....20A flange
25.....25A flange
40.....40A flange
50.....50A flange

N 50 RV - 5 S4 - F
① ② ① ③ ④ ⑤

① Type
N.....N □ RV type

② Connection
50.....50 A
65.....65 A

③ Maximum set pressure
5.....0.5 MPa

④ Material
S4.....SUS314•PTFE
S6.....SUS316•PTFE
V.....PVC•CR
V2.....PVC•FKM

⑤ Connection
F.....Flange connection

Specifications

Model	Connection	Maximum capacity L/min (L/H)	Set pressure MPa	Material			Applicable pump Note1	Wet-end material symbol	Mass kg
				Body	Diaphragm	Rubber			
RV-1PV-15	Flange JIS10K15A	1.0 (60)	0.3 to 0.8 Standard : 0.15	PVC	FKM	FKM	EHN/EWN-B11 to 31, C16 to 36 EH-E36 to 46	VC	0.5
RV-1PE-15					EPDM	EPDM	LK-11 to 45 SK-11 to 42 AXJ-L07 to 30	VH	
RV-1PVB-15			0.8 to 1.0 Standard : 1.0		FKM	FKM		VC	
RV-1PEB-15					EPDM	EPDM			
RV-1TV-15	Flange JIS10K15A	1.0 (60)	0.3 to 0.8 Standard : 0.5	PVDF	FKM	FKM	EHN-B11 to 31 C16 to 36 EH-E31 to 56	FC	0.5
							LK-11 to 45, SK-11 to 42	TC	

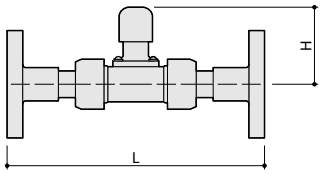
Model	Connection	Maximum capacity L/min (L/H)	Set pressure MPa	Material			Applicable pump [Note]	Wet-end material symbol	Mass kg
				Body	Diaphragm	Rubber			
RV-1PV-20	Flange JIS10K20A	1.0 (60)	0.3 to 0.8 Standard : 0.5	PVC	FKM	FKM	EHN/EWN-B11 to 31, C16 to 36 EH-E36 to 46 AXJ-L07 to 30	VC	0.5
RV-1PE-20					EPDM	EPDM		VH • V6	
RV-1PV-4H	Hose/tube Ø4×Ø9		0.3 to 0.8 Standard : 0.5		FKM	FKM	EHN/EWN-B11 to 31, C16 to 36 EH-E36 to 46	VC	0.2
RV-1PE-4H					EPDM	EPDM	LK-11 to 45 SK-11 to 22	VH	
RV-1PV-4P	PE tube Ø4×Ø6				FKM	FKM	EHN/EWN-B11 to 31, C16 to 36	VC	
RV-1PE-4P					EPDM	EPDM	EH-E36 to 46 SK-11 to 22	VH • V6	
RV-1PV-8H	Hose/tube Ø8×Ø13.5 Ø8×Ø14				FKM	FKM	SK-31 • 32	VC	
RV-1PE-8H					EPDM	EPDM		VH	
RV-1PV-9P	PE tube Ø9×Ø12				FKM	FKM	EHN/EWN-B31 C31 • 36 EH-E36 to 46 SK-31 • 32	VC	
RV-1PE-9P					EPDM	EPDM		VH • V6	
RV-1PV-12H	Hose/tube Ø12×Ø18				FKM	FKM	LK-11 to 45 SK-41 • 42	VC	
RV-1PE-12H					EPDM	EPDM		VH	
RV-1PV-12P	Hose/tube Ø12×Ø16				FKM	FKM	SK-41 • 42	VC	
RV-1PE-12P					EPDM	EPDM		VH	
RV-1PV-13E	Hose/tube Ø13×Ø20				FKM	FKM		VC	
RV-1PE-13E					EPDM	EPDM		VH	
RV-3T□-15	JIS10K 15A DIN PN10 DN15 ANSI 150LB1/2 [Note3]	3.0 (180)	0.3 to 1.0 Standard : 0.5	PVDF	PTFE	FKM EPDM	IX-B IX-C060	TC • TE	0.7
RV-3T□-20	JIS10K 20A						IX-C150 IX-D150		0.8
RV-3T□-MS	Hose/tube Ø4×Ø6, Ø4×Ø9		0.3 to 1.7 [Note2] Standard : 0.5				IX-B		0.5
RV-3T□-ML	Hose/tube Ø8×Ø13, Ø9×Ø12								
RV-3T□-R	R1/2								
RV-3T□-N	1/2NPT								
RV-3T□-G	G3/4								
RV-3P-15	JIS10K15A	3.0 (180)	0.3 to 1.0 Standard : 0.5	PVC	PTFE	—	EH-E56 LK-11 to 47, TD-01 to 2 AXJ-L07 to 30	VC • VH V6 • VS	0.6
							IX-B • C060	TC • TE	
RV-3P-20	JIS10K20A	3.0 (180)	0.3 to 1.0 Standard : 0.5	PVC	PTFE	—	EH-E56 AXJ-L07 to 30	VC • VH • V6	0.6
							IX-C150 • D150	TC • TE	
RV-3P-25	JIS10K25A	3.0 (180)	0.3 to 1.0 Standard : 0.5	PVC	PTFE	—	LK-47	VS	0.9
							LK-55 • A55 AXJH-L42 AXK-L30 • 42 AXA-L42	VC • VE	
							IX-D300	TC • TE	
RV-3PV-12H	Hose/tube Ø12×Ø18					FKM	TD-01 to 1 SK-41 • 42	VC	0.4
RV-3PE-12H						EPDM		VE • V6 • VS	
RV-3PV-12P	PE tube Ø12×Ø16					FKM	SK-41 • 42	VC	
RV-3PE-12P						EPDM		VE	
RV-3PV-13E	Hose/tube Ø13×Ø20					FKM		VC	
RV-3PE-13E						EPDM		VE	
RV-7TV-15	JIS10K15A	7.5 (450)	0.3 to 0.8 Standard : 0.5	PVDF	PTFE	FKM	SK, LK-47	TC	5
							IX-B • C060	TC	
RV-7TE-15						EPDM	IX-B • C060	TE	
RV-7V-20	JIS10K20A	7.5 (450)	0.3 to 0.8 Standard : 0.5	PVC	PTFE	—	LK-45 • 47	VC • VH	3.5
RV-7VB-20			0.8 to 1.0 Standard : 1.0						
RV-7V-25	JIS10K25A		0.3 to 0.8 Standard : 0.5				LK-55 • 57, A55 • A57 AXK-L42 • 52 AXK-L68 AXA-L42 • 52 AXB-L52		
RV-7VB-25			0.8 to 1.0 Standard : 1.0				LK-A55		
RV-7TV-25	JIS10K25A	7.5 (450)	0.3 to 0.8 Standard : 0.5	PVDF	PTFE	FKM	LK-55 • 57	TC	5
							IX-D300		
RV-7TE-25						EPDM	IX-D300	TE	
RV-25V-25	JIS10K25A	25 (1,500)	0.3 to 0.8 Standard : 0.5	PVC	PTFE	—	TD-4 to 6 AXK-L68 AXB-L52	VC • V6 • VS	4.0

Model	Connection	Maximum capacity L/min (L/H)	Set pressure MPa (Set pressure symbol : B)	Material			Applicable pump Note	Wet-end material symbol	Mass kg
				Body	Diaphragm	Rubber			
RV-25TV-25	JIS10K25A	25 (1,500)	0.3 to 0.8 Standard : 0.5	PVDF	PTFE	FKM	LK-A65, B65	TC	5
RV-25TE-25						EPDM		TE	
RV-25V-40	JIS10K40A	25 (1,500)	0.3 to 0.8 Standard : 0.5	PVC	PTFE	—	LK-A65 • B65 AXA-L68 • 85 AXB-L68	VC • VE • VSA	4.0
RV-25TV-40	JIS10K40A	25 (1,500)	0.3 to 0.8 Standard : 0.5	PVDF	PTFE	FKM	LK-A65 • B65	TC	5.5
RV-25TE-40						EPDM		TE	
RV-25V-50	JIS10K50A	25 (1,500)	0.3 to 0.8 Standard : 0.5	PVC	PTFE	—	LK-B75 • C76 AXA-L100 AXB-L85	VC • VS4 • VS	4.5
N50RV-5V-F		50 (3,000)	0.15 to 0.5 Standard : 0.5		CR	CR	LK-B75 • C76	VS4 • VS	20
N50RV-5V2-F					FKM	FKM		VC	
N65•50RV-5V-F	JIS10K65A	70 (4,200)			CR	CR	LK-C86 • 87 AXB-L100 • 122	VS4 • VS	
N65•50RV-5V2-F					FKM	FKM		VC	
RV-2S6-15	JIS10 •16K15A	2.0 (120)	0.3 to 0.8 Standard : 0.5 (0.8 to 1.5) (Standard : 1.0)	SUS316 SCS14	PTFE	—	EHN-B11 • 21 C21 • 31 • 36 EH-E31 to 56 LK-11 to 47 TD-01 to 1 AXJ-L07 to 30 IX-B • C060	S6	3.5
RV-2S6B-15									
RV-7S6-20	JIS10 •16K20A	7.5 (450)	0.3 to 0.8 Standard : 0.5 (0.8 to 1.5) (Standard : 1.0)				IX-C150, D150		6
RV-7S6B-20									
RV-7S6-25	JIS10 •16K25A						LK-55 • 57, A55 • 57 AXK-L30 • 42 AXK-L42 • 52 AXK-L68 AXA-L42 • 52 AXB-L52 IX-D300		
RV-7S6B-25									
RV-25S6-25	JIS10K25A	25 (1,500)	0.3 to 0.8 Standard : 0.5 (0.8 to 1.0) (Standard : 1.0)				TD-6 to 8 AXK-L68 AXB-L52		7
RV-25S6B-25							AXB-L52		
RV-25S6-40	JIS10K40A	25 (1,500)	0.3 to 0.8 Standard : 0.5 (0.8 to 1.0) (Standard : 1.0)				LK-A65 • B65 AXA-L68 • 85 AXB-L68		7.5
RV-25S6B-40							AXB-L68		
RV-25S6-50	JIS10K50A						LK-B75 • C76 AXA-L100 AXB-L85	S4 • S6	8.7
N50RV-5S6-F		80 (4,800)	0.15 to 0.5 Standard : 0.5						29
N65RV-5S6-F	JIS10K65A	120 (7,200)					LK-C86 • 87 AXB-L100 • 122		42

Note1: Hose flange is required for use with EHN, EWN, EH-E.
Note2: When connecting a hose, use it at a hose normal pressure or less.
Note3: The flange is a shared product that complies with the standards listed in the table.
* External dimensions are the same as the back pressure valve. See Page 13 for details.

Dimensions in mm

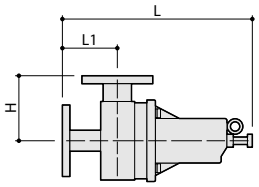
· B(R)V-1P□-15/20
· B(R)V-1P-4H
· B(R)V-1P□-□□
· B(R)V-1TV



Model	L	H
B(R)V-1P□-15	(224)	67
B(R)V-1P□-20	(388)	67
B(R)V-1P-4H	(114)	67
B(R)V-1P□-□□	(114)*	(67)
B(R)V-1TV-15	(224)	67

*B(R)V-1PV/E-4P is (108).

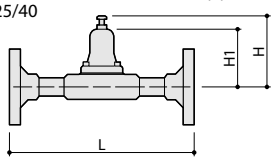
· N50B(R)V-5V□-F/R65·50B(R)V-5V□-F
· N50/65B(R)V-5S6-F



Model	L	L1	H
N50B(R)V-5V□-F/ R65•50B(R)V-5V□-F	(418)	115	140
N50B(R)V-5S□-F	(412)	120	140
N65B(R)V-5S□-F	(516)	134	160

· B(R)V-3P□-15/20/25/12H/12P/13E
· B(R)V-3TV-15/20
· B(R)V-7T□-15/25
· B(R)V-7V□-20/25
· BV-7F-C17/C18
· B(R)V-25V□-25/40/50
· B(R)V-25TV-25/40

· B(R)V-2S6□-15
· BV-2S6-C17/C18
· B(R)V-7S6□-20
· B(R)V-7S6□-25
· B(R)V-25S6□-25/40
· B(R)V-25S6-50



Model	L	H	H1
B(R)V-3P□-15/20/25	234	(89)	(71)
B(R)V-3P□-12H/12P/13E	(124)	(89)	(71)
B(R)V-3T□-15	201	(101)	(73)
B(R)V-3T□-20	219	(101)	(73)
B(R)V-7T□-15	(234)	(184)	(145)
B(R)V-7T/V□-25	234	(184)	(145)
B(R)V-7V□-20	232	(184)	(145)
B(R)V-7F-C17/C18	(179)	(184)	(145)
B(R)V-25V□-25	236	(191)	(153)
B(R)V-25T□-25	256	(193)	(153)
B(R)V-25V□-40	287	(191)	(153)
B(R)V-25T□-40	287	(193)	(153)
B(R)V-25V□-50	600	(191)	(153)

Model	L	H	H1
B(R)V-2S6□-15	158	(172)	(131)
B(R)V-2S6-C17/C18	158	(172)	(131)
B(R)V-7S6□-20/25	208	(196)	(157)
B(R)V-25S6□-25/40	210	(202)	(164)
B(R)V-25S6-50	363	(202)	(164)

• These dimensions apply to both back pressure valves and relief valves.

Dampener

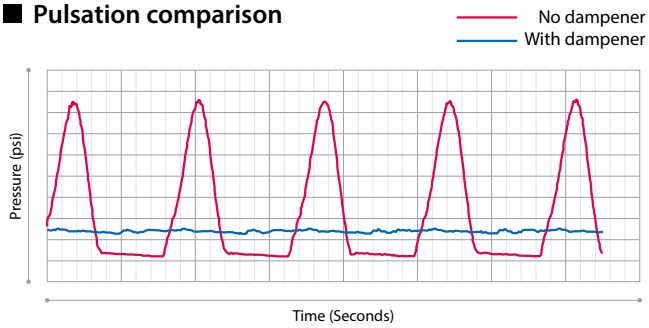
Installed on the discharge side. Reduces pulsation and prevents piping vibration.

Application	Applicable pump	
Pulsation damping	EHN	EH-E
Dampens pipe vibration	EWN	IX-B/C/D

AQ-10T□-□

AQ-85T□-□

Pulsation comparison



Model identification

AQ - 10T V - □
① ② ③ ④

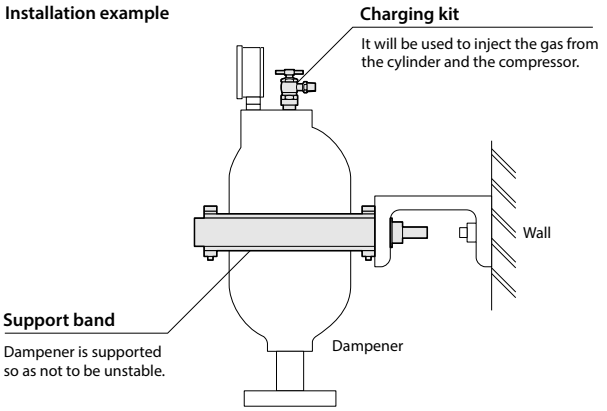
① Series
AQ.....Dampener

② Capacity
10T.....164 ml
85T.....1.4 l

③ Rubber material
V.....FKM
E.....EPDM

④ Connection
None.....Hose/tube connection Ø4×Ø9/Ø4×Ø6
4.....Hose/tube connection Ø8×Ø13
15F.....Flange connection 15A
20F.....Flange connection 20A

Options



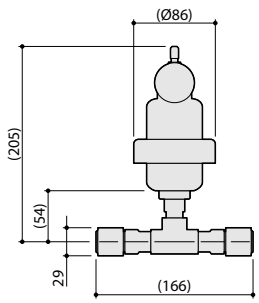
Specifications

Model	Connection	Capacity ml	Pressure range MPa Discharge line, filling gas	Material			Applicable pump	Wet-end material symbol
				Body	Bladder	O-ring		
AQ-10TV	Hose/tube Ø4×Ø9 Ø4×Ø6	164	0.05 to 0.5	PVDF + PVC	FKM	FKM	EHN/EWN-B11・16・21, C16・21 IX-B007・015	VC・TC
AQ-10TE					EPDM	EPDM		VH・TE
AQ-10TV-4	Hose/tube Ø8×Ø13				FKM	FKM	EHN/EWN-B31・C31・36 IX-B030・045 EH-E31・36・46	VC・TC
AQ-10TE-4					EPDM	EPDM		VH・V6・TE
AQ-85TV-15F	Flange JIS10K15A	1,400		PVDF	FKM	FKM	IX-C060	TC
AQ-85TE-15F					EPDM	EPDM		TE
AQ-85TV-20F	Flange JIS10K20A				FKM	FKM	IX-C150・D150	TC
AQ-85TE-20F					EPDM	EPDM		TE

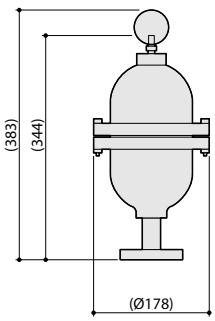
* Please consult with us for other connections for EH-E, which will be custom-made.
*The AQ-85 series is not in standard stock, so please contact us for the delivery date.

Dimensions in mm

· AQ-10T□-□



· AQ-85T□-□



Air chamber

Prevents piping vibration and overfeeding by suppressing the pulsation unique to a reciprocating pump.

Application

- Overfeed prevention
- Siphon prevention
- Dampens pipe vibration

Applicable pump

LK | AX | SK | IX-B/C/D

Model identifications

A - 5 V E - □ □
① ② ③ ④ ⑤ ⑥

① Series
A ..... Air chamber

② Capacity
05 ..... 0.5 L
1 ..... 1.0 L
2 ..... 2.0 L
5 ..... 5.0 L
10 ..... 10 L
20 ..... 20 L
36 ..... 36 L

③ Material
S6 ..... SUS316
V ..... PVC

④ O-ring
V ..... FKM
E ..... EPDM

⑤ Connection
None ..... 15 A•25 A Common flange
10 ..... 10 A flange
15 ..... 15 A flange
20 ..... 20 A flange
25 ..... 25 A flange
40 ..... 40 A flange
50 ..... 50 A flange
65 ..... 65 A flange

⑥ Optional configuration
None ..... JIS10K flange connection
A ..... ANSI flange connection (Material symbol S6 only)
S ..... Non-standard custom-made specifications

N □ A - □ □ □ - F □
① ② ③ ④ ⑤ ⑥

① Type
N ..... N type

② Connection
40 ..... 40 A flange
50 ..... 50 A flange
65 ..... 65 A flange

③ Capacity
10 ..... 10 l
20 ..... 20 l
30 ..... 30 l

④ Material
S6 ..... SUS316
V ..... PVC

⑤ O-ring
None ..... CR
2 ..... FKM

⑥ Optional configuration
None ..... JIS10K flange connection
S ..... Non-standard custom-made specifications

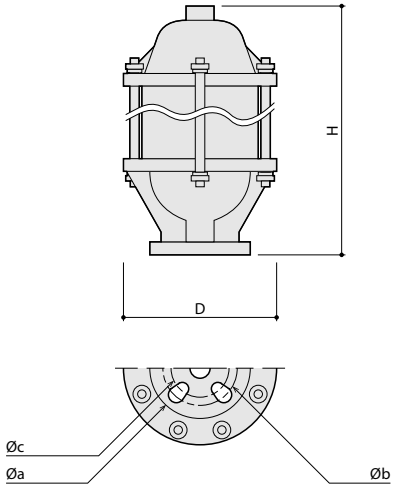
Specifications

Model	Flange connection	Capacity L	Maximum pressure MPa	Material		Applicable pump	Wet-end material symbol	Mass kg
				Body	O-ring			
A-1VV*	JIS10K15 to 25A (common)	1.0	0.5	PVC	FKM	SK, LK-11 to 45 IX-B • C060	VC	2
							TC	
A-1VE*					EPDM	SK, LK-11 to 45 IX-B • C060	VH	
							TE	
A-2VV*		2.0			FKM	LK-47 IX-C150 • D150	VC • TC	2.5
A-2VE*					EPDM		VH • TE	
A-5VV		5.0			FKM	LK-55 • 57 LK-A55 • 57 IX-D300	VC • TC	4.5
A-5VE					EPDM		VH • TE	
N40A-10V-F	JIS10K40A	10			CR	LK-A65 • B65	VH • VS4	16
N40A-10V2-F					FKM		VC	
N50A-20V-F	JIS10K50A	20			CR	LK-B75 • C76	VH • VS4	26
N50A-20V2-F					FKM		VC	
N65A-30V-F	JIS10K65A	30			CR	LK-C86 • 87	VH • VS4	49
N65A-30V2-F					FKM		VC	
A-05TC-15	JIS10K15A equivalent	0.5	0.5	PFA Lining	PTFE	LK-11 • 21 • 22 • 31 • 32	TC	12
A-1TC-15		1.0				LK-45		28
A-1TC-25	JIS10K25A equivalent							20
A-2TC-15	JIS10K15A equivalent	2.0				LK-47		
A-2TC-20	JIS10K20A equivalent							
A-2TC-25	JIS10K25A equivalent					LK-55 • 57 LK-A55 • 57		16
A-3TC-25		3.0						47
A-5TC-25		5.0						50
A-10TC-40	JIS10K40A equivalent	10				LK-A65 • B65		70
A-20TC-50	JIS10K50A equivalent	20				AX		95
A-05S6-10	JIS10K10A	0.5	0.9	SUS316	—	SK, LK-11 • 21 • 22 • 31 • 32 IX-B	S6	3
A-05S6-15	JIS10K15A							
A-05S6-20	JIS10K20A							
A-1S6-15	JIS10K15A	1.5				LK-45 • 47 AX IX-C060 • C150 • D150	S6	5
A-1S6-20	JIS10K20A							
A-1S6-25	JIS10K25A							
A-5S6-25		5.0				LK-A55 • A57 AX IX-D300		12
A-5S6-40	JIS10K40A						S6 • S4	
A-10S6-40		10				LK-A65 • B65 AX	S6 • S4	15
A-10S6-50	JIS10K50A							
A-20S6-50		20				LK-B75 • C76 AX	S6 • S4	29
A-20S6-65	JIS10K65A							
A-36S6-65		36				LK-C86 • C87 AX	S4	55

* Standard bolt is made of SUS.

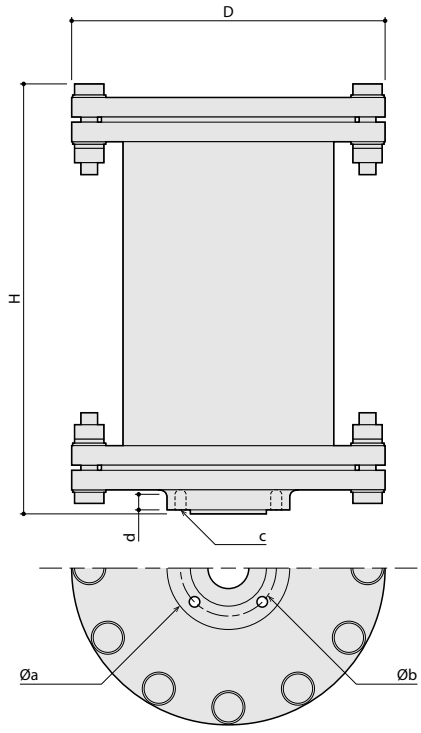
Dimensions in mm

· A-1V ☐
· A-2V ☐
· A-5V ☐



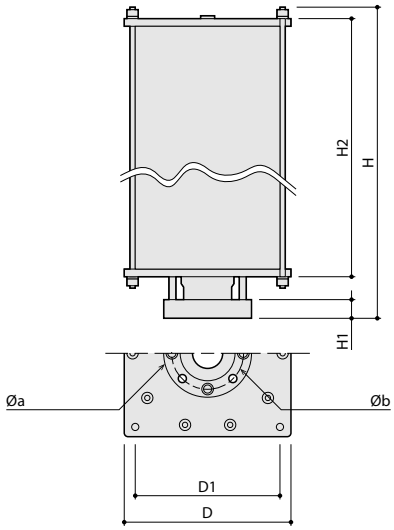
Model	H	D	a	b	c
A-1V☐	(214)	Ø186	Ø125	Ø90	Ø70
A-2V☐	(281)	Ø186	Ø125	Ø90	Ø70
A-5V☐	(526)	Ø186	Ø125	Ø90	Ø70

· A-05TC-15
· A-1TC-15/25
· A-2TC-15/20/25
· A-3TC-25
· A-5TC-25
· A-10TC-40
· A-20TC-50



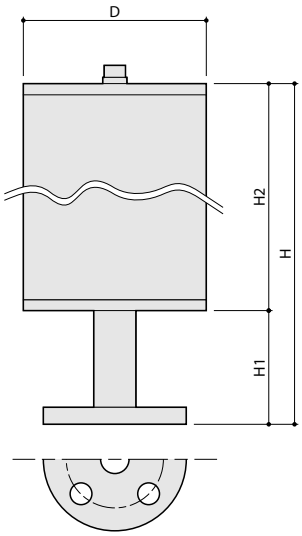
Model	H	D	a	b	c	d
A-05TC-15	(538)	Ø140	Ø95	Ø70	4×M12	16
A-1TC-15	(377)	Ø185	Ø95	Ø70	4×M12	16
A-1TC-25	(324)	Ø185	Ø125	Ø90	4×M12	16
A-2TC-15	(451)	Ø210	Ø95	Ø70	4×M12	16
A-2TC-20	(451)	Ø210	Ø100	Ø75	4×M12	16
A-2TC-25	(398)	Ø210	Ø125	Ø90	4×M16	16
A-3TC-25	(304)	Ø280	Ø125	Ø90	4×M16	16
A-5TC-25	(404)	Ø280	Ø125	Ø90	4×M16	16
A-10TC-40	(507)	Ø330	Ø140	Ø105	4×M16	16
A-20TC-50	(601)	Ø400	Ø155	Ø120	4×M16	20

· N40A-10V☐-F
· N50A-20V☐-F
· N65A-30V☐-F



Model	H	H1	H2	D	D1	a	b
N40A-10V☐-F	(790)	30	698	208	170	140	105
N50A-20V☐-F	(920)	40	818	266	230	155	120
N65A-30V☐-F	(865)	37	766	330	290	Ø175	Ø140

· A-05S6-☐
· A-1S6-☐
· A-5S6-☐
· A-10S6-☐
· A-20S6-☐
· A-36S6-65



Model	H	H1	H2	D
A-05S6-☐	(200)	70	(130)	Ø89.5
A-1S6-☐	(270)	80	(190)	Ø115
A-5S6-☐	(420)	100	(320)	Ø166
A-10S6-☐	(680)	100	(580)	Ø166
A-20S6-☐	(800)	120	(680)	Ø217
A-36S6-65	(680)	130	(550)	Ø319

Flow meter (Pulse output)

Outputs a pulse in direct proportion to the flow rate of treated water to control the pump.

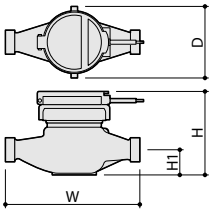
Application

Flow proportional control

Applicable pump

EHN | EH-E | EWN

Dimensions in mm



Model	W	H	H1	D
LNB-13	165	117	34.5	100
LNB-20	190	117	35	100
LNB-25	225	117	35	100

Specifications

Model	Connection diameter	Flow range	Pulse type (L/P)	Applicable pump
LNB-13 RC-A	Thread 13 mm	0.05-2.0 m^3/hr	01: 0.1L/P, 05: 0.5L/P	EHN/EWN-B/C EH-E
LNB-13 RC-B			1: 1L/P, 5: 5L/P, 10: 10L/P, 100: 100L/P, 500: 500L/P	
LNB-13 RC-C			50: 50L/P, 1000: 1m3/P	
LNB-20 RC-A	Thread 20 mm	0.05-2.5 m^3/hr	01: 0.1L/P, 05: 0.5L/P	
LNB-20 RC-B			1: 1L/P, 5: 5L/P, 10: 10L/P, 100: 100L/P, 500: 500L/P	
LNB-20 RC-C			50: 50L/P, 1000: 1m3/P	
LNB-25 RC-A	Thread 25 mm	0.05-3.0 m^3/hr	01: 0.1L/P, 05: 0.5L/P	
LNB-25 RC-B			1: 1L/P, 5: 5L/P, 10: 10L/P, 100: 100L/P, 500: 500L/P	
LNB-25 RC-C			50: 50L/P, 1000: 1m3/P	

Flow counter/Controller

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

Application

Discharge check

Applicable pump

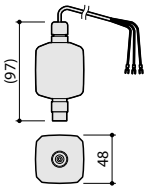
EHN

Flow counter

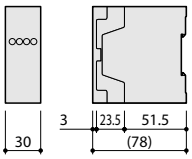
Controller

Dimensions in mm

·Flow counter



·Controller



Model identification (flow counter)

FCP - 1VC
① ②

① Series
FCP .....Flow counter

② Material
1VC.....PVC • FKM
1VE.....PVC • EPDM
1PC.....GFRPP • FKM
1PE.....GFRPP • EPDM

Specifications (flow counter)

Model	Material			Applicable pump	Wet-end material symbol
	Sensor	Body	Rubber		
FCP-1VC	Alumina Ceramics	PVC	FKM	EHN-B11 • 16 • 21, C16 • 21	VC
FCP-1VE			EPDM		VH
FCP-1PC		GFRPP	FKM		PC
PCP-1PE			EPDM		PH

- Power supply voltage: DC12V
- Pulse output pressure range: 0.3-1.0 MPa
- Output method: Open collector (NPN type)

Specifications (controller)

Model	Electrical specifications				Applicable pump	Remarks
	Power supply voltage	Installation method	Output	Alarm time		
S3D2-CK	AC 100-240 V	DIN rail	Relay output (1c)	0.1 to 1 s 1 to 10 s	EHN-B11 • 16 • 21, C16 • 21	Made by Omron

Flow checker

Application	Applicable pump	
Discharge check	EHN	LK
	EH-E	AX

FCM type detects the liquid feeding on the suction side of the electromagnetic metering pump and outputs the liquid feeding status as a pulse. It can calculate the total number of pump shots and detect poor feeding of the liquid. FC type checks the discharge by detecting the move of the float inside the piping.

FCM-VC-2

FC-15

FC-HV-MS

Model identifications

FCM type

FCM - VC - 1
① ② ③

① Series
FCM ..... Flow checker

② Material
VC ..... PVC • FKM
VE ..... PVC • EPDM

③ Connection
1 ..... Ø4×Ø9
2 ..... Ø4×Ø6

FC type

FC - HV - MS
① ② ③

① Series
FC ..... Flow checker

② Material
None ..... PVC • PTFE
HV ..... PVC • FKM
HE ..... PVC • EPDM

③ Connection
15 ..... Flange connection JIS10K15AFF
15A ..... Flange connection ANSI 150LB 1/2FF
20 ..... Flange connection JIS10K20AFF
25 ..... Flange connection JIS10K25AFF
25A ..... Flange connection ANSI 150LB 1FF
4H ..... Hose/tube connection Ø4×Ø9
8H ..... Hose/tube connection Ø8×Ø13
12H ..... Hose/tube connection Ø12×Ø18
MS ..... Hose/tube connection Ø4×Ø9/Ø4×Ø6
ML ..... Hose/tube connection Ø8×Ø13/Ø9×Ø12

Specifications

FCM type

Model	Hose/tube connection	Material		Applicable pump	Wet-end material symbol
		Body	Rubber		
FCM-VC-1	Ø4×Ø9	PVC	FKM	EHN-B11 • 16 • 21, C16 • 21	VC
FCM-VE-1			EPDM		VH
FCM-VC-2	Ø4×Ø6		FKM		VC
FCM-VE-2			EPDM		VH

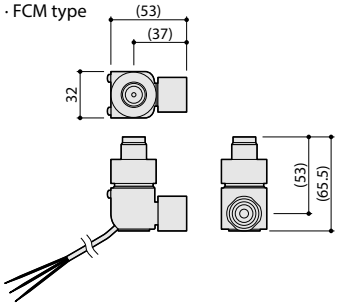
- Power supply voltage: DC 5-24 V
- Output method: Open collector (NPN type)
- Operating pressure range: 0.2 MPa or more (upper limit depends on the specifications of the applicable pump)
- Operating flow rate range: 0.1 ml/shot or more (upper limit depends on the specifications of the applicable pump)

FC type

Model	Connection	Capacity L/min	Maximum pressure MPa	Material	Applicable pump	Wet-end material symbol
FC-15	Flange JIS10K15AFF	0.01 to 2.00	0.5	Valve case, Stopper, Flange PVC Valve PTFE	LK-11 • 21 • 22 31 • 32 • 45 AXJ-07 to 30 LK-47	VC • VH
FC-15A	Flange ANSI 150LB 1/2FF					
FC-20	Flange JIS10K20AFF				AXJ-07 to 30	VC • VH
FC-25	Flange JIS10K25AFF	0.5 to 10.0			LK-55 • 57 LK-A55 • 57 AXJ-42 AXK-30 to 68 AXA-42 • 52	VC • VH
FC-25A	Flange ANSI 150LB 1FF					
FC-4H	Hose/tube Ø4×Ø9	0.01 to 0.20			EHN-B11 • 16 • 21, C16 • 21 LK-11 • 21 • 22	VC • VH
FC-8H	Hose/tube Ø8×Ø13	0.01 to 1.00			EHN-B31 • C31 • 36 EH-E31 • 36 • 46	VC • VH • V6
FC-12H	Hose/tube Ø12×Ø18	0.01 to 2.00			LK-31 • 32 • 45 • 47	VC • VH
FC-H(V/E)-MS	Hose/tube Ø4×Ø9/Ø4×Ø6	0.01 to 0.20	0.9	Body: PVC O ring HV: FKM HE: EPDM	EHN-B11 • 16 • 21, C16 • 21 LK-11 • 21 • 22	VC • VH
FC-H(V/E)-ML	Hose/tube Ø8×Ø13/Ø9×Ø12	0.01 to 2.00			EHN-B31 • C31 • 36 EH-E31 • 36 • 46 LK-31 • 32 • 45 • 47	VC • VH • V6

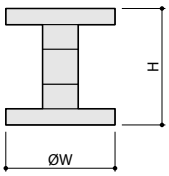
Dimensions in mm

· FCM type



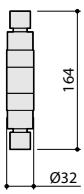
· FC type

· FC-15/15A/20/25/25A

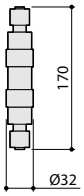


Model	W	H
FC-15	95	100
FC-15A		
FC-20	100	114
FC-25	125	125
FC-25A		

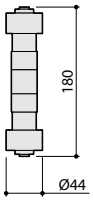
· FC-4



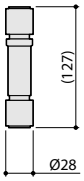
· FC-8H



· FC-12H



· FC-H(V/E)-□



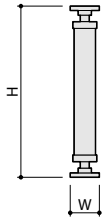
Measuring cylinder for calibration

Application: Discharge check

Applicable pump: IX-B/C/D

Used to calibrate the discharge rate of the pump. Installed on the suction side to measure the suction amount.

Dimensions in mm



Model	H	W
CC-PVC-500-FD	419	89
CC-PVC-1000-FD	521	89
CC-PVC-2000-FD	635	108
CC-PVC-4000-FD	686	108

Model identification

CC - PVC - 500 - FD
① ② ③ ④

① Series
CC.....Measuring cylinder for calibration

② Material
PVC.....PVC

③ Capacity
500.....500 mL
1,000.....1,000 mL
2,000.....2,000 mL
4,000.....4,000 mL

④ Connection
FD.....DIN standard flange

Specifications

Model	Connection	Capacity mL	Material	Applicable pump	Wet-end material symbol
CC-PVC-500-FD	DIN15	500	PVC	IX-B	TC • TE
CC-PVC-1000-FD	DIN15	1,000		IX-C060	TC • TE
CC-PVC-2000-FD	DIN20	2,000		IX-C/D150	TC • TE
CC-PVC-4000-FD	DIN25	4,000		IX-D300	TC • TE

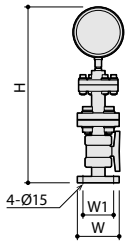
Pressure gauge set

Application: Pressure check

Applicable pump: EHN, SK, EH-E, AX, LK, IX-B/C/D, TD

A convenient unit that combines a pressure gauge and a stop valve. Necessary to check the discharge pressure and control air supply to the air chamber. PVC type and SUS type are available.

Dimensions in mm



Type	H	W	W1
PVC type **Ball valve type**	(406)	Ø95	Ø70
PVC type **Diaphragm valve type**	(373)	Ø95	Ø70
SUS316 type	(413)	Ø95	Ø70

Specifications

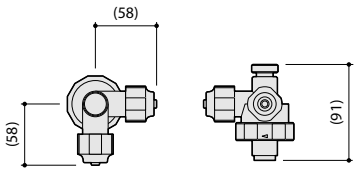
Type	Line up	Connection diameter	Maximum pressure MPa	Material		
				Valve	Diaphragm	Sealing material
PVC type	0.3 MPa ×Ø100 ×15A	Flange Connection 15 A	0.3	PVC	PTFE	FKM (ball valve FKM type) EPDM (ball valve EPDM type) PTFE (diaphragm valve type)
	0.5 MPa ×Ø100 ×15A		0.5			
	0.6 MPa ×Ø100 ×15A		0.6			
	1.0 MPa ×Ø100 ×15A		1.0			
SUS316 type	0.3 MPa ×Ø100 ×15A		0.3	SUS316	PTFE	PTFE
	0.5 MPa ×Ø100 ×15A		0.5			
	0.6 MPa ×Ø100 ×15A		0.6			
	1.0 MPa ×Ø100 ×15A		1.0			

Air vent valve unit

Application	Applicable pump
Gas lock prevention	EH-E

A valve unit for venting gas when transferring a liquid like sodium hypochlorite which easily generates gas.

Dimensions in mm



Specifications

Model	Hose/Tube connection	Material		Applicable pump	Wet-end material symbol
		Body	Rubber		
AV-E30/35VC-4	Ø8×Ø13	PVC	FKM	EH-E31 • 36	VC
AV-E30/35V6-4			EPDM		V6
AV-E30/35PC-4		GFRPP	FKM		PC
AV-E45VC-4		PVC		EH-E46	VC
AV-E45V6-4			EPDM		V6
AV-E45PC-4		GFRPP	FKM		PC
AV-E55VC-11	Ø10×Ø16	PVC		EH-E56	VC • VM
AV-E55V6-11			EPDM		V6
AV-E55PC-11		GFRPP	FKM		PC

Degassing joint

Application	Applicable pump	
Gas lock prevention	EHN	LK
	EWN	SK

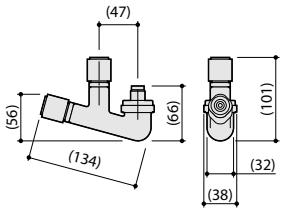
Attached to the suction side of the pump to prevent mixing of gas when transferring a liquid like sodium hypochlorite which easily generates gas.

DG-VC/VH

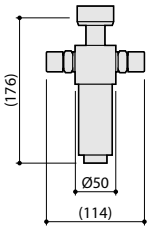
AJ-V4

Dimensions in mm

· DG-VC/VH



· AJ-V4



Specifications

Model	Hose/Tube connection		Material		Applicable pump	Wet-end material symbol
	Joint inlet	Gas vent	Body	Rubber		
DG-VC	Ø4×Ø6	Ø8×Ø13	PVC	FKM	EHN/EWN-B11 • 16 • 21, C16 • 21	VC
	Ø4×Ø9					
DG-VH	Ø4×Ø6			EPDM		VH
	Ø4×Ø9					
AJ-V4	Ø4×Ø9	Ø4×Ø9	PVC	FKM	SK, LK-11 • 21 • 22	VC

Hose flange

An adapter to connect the pump hose/tube to the flange piping.
It comes with or without a check valve.

Application

Piping connection

Applicable pump

EHN | LK | EWN | SK | EH-E

Threaded type with check valve

Threaded type

Bonded type

Non-multi tube connection type

■ Specifications

Model	Connection		Material			Applicable pump	Wet-end material symbol
	Hose/Tube	Flange	Body	Rubber	Check valve model		
15FX4	Ø4×Ø9	JIS10K15AFF	PVC	—	—	EHN/EWN-B11 • 16 • 21, C16 • 21 LK-11 • 22	VC • VH
15FX8	Ø8×Ø13					EHN/EWN-B31, C31 • 36 EH-E31 • 36 • 46	VC • VH • V6
15FBX11	Ø10×Ø16					IX-B	VC
15FCAN-1VC-M	Ø4×Ø9* Ø4×Ø6	JIS10K15AFF	PVC	FKM	CAN-1VC	EHN/EWN-B11 • 16 • 21, C16 • 21	VC
15FCAN-1VE-M				EPDM	CAN-1VE		VH
15FCAN-2VC-M	Ø8×Ø13* Ø9×Ø12			FKM	CAN-2VC	EHN/EWN-C31	VC
15FCAN-2VE-M				EPDM	CAN-2VE		VH
15FVNXMS	Ø4×Ø9* Ø4×Ø6	JIS10K15AFF	PVC	FKM	—	EHN/EWN-B11 • 16 • 21, C16 • 21	VC
15FENXMS				EPDM			VH
15FVNBXMS				PVC/FKM			VC
15FENBXMS				PVC/EPDM			VH
15FVNXML	Ø8×Ø13* Ø9×Ø12			FKM		EHN/EWN-B31, C31 • 36	VC
15FENXML				EPDM			VH
15FVNBXML				FKM		EH-E31 • 36 • 46	VC • VM
15FENBXML				EPDM			V6
15HFVX8	Ø8×Ø13.5 Ø8×Ø14			FKM		SK	VC/VH
15HFEX8				EPDM			
15HFVX9P	Ø9×Ø12			FKM			
15HFEX9P				EPDM			
15HFVX10H	Ø10×Ø16			FKM		EH-E56	VC • VM
15HFEX10H				EPDM			V6
15HF×12	Ø12×Ø18			—		LK-31 • 32 • 45 • 47 TD-01 to 1	VC • VH • V6
20F×4	Ø4×Ø9	JIS10K20AFF	PVC	—	—	EHN/EWN-B11 • 16 • 21, C16 • 21 LK-11 • 22	VC • VH
20F×8	Ø8×Ø13					EHN/EWN-B31, C31 • 36 EH-E31 • 36 • 46	VC • V6
20FCAN-1VC-M	Ø4×Ø9* Ø4×Ø6	JIS10K20AFF	PVC	FKM	CAN-1VC	EHN/EWN-B11 • 16 • 21, C16 • 21	VC
20FCAN-1VE-M				EPDM	CAN-1VE		VH
20FCAN-2VC-M	Ø8×Ø13* Ø9×Ø12			FKM	CAN-2VC	EHN/EWN-C31	VC
20FCAN-2VE-M				EPDM	CAN-2VE		VH
20FVNXMS	Ø4×Ø9* Ø4×Ø6	JIS10K20AFF	PVC	FKM	—	EHN/EWN-B11 • 16 • 21, C16 • 21	VC
20FENXMS				EPDM			VH
20FVNBXMS				PVC/FKM			VC
20FENBXMS				PVC/EPDM			VH
20FVNXML	Ø8×Ø13* Ø9×Ø12			FKM		EHN/EWN-B31, C31 • 36	VC
20FENXML				EPDM			VH
20FVNBXML				PVC/FKM		EH-E31 • 36 • 46	VC
20FENBXML				PVC/EPDM			V6
25FVNXMS	Ø4×Ø9* Ø4×Ø6	JIS10K25AFF	PVC	FKM	—	EHN/EWN-B11 • 16 • 21, C16 • 21	VC
25FENXMS				EPDM			VH
25FVNBXMS				PVC/FKM			VC
25FENBXMS				PVC/EPDM			VH
25FVNXML	Ø8×Ø13* Ø9×Ø12			FKM		EHN/EWN-B31, C31 • 36	VC
25FENXML				EPDM			VH
25FVNBXML				PVC/FKM		EH-E31 • 36 • 46	VC
25FENBXML				PVC/EPDM			V6

* Applicable hose diameter can be switched. Refer to "Connection diameter of multi-hose/tube" on page 34 for details.

■ Model identifications

No check valve type

15F VN B X MS
① ② ③ ④

① Flange nominal diameter
15F/15HF.....JIS10K15AFF
20F.....JIS10K20AFF
25F.....JIS10K25AFF

② Material
None.....PVC
VN/V.....PVC • FKM
EN/E.....PVC • EPDM

③ Flange shape
None.....Screw-in type
B.....Bonded type (TS)

④ Hose/Tube size (in mm)
4.....Ø4×Ø9[Note2]
8.....Ø8×Ø13[Note1.2]
9P.....Ø9×Ø12[Note2]
10H/11.....Ø10×Ø16[Note2]
12.....Ø12×Ø18[Note2]
MS.....Ø4×Ø9 / Ø4×Ø6[Note3]
ML.....Ø8×Ø13 Ø9×Ø12[Note3]

Note1 : The hose/tube connection size is slightly different depending on the model. Please refer to the specifications for details.
Note2 : Non-multi tube connection type
Note3 : Multi-tube connection type

Type with check valve

15F CAN - 1VC - M
① ② ③

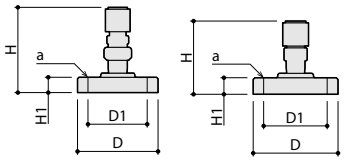
① Flange nominal diameter
15F/15HF.....JIS10K15AFF
20F.....JIS10K20AFF
25F.....JIS10K25AFF

② Check valve model
CAN-1VC.....Small flow rate PVC • FKM
CAN-1VE.....Small flow rate PVC • EPDM
CAN-2VC.....Medium flow rate PVC • FKM
CAN-2VE.....Medium flow rate PVC • EPDM

③ Hose/Tube size (in mm)
M*.....Ø4×Ø9, Ø4×Ø6
Ø8×Ø13, Ø9×Ø12

* The connectable hose/tube size differs depending on the check valve model symbol. Please refer to the specifications for details.

Dimensions in mm



Model	H	H1	D	D1	a
15FX□	(58)	18	Ø95	Ø70	4×Ø15
15FBX□	(74)	14	Ø95	Ø70	4×Ø15
15FCAN-□V□-□	(100)	18	Ø95	Ø70	4×Ø15
15F□NX□	(81)	18	Ø95	Ø70	4×Ø15
15F□NBX□	(72)	14	Ø95	Ø70	4×Ø15
15HF□X□	(74)	14	Ø95	Ø70	4×Ø15
20Fx□	(81)	18	Ø100	Ø75	4×Ø15
20FCAN-□	(100)	18	Ø100	Ø75	4×Ø15
20F□NX□	(81)	18	Ø100	Ø75	4×Ø15
20F□NBX□	(77)	15	Ø100	Ø75	4×Ø15
25F□NX□	(83)	20	Ø125	Ø90	4×Ø19
25F□NBX□	(83)	15	Ø125	Ø90	4×Ø19

T-joint

Used to branch off hose/tube piping.

Application
Piping connection

Applicable pump
EHN | EH-E | EWN | LK

TJ

TJN

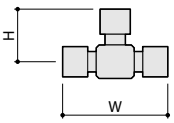
■ Specifications

Model	Hose/Tube connection	Material	Applicable pump	Wet-end material symbol
		Body		
TJ-4H	Ø4×Ø9	PVC	EHN/EWN-B11 • 16 • 21, C16 • 21 LK-11 • 21 • 22	VC • VH • V6
TJ-8H	Ø8×Ø13		EHN/EWN-B31 • C31 • 36 EH-E31 • 36 • 46	
TJ-12H	Ø12×Ø18		LK-31 • 32 • 45 • 47	
TJN*	Ø4×Ø6, Ø4×Ø9, Ø5×Ø8, Ø6×Ø8, Ø6×Ø11, Ø6×Ø12, Ø8×Ø13, Ø9×Ø12, Ø10×Ø12, Ø1/4×Ø3/8, Ø3/8×Ø1/2	PVC	EHN/EWN- B11 • 16 • 21 • 31, C16 • 21 • 31 • 36	VC • VH

* The hose/tube connection set is not included and it has to be provided separately.
Please select 3 sets of the required size from the table above.

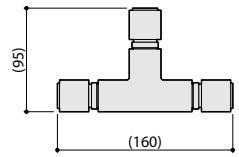
Dimensions in mm

· TJ-4H/8H/12H



Model	W	H
TJ-4H	(84)	(42)
TJ-8H	(90)	(45)
TJ-12H	(120)	(60)

· TJN



Union connector

Application	Applicable pump
Piping connection	EHN
	EWN

Used when the existing hose/tube piping has a different diameter from the pump hose. Can be also used to extend a hose/tube in case of the same diameter.

Model identification

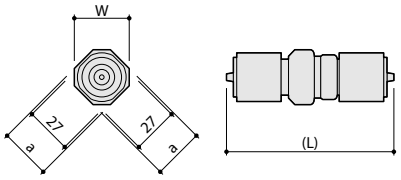
HJ	VN	-	1/2
①	②		③

① Series
HJ ..... Different diameter connector

② Material
VN ..... PVC • FKM
EN ..... PVC • EPDM

③ Hose/Tube size (in mm)
1/1 ..... IN Ø4×Ø9, OUT Ø4×Ø9
1/2 ..... IN Ø4×Ø9, OUT Ø4×Ø6
1/18 ..... IN Ø4×Ø9, OUT Ø6×Ø11
2/2 ..... IN Ø4×Ø6, OUT Ø4×Ø6
2/3 ..... IN Ø4×Ø6, OUT Ø6×Ø8
4/4 ..... IN Ø8×Ø13, OUT Ø8×Ø13
4/5 ..... IN Ø8×Ø13, OUT Ø9×Ø12
5/5 ..... IN Ø9×Ø12, OUT Ø9×Ø12
MS ..... Refer to the following specifications
ML ..... Refer to the following specifications

Dimensions in mm



Connection	W	L	a
HJ(V/E)N-1/1, 1/2, 1/18, 2/2, 2/3, 4/5, 5/5	32	99	30
HJ(V/E)N-MS	32	91	30
HJ(V/E)N-ML	38	97	36

Specifications

Model	Hose/Tube connection		Material		Applicable pump	Wet-end material symbol
	IN	OUT	Body	O-ring		
HJVN-1/1	Ø4×Ø9	Ø4×Ø9	PVC	FKM	EHN/EWN-B11 • 16 • 21, C16 • 21	VC
HJEN-1/1				EPDM		VH
HJVN-1/2	Ø4×Ø9	Ø4×Ø6		FKM		VC
HJEN-1/2				EPDM		VH
HJVN-1/18	Ø4×Ø9	Ø6×Ø11		FKM		VC
HJEN-1/18				EPDM		VH
HJVN-2/2	Ø4×Ø6	Ø4×Ø6		FKM		VC
HJEN-2/2				EPDM		VH
HJVN-2/3	Ø4×Ø6	Ø6×Ø8		FKM		VC
HJEN-2/3				EPDM		VH
HJVN-MS*	Ø4×Ø6, Ø4×Ø9, Ø6×Ø8, Ø6×Ø11, Ø6×Ø12, Ø5×Ø8, Ø1/4×Ø3/8			FKM		VC
HJEN-MS*				EPDM		VH
HJVN-4/4	Ø8×Ø13	Ø8×Ø13		FKM	EHN/EWN-B31, C31 • 36	VC
HJEN-4/4				EPDM		VH
HJVN-4/5	Ø8×Ø13	Ø9×Ø12		FKM		VC
HJEN-4/5				EPDM		VH
HJVN-5/5	Ø9×Ø12	Ø9×Ø12		FKM		VC
HJEN-5/5				EPDM		VH
HJVN-ML*	Ø6×Ø12, Ø8×Ø13(13.5), Ø9×Ø12, Ø10×Ø12, Ø3/8×Ø1/2			FKM		VC
HJEN-ML*				EPDM		VH

* The hose/tube connection set is not included. It has to be provided separately. Please select 2 sets of the required size from the table above.

Hose coupler

Application	Applicable pump
Piping connection	EHN
	EWN

Connects the pump hose/tube to PVC piping securely.

For thread connection

For VP pipe connection

■ Model identification

V 4 VN - 13 - M
① ② ③ ④ ⑤

① Series
V.....Hose coupler

② Hose/Tube size (in mm)
4.....Ø4×Ø9 / Ø4×Ø6
8.....Ø8×Ø13 / Ø9×Ø12

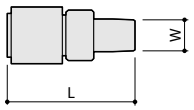
③ Material
VN.....PVC • FKM
EN.....PVC • EPDM

④ Piping
3/8.....R3/8
1/2.....R1/2
13.....VP13
16.....VP16
20.....VP20

⑤ Coupler
M.....Hose/Tube size (in mm) 4
Ø4×Ø9 / Ø4×Ø6
Hose/Tube size (in mm) 8
Ø8×Ø13 / Ø9×Ø12

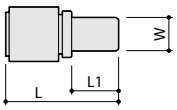
Dimensions in mm

·For thread connection



Connection	W	L
R3/8	R3/8	(67)
R1/2	R1/2	(67)

· For VP pipe connection



Connection	W	L	L1
VP13	VP13	(62)	26
VP16	VP16	(66)	30
VP20	VP20	(71)	35

■ Specifications

Model	Connection		Material		Applicable pump	Wet-end material symbol
	Hose/Tube	Screw	Body	O-ring		
V4VN-3/8-M	Ø4×Ø9* Ø4×Ø6	R3/8	PVC	FKM	EHN/EWN-B11 • 16 • 21, C16 • 21	VC
V4EN-3/8-M				EPDM		VH
V4VN-1/2-M		R1/2		FKM		VC
V4EN-1/2-M				EPDM		VH
V8VN-3/8-M	Ø8×Ø13* Ø9×Ø12	R3/8		FKM	EHN/EWN-B31, C31 • 36	VC
V8EN-3/8-M				EPDM		VH
V8VN-1/2-M		R1/2		FKM		VC
V8EN-1/2-M				EPDM		VH

For VP pipe connection

Model	Connection		Material		Applicable pump	Wet-end material symbol
	Hose/Tube	VP pipe	Body	O-ring		
V4VN-13-M	Ø4×Ø9* Ø4×Ø6	VP13	PVC	FKM	EHN/EWN-B11 • 16 • 21, C16 • 21	VC
V4EN-13-M				EPDM		VH
V4VN-16-M		VP16		FKM		VC
V4EN-16-M				EPDM		VH
V4VN-20-M		VP20		FKM		VC
V4EN-20-M				EPDM		VH
V8VN-13-M	Ø8×Ø13* Ø9×Ø12	VP13		FKM	EHN/EWN-B31, C31 • 36	VC
V8EN-13-M				EPDM		VH
V8VN-16-M		VP16		FKM		VC
V8EN-16-M				EPDM		VH
V8VN-20-M		VP20		FKM		VC
V8EN-20-M				EPDM		VH

* Applicable hose/tube diameter can be switched.
Refer to "Connection Diameter of the Multi-hose/tube connection" on page 34 for details.

Strainer

Attached at the end of the suction hose. Prevents foreign matter from entering the pump chamber.

Application
Contamination prevention

Applicable pump
EHN | LK
EWN | SK
EH-E

■ Model identification

S - V 4H
① ② ③

① Series
S.....Strainer

② Material
V.....PVC

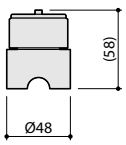
③ Hose/Tube size (in mm)
4H.....Ø4×Ø9
8H.....Ø8×Ø13
10H.....Ø10×Ø16
12H.....Ø12×Ø18
12P.....PE tube Ø12×Ø16
13E.....PVC tube Ø13×Ø20

■ Specifications

Model	Connection	Material		Applicable pump	Wet-end material symbol
		Body	Strainer		
S-V4H	Hose/Tube Ø4×Ø9	PVC	ETFE	EHN/EWN-B11 • 16 • 21, C16 • 21 LK-11 • 21 • 22	VC • VH • VS
S-V8H	Hose/Tube Ø8×Ø13.5 Ø8×Ø14			SK-31 • 32	
S-V8H (8×13)	Hose/Tube Ø8×Ø13			EHN/EWN-B31, C31 • 36 EH-E31 • 36 • 46	VC • VH • V6
S-V10H	Hose/Tube Ø10×Ø16			EH-E56	VC • V6
S-V12H	Hose/Tube Ø12×Ø18			LK-31 • 32 • 45 • 47	VC • VH • VS
S-V12P	PE tube connection Ø12×Ø16			SK-31 • 32	
S-V13E	PVC tube connection Ø13×Ø20			SK-31 • 32	

* Mesh size: #40

Dimensions in mm



Strainer with foot valve

Attached at the end of the suction hose. Prevents foreign matter from entering the pump chamber and water level fall in the suction hose/tube when the pump is stopped.

Application

Contamination prevention

Applicable pump

EHN | IX-B | EWN

Model identification

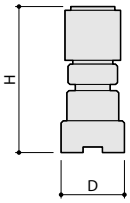
FS VN - 1
① ② ③

① Series
FS.....Strainer with a foot valve

② Material
VN.....PVC • Alumina ceramics • FKM
EN.....PVC • Hastelloy C276 • EPDM
PVN.....GFRPP • Alumina Ceramics • FKM
PEN.....GFRPP • Hastelloy C276 • EPDM
TCN.....PVDF • Alumina Ceramics • FKM

③ Hose/Tube size (in mm)
MS.....Ø4×Ø9, Ø4×Ø6
ML.....Ø8×Ø13, Ø9×Ø12
1.....Ø4×Ø9
2.....Ø4×Ø6
3.....Ø6×Ø8
4.....Ø8×Ø13
5.....Ø9×Ø12

Dimensions in mm



Model	D	H
FSVN/FSEN/FSPVN/FSPEN-1, 2, 3, MS	Ø33*	(78)
FSVN/FSEN/FSPVN/FSPEN-4, 5, ML		(86)

*FSTCN type is Ø32

Specifications

Model	Hose/Tube size (in mm)	Material				Applicable pump	Wet-end material symbol
		Body	Strainer	Valve	Rubber		
FSVN-1	Ø4×Ø9	PVC	Fluoro resin (ETFE)	Alumina Ceramics	FKM	EHN/EWN-B11 • 16 • 21, C16 • 21	VC
FSVN-2	Ø4×Ø6					EHN/EWN-B11 • 16 • 21, C16 • 21 IX-B007 • 015	TC
FSVN-3	Ø6×Ø8					EHN/EWN-B11 • 16 • 21, C16 • 21	VC
FSVN-4	Ø8×Ø13					EHN/EWN-B31, C31 • C36 IX-B030 • 045	
FSVN-5	Ø9×Ø12						TC
FSEN-1	Ø4×Ø9			Hastelloy C276	EPDM	EHN/EWN-B11 • 16 • 21, EHN-C16 • 21	VH
FSEN-2	Ø4×Ø6					IX-B030 • 045	TE
FSEN-3	Ø6×Ø8					EHN/EWN-B11 • 16 • 21, C16 • 21	VH
FSEN-4	Ø8×Ø13					EHN/EWN-B31, C31 • C36 IX-B030 • 045	
FSEN-5	Ø9×Ø12						TE
FSPVN-1	Ø4×Ø9	GFRPP	Fluoro resin (ETFE)	Alumina Ceramics	FKM	EHN/EWN-B11 • 16 • 21, C16 • 21	PC
FSPVN-2	Ø4×Ø6						
FSPVN-3	Ø6×Ø8						
FSPVN-4	Ø8×Ø13					EHN/EWN-B31, C31 • C36	
FSPVN-5	Ø9×Ø12						
FSPEN-1	Ø4×Ø9			Hastelloy C276	EPDM	EHN/EWN-B11 • 16 • 21, C16 • 21	PH
FSPEN-2	Ø4×Ø6						
FSPEN-3	Ø6×Ø8						
FSPEN-4	Ø8×Ø13					EHN/EWN-B31, C31 • C36	
FSPEN-5	Ø9×Ø12						
FSTCN-2	Ø4×Ø6	PVDF	Fluoro resin (ETFE)	Alumina Ceramics	FKM	EHN-B11 • 21,C21	FC
						IX-B007 • 015	TC
FSTCN-6	Ø10×Ø12					EHN-C31 • 36	FC
						IX-B030 • 045	TC

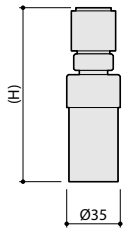
* Mesh size: #20

Foot valve with strainer

Attached at the end of the suction hose/tube. Prevents foreign matter from entering the pump chamber and water level fall in the suction hose/tube when the pump is stopped.

Application	Applicable pump
Contamination prevention	EHN
	EWN

Dimensions in mm



Model	H
FSCN-1, 2, 3, MS	116
FSCN-4, 5, ML	119

Model identification

FSCN - 1
① ②

① Series
FSCN .....Foot valve with strainer

② Hose/Tube size (in mm)
MS.....Ø4×Ø9, Ø4×Ø6
ML.....Ø8×Ø13, Ø9×Ø12
1.....Ø4×Ø9
2.....Ø4×Ø6
3.....Ø6×Ø8
4.....Ø8×Ø13
5.....Ø9×Ø12

Specifications

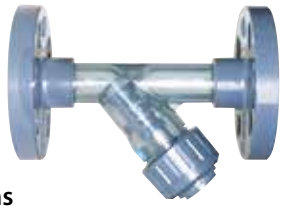
Model	Hose/Tube size (in mm)	Material				Applicable pump	Wet-end material symbol
		Body	Strainer	Valve ball	Rubber		
FSCN-1	Ø4×Ø9	PVC	PE	Alumina Ceramics	FKM	EHN/EWN-B11 • 16 • 21, C16 • 21	VC
FSCN-2	Ø4×Ø6						
FSCN-3	Ø6×Ø8						
FSCN-4	Ø8×Ø13					EHN/EWN-B31, C31 • C36	
FSCN-5	Ø9×Ø12						

* Mesh size: #150

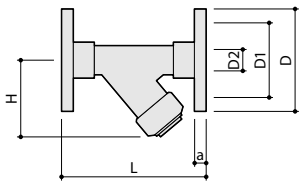
Y-type strainer (Mesh size #40)

Installed in the suction piping to prevent dirt and foreign matter from entering the pump chamber. PVC type and SUS type are available.

Application	Applicable pump
Contamination prevention	LK
	AX
	IX-B/C/D



Dimensions in mm



Type	L	H	D	D1	D2	a
PVC type	(150)	71	Ø95	Ø70	Ø15	14
	(177)	81	Ø125	Ø90	Ø25	14
SUS type	120	58	Ø95	Ø70	Ø15	10
	130	66	Ø100	Ø75	Ø20	10
	150	78	Ø125	Ø90	Ø25	12

Specifications

Type	Line up	Flange connection	Material		Applicable pump	Wet-end material symbol
			Body	Sealing material		
PVC type FKM	15 A, FKM	15 A	PVC	FKM	LK-11 to 47	VC
	25 A, FKM	25 A			LK-55 • 57	
PVC type EPDM	15 A, EPDM	15 A		EPDM	LK-11 to 47	VH
	25 A, EPDM	25 A			LK-55 • 57	
SUS type	15 A	15 A	SUS	PTFE	LK-11 to 47	S6
	20 A	20 A				
	25 A	25 A			LK-55 • 57	

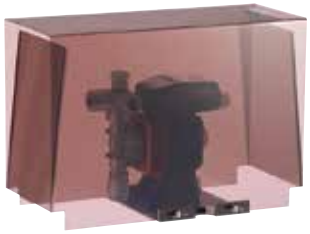
Pump protecting cover

A simple cover to reduce the effect of the liquid and dust and protect the pump from accidental key operation.

Application	Applicable pump
Pump protection	EHN
	EH-E

ODL-1 type

* This installation picture is for illustrative purpose.



ODN-2-F type

Pump is covered entirely by this cover.

* This installation picture is for illustrative purpose.

Model identification

ODN - 2 - F
① ② ③

① Series
ODL .....Simple type
ODN.....Standard type

② Pumpl
1 .....For EHN-B
2 .....For EHN-B•C
3 .....For EH-E

③ Size
None .....As per the pump symbol(②)
F .....Compatible with all sizes (EHN)

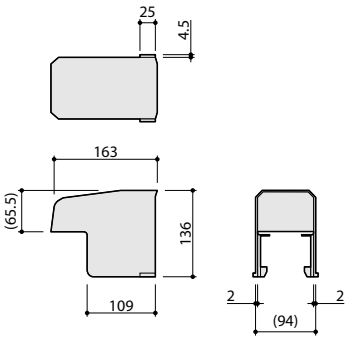
Specifications

Model	Material		Applicable pump	Applicable tank
	Body	Others		
ODL-1	PC	Hook-and-loop fastener Polyester	EHN-B09 • 11 • 16 • 21 • 31	—
ODN-1N[Note 1]	PVC	Screw SUS	EHN-B09 • 11 • 16 • 21 • 31	CT-25 • 50 • 100N[Note 2]
ODN-2-F[Note 1]			EHN-B09 • 11 • 16 • 21 • 31 EHN-C16 • 21 • 31 • 36	
ODN-3			EH-E	—

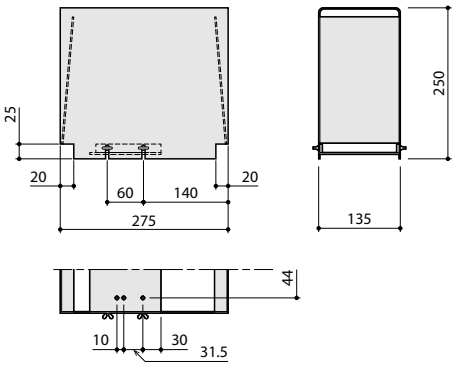
Note 1: Can be also installed on EHN-NAE with FCM. However, cannot be installed on pumps with FCP or DG.
Note 2: When using ODN-2-F in combination with CT-100, a dedicated mount for EHN is required.

Dimensions in mm

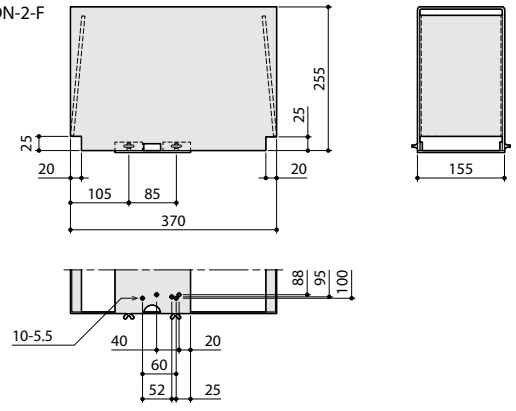
· ODL-1



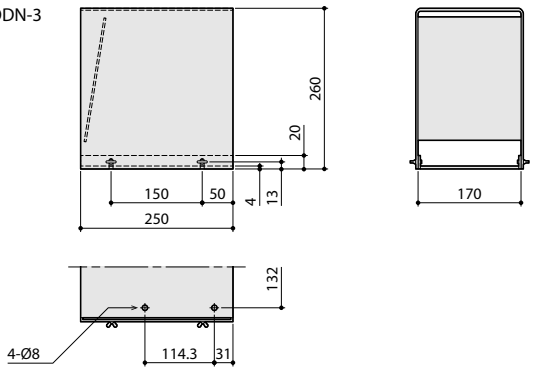
· ODN-1N



· ODN-2-F



· ODN-3



EHN mount

Application: Pump mount

Applicable pump: EHN

This special mount is used to elevate the pump when it is difficult to connect the suction side piping.

EHN-B-M type made of SUS

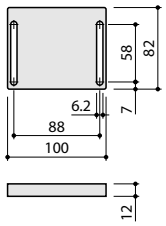
* This installation picture is for illustrative purpose.

■ Specifications

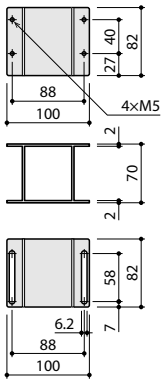
Model	Material	Application	Height	Applicable pump
EHN-B-M	PVC	For replacing existing installation	12 mm	EHN-B
	SUS304		70 mm	
EHN-C-M	PVC		12 mm	EHN-C
	SUS304		70 mm	
EHN-B/C-M	PVC	For new installation	12 mm	EHN-B/C common
	SUS304		70 mm	

Dimensions in mm

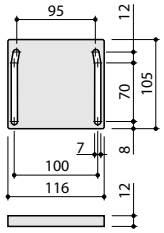
· EHN-B-M (PVC)



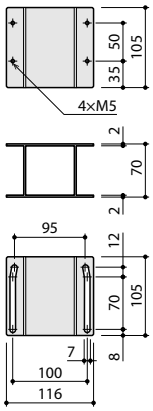
· EHN-B-M (SUS304)



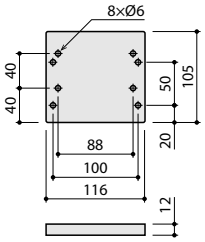
· EHN-C-M (PVC)



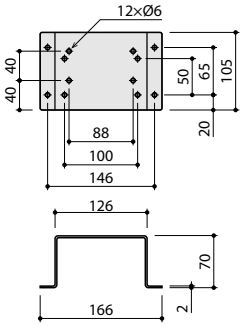
· EHN-C-M (SUS304)



· EHN-B/C-M (PVC)



· EHN-B/C-M (SUS304)



Hose

Used for piping.

Application: Piping

Applicable pump: EHN, EH-E, EWN

Name	Length	Size (in mm)	Wet-end material	Applicable pump
PVC blade hose	5 • 10 • 20 • 50 • 100 m	Ø4×Ø9	PVC	EHN/EWN-B11 • 16 • 21, C16 • 21
		Ø8×Ø13		EHN/EWN-B31, C31 • 36, EH-E31 • 36 • 46
EVA hose		Ø4×Ø9	EVA	EHN/EWN-B11 • 16 • 21, C16 • 21
		Ø8×Ø13		EHN/EWN-B31, C31 • 36, EH-E31 • 36 • 46
PE hose		Ø4×Ø6	PE	EHN/EWN-B11 • 16 • 21, C16 • 21
		Ø9×Ø12		EHN/EWN-B31, C31 • 36, EH-E
Nylon hose		Ø4×Ø6	Nylon	EHN/EWN-B11 • 16 • 21, C16 • 21
		Ø9×Ø12		EHN/EWN-B31, C31 • 36, EH-E
PTFE hose	5 • 10 • 20 • 50 • 100 m	Ø4×Ø6	PTFE	EHN/EWN-B11 • 16 • 21, C16 • 21
	10 • 20 m	Ø9×Ø12		EHN/EWN-B31, C31 • 36, EH-E
	10 m	Ø10×Ø12		EH-E
Multi-ultra hose	5 • 10 • 20 • 50 m	Ø4×Ø9	ETFE	EHN/EWN-B11 • 16 • 21, C16 • 21
		Ø8×Ø13.5		EHN/EWN-B31, C31 • 36, EH-E31 • 36 • 46

Chemical tank CT-U N type

Application
Tank for chemical injection

Applicable pump
EHN
EWN

Made of polyethylene and the pump can be placed below. Does not cause gas lock easily and suitable for chemicals such as sodium hypochlorite and hydrazine which generate decomposition gas.

CT-U25NR

CT-U50VR/ER

CT-U120VR/ER

Options

Cap

Drain valve set
(CT-U50/120VR/ER only)

Mounting kit for installing EHN-B pumps
(CT-U120VR/ER only)

Controller mounting plate
(CT-U120VR/ER only)

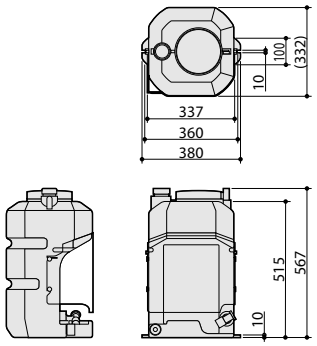
Specifications

Model	Hose/Tube size (in mm)	Capacity L	Material		Level gauge	Applicable pump
			Body	O-ring		
CT-U25NR-1 Note 4	Ø4×Ø9	25	PE	FEPM	Without level gauge	EHN-B09 • 11 • 16 • 21 EWN-B11 • 16 • 21, C16 • 21 Note 4
CT-U25NR-4	Ø8×Ø13					EHN-B31
CT-U50VR-1M	Ø4×Ø9	50		FKM	With level gauge	EHN-B11 • 16 • 21, C16 • 21
CT-U50VR-2M Note 1	Ø4×Ø6					
CT-U50VR-4M Note 2	Ø8×Ø13					EHN-B31, C31 • 36
CT-U50ER-1M	Ø4×Ø9			EPDM		EHN-B11 • 16 • 21, C16 • 21
CT-U50ER-2M Note 1	Ø4×Ø6					
CT-U50ER-4M Note 3	Ø8×Ø13					EHN-B31, C31 • 36
CT-U120VR-1M	Ø4×Ø9	120		FKM		EHN-B11 • 16 • 21, C16 • 21 EWN-B11 • 16 • 21, C16 • 21
CT-U120VR-2M Note 1	Ø4×Ø6					
CT-U120VR-4M Note 2	Ø8×Ø13					EHN-B31, C31 • 36 EWN-B31, C31 • 36
CT-U120ER-1M	Ø4×Ø9			EPDM		EHN-B11 • 16 • 21, C16 • 21 EWN-B11 • 16 • 21, C16 • 21
CT-U120ER-2M Note 1	Ø4×Ø6					
CT-U120ER-4M Note 3	Ø8×Ø13					EHN-B31, C31 • 36 EWN-B31, C31 • 36

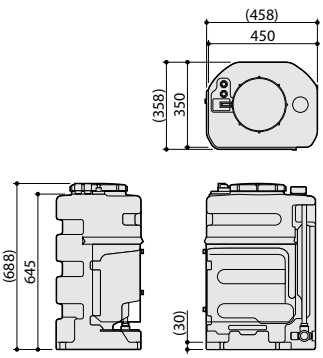
Note 1: CT-U hose set Ø4×Ø6 attached
Note 2: CT-U hose set Ø8×Ø13VR attached
Note 3: CT-U hose set Ø8×Ø13ER attached
Note 4: Please contact us if you install the EWN series, for the dedicated base is required.

Dimensions in mm

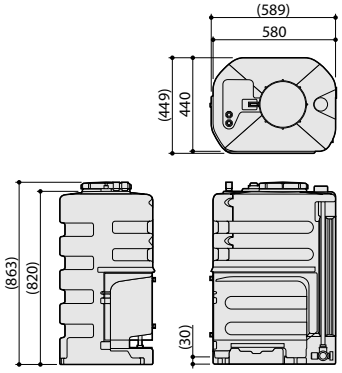
· CT-U25NR



· CT-U50VR/ER



· CT-U120VR/ER



Chemical tank CT type

Application

Tank for chemical injection

Applicable pump

EHN

Round tank made of polyethylene. It comes with pump mounting nuts and a suction piping unit to fascilitate pump installation. The piping unit includes a strainer.

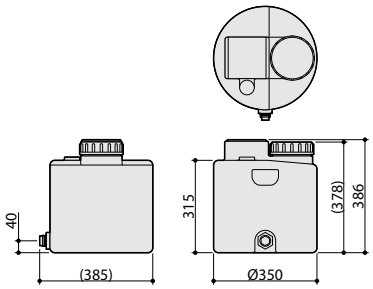
Specifications

Model	Hose/Tube size (in mm)	Capacity L	Material		Level gauge	Applicable pump
			Body	Rubber		
CT-25 Note 1	Ø4×Ø9	25	PE	FEPM	Without level gauge	EHN-B11 • 16 • 21, C16 • 21
CT-50A Note 1		50				
CT-50B Note 1	Ø8×Ø13					EHN-B31, C31 • 36
CT-100N-1M Note 2	Ø4×Ø9	100			With level gauge	EHN-B11 • 16 • 21, C16 • 21
CT-100N-4M Note 2	Ø8×Ø13					EHN-B31, C31 • 36

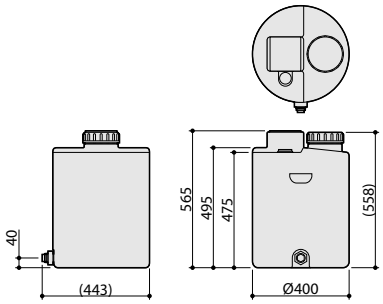
Note 1: The drain thread size of the CT-25, CT-50A, CT50B is G3/4.
Note 2: The CT-100N comes with an anchor base as standard. A tank drain valve set is available as an option.

Dimensions in mm

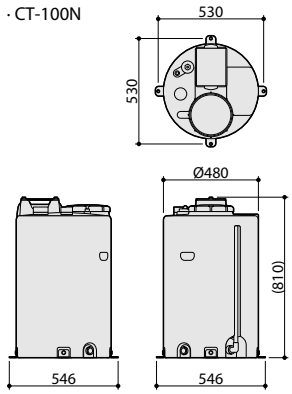
· CT-25



· CT-50



· CT-100N



Multi-tank MT-N type

Application

Tank for chemical injection

Applicable pump

EHN
EWN
EH-E

Made of polyethylene tank and has excellent resistance to impact and chemicals. Options such as electrode base, agitator base and anchor base can be mounted.

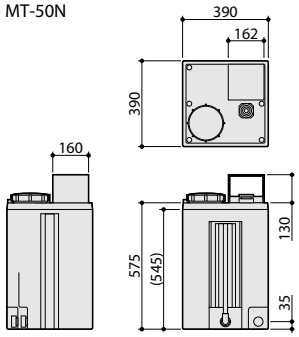
■ Specifications

Model	Hose/Tube size (in mm)	Capacity L	Material		Level gauge	Applicable pump
			Body	Rubber		
MT-50N	Ø4×Ø9 Ø8×Ø13 Ø4×Ø6 Ø8×Ø13	50	PE	EPDM/FKM	With level gauge	All models of electro-magnetic metering pump
MT-100N		100				
MT-200N		200				
MT-300N		300				
MT-500N		500				

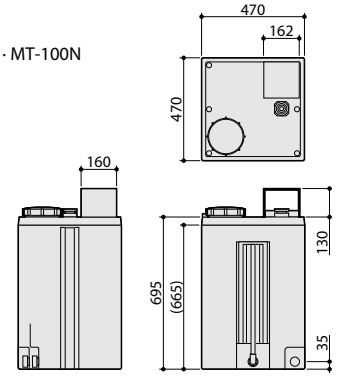
Standard accessories: Pump base, hand hole (with cap), drain, level gauge, pump suction port (with guide)

Dimensions in mm

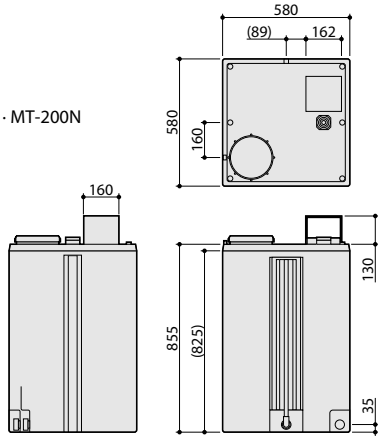
· MT-50N



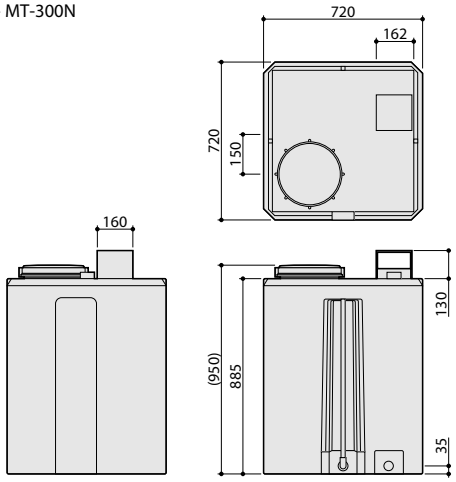
· MT-100N



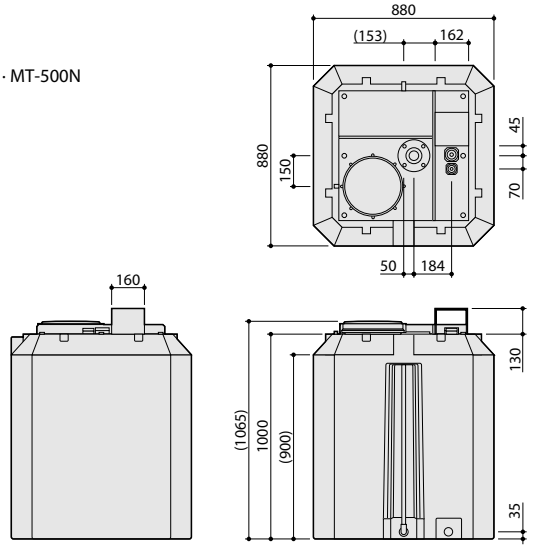
· MT-200N



· MT-300N



· MT-500N



CTV, CTS type chemical tank made of PVC

A highly versatile square tank made of PVC, designed to have a pump placed on top. With a focus on durability, the bottom plate is welded both inside and outside, the top plate is made of an impact resistant PVC. Options such as agitator base and anchor base can be mounted on the CTS type.

CTV type

CTS type

Application

Tank for chemical injection

Applicable pump

EHN
EWN
EH-E

■ Specifications

Model	Capacity L	Material		Level gauge	Applicable pump
		Body	Rubber		
CTV-50	50	PVC	FKM	With level gauge	All models of electromagnetic metering pump
CTV-100	100				
CTV-200	200				
CTV-300	300				
CTS-50	50				
CTS-100	100				
CTS-200	200				
CTS-300	300				
CTS-500	500				

Standard accessories: Liquid level gauge, pump mounting base, suction port (with suction guide), chemical feeding port (with lid), drain
Options (CTS type): Agitator base, anchor base, protective tube, air vent, nozzle, electrode base
* Customizable according to your requests. Please contact us for details.

CTS-N type chemical tank made of PVC

A highly versatile square tank made of PVC, designed to have a pump placed below. 1 or 2 pumps can be installed to the standard type.

Application

Tank for chemical injection

Applicable pump

EHN
EWN
EH-E

■ Specifications

Model	Capacity L	Material		Level gauge	Applicable pump
		Body	Rubber		
CTS-50N	50	PVC	FKM	With level gauge	All models of electromagnetic metering pump
CTS-100N	100				
CTS-200N	200				
CTS-300N	300				
CTS-500N	500				

Standard accessories: Liquid level gauge, pump base, chemical feeding port (with lid), liquid outlet valve, liquid return port, drain
Standard pump: EHN-B11VC1R-55, EHN-B21VC1R-55 (high compression head)
* Customizable according to your requests. Please contact us for details.

Level sensor for tank

Checks the level of chemical solution in the tank.

LS type

LSG type

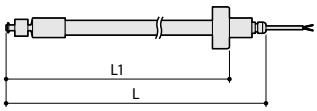
Application

Tank level check

Applicable tank

CT-U

Dimensions in mm



Model	L	L1
LS-15V	(530)	(475)
LS-050V	(655)	(600)
LS-120V	(845)	(790)

Please contact us for the external dimensions of the LSG type.

■ Specifications

Model	Material				Electrical specifications	Applicable tank
	Support tube	Float	Stem	Stopper		
LS-15V	PVC	PP	PVC	PP	Max. operated capacity: 10 VA Max. operated current: 0.5 A Max. operated voltage: AC 125 V Contact resistance: 250 mΩ	For CT-U25NR
LS-050V						For CT-U50ER/VR, CT-U100N
LS-120V						For CT-U120ER/VR
LSG-15VH/VL	PVC	PP	PVC	PP	Max. operated capacity: 10 VA Max. operated current: 1.0 A Max. operated voltage: AC 100 V	For CT-U25NR, ETU-25NR
LSG-50VH/VL						CT-U50ER/VR, ETU-50VR, CT-100N
LSG-120VH/VL						CT-U120ER/VR, ETU-120ER/VR

Other options

Options for EWN, IX series

❶ External control signal cable (DIN x connector)
For EXT operation terminal (5 m)

❷ STOP signal cable (DIN x connector)
For STOP terminal and AUX terminal (5 m)

❸ Output signal cable (DIN x connector)
For output terminal (5 m)

❹ Profibus converter (for IX series only)
For profibus communication

Various controllers

pH/ORP · conductivity controller
W/P100

An economical water treatment controller equipped with Japanese language display and excellent operability. With a selection of 8 control settings to choose from, it allows you to achieve a level of control that matches your application.

- Rich control settings
  - ON/OFF control (forward/reverse direction)
  - 2-point setting control (In-range or out-of-range activation)
  - Time proportional control (forward/reverse direction)
  - Pulse proportional control (forward/reverse direction)
  - Flow control
  - Synchronization/manual
  - Interval control/timer control
  - Sensor cleaning

P100

W100

pH/ORP · conductivity controller
Intuition-6

High Reliability and Flexibility
Highly Economical Water Treatment Controller

The Intuition-6 series of economical water treatment controllers is not only datalogging-enabled but also able to send alarm messages via email. The series is comparable with higher models in terms of high reliability and superb flexibility regarding the functions of relays. This device is also designed to allow users to easily and intuitively conduct operations, with its easy-to-setup large touch screen display incorporating the use of icons.

pH/ORP · conductivity controller
Intuition-9

Solve water treatment issues with outstanding control
Reliable and flexible water treatment controller

Intuition-9 is a controller for cooling towers and boilers that integrates high-performance sensor functions, measuring instruments, liquid processing, and various data communication technologies into one unit. Its reliable performance is one of the highest in the water treatment industry. The system configuration is easy because the settings are easy to understand and intuitive. The system configuration is easy because the settings are easy to understand and intuitive. The system can be configured to manage a wide variety of cooling towers, boilers, closed loop systems, and water treatment related processes in general. Various and direct sensor input, corrosion, level, temperature, based on the measured input values from the other device to measure the pressure, etc., do the monitoring and management. 24 hours a day, 365 days a year, always running, even to the staff you are not in the field as well as field personnel to notify the performance status of the system. In addition, if you use Intuition-9 for water treatment, comprehensive management can be realized with high reliability.

Multi-controller
EUC-70P

- A variety of control functions including analog proportional control, counter control, dividing control with this one unit
- Negative LCD and backlight for improved visibility
- Multi-voltage to secure power supply at installation site
- Compact size with only 50% of the depth of conventional products

pH controller
PH-50-R

- Calibration can be performed with a standard solution (of pH2 or 10) besides pH4, 7 and 9
- A wide range of temperature compensation
- Drip-proof structure (IP65)
- Security functions to prevent wrong operations, unauthorized operations etc.
- Multi-voltage type

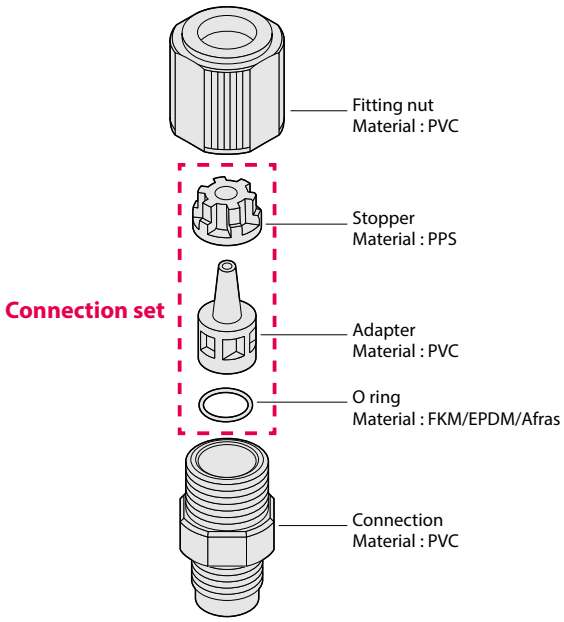
Auto controller
EA-61P

- Converts an analog input (DC 4 to 20 mA) into a pulse for proportional control of the stroke rate of electromagnetic metering pump
- Scaling function enables PID control/proportional control

Connection diameter of multi-tube

The applicable hose diameter can be switched by removing the fitting nut and recombining the stopper and adapter.

In addition, stopper, adapter, and O-ring are available as connection set. Please see the figure on the right for details.



Multi-tube connection set

	Model code	Size (in mm)
Connection set O ring material : FKM	VC1M	Ø4×Ø9
	VC2M	Ø4×Ø6
	VC3M	Ø6×Ø8
	VC4M	Ø8×Ø13 (13.5)
	VC5M	Ø9×Ø12
	VC6M	Ø10×Ø12
	VC7M	Ø1/4"×Ø3/8"
	VC8M	Ø3/8"×Ø1/2"
	VC18M	Ø6×Ø11
	VC23M	Ø6×Ø12
	VC24M	Ø5×Ø8
Connection set O ring material : EPDM	VH1M	Ø4×Ø9
	VH2M	Ø4×Ø6
	VH3M	Ø6×Ø8
	VH4M	Ø8×Ø13 (13.5)
	VH5M	Ø9×Ø12
	VH6M	Ø10×Ø12
	VH7M	Ø1/4"×Ø3/8"
	VH8M	Ø3/8"×Ø1/2"
	VH18M	Ø6×Ø11
	VH23M	Ø6×Ø12
	VH24M	Ø5×Ø8
Connection set O ring material : Afras	VA1M	Ø4×Ø9
	VA2M	Ø4×Ø6
	VA3M	Ø6×Ø8
	VA4M	Ø8×Ø13 (13.5)
	VA5M	Ø9×Ø12
	VA6M	Ø10×Ø12
	VA7M	Ø1/4"×Ø3/8"
	VA8M	Ø3/8"×Ø1/2"
	VA18M	Ø6×Ø11
	VA23M	Ø6×Ø12
	VA24M	Ø5×Ø8

Electromagnetic metering pumps / Metering pumps

Electromagnetic metering pumps

EHN

EH-E

Specifications

Model	EHN	EWN	EH-E
Max. discharge capacity (mL/min)	450	420	1,250
Max. discharge pressure (MPa)	1.0	1.0	1.0
Wet-end main material	PVC	PVC	PVC
Handling liquid temperature (°C)	0-40	0-40	0-40

Specification is the value of the main material. There are also other material variations.

Metering pumps

IX

L

Specifications (50/60 Hz)

Model	L	TD	IX	AX
Max. discharge capacity (L/min)	45/54	8.5	5.0	51.6/49.7
Max. discharge pressure (MPa)	1.0	1.0	1.7	1.0
Wet-end main material	PVC	PVC	PVDF	PVC
Handling liquid temperature (°C)	0-50	0-40	0-50	0-50

Specification is the value of the main material. There are also other material variations.

IWAKI Worldwide Network

We continue to support our clientele with our worldwide network

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Thailand	: IWAKI (Thailand) Co.,Ltd.	TEL: (66)2 322 2471	FAX: 2 322 2477
		( )Country codes	

Manufacturing Locations

IWAKI's production system, namely quality assurance system

Saitama Plant

Miharu Plant

Thorough quality-control measures and constant pursuit of efficiency have helped IWAKI establish a superior production system.

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

IWAKI has global network.
Please find your distributor location at **www.iwakipumps.jp**

Caution for safety use:
Before use of pump, read instruction manual carefully to use the product correctly.

Actual pumps may differ from the photos. Specifications and dimensions are subject to change without prior notice. For further details please contact us.

Legal attention related to export.

Our products and/or parts of products fall in the category of goods contained in control list of international regime for export control. Please be reminded that export license could be required when products are exported due to export control regulations of countries.

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