

NEW

IX-B For Aggressive chemical application

Special design for

Chlorine dioxide
High corrosive chemicals

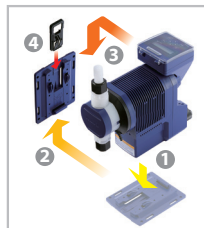
A unique diaphragm design along with all PVDF/FFKM materials of construction ensure compatibility and long service life even when used with high corrosive liquid such as chlorine dioxide or peracetic acid.



High Turndown Ratio and High Accuracy

IX series use efficient Brushless DC motors for speed control. High resolution motor control adjusts the discharge and suction speeds to meet a full and accurate turn-down ratio of 100:1 and minimum flow down to 0.0075L/H.

The pumps are 1% repeatable across most of the control range.



1. Remove the pump base.
2. Fix the pump base.
3. Hook the pump body.
4. Fix it with an adapter.

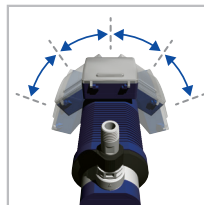


Upward 4 directions
(every 90 degrees)

Degassing valve unit Design

(Patent Pending)

One of the most advantageous features of the IWAKI IX Series Metering Pumps is the excellent degassing ability due to their proprietary valve unit design. The IX-B pumps retain this feature creating an entire pump line that will not gas lock and has no priming issues!



Two steps on both sides
(every 35 degrees)



Installation example
(with wall)

Flexible Installation

(Patent Pending)

The IX-B Pumps have been designed to be installed into various locations. The control unit can easily be repositioned by customers on-site. The pump can also be relocated from base mounted to wall mounted without any extra parts required.

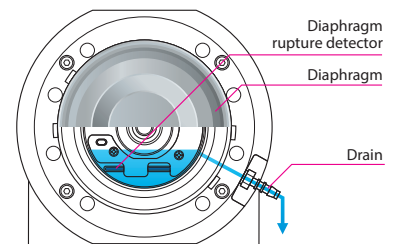
Flexible Connections

Tubing, Threaded, Flanged or Union connections are available as standard options providing easy installation for any application.



Safety design

Standard to all models is a diaphragm rupture detector, protecting users and the environment. Also, a detector for abnormal operation protects the pipework in case of an accidental high discharge pressure caused by clogging or improper operation. A drain hole also ensures safe operation even when the diaphragm is damaged.



Note: In some cases it may not be able to detect sudden rises in pressure occurring in shutoff operation. If the piping or machinery in use has low pressure resistance, install a separate safety valve.

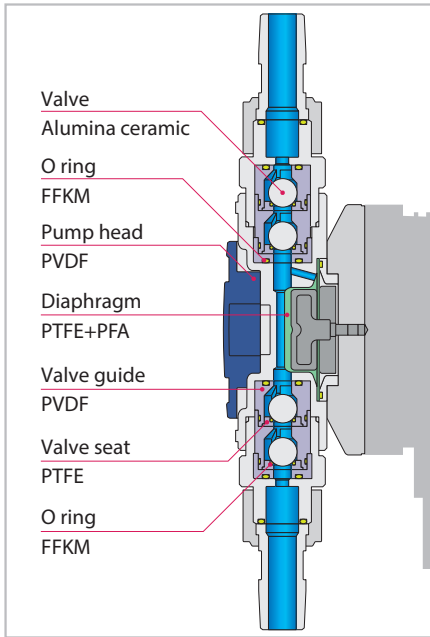
LED Status Bar

A large LED status bar provides simple visual indication of operating conditions at a glance. It is easily visible to see the pump status at a distance or in dark locations.



Construction and materials

Pump identification

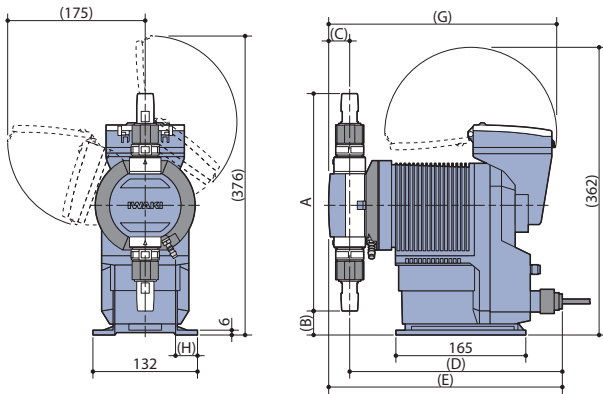


IX - **B** **007** **TF** **R** - **E**
 1 2 3 4 5

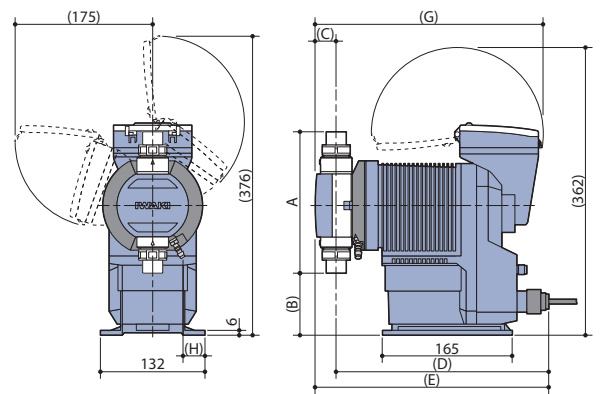
- 1 Drive unit
B
- 2 Pump size
007: 7.5 L/h **030**: 30 L/h
015: 15 L/h **045**: 45 L/h
- 3 Liquid-end material
TF
Please refer to Construction and materials.
- 4 Connection
R : Thread (R)
N : Thread (NPT)
G : Thread (G)
F : Flange
T : Tube
007/015 : Ø4×Ø6
030/045 : Ø9×Ø12
T6 : Tube (030/045 only)
030/045 : Ø10×Ø12
- 5 Type of power code
E : Europe

Dimensions (mm)

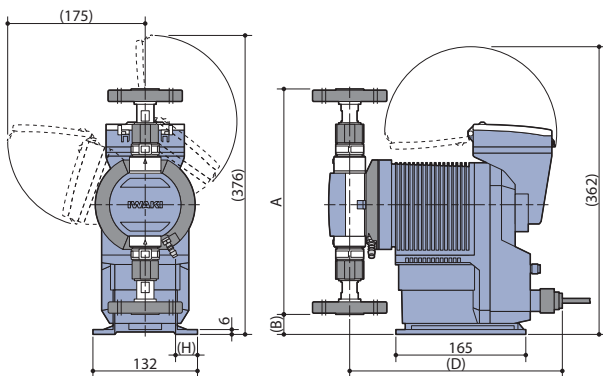
Connection: R/N (R Thread/NPT Thread)



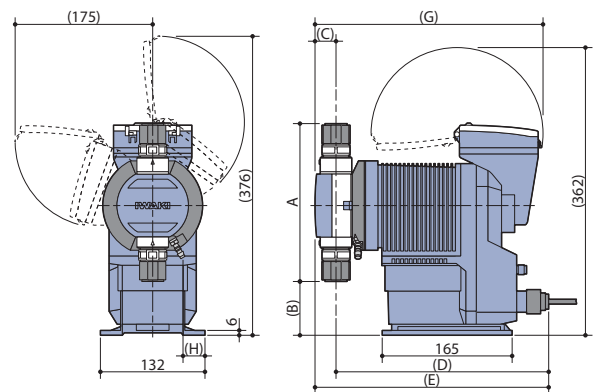
Connection: G (G Thread)



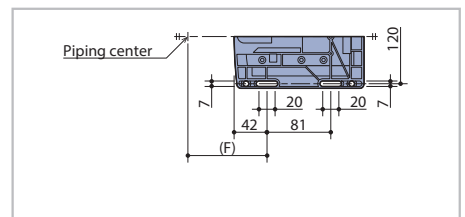
Connection: F (Flange)



Connection: T (Tube)



Model	Connection	A	B	C	D	E	F	G	H
IX-B007	R/N	240	45	24.3	267	291	94.5	284	29
	G	146	92						
	F	250	40						
	T	168	81	24.3		291		284	
IX-B015	R/N	249	41	24.3	267	291	94.5	284	29
	G	155	88						
	F	259	36						
	T	177	77	24.3		291		284	
IX-B030/045	R/N	273	30	26.4	270	296	97.5	289	28
	G	179	77						
	F	283	25						
	T/T6	201	66	26.4		296		289	



Specifications

Pump

Model	Capacity		Max. pressure	Power consumption	Current	Connection	Mass	
	L/h		MPa	W	A		kg	
IX-B007 (TF)	R	0.0075 - 7.5	1.7	17	0.4	R1/2	3.5	
	N					1/2NPT	3.5	
	G					G3/4	3.5	
	T					Please refer to Pump identification.		3.5
	F					JIS 10K 15A, DIN PN10 DN15, ANSI 150Lb 1/2"		3.7
IX-B015 (TF)	R	0.015 - 15	1.0	17	0.4	R1/2	3.5	
	N					1/2NPT	3.5	
	G					G3/4	3.5	
	T					Please refer to Pump identification.		3.5
	F					JIS 10K 15A, DIN PN10 DN15, ANSI 150Lb 1/2"		3.7
IX-B030 (TF)	R	0.03 - 30	0.6	19	0.5	R1/2	3.7	
	N					1/2NPT	3.7	
	G					G3/4	3.7	
	T/T6					Please refer to Pump identification.		3.7
	F					JIS 10K 15A, DIN PN10 DN15, ANSI 150Lb 1/2"		3.9
IX-B045 (TF)	R	0.045 - 45	0.4	19	0.5	R1/2	3.7	
	N					1/2NPT	3.7	
	G					G3/4	3.7	
	T/T6					Please refer to Pump identification.		3.7
	F					JIS 10K 15A, DIN PN10 DN15, ANSI 150Lb 1/2"		3.9

Note 1: Use below the maximum allowable pressure of a connected tube.

· Liquid temperature range: 0 - 50 °C (TF) (No viscosity change, No freezing, No slurry)

· Allowable voltage fluctuation: within ± 10% of the rated voltage

· Operating humidity range: 30 - 90%RH (Non condensing in the controller)

· The above is the value at rated voltage, ambient temperature and clear water.

· The pressure at which the abnormal pressure detection function operates is 1.3 to 2 times the maximum discharge pressure.

· Operating ambient temperature: 0 - 50 °C

· Flanges will be shared with the standards listed in the table.

Controller

Operation mode	MAN (Manual)	Use the UP (↑) and DOWN (↓) keys to set a flow rate.	
	EXT	Analog fixed operation	4-20, 0-20, 20-4, 20-0mA (Proportional to the discharge rate)
		Analog variable operation	Programmable 2-point setting (Input signal DC 0-20 mA, proportional to the discharge rate)
		Pulse control ^{Note1}	0.000625mL/PLS - 15.000000mL/PLS (IX-B007)
			0.001250mL/PLS - 30.000000mL/PLS (IX-B015)
			0.002500mL/PLS - 60.000000mL/PLS (IX-B030)
			0.003750mL/PLS - 90.000000mL/PLS (IX-B045)
		Batch control ^{Note1}	0.625mL/PLS - 15.000L/PLS (IX-B007)
1.250mL/PLS - 30.000L/PLS (IX-B015)			
2.500mL/PLS - 60.000L/PLS (IX-B030)			
3.750mL/PLS - 90.000L/PLS (IX-B045)			
Interval batch control ^{Note1}	Day: 0 - 9, Hour: 0 - 23, Minute: 1 - 59		
	0.625mL/PLS - 15.000L/PLS (IX-B007), 1.250mL/PLS - 30.000L/PLS (IX-B015) 2.500mL/PLS - 60.000L/PLS (IX-B030), 3.750mL/PLS - 90.000L/PLS (IX-B045)		
Profibus control ^{Note7}	Communication protocol: Profibus-DP-compliant international standard: EN50170 (IEC61158)		
Monitors	LCD	16 digits × 2 lines, backlit character LCD	
	LED	White: When the pump is stopped etc., Green: During pump operation etc., Orange: When entering Pre-Stop etc., Red: When alarm such as abnormal pressure detection etc.	
Operation	Keypads	(⊙)Start/Stop, MENU, ESC, (↵)Enter, (↑)Up, (↓)Down, (←)Left and (→)Right keys	
Control function	STOP	Operation stops with input contact ^{Note2}	
	PRIME	Max spm operation by pressing the (↑)UP and (↓)DOWN keys	
	Keylock	Password setting to lock and release operation keys	
	Interlock	Operation stops with input contact ^{Note2}	
	AUX	Pump operates at the set discharge rate with input contact.	
	Maximum discharge rate	Arbitrarily set the upper discharge limit in each operation mode.	
	Buffer memory function	Store the number of pulses entered in batch operation.	
Input	Analog input value display	Display the analog input value.	
	STOP/Pre-Stop	Non-voltage contact or open collector ^{Note3}	
	AUX	Non-voltage contact or open collector ^{Note3}	
	Interlock	Non-voltage contact or open collector ^{Note3}	
	Analogue	0 - 20mADC (Internal resistance is 200Ω.)	
Output	Pulse	Non-voltage contact or open collector Max pulse frequency is 100Hz. (Pulse ON: 5 msec or more)	
	Alarm1 (OUT1)	Non-voltage contact (mechanical relay): AC 250 V, 3 A (resistive load) Each output item is selected by Enable/Disable. (Initial value: Leak Detection only Enable) Stop/Pre-Stop/Interlock/Leak Detection/Motor Overload/Batch Complete ^{Note4} /Drive Error	
	Alarm2 (OUT2)	Non-voltage contact (photo MOS relay): AC/DC 24 V, 0.1 A (resistive load) Each output item is selected by Enable/Disable. (Initial value: Interlock only Enable) Stop/Pre-Stop/Interlock/Leak Detection/Motor Overload/Batch Complete ^{Note4} /Drive Error/Volume Prop. PLS ^{Note5}	
	External power supply	DC12V 30mA or less	
	Current	DC 0-20 mA, Two-point setting (allowable load resistance: 300 Ω)	
Power voltage ^{Note6}		100-240VAC 50/60Hz	

Note1: The minimum settings for pulse operation, batch operation, and interval batch operation are the flow rates per stroke corrected by calibration.

Also, the change rate of the setting value per pulse is the flow rates per stroke corrected by calibration.

Note2: Pump operation or pump stop can be selected at contact input.

Note3: The maximum voltage and current applied to the contact are 12 V and 5 mA. If you use a contact such as a relay, the minimum applicable load must be 5 mA or less.

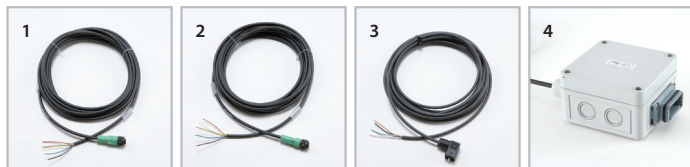
Note4: When Batch Complete (batch operation complete output) is set to Enable, the other functions will be set to Disable.

Note5: When Volume Prop. PLS output is set to Enable, the other functions will be set to Disable.

Note6: Do not apply voltage out of the specified range. Doing so may cause malfunction or failure. The allowable voltage supply range is 90-264VAC only.

Note7: When conducting Profibus bus operation, a separate Profibus Conversion BOX (option) is required.

Optional accessories



1. **DIN 5-pin connector cable** External control signal cable (5m)
(External control signal input) Selection No. IX0018
2. **DIN 5-pin connector cable** STOP signal and AUX signal cable (5m)
(STOP signal input) Selection No. IX0019
3. **DIN 4-pin connector cable** Output signal cable (5m)
(Signal output) Selection No. IX0020
4. **Profibus converter** Profibus communication

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 net work. Please find your distributor location at

www.iwakupumps.jp

European office : **IWAKI Europe GmbH**
 Germany : **IWAKI Europe GmbH**
 Holland : **IWAKI Europe GmbH** (Netherlands Branch)
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TEL: (49)2154 9254 0 FAX: 2154 9254 48
 TEL: (49)2154 9254 50 FAX: 2154 9254 55
 TEL: (31)74 2420011 FAX: (49)2154 925448
 TEL: (39)0444 371115 FAX: 0444 335350
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 TEL: (32)13 67 02 00
 TEL: (45)48 24 2345
 TEL: (358)9 2745810
 TEL: (33)1 69 63 33 70 FAX: 1 64 49 92 73
 TEL: (47)23 38 49 00
 TEL: (46)8 511 72900

()Country codes

U.S.A. : **IWAKI America Inc.** TEL: (1)508 429 1440 FAX: 508 429 1386
 Argentina : **IWAKI America Inc.** (Argentina Branch) TEL: (54)11 4745 4116
 Brasil : **IWAKI Do Brasil Comercio De Bombas Hidraulicas LDA.** TEL: (55)119 3244 5900 FAX: 19 3244 5900
 Singapore : **IWAKI Singapore Pte Ltd.** TEL: (65)6316 2028 FAX: 6316 3221
 Indonesia : **IWAKI Singapore** (Indonesia Office) TEL: (62)21 6906606 FAX: 21 6906612
 Malaysia : **IWAKI Sdn. Bhd.** TEL: (60)3 7803 8807 FAX: 3 7803 4800
 Australia : **IWAKI Pumps Australia Pty Ltd.** TEL: (61)2 9899 2411 FAX: 2 9899 2421
 Hong Kong : **IWAKI Pumps Co., Ltd.** TEL: (852)2607 1168 FAX: 2607 1000
 China : **GFTZ IWAKI Engineering & Trading Co., Ltd.** TEL: (86)20 84350603 FAX: 20 84359181
 : **IWAKI Pumps (Shanghai) Co., Ltd.** TEL: (86)21 6272 7502 FAX: 21 6272 6929
 Korea : **IWAKI Korea Co.,Ltd.** TEL: (82)2 2630 4800 FAX: 2 2630 4801
 Taiwan : **IWAKI Pumps Taiwan Co., Ltd.** TEL: (886)2 8227 6900 FAX: 2 8227 6818
 Thailand : **IWAKI (Thailand) Co.,Ltd.** TEL: (66)2 322 2471 FAX: 2 322 2477



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.



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