

NEW

Hi-Techno Pump IX-B-S6

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High output, high precision, high controllability High efficiency brushless motor driven diaphragm type metering pumps

A new stainless steel type was added to the diaphragm type metering pump IX-B series which adopted a brushless motor with high efficiency and high controllability.

Unique Motor Design

The IX-B pumps use brushless DC (BLDC) motors to control the pump stroke speed. Many similar metering pumps use a stepper-motor based design, however the efficiency of the BLDC motor provides a higher power output in a smaller package and allows the IX-B pumps to achieve 45L/H discharge flowrates.

Flexible Installation (Patent Pending)

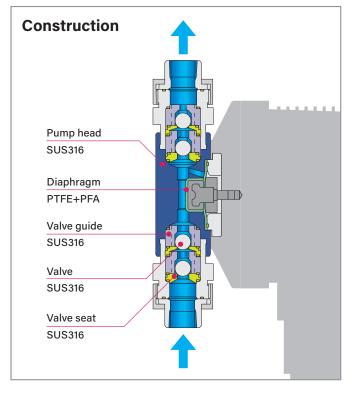
The IX-B Pumps have been designed to be installed into various locations. The control unit can easily be repositioned by customers on-site. 1

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. (2)

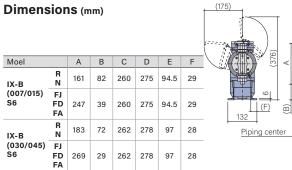
- Upward 4 directions (every 90 degrees)
- 2 : It's an image of lighting.
- Note: IX-B-S6 can not be wall mounted installation.

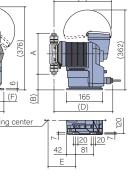




Identification

IX -	B ①	007 ②	S6 ③	R ④	-	E ⑤	□□ ⑥
 Drive unit B Pump size 0077.5L/H 01515L/H 03030L/H 04545L/H 	S6 Ple (4) Co R FJ. FD	 (3) Liquid-end material S6 Please refer to above figure. (4) Connection RThread (Rc) NThread (FNPT) FJFlange (JIS) FDFlange (DIN) FAFlange (ANSI) 				IE IL I2L LA	J.S.A. 115V J.S.A. 230V Justralia





Specifications

Pump

Model		Capacity	Max. Pres- sure	Power comsuption	Current	Connection	Mass
		L/h	MPa	W	А		kg
	R		1.7			Rc3/8	4.5
	N	0.0075	1.7			3/8 FNPT	4.5
IX-B007 S6	FJ	0.0075 - 7.5 ^{Note}	1.0	17	0.4	JIS 10K 15A	6.0
30	FD					DIN PN10 DN15	
	FA					ANSI 150lb 1/2"	
	R					Rc3/8	4.5
IV Boss	N	0.015				3/8 FNPT	4.5
IX-B015 S6	FJ	0.015 - 15 ^{Note}	1.0	17	0.4	JIS 10K 15A	
30	FD	15				DIN PN10 DN15	6.0
	FA					ANSI 150lb 1/2"	

Model		Capacity	Max. Pres- sure	Power comsuption	Current	Connection	Mass	
		L/h	MPa	W	A		kg	
	R	0.030 - 30 ^{Note}	0.6	19	0.5	Rc3/8	5.0	
	Ν					3/8 FNPT		
IX-B030 S6	FJ					JIS 10K 15A	6.5	
	FD					DIN PN10 DN15		
	FA					ANSI 150lb 1/2"		
	R	0.045 - 45 ^{Note}	0.4	19	0.5	Rc3/8	5.0	
	Ν					3/8 FNPT	5.0	
IX-B045 S6	FJ					JIS 10K 15A	6.5	
	FD					DIN PN10 DN15		
	FA					ANSI 150lb 1/2"		

Note: Discharge flow rate may be less than set value.

Controller

• The above is the value at rated voltage, ambient temperature and clear water. Liquid temperature range: 0 - 80 °C (No viscosity change, Non freezing, No slurry.) 0 - 50 °C (32 - 122 °F) for U.S.A. type

	MAN (Mai	nual)	Use the UP (\uparrow) and DOWN (\downarrow) keys to set a flow rate.				
Operation mode 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 - 60.00000mL/PLS (IX-B030), 0.003750mL/PLS - 90.000000mL/PLS (IX-B045)				
	EVT	Batch control ^{Note1}	0.625mL/PLS - 15.000L/PLS (IX-B007), 1.250mL/PLS - 30.000L/PLS (IX-B015)				
	EAT		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 charac		acter LCD				
womtors	LED	White: When the pump is stopped	detc., Green: During pump operation etc., Orange: When entering Pre-Stop etc., Red: When alarm such as abnormal pressure detection etc.				
Operation	Keypads	(①)Start/Stop, MENU, ESC, (JEnter, (↑)Up, (↓)Down, (←)Left and (→)Right keys				
	STOP		Operation stops with input contact ^{Note2}				
PRIM	PRIME		Max spm operation by pressing the (\uparrow)UP and (\downarrow)DOWN keys				
	Keylock		Password setting to lock and release operation keys				
Control	Interlock		Operation stops with input contact ^{Note2}				
function	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 me	mory function	Store the number of pulses entered in batch operation.				
	Analog in	out value display	Display the analog input value.				
	STOP/Pre	-Stop, AUX, Interlock	Non-voltage contact or open collector ^{Note3}				
Input	Analogue		0 - 20mADC (Internal resistance is 200Ω.)				
P	Palse		Non-voltage contact or open collector Max pulse frequency is 100Hz. (Pulse ON: 5 msec or more)				
Alarm1 (OU		UT1)	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 ^{Noted} /Drive Error				
Output A	Alarm2 (O	UT2)	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 p	ower supply	DC12V 30mA or less				
	Current		DC 0-20 mA, Two-point setting (allowable load resistance: 300 Ω)				
Power voltag	je ^{Note6}		100-240VAC 50/60Hz				

Note: 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.

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



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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. 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. Legal attention related to export.