OM-EN-EB7P-3.20

EcoBooster

Operation Manual

Type EB7P





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FOR YOUR SAFETY

Improper use of the equipment may cause serious injury or death.

Improper use of the equipment may cause injury or material damages.

- EcoBooster is the device for Micro lubrication system to cut metals. Do not use for other purposes.
- ●When flammable oil such as volatile oil is used, it may catch a fire.
- ●Air pressure should be less than 0.8MPa. When it was over 0.8 MPa, it may damage tubing and other devices.
- Do not expose to a material, such as strong acid, strong alkali, corrosive gas. They may damage tubing and other devices.



- Use Bluebe LB-7 or LB-10 type oil. When other oil is used, it may damage the device.
- Do not fill the oil over H line. Drain the overflow oil from the drain valve.

Background Information

EcoBooster has been specifically designed to dispense controlled amount of Bluebe oil for variety of machining applications. Use of non-genuine oil in the system may result in damage to the unit.



SPECIFICATION

O Maximum working pressure	0.8 MPa
O Working pressure range	$0.4 \sim 0.8 \mathrm{\ MPa}$
O Tank capacity	1,200mL
Oil consumption	$2\sim70$ mL/hour (Depend on use condition)
O Pump strokes	$0.125~\mathrm{Hz}~\sim0.5~\mathrm{Hz}~\mathrm{(Max)}$
O Mounting	M6 (2 holes)
O Mist outlet	1 place (Φ 12 tube connector)
O For input connect	OIL DETECTOR (in Tank)
○ For output connect	EB OPRATION SOLENOID VALVE
O Dry weight	8kg

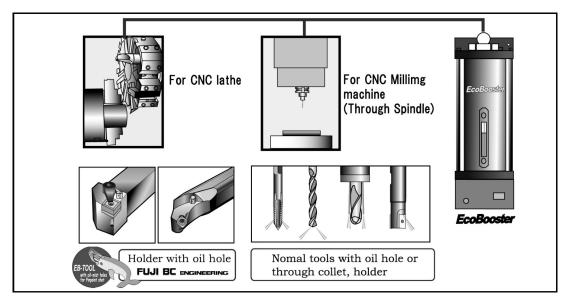
SET UP OF OIL DETECTOR

Oil level may vary due to the change of air pressure and other reasons. Specific gravity of oil may also change due to the volume of air in the oil. Under these conditions ,the use of "timer" is highly recommended. Alarm signal of oil detector (float switch) shall be activated only when the signal stays at the same condition for a certain period.

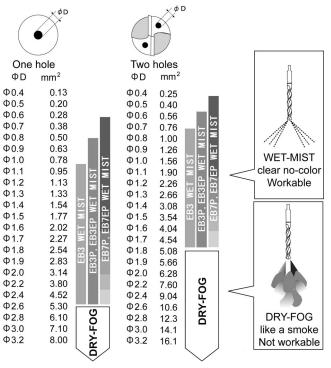
Recommendation of timer set up: 15 minutes for EB7P



Recommended tools



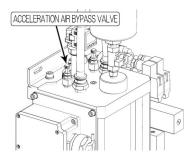
Cutting tool / Holder	Total cross section area		
Gap(sukima) through			
Collett through nozzle			
Drill with oil hole	0.3 mm² < Total cross sectional area < 2.0 mm²		
Tap with oil hole			
Milling tool with oil hole			
Bluebe EB-TOOL	Optimized for <i>EcoBooster</i>		



Recommended oil hole diameter

Dry mist does not adhere to the inside of piping or spindle but it must be liquefied at the cutting point. Oil hole diameter need to be between 0.3mm^2 to 2mm^2 in diameter to obtain the workable condition of EB7P.

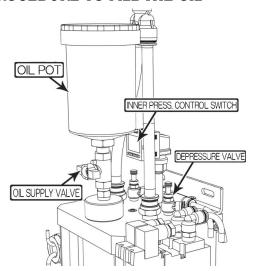
Open Acceleration air bypass valve when oil hole diameter is more than 2mm². (Supported cross sectional area within 5mm².)





HOW TO USE

PROCEDURE TO FILL THE OIL





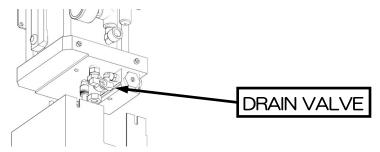
- 1. For your safety, be sure to stop the operation of the EcoBooster when oil is refilled.
- 2. Depressurize the oil tank before filling the oil by the DEPRESSURE VALVE.
- 3. Check if the tank is completely depressurized.
- 4. Remove the OIL POT cap.

Do not allow any dust in the OIL POT.

- 5. Fill up the OIL POT.
 - The capacity of the OIL POT is about 300ml.
- 6. Supply oil from OIL POT to the tank by opening the OIL SUPPLY VALVE.
- 7. When the filling level is not enough, repeat 5 & 6 again.
- 8. Do not fill oil over the H-level.

When the filling level is over the H-level, drain the oil from drain valve.

9. When oil is filled, tighten the OIL POT cap and shut off the OIL SUPPLY VALVE $\,\&\,$ the DEPPRESSURE VALVE.



Air Supply

Working pressure range 0.4MPa∼0.8MPa

Keep the minimum air pressure while operating the EcoBooster.

To avoid the trouble of the applicator, supply air has to be filtered, water-free and oil-free.

Air Control

a) Mist air

When the solenoid valve for controlling mist air line is ON, it always supplies constant amount of dry mist (micro lubricant droplets).

Inner pressure control switch control the solenoid valve ON/OFF.

See the "ICONFIGURATION OF INNER PRESSURE CONTROL SWITCH" to set the pressure switch.



b) Acceleration air

Inner air pressure changes when the size of oil hole of the tools changes. When oil hole get larger, inner air pressure decreases. When inner pressure get lower and need more air to generate dry mist, acceleration air start to work together with the Mist air.

See the "CONFIGURATION OF INNER PRESSURE CONTROL SWITCH" to set the pressure switch.

Furthermore, EB7P has the air bypass line (manual adjustment) to add more air to hold the necessary air pressure level in the chamber. If inner pressure switch indicates the figure lower than set value at n-1, open the air bypass line to boost the reading between n-1 and (n-1+H1). If reading stays under the n-1 value, it means the oil hole of that particular tool is too big. It is suggested to set the tool which has biggest oil hole and run the applicator to test if air pressure can be adjusted. If not, hole need to be plugged and drilled again for smaller hole. However, please keep in mind that too much of additional air supply may disturb creating the mist in the chamber.

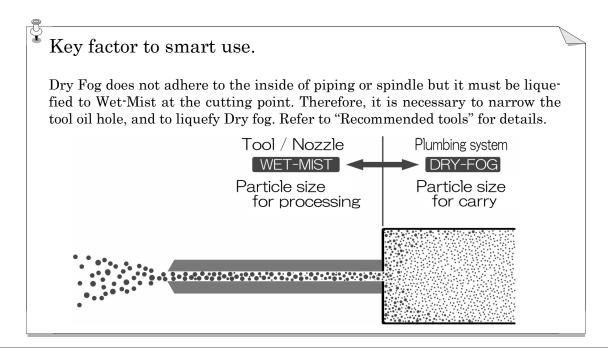
Caution: If you see white smoke at the tip of the cutting tool, it means the size of hole is too big. Make the oil hole smaller. Acceptable size of oil hole is 0.3—2.0 mm² in total.

FREQUENCY GENERATOR

This device controls the pumping cycle. The standard cycle of the pump is one stroke per two second. Adjustment is made by changing the position of the indicator using a screw driver. Time the sound interval. Sound of 1 times / 2 sec. is for maximum dispense volume and 1 time / 8 sec. is for minimum volume.

OIL CONSUMPTION

Oil consumption is determined by the combination of frequency generator and oil hole size of the tool. Standard consumption is 4ml per one hour. Oil consumption depends on cutting condition and size of oil hole of tools. From 2ml to 20ml per on hour is normal range of consumption.





CONFIGURATION OF INNER PRESSURE CONTROL SWITCH

Why Inner Pressure control switch required.

EcoBooster generates dry mist in the unit (chamber) by utilizing difference pressure of supplied air and that of tank inside. Basically, the

hole of cutting tools has been changed, pressure of tank inside is changed so inner pressure must be maintained with oil holes of cutting tool changed every time. Inner Pressure control switch offers above issue to keep the difference of pressure constant with cutting tools changed.

Here shows pressure switch configuration.

The configuration value depends on supplied air pressure. Please read "How to configure inner pressure switch" in detail.

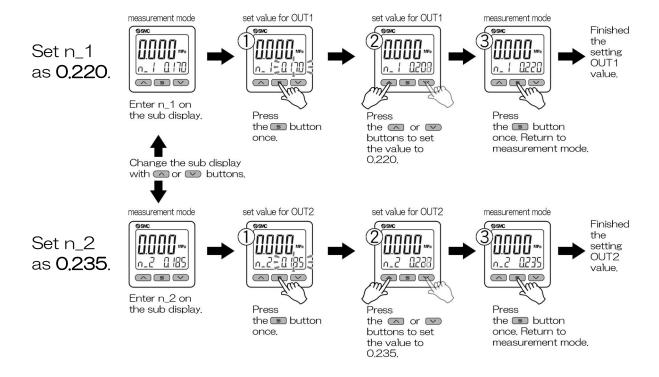
		Acceleration Air OUT1			t Air UT2
	Air Supply	n_1	H_1	n_2	H_2
	0.4 M Pa	0. 170	0.020	0. 185	0.015
Example -	0.5 M Pa	0. 220	0.020	0. 235	0.015
	0.6 MPa	0. 320	0.020	0. 335	0.015
	0.7 M Pa	0. 440	0.020	0. 435	0.015
	0.8 M Pa	0. 540	0.020	0. 535	0.015

Be sure to set the value as indicated according to the given air supply pressure. See the setting procedure at next page.



How to set INNER PRESSURE CONTROL SWITCH

Example for Supply air pressure of 0.5MPa



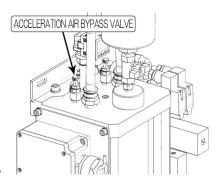
* Please look at the Digital Pressure Switch operation manual attached at the end.

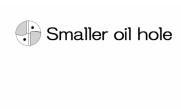


ACCELERATION AIR BYPASS VALVE SETTING

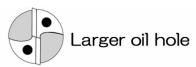
Flow quantity of mist is increases when oil hole diameter is larger. And inner pressure is goes down to maintain the proper differences between air supply and inner pressure, additional air need to be supplied by ACCELERATION AIR BYPASS VALVE .

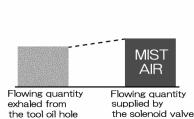
Use the large oil hole diameter among tolls at ATC to set up the inside pressure of EcoBooster. Open the ACCELERATION AIR BYPASS VALVE until the value of INNER PRESS. CONTROL SW. stays within the set value. If ACCELERATION AIR BYPASS VALVE was adjusted once, it is not necessary to adjust ACCELERATION AIR BYPASS VALVE as long as the large oil hole tool in ATC is not changed. EcoBooster will control the inner pressure automatically according to the tools in ATC.





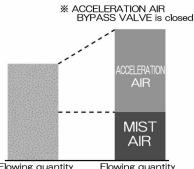






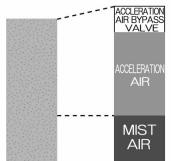
Flowing quantity (pressure) is adjusted by ON and OFF of MIST AIR.

SUPPLY SOL



Flowing quantity exhaled from the tool oil hole Flowing quantity supplied by the solenoid valve

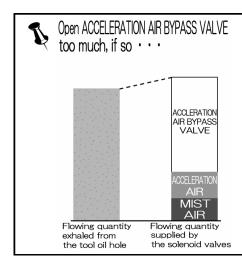
Flowing quantity (pressure) is adjusted by ON and OFF of AIR ACCELERATION SOL.



Flowing quantity exhaled from the tool oil hole

Flowing quantity supplied by the solenoid valves

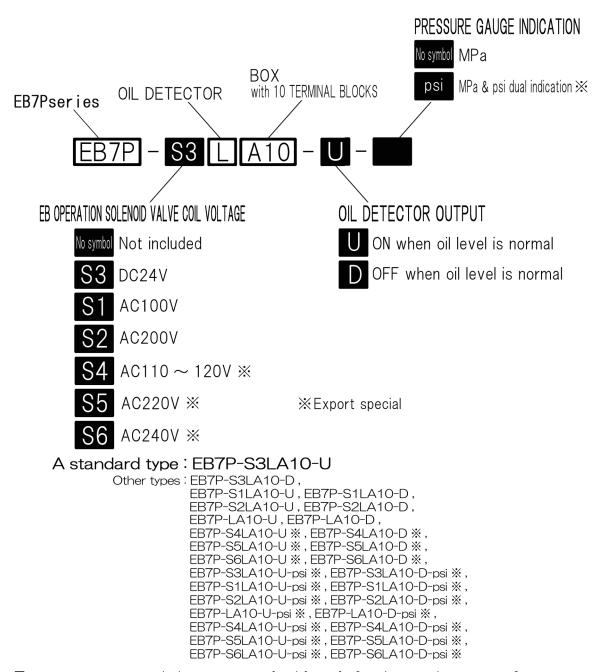
Flowing quantity increases because ACCELERATION AIR BYPASS VALVE is opened. Flowing quantity (pressure is adjusted by ON and OFF of AIR ACCELERATION SOL.



The air supplied by the ACCELERATION AIR BYPASS VALVE is not to make mist. It helps to maintain pressure in the chamber when necessary. When the ACCELERATION AIR BYPASS VALVE is opened too much, pressure in the chamber can be maintained by air but it doesn't make mist. As a result, mist quantity decreases. It is important to set the ACCELERATION AIR BYPASS VALVE at the minimum requirement that can maintain proper pressure in the chamber. Concretely, adjust the AIR ACCELERATION SOL to turn off once every 3 to 5 seconds.



EB7P TYPE SELECTION GUIDE



Types not mentioned above are applicable only for the machine manufacturer.

11P



RECOMMENDED LUBRICANTS

Viscosity of oil is important factor to generate micro lubricant droplets. Also from the safer work condition view point, we recommend the following oil to use.

Bluebe LB-7, or LB-10 (in JAPAN) Accu-lube LB-6000 (in USA, Europe)

WARRANTY

EcoBooster is backed with One-year Limited Warranty against defects in work-manship and/or materials. Warranty applies only when used under normal operating conditions. Warranty does not applied if a lubricant other than recommended oil is used.

CONTACT

JAPAN FUJI BC ENGINEERING CO., 1td.

3-1, Shioiricho, Mizuho-ku, Nagoya, 467-0851 JAPAN

TEL: 81-52-819-5411 FAX: 81-52-819-5410 www.fuji-bc.com

USA ITW PROBRANDS

805 E. Old 56 Hwy Olathe, Kansas 66061 4647 Hugh Howell Rd. Tucker, Georgia 30084 616 East Industrial St. DeWitt, Iowa 52742

TEL: 1-770-243-8800 FAX:1-770-243-8899 www.itwprobrands.com

GERMANY ACCU-LUBE MFG. GMBH

Postfach 80 D-75433 Maulbronn, Germany

TEL: 66-7043-5612 FAX: 66-7043-907098 www.accu-lube.com

CHINA BLUEBE(SHANGHAI)ENVIRONMENTAL TECHNOLOGY CO., LTD.

Room716-717, No.3, Lane no.58, East Xinjian Road, Minhang Shanghai,

201100, China

TEL: 86-21-6427-3096 FAX: 86-21-6427-2373

TAIWAN KANDO GROUP CORPORATION

7F, No.8 Lane 83, Sec. 1, Guang Fu Road, San Chung City,

Taipei Hsien 242 Taiwan R.O.C.

TEL: 886-2-2999-0393 FAX: 886-2-2999-0856

KOREA HANSUNG GT CO., LTD.

Gunpocheomdansaneop 1-ro 39, Gunpo-si, Gyeonggi-do, 15881

South Korea

TEL: 82-31-428-8250 FAX: 82-31-455-0487

THAILAND THAI WORTH CO., LTD.

2/9 Serithai Road, Kwaeng Kannayao, Khet Kannayao, Bangkok

 $10230~{
m Thailand}$

TEL: 66-2736-4560 FAX: 66-2736-4694

SINGAPORE KEMET FAR EAST PTE..LTD.

MALAYSIA 32, Ang Mo Kio Industrial Park 2, #02-12, Sing Industrial Complex,

INDONESIA 569510 Singapore

PHILIPPINES TEL: 65-64820990 FAX: 65-64811363

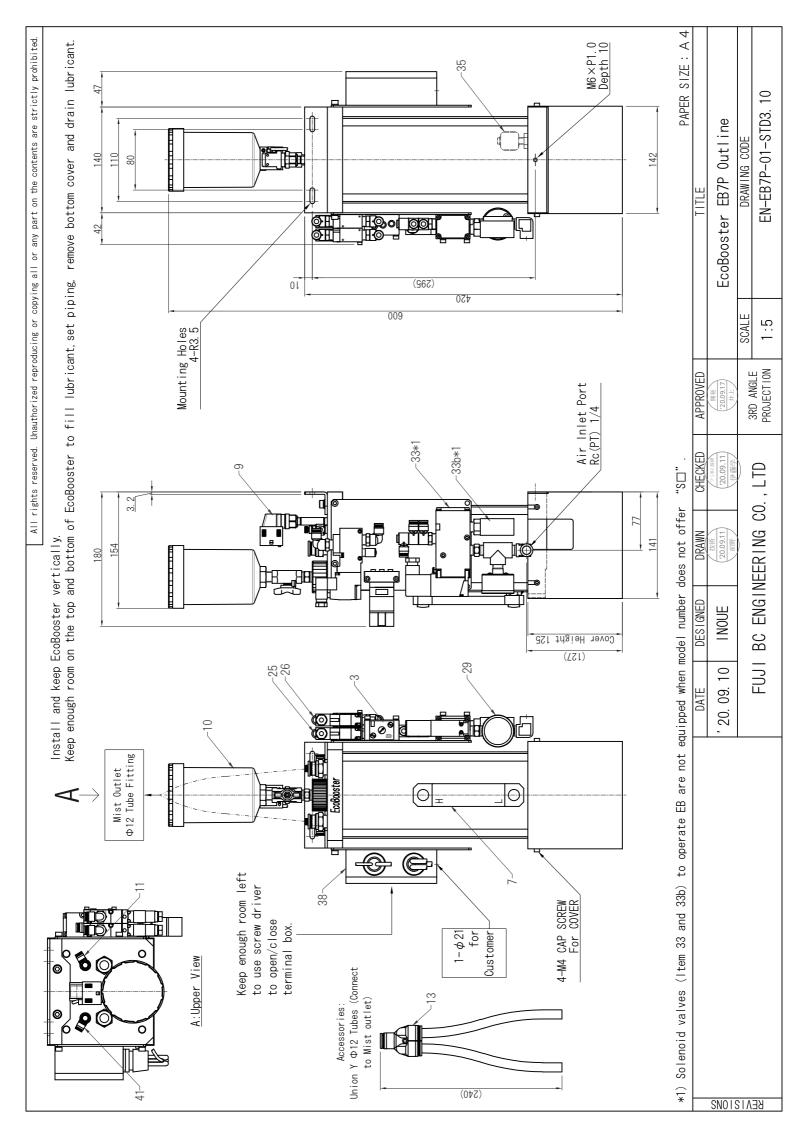
VIETNAM

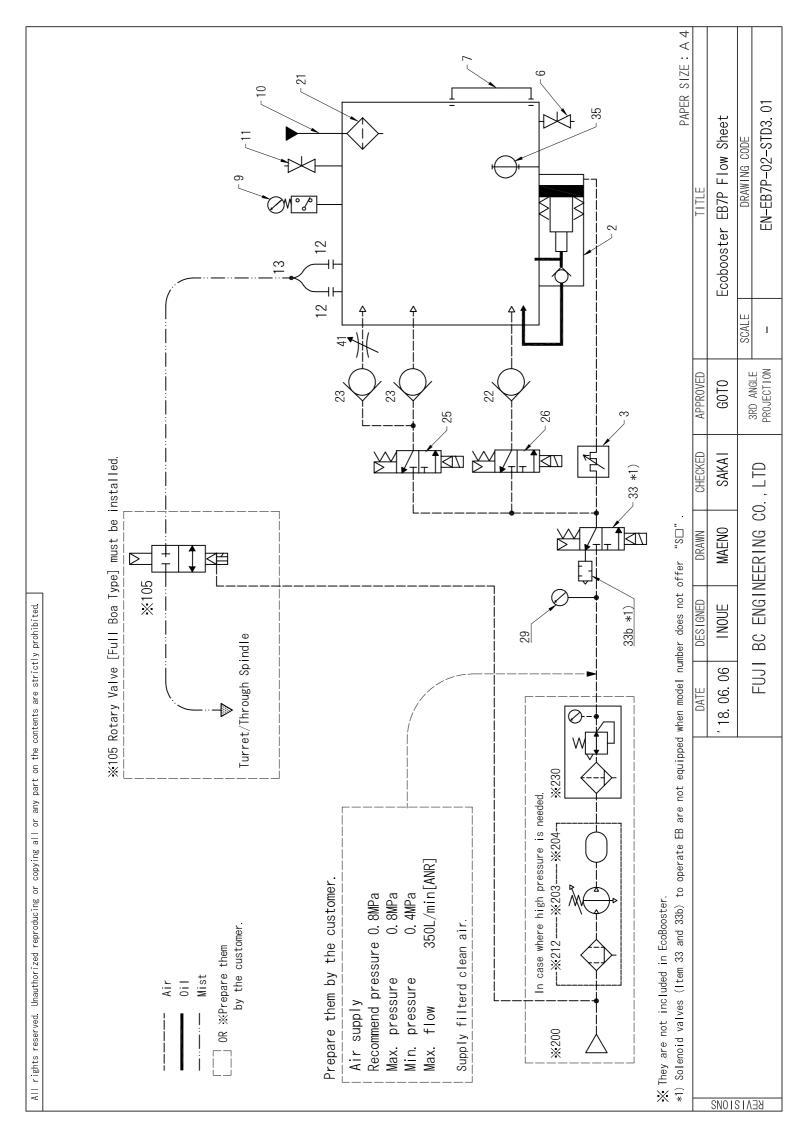
INDIA ITW INDIA PRIVATE LIMITED

Plot No.34 to 37, Phase-2, IDA, APIIC, Pashammylaram,

Medak Dist, 502307 India

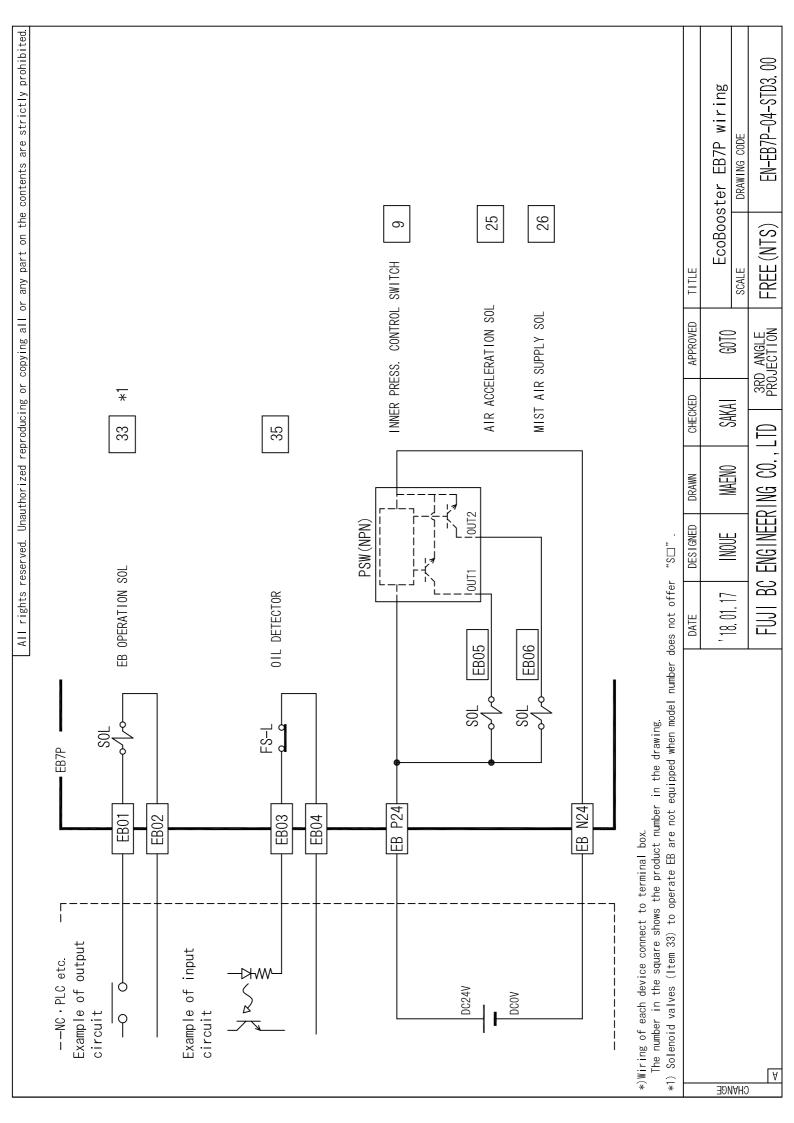
TEL: 91-8455-224700 FAX: 91-8455-224705

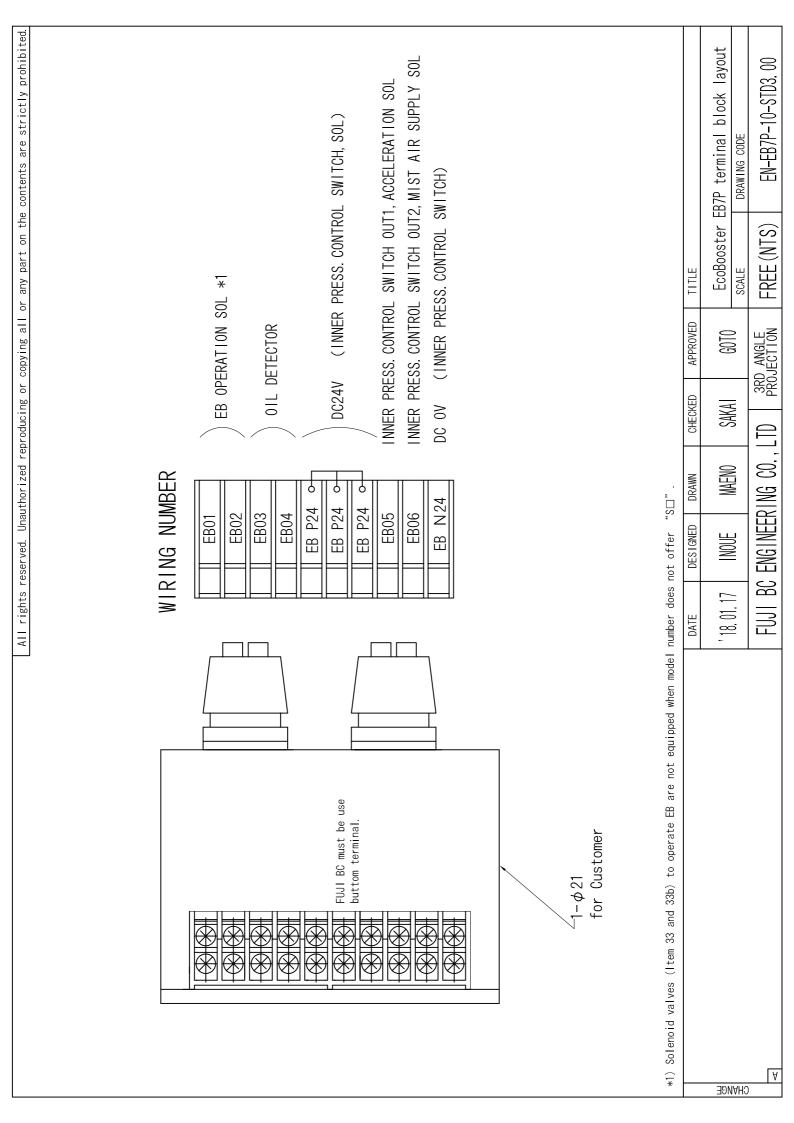




Drawing Code: EN-EB7P-03-STD3.20

	Drawing Gode:	LIV L	וט טט וועם.	D0.20	24.08.20
No.	ITEM	Q'ty	MAKER	TYPE	REMARKS
2	BX PUMP	1	FUJI BC	7250	
3	FREQUENCY GENERATOR	1	FUJI BC	9707	
6	DRAIN	1	KITZ	TKT1/8	
7	OIL LEVEL GAUGE	1	KYOWA	KHR-120A-M10	
9	INNER PRESS. CONTROL SW	1	SMC	ISE20C-X-M-C01L-W	2 NPN OUTPUT
10	OIL SUPPLY	1	FUJI BC	EB7CAP	OIL POT: 300mL
11	DEPRESSURE VALVE	1	PISCO	JNC6-01	
12	MIST OUTLET	2	PISCO	PC12-03	
13	UNION Y	1	PISCO	PY12	
21	OIL FILTER	1	FUJI BC	102TNK2103	
22	CHECK VALVE	1	PISCO	CVU6-6FN	MIST AIR LINE
23	CHECK VALVE	2	PISCO	CVU6-6FN	ACCELERATION AIR LINE
25	SOLENOID VALVE(AIR ACCELERATION)	1	SMC	VQZ312K-5YZB1-02	DC24V
26	SOLENOID VALVE(MIST AIR)	1	SMC	VQZ312K-5YZB1-02	DC24V
29	PRESSURE GAUGE	1	SMC	GA46-10-02	Air supply
	EB OPERATION			VP542K-5DUE1-02A	DC24V
33	SOLENOID VALVE	1	SMC	VP542K-1DZE1-02A	AC100V
	*			VP542K-2DZE1-02A	AC200V
33b	SILENCER ※	1	SMC	ANA1-02	
35	FLOAT SWITCH(OIL DETECTOR)	1	NOHKEN	OLV-5	
38	TERMINAL BOX	1	TOYOGIKEN	BOXTM-1002	10 TERMINAL BLOCKS
41	ACCELERATION AIR BYPASS VALVE	1	PISCO	JNC6-01	
				Prepare	it by the customer.
105	Rotary valve (Air operated		CKD	CHB-V1-10-0L-□	(We recommend it.)
100	type 2 port valve)		CVD	(□ : Coil voltage)	(we recommend it.)
200	Air supply				
203	Booster regulator		SMC	VBA40series	//
204	Air tank		SMC	VBAT20/38series	//
212	Mist separator		SMC	AFM30series	//
230	Filter regulator		SMC	AW30series	//





Setting of EcoBooster INNER PRESSURE CONTROL SWITCH

	Acceleration Air OUT1		Mist Air OUT2			
Air Supply	n_1	H_1	[n_2	H_2	
0.4MPa	0.170	0.020		0.185	0.015	Exam
0.5MPa	0.220	0.020		0.235	0.015	
0.6MPa	0.320	0.020		0.335	0.015	
0.7MPa	0.420	0.020		0.435	0.015	
※ 0.8MPa	0.520	0.020		0.535	0.015	

ple for Supply Air Pressure of 0.4MPa

💥 EB7EP AC Solenoid Type and EB3P, EB3EP Maximum Pressure : 0.7MPa

Adapted from SMC Co., Ltd. home page -

Model: ISE20C-X/Y-M-C01L-W

Display unit:MPa Display color: Nomally red

OUT1 Output mode: Hysteresis OUT2 Output mode: Hysteresis

Normal/Reveresed Output: Reveresed Normal/Reveresed Output: Reveresed.

Response time: 1.5ms Response time: 1.5ms Response Line 1. Sile Response Line 1.

OUT1 Set value n_1:0.170 MPa Hysteresis H_1: 0.020 MPa OUT2 Set value n_2: 0.185 MPa Hysteresis H_2: 0.015 MPa

Setting Procedure 1 (3-step setting) The usual procedure Other settings are set at the shipping time from FUJI BC ENGINEERING.

Setting items: OUT1, OUT2 Set value [n_1, n_2]				
Mode	Display	Operation procedure		
Preparation, measurement mode	0.000 n_f 0.500	Connect 12 to 24 VDC power supply. Go to measurement mode.		
Entering the set value [n_1] for OUT1	0.000 n-1 0.500	Enter OUT1 set value $[n_1]$ on the sub display with \blacktriangle or \blacktriangledown buttons.		
	0.000 n=1 0.170	Press the \textcircled{s} button once. Go to the setting of set value $[n_1]$ for OUT1. Press the \blacktriangle or \blacktriangledown button to change the set value on the right side of the sub display (see left).		
	0.000 n=1 0.170	Press the ® button once. Return to measurement mode.		
Entering the set value [n_2] for OUT2	0.000 n_2 0.500	Enter OUT2 set value $[n_2]$ on the sub display with \blacktriangle or \blacktriangledown buttons.		
	0.000 n_2 0.185	Press the \S button once. Go to the setting of set value $[n_2]$ for OUT2. Press the \blacktriangle or \blacktriangledown button to change the set value on the right side of the sub display (see left).		
	0.000 n_2 0.185 ↓	Press the ⑤ button once. Return to measurement mode.		
	Settings complete.			

Setting items: OUT1, OUT2	Set value [n_1, n_2]、H	ysteresis [H_1,H_2]、Response time
Mode	Display	Operation procedure
Preparation, measurement mode	0.000	Connect 12 to 24 VDC power supply. Go to measurement mode.
Entering the set value [n_1] for OUT1	5E Ł	Hold down the $\ensuremath{\circledS}$ button for at least 1 seconds, but no more than 3 seconds [SEt] will be shown on the main display.
	0.000 n_1 0.500	Release the button while [SEt] is showing on the display. The main display will show the current pressure value and the left sub display will show the set value $[n_1]$. The set value will be blinking on the right sub display. Go to the setting of set value $[n_1]$ for OUT1.
	0.000	Press the \blacktriangle or \blacktriangledown button to change the set value on the right side of the sub display (see left).
Setting of hysteresis [H_1] for OUT1	0.000 H_ (0.050	Press the $\$ button once. Go to hysteresis [H_1] settings for OUT1.
	0.000 H_ I 0.020	Press the \blacktriangle or \blacktriangledown button to change the set value on the right side of the sub display (see left).
Setting response time for OUT1	0.000 dt	Press the ⑤ button once. Go to response time settings for OUT1.
	0.000 dt 1.5	Press the \blacktriangle or \blacktriangledown button to change the value on the right side of the subscreen (see left).
Entering the set value [n_2] for OUT2	5E Ł dł 1 1.5	Hold down the $\mbox{\Large @}$ button for at least 1 seconds, but no more than 3 seconds [SEt] will be shown on the main display.
	0.000 n_2 0.500	Press the $\$$ button once. Go to the setting of set value $[n_2]$ for OUT2.
	0.000 n_2 0.185	Press the \blacktriangle or \blacktriangledown button to change the set value on the right side of the sub display (see left).
Setting of hysteresis [H_2] for OUT2	0.000 H_2 0.050	Press the ⑤ button once. Go to hysteresis [H_2] settings for OUT2.
	0.000 H_2 0.0 IS	Press the \blacktriangle or \blacktriangledown button to change the set value on the right side of the sub display (see left).
Setting response time for OUT2	0.000 4£2	Press the ⑤ button once. Go to response time settings for OUT2.
	0.000 dt2 1.5 ↓	Press the \blacktriangle or \blacktriangledown button to change the value on the right side of the subscreen (see left).
Measurement mode	0.000	Hold the ® button for 2 second or longer. Return to measurement mode.
	Settings complete.	

Mode	Display	Set value [n_1, n_2], Hysteresis [H_1, H_2], Response time, Display cold Operation procedure
Preparation, measurement mode	0.000 P_1 0.500	Connect 12 to 24 VDC power supply. Go to measurement mode.
Function selection mode	F [] Un it MPR	Hold down the \textcircled{S} button for at least 3 seconds, but no more than 5 seconds [F 0] will be shown on the main display. Release the button when [F 0] is displayed to return to function selection mode.
Display unit settings	F [] Un it MPR	Display [F 0] by pressing the▲ or ▼ button in function selection mode. Press the ⑤ button once. Go to display unit settings.
	F [] Un it MPR	Press the \blacktriangle or \blacktriangledown button to change the value on the right side of the subscreen (see left).
	F [] Un it MPR	Press the ③ button once. Return to function selection mode.
Setting output mode for OUT1	E I	Display [F 1] by pressing the▲ or ▼ button in function selection mode. Press the ⑤ button once. Go to output mode settings for OUT1.
	E	Press the \blacktriangle or \blacktriangledown button to change the value on the right side of the sub screen (see left).
Setting of nomal/reversed output for OUT1	F lot -P	Press the ⑤ button once. Go to normal/reversed output settings for OUT1.
	F lot l-n	Press the \blacktriangle or \blacktriangledown button to change the value on the right side of the sub screen (see left).
Entering the set value [n_1] for OUT1	F 1 0.500	Press the \textcircled{s} button once. Go to the setting of set value [n_1] for OUT1.
	F n-1 0.170	Press the \blacktriangle or \blacktriangledown button to change the set value on the right side of the sub display (see left).
Setting of hysteresis [H_1] for OUT1	F H_ I 0.050	Press the $\$ button once. Go to hysteresis $[H_1]$ settings for OUT1.
	F H_ I 0.020	Press the \blacktriangle or \blacktriangledown button to change the set value on the right side of the sub display (see left).
Setting response time for OUT1	F dt l	Press the (§) button once. Go to response time settings for OUT1.
	F 1.5	Press the \blacktriangle or \blacktriangledown button to change the value on the right side of the subscreen (see left).

Î		1
Display color settings	F [506]	Press the (§) button once. Go to display color settings.
	F CoL rEd	Press the ▲ or ▼ button to change the value on the right side of the sub screen (see left).
	PORT HAZ	Press the ⑤ button once. Return to function selection mode.
Setting output mode for OUT2	F 5	Display [F 2] by pressing the▲ or ▼ button in function selection mode. Press the ⑤ button once. Go to output mode settings for OUT2.
	POF5 HA2	Press the \blacktriangle or \blacktriangledown button to change the value on the right side of the subscreen (see left).
Setting of nomal/reversed output for OUT2	F 2	Press the ⑤ button once. Go to normal/reversed output settings for OUT2.
	F 2	Press the \blacktriangle or \blacktriangledown button to change the value on the right side of the subscreen (see left).
Entering the set value [n_2] for OUT2	F 2	Press the \textcircled{s} button once. Go to the setting of set value $[n_2]$ for OUT2.
	F 2	Press the ▲ or ▼ button to change the set value on the right side of the sub display (see left).
Setting of hysteresis [H_2] for OUT2	F 2 H_2 0.050	Press the ⑤ button once. Go to hysteresis [H_2] settings for OUT2.
	F 2 H_2 0.0 15	Press the ▲ or ▼ button to change the set value on the right side of the sub display (see left).
Setting response time for OUT2	F 2	Press the (§) button once. Go to response time settings for OUT2.
	F 2	Press the ▲ or ▼ button to change the value on the right side of the sub screen (see left).
Display color settings	F Z	Press the © button once. Move to display colour settings; this is the same as that of OUT1, which has already been set.
	F Z	Press the ® button once. Return to function selection mode.
Measurement mode	0.000	Hold the ⑤ button for 2 second or longer. Return to measurement mode.
	Settings complete.	
Zero-clear	0.000 n_1 0.190	Press the▲ and ▼ buttons simultaneously for around 1 second under atmospheric pressure. This will reset the displayed value to zero.

■[F99] Reset to default settings

If the product settings are uncertain, the SMC default values can be restored.

<Operation>

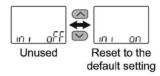
Press the or button in function selection mode to display [F99].

Press the button. Move on to reset to default settings.

Reset to default settings

Press the or button to select reset to default settings.





[oFF] (not use) is selected Press the button to set.

Return to function selection mode.

[on] (reset to default settings) is selected

Press the 5 and V buttons simultaneously for 5 second or longer.

All settings are returned to the default values. Return to function selection mode.

[F99] Reset to default settings completed

Return to [Digital Pressure Switch Operation Manual], Perform Setting Procedure 3 (Function Settings).