

P2 : 3-Wire Proximity Switch for Gripping Detection (Length 16mm)*1

Notes :

- %1. Please contact us for PNP output.
- %2. Please consider using model JES for PNP output.

Electric Cable Length *3

B2 : 3-Wire Solid State Auto Switch^{*2}

B3C : 3-Wire L-Shaped Solid State Auto Switch^{*2}

Note:

Blank : 1m

: 3m L

*3. **3** Electric Cable Length is chosen only for $A \square / B \square$ Auto Switch of **2** Switch Type. For $P\Box$: Proximity Switch for Gripping Detection, electric cable length is all 2m.

Application Table

Switch Type	2-Wire Reed	d Auto Switch	3-Wire	Solid State Au	ito Switch	2-Wire Solid State Switch Type for Gri		3-Wire Prox	roximity Switch	
Model No.	JEP0000-A1	JEP0000-A2	JEP0000-B1	JEP0000-B2	JEP0000-B3C	JEP0000-B3B	Model No.	JEP0000-P	JEP0000-P2	
SW12000							WPP0300	•	•	
							WPP0400		•	
							WPP0500			
							WPP0600			
							WPP0800			
							WPP1000			
							WPD1250			
							WP00200			
							WPQ0200			
							WPQ0230			
							WPQ0300			
							WPQ0400			
WPAUIZU							WPQ0500			
WPA0160							WPQ0800			
WPA0200							WPQ0800			
WPA0250		•		•	•	•	WPQ1000	•		
WPB0160		•								
WPB0200		•		•	•	•				
WPB0250		•			•	•				
WPE0160	•	•	•	•	•	•				
WPE0200	•		•							
WPE0300	•		•							
WPE0400	•		•							
WPE0500	•		•							
WPE0800	•									
WPF0100		-	Not Ap	plicable	•					
WPF0120		•		•	•	•				
WPF0160		•	-	•	•	•				
WPF0200	•		•							
WPF0300	•	-	•	-	-					
WPH0100		•		•	•	•				
WPH0160		•		•	•	•				
WPH0200	•									
WPJ0120		-	Not Ap	plicable	-	-				
WPJ0160						•				
WPJ0200	•		•							
WPJ0250	•		•							
WPJ0300	•		•							
WPJ0400	•		•							
WPS0160-C		•		•	•	•				
WPS0200-C		•		•	•	•				
WPW0500-C						•				
WPW0600-C						•				
WVGT -T										

	Model No. Indication	Application Table	Specific	ations Circ	Electric uit Diagram	External Dimensions	Cautions P.411	((/ K	
	© JEP0000-A [💷 (2-Wire Re	eed Auto	Switch)					Locating + Clamp
Specifications						Locating			
									Hand • Clamp
	Model No.	JE	P0000-A1	JEP0000-A1L	JEP0000-A2	JEP0000-A2L	JEP0000-A2V	JEP0000-A2VL	
	Name	Reed Auto Switch						Support	
	Wiring Type		2-Wire						
	A 11 1 1 1		Value					Valve • Coupler	

modelitor								
Name		Reed Auto Switch						
Wiring Type		2-Wire						
Applicable Load		Relay, Programmable Logic Controller (PLC)					Valve • Coupler	
Lood Voltage / Lood Current		Less than DC24V / 40mA						
Load Voltage / Load Current		Less than AC100V / 20mA						
Internal Voltage Drop		Less than 3V						
Operating Time		1ms						
Ambient Temperature		-10 ~ 60°C						
Withstand Voltage	AC1	AC1500V (There should be no abnormalities in 1 min. application.)						
Leakage Current		0					SWP	
Shock Resistance		30G					High-Power Pull Stud Clamp	
Protection Circuit		None					WPT	
Protection Grade		IP67 (IEC Standard)					FA Pneumatic	
Indicator Light		Red LED illuminates when turned ON					Hole Clamp	
Electric Cable Length	1m	3m	1m	3m	1m	3m	WKH	
							1 177102 01	

Electric Circuit Diagram

6.2



Note :

1. Auto switch will instantly break due to over loading current if turning on the auto switches without connecting the load. (Refer to Notes on Wiring 4) and 5) on P.413.)

External Dimensions : JEP0000-A1/A1L



External Dimensions : JEP0000-A2/A2L



External Dimensions : JEP0000-A2V/A2VL



High-Power				
Pulls	itud Clamp			
	WPT			
	JES			
- A D.				
- A Pr Hole	Clamp			
TOTE	WKH			
	WINI			
iftin	g			
lole	Clamp			
	SWJ			
2-11-1	ock			
vlin [°]	der			
	WKA			
neu	matic			
Robo	tic Hands			
	WPW-C			
	WPS-C			
	WPA			
	WPH			
	WPP			
	WPQ			
	e 11 1			
Auto	Switch			
TOX	miley Switch			

High-Power Pneumatic Hole Clamp SWE High-Power Pneumatic

JEF

Swing Clamp WHE

High-Power Pneumatic Link Clamp WCE

> Pneumatic Hole Clamp SWA

Pneumatic Swing Clamp

WHA Double Piston Pneumatic Swing Clamp

WHD

Pneumatic Link Clamp WCA

Air Flow Control Valve BZW

Manifold Block WHZ-MD

© JEP0000-B1/B1L/B2/B2L (3-Wire Solid State Auto Switch)

Specifications

Model No.	JEP0000-B1	JEP0000-B1L	JEP0000-B2	JEP0000-B2L	
Name	Solid State Auto Switch				
Wiring Type	3-Wire				
Applicable Load	Relay, Programmable Logic Controller (PLC))	
Output Type	NPN				
Load Voltage / Load Current	Less than DC5 ~ 28V / 50mA				
Internal Voltage Drop	Less than 0.8V				
Leakage Current	Less than 0.1mA				
Current Consumption	Less than 10mA				
Operating Time	Less than 1ms				
Ambient Temperature	−10 ~ 60°C				
Withstand Voltage	AC1500V (There should be no abnormalities in 1 min. application.)				
Insulation Resistance	More than 50M Ω / DC500V (Between the Case and Signal Cable)			gnal Cable)	
Shock Resistance	30G				
Protection Grade	IP67 (IEC Standard)				
Indicator Light	Red LED illuminates when turned ON				
Electric Cable Length	1m	3m	1m	3m	

C Electric Circuit Diagram



External Dimensions : JEP0000-B1/B1L



External Dimensions : JEP0000-B2/B2L



	Model No. Indication	Application Table	Specifications	Electric Circuit Diagram	External Dimensions	Cautions P.411	
_							Locating

JEP0000-B3C/B3CL (3-Wire L-Shaped Solid State Auto Switch)

Specifications

Model No.	JEP0000-B3C	JEP0000-B3CL			
Name	Solid State Auto Switch				
Wiring Type	3-Wire				
Applicable Load	Relay, Programmable	Logic Controller (PLC)			
Output Type	NI	PN			
Load Voltage / Load Current	DC5 ~ 28	V / 50mA			
Internal Voltage Drop	Less th	an 0.8V			
Leakage Current	Less than 0.1mA				
Current Consumption	Less than 10 mA				
Operating Time	Less than 1ms				
Ambient Temperature	−10 ~ 60°C				
Withstand Voltage	AC1500V (There should be no abnormalities in 1 min. application.)				
Insulation Resistance	More than 100M Ω / DC500V (Between the Case and Signal Cable)				
Shock Resistance	30G				
Protection Grade	IP67(IEC Standard)				
Indicator Light	Red LED illuminates when turned ON				
Electric Cable Length	1m	3m			

C Electric Circuit Diagram



External Dimensions : JEP0000-B3C/B3CL



Hand • Clamp
Support
Valve • Coupler
Cautions • Others
Pallet Gripper WVA
Locating Pin Clamp
High-Power Pull Stud Clamp
WPT JES
FA Pneumatic Hole Clamp
WKH Lifting
Hole Člamp SWJ
Ball Lock Cylinder
 Pneumatic
Robotic Hands WPW-C
WPA WPH
WPP WPQ
Auto Switch Proximity Switch
JEP High-Power Pneumatic
Hole Clamp SWE
High-Power Pneumatic Swing Clamp
High-Power Pneumatic
WCE
Hole Clamp SWA
Pneumatic Swing Clamp
WHA Double Piston
Pneumatic Swing Clamp
WHD Pneumatic
сник статир

Clamp Locating

WCA Air Flow Control Valve BZW

Manifold Block WHZ-MD

JEP0000-B3B/B3BL (2-Wire L-Shaped Solid State Auto Switch)

Specifications

Model No.	JEP0000-B3B	JEP0000-B3BL		
Name	Solid State Auto Switch			
Wiring Type	2-W	/ire		
Applicable Load	Relay, Programmable	Logic Controller (PLC)		
Load Voltage / Load Current	Less than DC10)~28V / 50mA		
Internal Voltage Drop	Less th	ian 5V		
Leakage Current	Less tha	an 1mA		
Current Consumption	Less than 10 mA			
Operating Time	Less than 1ms			
Ambient Temperature	−10~60℃			
Withstand Voltage	AC1500V (There should be no abnormalities in 1 min. application.)			
Insulation Resistance	More than 50M Ω / DC500V (Between the Case and Signal Cable)			
Shock Resistance	30G			
Protection Grade	IP67 (IEC Standard)			
Indicator Light	Red LED illuminates when turned ON			
Electric Cable Length	1m	3m		

C Electric Circuit Diagram

...



External Dimensions : JEP0000-B3B/B3BL



Model No. Indication	Application Table	Specifications	Electric Circuit Diagram	External Dimensions	Cautions P.411	
						1
© JEP0000-P	/P2 (3-Wire Pr	oximity Switch	for Gripping [Detection)		Locating + Clamp

Specifications

Model No.	JEP0000-P	JEP0000-P2			
Name	Proximity Switch for Gripping Detection				
Wiring Type	3-Wire				
Output Type	NPN				
Moving Distance	1mm	±10%			
Voltage Range	DC10 ~ 30V				
Opening / Closing Voltage	Less than 200mA				
Current Consumption	Less than 10mA				
Response Frequency	800Hz				
Ambient Temperature	-25 ~ 70℃				
Withstand Voltage	AC2000V (There should be no abnormalities in 1 min. application				
Protection Grade	IP67 (IEC Standard)				
Indicator Light	Red LED illuminates when turned ON				
Electric Cable Length	2m				

C Electric Circuit Diagram



External Dimensions : JEP0000-P



C External Dimensions : JEP0000-P2



Valve • Coupler
Cautions • Others
WVA
Locating
SWP
High-Power Pull Stud Clamp
WPT
JES
FA Pneumatic Hole Clamp
WKH
Lifting Hole Clamp
Ball Lock Cylinder
WKA
Pneumatic Robotic Hands
WPW-C
WPS-C
WPA WPH
WPP
WPQ
Auto Switch
Proximity Switch JEP
High-Power Pneumatic
Hole Clamp
SWE
High-Power Pneumatic
WHF
High Dower Partice
riigii-Power Pneumatic Link Clamp
WCE
Pneumatic
Hole Clamp
SWA
Pneumatic
Swing Clamp
VVIIA
Double Piston Pneumatic
Swing Clamp
WHD
Pneumatic
Link Clamp
VALC A
WCA

Locating

Support

BZW

WHZ-MD

Manifold Block

Cautions

- Notes for Design
- 1) Check the Specifications
- Please use each product according to the specifications. The product may be damaged or malfunction if used outside the range of load or specifications.
- 2) Notes on Use in the Interlock Circuit
- When the auto switch is used for an interlock signal that requires high reliability, please use a double interlock system by providing a mechanical protection function. Or by using another safety switch (sensor) together with the auto switch. Also, please perform periodic maintenance and confirm proper operation.
- 3) Wiring should be prepared as short as possible.
- For the reed auto switch, if the wiring length to the load is excessively long, inrush current to the auto switch increases and the operational life span will be shortened. (Remains ON)
- If the wiring length of the solid state auto switch is long, we recommend installing the ferrite core on both ends of the electric cable for noise control.
- 4) Notes when connecting to a load that generates surge voltage.
- When connecting a load that generates surge voltage such as relay, please use the auto switch equipped with junction protective circuit or use a junction protective element connecting to the auto switch in parallel.
- If surge voltage is repeatedly generated even with the auto switch equipped with junction protective circuit, it may damage the contact. In this case, please reduce the surge voltage by connecting a surgeabsorption element to a surge-generating source (load) in parallel.
- 5) Notes when connecting auto switches in series.
- Due to voltage drop (refer to internal voltage drop on the specifications) caused by LED, voltage drop of n auto switches connected in series will be multiplied by n times. As a result, in some cases the load will not activate even if the auto switch drives properly.
- 6) Be careful with the polarity when wiring.
- When connected reversely, the auto switch may malfunction or be damaged.

- 7) When multiple cylinders or robotic hands are placed close together.
- Please provide enough space when using multiple actuators such as cylinders or robotic hands equipped with auto switches.
 (If allowable distance of each actuator is specified please follow specified instructions.) If they are too close, auto switches may malfunction due to magnetic interference.
- 8) Secure space for maintenance and inspection
- Please secure space for maintenance and inspection of auto switches when setting actuators such as cylinders and robotic hands equipped with auto switches.





Locating + Clamp Locating

Hand · Clamp

Valve • Coupler

Cautions • Others

Pallet Gripper

Pin Clamp SWP

High-Power Pull Stud Clamp

_____WVA

Support

Notes on Operating Environment

1) Never use the product in an atmosphere with explosive gases.

- Auto switches are not designed to prevent explosion. Do not use the product in an atmosphere with explosive gases since it may cause serious explosions.
- 2) Do not use the product in an area where a magnetic field is generated.
- Auto switches may malfunction, or internal magnet actuators, such as cylinders or robotic hands, equipped with auto switches will be demagnetized.
- 3) Do not use the product in an environment where the auto switches are continuously exposed to water or coolant.
- Although IEC standard IP67 structure is satisfied, please avoid using auto switches in an environment where continuously exposed to water or coolant. This may cause insulation failure or malfunction.
- 4) Do not use the product in an environment with oil or chemicals.
- If auto switches are used in an environment with coolant or cleaning solvent, even in a short time, they may be adversely affected by improper insulation, malfunction due to swelling of potting resin and/or hardening of electric cable.
- Do not use the product in an environment subject to large temperature cycle.
- Heat cycles other than ordinary changes in temperature may adversely affect the internal structure of auto switches.
- Avoid accumulation of steel dust and close connection of magnetic materials.
- An amount of steel chips or steel dusts, such as sputters of welding accumulate around an actuator. Cylinders, robotic hand equipped with auto switches and or magnetic materials (those attracted by magnet) are gathered closely to the actuator. These can weaken internal magnet actuators.
- 7) Do not use the product in an environment with excessive impact.
- Under the condition of the excessive impact of more than 30G, the contact of the reed auto switch will malfunction and the indicator light may signal or may be disconnected.

Installation Notes

- 1) Do not drop or bump.
- Do not drop, bump or apply excessive impact on auto switches. The auto switches may be damaged and cause malfunction.
- 2) Tighten auto switches with appropriate tightening torque.
- Please follow the tightening torque below.
- Excessive tightening torque may damage the mounting screw, fitting or main body of the auto switch.

Also, mounting position may be shifted due to insufficient tightening torque.

Mounting Screw Size	Tightening Torque (N ⋅ m)
M2.3×0.4	0.15
M2.5×0.45	0.25

- Do not carry cylinders or robotic hands by holding the electric cable of the auto switch.
- It may break the electric cable or damage the internal element.
- Do not fix auto switches with the mounting screws other than attached in main body of the auto switches.
- Using non-designated screws may damage auto switches.

5) Install the auto switches at the center of the operating area.

- Installation position of auto switches should be adjusted so that a detected object (piston etc.) stops at the center of operating range. (Installation position shown in the catalog shows the most suitable fixed position of stroke end.) Please refer to P.345 for WPS, P.355 for WPA, P.363 for WPH, P.375 for WPP and P.391 for WPQ. If the auto switches are installed at the edge of operating range (near the boundary of ON and OFF), output movement may be unstable.
- Installation position of the auto switches should be adjusted by checking actual operating state.
- Depending on the installation environment, actuators such as cylinders and robotic hands may not operate properly even if they are installed to the appropriate position.
 Make sure to check the operating condition even when mounting them at the middle of the stroke.

VV P I			
JES			
FA Pneumatic Hole Clamp			
WKH			
Lifting Hole Clamp			
SWJ			
Ball Lock Cylinder			
WKA			
Pneumatic Robotic Hands			
WPW-C			
WPS-C			
WPA			
WPH			
WPP			
WPQ			
Auto Switch Proximity Switch			

High-Power Pneumatic Hole Clamp SWE

High-Power Pneumatic Swing Clamp WHE

High-Power Pneumatic Link Clamp WCE

Pneumatic Hole Clamp SWA

Pneumatic Swing Clamp WHA

Double Piston Pneumatic Swing Clamp

WHD

Pneumatic Link Clamp WCA

Air Flow Control Valve BZW

Manifold Block WHZ-MD

412

Cautions

Notes on Wiring

- 1) Check the insulation of wiring.
- Insulation failure (interference with other circuit, ground fault, and insulation failure between terminals) may send excessive voltage or current to the auto switches causing damage.
- 2) Do not place wires and auto switch cables close to other cables and high voltage cables.
- Otherwise, surge voltages will be induced creating noise and leading to malfunctions.
- 3) Repeated bending stress or stretching force should be avoided on electric cables.

 Wiring with bending stress or stretching force repeatedly applied on electric cables will prematurely breakdown.
 Bending stress or stretching force applied on the connecting area of electric cables and main body of the auto switches will damage the electric cables.

Auto switches or wires should not be moving especially near the connecting areas.

 Make sure to check the load state (connection and current value) before turning on the power.

• For 2-Wire Type

Auto switches will instantly break due to over loading current if turning on the auto switches without connecting the load (Shorted Load Circuit). The above statement is also applied to the condition when the brown cable (+, output) of 2-wire type is directly connected to the (+) power terminal of a fixture and etc.

- 5) Avoid shorted load circuit.
- Reed Auto Switch

Auto switches will instantly break due to over loading current if turning on the auto switch in load short circuit condition. Solid State Auto Switch

Be aware of auto switch breakages when products with PNP output is not equipped with short-circuit protection.

- 6) Avoid wrong wiring
- Reed Auto Switch

The electric circuit has polarities. The reed switch can operate even with reversed connection, but LED light will not illuminate. Also, flowing excessive current will damage LED and it will not operate properly.

Solid State Auto Switch

In case of 2-wire type, even if connected reversely, the auto switch will not be damaged due to protection circuit, but it is always ON.

If reversely connected under short circuit condition, the auto switch will be damaged.

In case of 3-wire type, even if the connections are reversed (power supply line "+" and "-"), the auto switch will be protected by a protection circuit.

However, if connecting the power supply "+" to the blue cable and "-" to the black cable, the auto switch will be damaged.

Notes on Handling

- 1) It should be operated by qualified personnel.
- Machines and devices with hydraulic and pneumatic equipment should be operated and maintained by qualified personnel.
- 2) Do not operate or remove the product unless the safety protocols are ensured.
- ① The machine and equipment can only be inspected or prepared when it is confirmed that the safety devices are in place.
- ② Before the product is removed, make sure that the abovementioned safety devices are in place. Shut off the pressure and power source, and make sure no pressure exists in the air and hydraulic circuits.
- ③ After stopping the product, do not remove until the temperature drops.
- ④ Make sure there is no trouble/issue in the bolts and respective parts before restarting the machine or equipment.
- 3) Do not disassemble or modify.
- If the equipment is taken apart or modified, the warranty will be voided even within the warranty period.



Locating + Clamp

Locating

Hand • Clamp

Support

Valve • Coupler

Cautions • Others

Pallet Gripper WVA

Locating Pin Clamp SWP

High-Power Pull Stud Clamp

WPT JES

FA Pneumatic Hole Clamp WKH

> Lifting Hole Clamp SWJ

Ball Lock Cylinder WKA

Pneumatic Robotic Hands

 WPW-C

 WPS-C

 WPA

 WPH

 WPP

Auto Switch Proximity Switch JEP

High-Power Pneumatic Hole Clamp SWE

High-Power Pneumatic Swing Clamp WHE

High-Power Pneumatic Link Clamp WCE

Pneumatic

Hole Clamp SWA

Pneumatic Swing Clamp WHA

Double Piston Pneumatic Swing Clamp WHD

Pneumatic Link Clamp WCA

Air Flow Control Valve BZW

Manifold Block WHZ-MD

Maintenance • Inspection

Conduct the below maintenances and inspections periodically in order to avoid unintended malfunctions and to ensure the safety.

- 1) Removal of the Product and Shut-off of Pressure Source
- Before removing the product, make sure that safety devices and preventive devices are in place. Shut off the pressure and power source, and make sure no pressure exists in the air and hydraulic circuits.
- Make sure there is no trouble/issue in the bolts and respective parts before restarting.
- 2) Never touch terminals while the power is on.
- It will cause electric shock, malfunction and damage to the auto switches.
- 3) Retightening of Mounting Screws
- Retighten the screws after adjusting the mounting position when the mounting position of the auto switches is shifted due to the looseness of the mounting screws.
- 4) Check if the electric cable is damaged or not.
- Damaged cables may cause insulation failure.
 Exchange the auto switch or repair the reed if there is damage on the electric cable.
- 5) Check the setting position of the detector.
- Confirm the set position is stopped at the center of the detecting range (the area that red LED illuminates).
- 6) Cleaning Auto Switches
- The auto switch should be clean. Do not use benzene, paint thinner or alcohol for cleaning. Doing so will cause scratches on the product and indications may be erased. If it is hard to remove stains from the product, wipe it out with a cloth soaked in a neutral detergent diluted with water. Wipe with a dry cloth to remove wet residue.
- 7) Product Storage
- Keep the product out of direct sunlight in a cool area where it is protected from water and humidity.
- 8) Please contact us for auto switch replacements.

• Warranty

Cautions

- Notes on Handling
- 1) It should be operated by qualified personnel.
- The hydraulic machine and air compressor should be operated and maintained by qualified personnel.
- 2) Do not operate or remove the product unless the safety protocols are ensured.
- ① The machine and equipment can only be inspected or prepared when it is confirmed that the safety devices are in place.
- ② Before the product is removed, make sure that the above-mentioned safety devices are in place. Shut off the pressure and power source, and make sure no pressure exists in the air and hydraulic circuits.
- ③ After stopping the product, do not remove until the temperature drops.
- ④ Make sure there is no trouble/issue in the bolts and respective parts before restarting the machine or equipment.
- Do not touch a clamp (cylinder) while it is working.
 Otherwise, your hands may be injured.



- 4) Do not disassemble or modify.
- If the equipment is taken apart or modified, the warranty will be voided even within the warranty period.

Maintenance and Inspection

- 1) Removal of the Machine and Shut-off of Pressure Source
- Before removing the product, make sure that the safety devices are in place. Shut off the pressure and power source and make sure no pressure exists in the air and hydraulic circuits.
- Make sure there is no trouble/issue in the bolts and respective parts before restarting.
- 2) Regularly clean the area around the piston rod and plunger.
- If it is used when the surface is contaminated with dirt, it may lead to packing seal damage, malfunctioning, fluid leakage.



- Regularly clean the reference surfaces (taper reference surface and seating surface) of locating products (SWT/SWQ/SWP/VRA/ VRC/VX/VXE/VXF/WVS/VWH/VWM/VWK).
- Locating products (except VRA/VRC/VX/VXE/VXF and SWR without air blow port) can remove contaminants with the cleaning function. When installing a workpiece or a pallet, make sure there are no contaminants such as thick sludge.
- Continuous use with dirt on components will lead to locating failure, fluid leakage and malfunction.



- 4) Regularly tighten pipe, mounting bolt, nut, snap ring, cylinder and others to ensure proper use.
- 5) Make sure the hydraulic fluid has not deteriorated.
- 6) Make sure there is a smooth action without an irregular noise.
- Especially when it is restarted after left unused for a long period, make sure it can be operated correctly.
- The products should be stored in the cool and dark place without direct sunshine or moisture.
- 8) Please contact us for overhaul and repair.

Warranty



Locating

Warranty

- 1) Warranty Period
- The product warranty period is 18 months from shipment from our factory or 12 months from initial use, whichever is earlier.
- 2) Warranty Scope
- If the product is damaged or malfunctions during the warranty period due to faulty design, materials or workmanship, we will replace or repair the defective part at our expense.
 Defects or failures caused by the following are not covered.
- ① If the stipulated maintenance and inspection are not carried out.
- ② Failure caused by the use of the non-confirming state at the user's discretion.
- ③ If it is used or operated in an inappropriate way by the operator.
 (Including damage caused by the misconduct of the third party.)
- ④ If the defect is caused by reasons other than our responsibility.
- (5) If repair or modifications are carried out by anyone other than Kosmek, or without our approval and confirmation, it will void warranty.
- ⑥ Other caused by natural disasters or calamities not attributable to our company.
- ⑦ Parts or replacement expenses due to parts consumption and deterioration.

(Such as rubber, plastic, seal material and some electric components.)

Damages excluding from direct result of a product defect shall be excluded from the warranty.

Clamp Locating

ocacing

Hand • Clamp

Support

Valve • Coupler

Cautions • Others

Cautions Installation Notes Maintenance/ Inspection Warranty

Company Profile Company Profile

> Our Products History

Index Search by Alphabetical Order

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Taiwan	FULL LIFE TRADING CO., LTD. Taiwan Exclusive Distributor	TEL. +886-2-82261860 FAX. +886-2-82261890 16F-4, No.2, Jian Ba Rd., Zhonghe District, New Taipei City Taiwan 23511	
Philippines	G.E.T. Inc, Phil. Philippines Exclusive Distributor	TEL.+63-2-310-7286 FAX. +63-2-310-7286 Victoria Wave Special Economic Zone Mt. Apo Building, Brgy. 186, North Caloocan City, Metro Manila, Philippines 1427	
Indonesia	PT. Yamata Machinery Indonesia Exclusive Distributor	TEL. +62-21-29628607 FAX. +62-21-29628608 Delta Commercial Park I, JI. Kenari Raya B-08, Desa Jayamukti Kec. Cikarang Pusat Kab. Bekasi 17530 Indonesia	

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Tokyo Sales Office	TEL. 048-652-8839 FAX. 048-652-8828 81, 4-chome, Onari-cho, Kita-ku, Saitama City, Saitama, 331-0815, Japan	
Nagoya Sales Office	TEL. 0566-74-8778 10-1, 2-chome, Misono-cho, A	FAX. 0566-74-8808 njo City, Aichi, 446-0076, Japan
Fukuoka Sales Office	TEL. 092-433-0424 8-10-101, 1-chome, Kamimuta	FAX. 092-433-0426 a, Hakata-ku, Fukuoka City, Fukuoka, 812-0006, Japan

Global Network









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