

Accessories



Model JBA
Pressure Switch



Model JGA/JGB
Pressure Gauge



Model JX
Manifold



Model PS
Coupler Switch

● Pressure Switch

Most suitable for checking circuit pressure. Resistant to vibration of 30 G and long life of more than one million cycles.

The switch equipped with light enables to check the action easily.



Model No. Indication

JBA **270** **0** - **0** **G** **D** **C** - **(INC.18.6MPa)** **(INC.23.0MPa)**

1
2
3
4
5
6
7

1 Pressure Range

070 }
270 } Refer to the specifications
380 } for setting pressure range.

2 Design No.

0 : Revision Number

3 Piping Option

Blank : Piping Option (Rc1/4 Thread)
G : Gasket Option (O-ring Sealing)

4 Option

Blank : Micro Switch 1 Contact Model, without Action Light
D : Micro Switch 2 Contact Model, without Action Light
L : Micro Switch 1 Contact Model, with LED Light

5 Cable

Blank : Without Cable
C : With Cable, Cable Length 160mm
(1 Contact Model: 2 Cores, 2 Contact Model: 4 Cores with LED Light : 3 Cores)

6 Set Pressure 1

Specify the set pressure with a proper unit symbol along with INC. (Pressure Increase Detection) or DEC. (Pressure Decrease Detection).

(ex.) Boosted Pressure Detection : 18.6MPa → (INC.18.6MPa)
Decreased Pressure Detection : 4.0MPa → (DEC.4.0MPa)
Boosted Pressure Detection : 700PSI → (INC.700PSI)

7 Set Pressure 2 Only when selecting 4 Option : D

The set pressure of the second contact in case of 4 D. Specify the set pressure with a proper unit symbol.

(ex.) Detecting normal pressure with Set Pressure 1 and abnormal pressure with Set Pressure 2.

※ Contact us when combining Pressure Increase Detection (INC.) and Pressure Decrease Detection (DEC.) for Set Pressure 1 and 2.

Specifications

Model No.		JBA0700		JBA2700		JBA3800	
		1-Contact Model	2-Contact Model	1-Contact Model	2-Contact Model	1-Contact Model	2-Contact Model
Set Pressure 1	INC. (Pressure Increase Detection) MPa	2.0 ~ 7.0	1.0 ~ 6.0	7.0 ~ 27.0	2.3 ~ 22.4	14.0 ~ 38.0	5.6 ~ 29.6
	DEC. (Pressure Decrease Detection) MPa	1.4 ~ 6.0	0.5 ~ 5.1	5.8 ~ 23.8	1.6 ~ 19.7	11.7 ~ 32.6	4.4 ~ 25.3
	Open/Close Pressure Difference ^{※1} MPa	0.6 ~ 1.0	0.5 ~ 0.9	1.2 ~ 3.2	0.7 ~ 2.7	2.3 ~ 5.4	1.2 ~ 4.3
Set Pressure 2	INC. (Pressure Increase Detection) ^{※2} MPa	-	(Set Pressure 1) ~ (Set Pressure 1) + 1.0	-	(Set Pressure 1) ~ (Set Pressure 1) + 4.6	-	(Set Pressure 1) ~ (Set Pressure 1) + 10.8
	DEC. (Pressure Decrease Detection) ^{※3} MPa	-	(Set Pressure 1) ~ (Set Pressure 1) + 0.9	-	(Set Pressure 1) ~ (Set Pressure 1) + 4.1	-	(Set Pressure 1) ~ (Set Pressure 1) + 7.3
	Open/Close Pressure Difference ^{※1} MPa	-	0.6 ~ 1.0	-	1.2 ~ 3.2	-	2.3 ~ 5.4
Max. Operating Pressure MPa		40					
Adjusting Screw Turn Ratio (Reference) MPa/Rev		0.5		2.2		3.9	
Shock Tolerance ^{※4}		30G					
Repeat Accuracy (of Maximum Set Pressure)		±1%					
Micro Switch	Electrical Rating	5A-250V (125V: with LED Light) AC, 5A-30V DC					
	Contact Model	Single-Pole Double-Throw (SPDT)					
LED Light	Rated Voltage ^{※5}	12 ~ 125V AC, 12 ~ 30V DC					
	Internal Resistance	33kΩ					
The Shape of the Terminal ^{※6}		#110 Tab Terminal (t=0.5)					
Mounting Position		Any Position					
Operating Temperature		0 ~ 70 °C					
Usable Fluid		General Hydraulic Oil Equivalent to ISO-VG-32					
Weight kg		0.6					

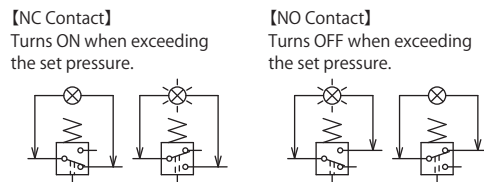
- ※1. It shows the difference of pressure when the switch shifts during pressure increase and decrease. It varies in proportion to the increase of set pressure.
- ※2. Set pressure range of 'Set Pressure 2' when 'Set Pressure 1' is specified as INC. (Contact us for the combination of INC. and DEC.)
- ※3. Set pressure range of 'Set Pressure 2' when 'Set Pressure 1' is specified as DEC. (Contact us for the combination of INC. and DEC.)
- ※4. Shock tolerance of the 2-contact model may become less than 30G depending on the set pressure and operating pressure.
- ※5. Make sure to install the load on the light circuit.
- ※6. For connection, use the special receptacle for #110 Tab and insert it parallel to the terminal.

Circuit Symbol

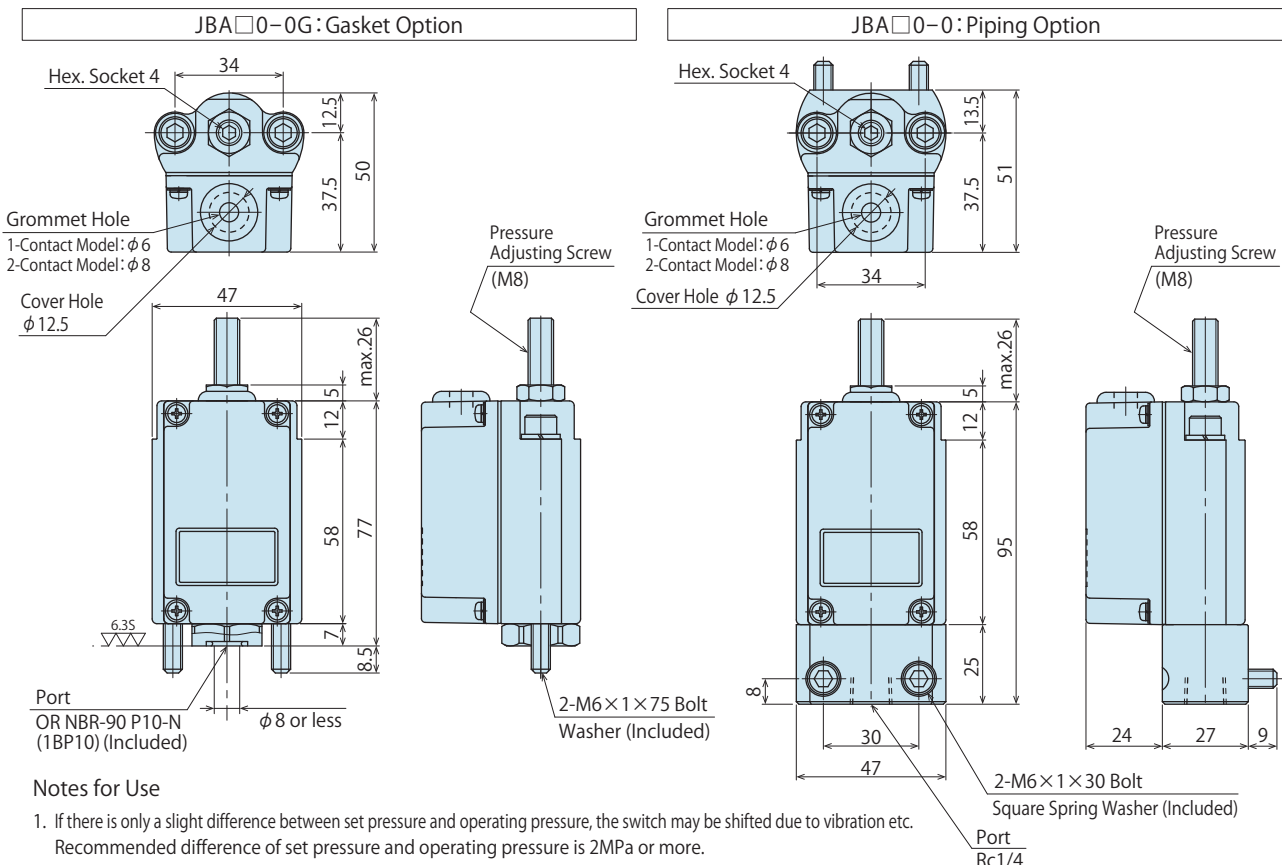
Option	Blank: 1-Contact Model	D: 2-Contact Model	L: 1-Contact Model, with LED
Circuit Symbol			

About the Light Circuit

- The contact point of the micro switch (NC or NO) can be selected.
- The light turns on at the opened state of the micro switch.



External Dimensions



- High-Power Series
- Pneumatic Series
- Hydraulic Series
- Valve / Coupler Hydraulic Unit
- Manual Operation Accessories
- Cautions / Others

- Screw Locator
- VXF/VXE
- Manual Expansion Locating Pin
- VX

- Manifold Block
- WHZ-MD
- LZY-MD
- LZ-MS
- LZ-MP
- TMZ-1MB
- TMZ-2MB
- DZ-M

- Manifold Block / Nut
- DZ-R
- DZ-C
- DZ-P
- DZ-B
- LZ-S
- LZ-SQ
- WNZ-SQ
- TNZ-S
- TNZ-SQ

Pressure Switch

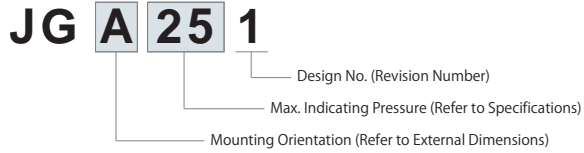
- JBA
- Pressure Gauge
- JGA/JGB
- Manifold
- JX
- Coupler Switch
- PS
- G-Thread Fitting

Pressure Gauge

Indicates pressure of hydraulic circuit.
Filled with glycerin for anti-vibration.



Model No. Indication

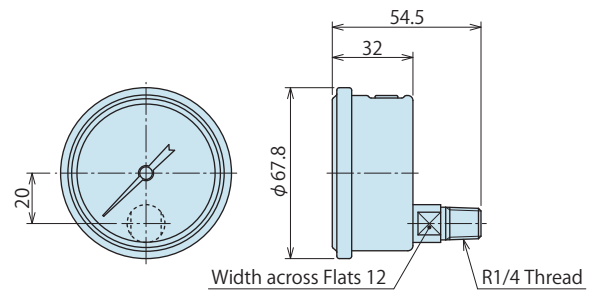
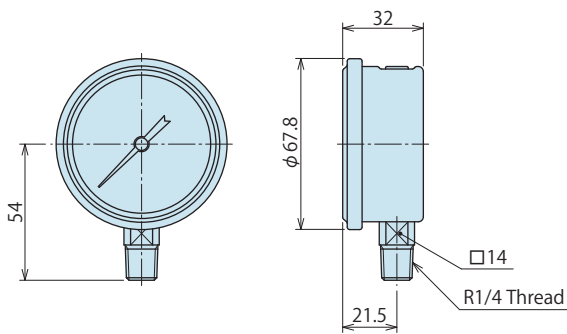


Specifications

Model No.	JGA161 JGB161	JGA251 JGB251	JGA401 JGB401	JGA601 JGB601
Max. Indicating Pressure ^{※1} MPa	16.0	25.0	40.0	60.0
Accuracy	JIS 1.6 class			
Weight kg	0.2			

Note ※1. Products with PSI unit is not available.
We recommend purchasing locally.

External Dimensions



Manifold

Relaying and manifold pipe is available.



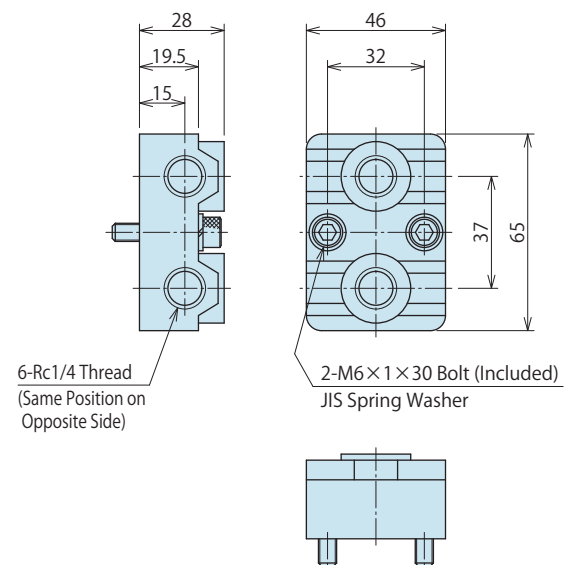
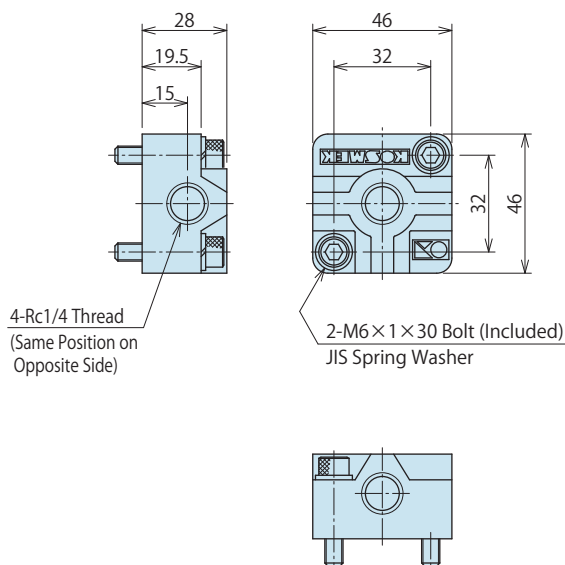
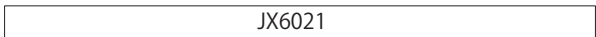
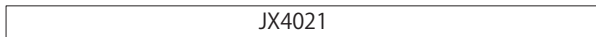
Model No. Indication



Specifications

Model No.	JX4021	JX6021
Weight kg	0.2	0.3

Model No. Indication

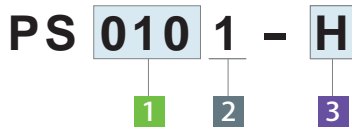


● Coupler Switch

Interlocking is possible between fixtures and fixture transfer machine by using a disconnecting detector of hydraulic quick coupler on hoses. Most appropriate when used with BK non-leak valve.



Model No. Indication



1 Adapted Coupler

010 : Coupler made by Nitto Kohki Corp. 2HS (Rc1/4 Thread)

071 : Coupler made by Nitto Kohki Corp. 3HS (Rc3/8 Thread)

2 Design No.

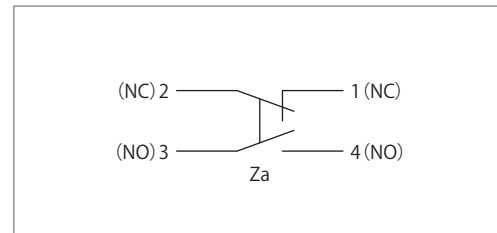
1 : Revision Number

3 Maker of the Switch

H : Made by Azbil Corp. (Standard)

T : Made by Omron Corp. (Option)

Circuit Symbol (Limit Switch)



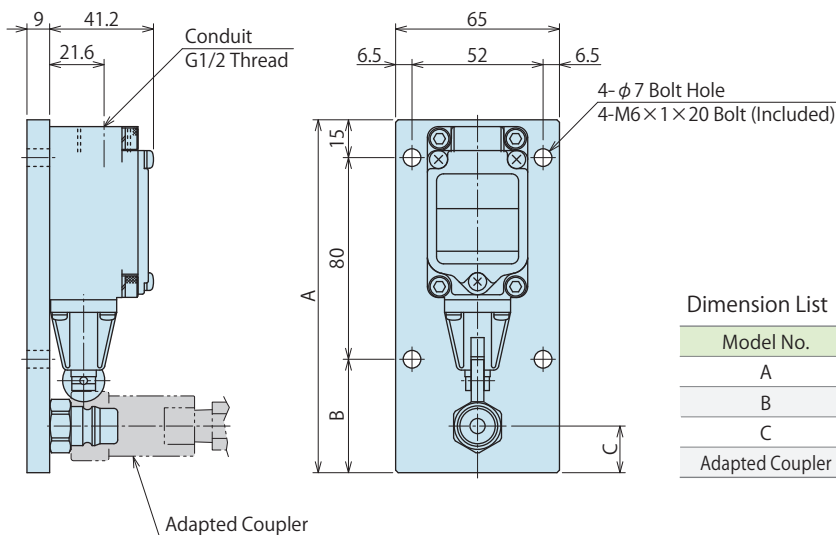
Specifications

Model No.	PS0101-H	PS0711-H
Limit Switch	5LS1-J (Made by Azbil Corp.)	
	10A-125,250,480VAC	
Electric Rating	0.8A-115VDC	
	0.4A-230VDC	
	0.1A-550VDC	
Circuit Composition	2-Circuit Double Off Model (1a1b)	
Compatible Coupler Part Number*1	2HS	3HS
Weight	kg 0.9	

Note :

※1. Please select the same specification as BK valve for the compatible coupler when BK valve is used together.

External Dimensions



Dimension List

Model No.	PS0101-H	PS0711-H
A	140	145
B	45	50
C	18.5	21
Adapted Coupler	2HS	3HS

High-Power Series

Pneumatic Series

Hydraulic Series

Valve / Coupler Hydraulic Unit

Manual Operation Accessories

Cautions / Others

Screw Locator

VXF/VXE

Manual Expansion Locating Pin

VX

Manifold Block

WHZ-MD

LZY-MD

LZ-MS

LZ-MP

TMZ-1MB

TMZ-2MB

DZ-M

Manifold Block / Nut

DZ-R

DZ-C

DZ-P

DZ-B

LZ-S

LZ-SQ

WNZ-SQ

TNZ-S

TNZ-SQ

Pressure Switch

JBA

Pressure Gauge

JGA/JGB

Manifold

JX

Coupler Switch

PS

G-Thread Fitting

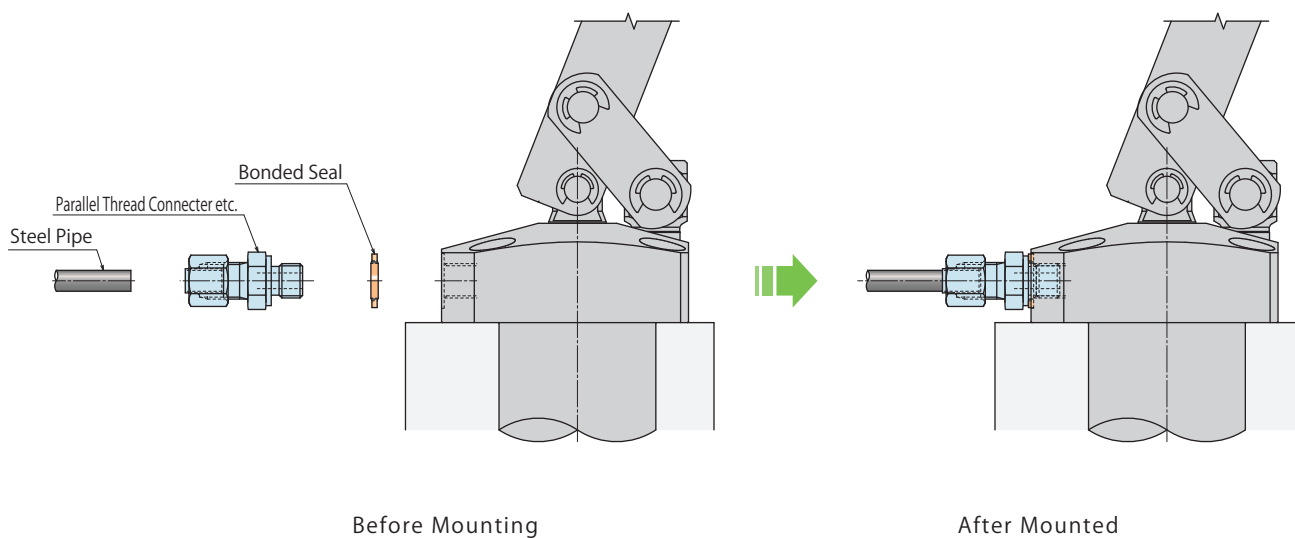
G-Thread Fitting



The products on this section are made by Ihara Science Corp.

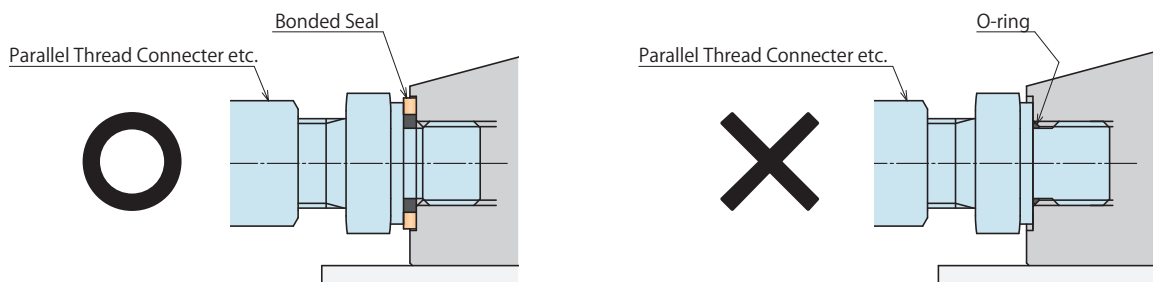
※ Appearance and specifications may be different due to the specification change made by the manufacturer.

Installataion



Note :

※ Please put bonded seal between clamp and parallel connector etc (fitting) for sealing G thread with our clamp.
It cannot be used in models with O-rings seal type.



Please put bonded seal between clamp and parallel connector etc (fitting).

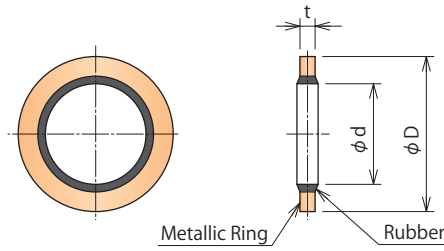
It cannot be used in models with O-rings seal type.

Bonded Seal

Model No. Indication

9UKP0C000 1

G Thread Size
(Refer to the following table.)



(mm)

Model No.	9UKP0C0001	9UKP0C0002	9UKP0C0003
Applicable Thread	G1/8	G1/4	G3/8
d	9.9	13.3	16.8
D	17	20.5	24
t	2	2	2

Note : 1. Rubber material is NBR, metallic ring is SPCC of JWG3141 (Cold pressure deferred steel sheet) used as standard specification. (Operating temperature -20°~120°C)

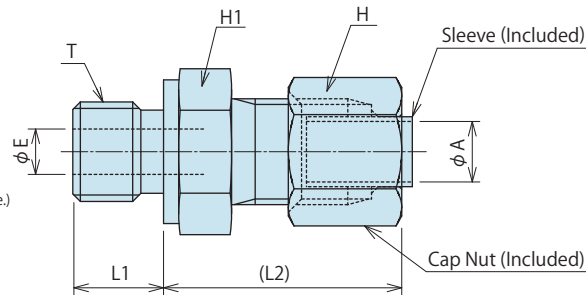
Parallel Thread Connector

Model No. Indication

9UKC0 06 0 1 E

G Thread Size
(Refer to the following table.)

Applicable Pipe External Diameter
(Refer to the following table.)



(mm)

Model No.	9UKC00601E	9UKC00801E	9UKC00602E	9UKC00802E	9UKC01203E
Applicable Pipe External Diameter φA	6	8	6	8	12
Applicable Thread T	G1/8	G1/8	G1/4	G1/4	G3/8
E	4	4	4	6	8
Hexagon Opposite Side H1	14	17	19	19	22
Hexagon Opposite Side H	14	17	14	17	22
L1	8	8	12	12	12
Tighten by Hand (L2)	(30.5)	(30.5)	(31.5)	(31.5)	(33.5)
Weight (kg)	0.030	0.042	0.048	0.053	0.087

Note : 1. Bonded seal is not included to this product. Please prepare separately.

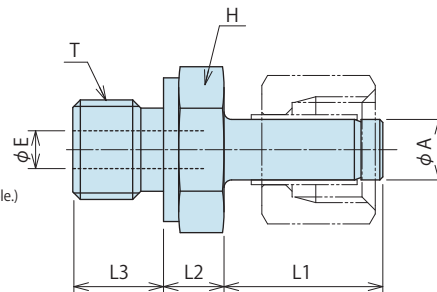
Parallel Thread Adapter

Model No. Indication

9UKHB 06 0 1 E

G Thread Size
(Refer to the following table.)

Applicable Pipe External Diameter
(Refer to the following table.)



(mm)

Model No.	9UKHB0601E	9UKHB0802E	9UKHB1203E
Applicable Pipe External Diameter φA	6	8	12
Applicable Thread T	G1/8	G1/4	G3/8
E	3	5	8
Hexagon Opposite Side H	14	19	22
L1	21	21	22.5
L2	7	8	9.5
L3	8	12	12
Weight (kg)	0.016	0.033	0.051

Note : 1. Bonded seal is not included to this product. Please prepare separately.

- High-Power Series
- Pneumatic Series
- Hydraulic Series
- Valve / Coupler Hydraulic Unit
- Manual Operation Accessories
- Cautions / Others

- Screw Locator
 - VXF/VXE
- Manual Expansion Locating Pin
 - VX

- Manifold Block
 - WHZ-MD
 - LZY-MD
 - LZ-MS
 - LZ-MP
 - TMZ-1MB
 - TMZ-2MB
 - DZ-M

- Manifold Block / Nut
 - DZ-R
 - DZ-C
 - DZ-P
 - DZ-B
 - LZ-S
 - LZ-SQ
 - WNZ-SQ
 - TNZ-S
 - TNZ-SQ

- Pressure Switch
 - JBA

- Pressure Gauge
 - JGA/JGB

- Manifold
 - JX

- Coupler Switch
 - PS

G-Thread Fitting

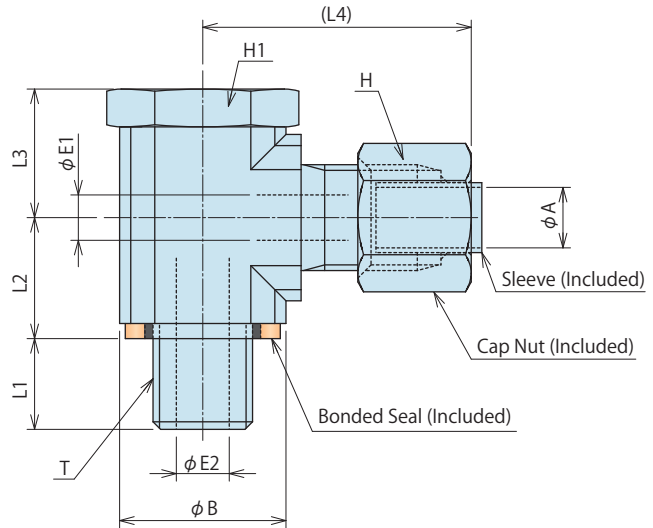
Stud Elbow Fitting

Model No. Indication

9UKMB 06 0 1 E

G Thread Size
(Refer to the following table.)
Applicable Pipe External Diameter
(Refer to the following table.)

Model No.	9UKMB0601E	9UKMB0802E	9UKMB1203E
Applicable Pipe External Diam. ϕA	6	8	12
Applicable Thread T	G1/8	G1/4	G3/8
E1	4	6	10
E2	4	7	9
Hexagon Opposite Side H1	17	22	27
Hexagon Opposite Side H	14	17	22
L1	8	12	12
L2	13	16	19
L3	14	17	22
Tighten by Hand (L4)	(33.5)	(35.5)	(40.5)
Weight (kg)	0.078	0.127	0.232



Note: 1. Do not use it as an alternative one of swivel fitting to make a turn.

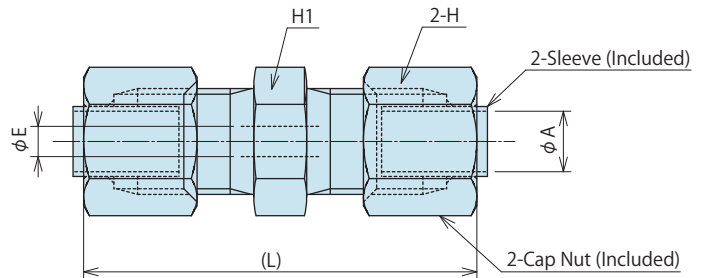
Union Fitting

Model No. Indication

9UKUA 06 00E

Applicable Pipe External Diameter
(Refer to the following table.)

Model No.	9UKUA0600E	9UKUA0800E	9UKUA1200E
Pipe External Diam. ϕA	6	8	12
E	4	6	10
Hex. Opposite Side H1	14	17	19
Hex. Opposite Side H	14	17	22
Tighten by Hand (L)	(51)	(52)	(54)
Weight (kg)	0.042	0.059	0.093



Union Fitting (Elbow)

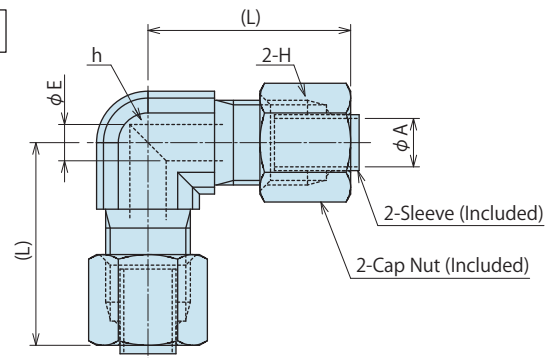
Model No. Indication

9UKLA 06 00E

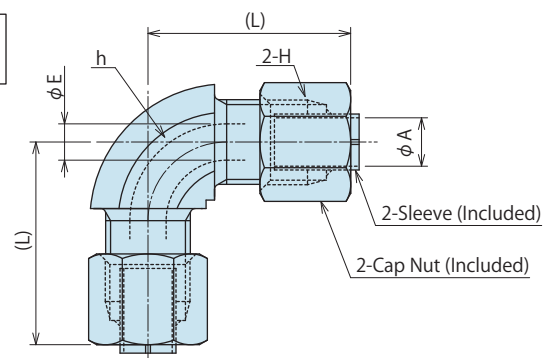
Applicable Pipe External Diameter
(Refer to the following table.)

Model No.	9UKLA0600E	9UKLA0800E	9UKLA1200E
Pipe External Diam. ϕA	6	8	12
E	4	6	10
Width across Flats h	14	17	19
Hex. Opposite Side H	14	17	22
Tighten by Hand (L)	(30.5)	(33.5)	(35.5)
Weight (kg)	0.048	0.081	0.116

9UKLA0600E



9UKLA0800E
9UKLA1200E



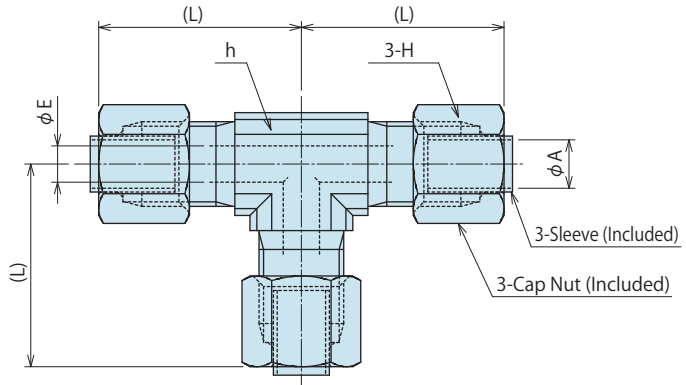
Union Fitting (Tee-Union Fitting)

Model No. Indication

9UKTA 06 00E

Applicable Pipe External Diameter.
(Refer to the following table.)

Model No.	9UKTA0600E	9UKTA0800E	9UKTA1200E
Applicable Pipe External Diam. ϕA	6	8	12
E	4	6	10
Width across Flats h	14	17	19
Hexagon Opposite Side H	14	17	22
Tighten by Hand (L)	(30.5)	(33.5)	(35.5)
Weight (kg)	0.069	0.122	0.172

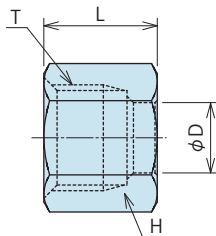


Cap Nut

Model No. Indication

9UKKN 06 00E

Applicable Pipe External Diameter.
(Refer to the following table.)



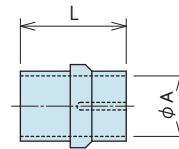
Model No.	9UKKN0600E	9UKKN0800E	9UKKN1200E
Applicable Pipe External Diam. ϕA	6	8	12
D	7.3	9.3	13.3
T	M12 \times 1.5	M14 \times 1.5	M18 \times 1.5
Hexagon Opposite Side H	14	17	22
L	15	15	16
Weight (kg)	0.010	0.015	0.026

Sleeve

Model No. Indication

9UKK0 06 00E

Applicable Pipe External Diameter.
(Refer to the following table.)



Model No.	9UKK00600E	9UKK00800E	9UKK01200E
Applicable Pipe External Diam. ϕA	6	8	12
L	14	14	15
Weight (kg)	0.002	0.003	0.004

High-Power Series

Pneumatic Series

Hydraulic Series

Valve / Coupler Hydraulic Unit

Manual Operation Accessories

Cautions / Others

Screw Locator

VXF/VXE

Manual Expansion Locating Pin

VX

Manifold Block

WHZ-MD

LZY-MD

LZ-MS

LZ-MP

TMZ-1MB

TMZ-2MB

DZ-M

Manifold Block / Nut

DZ-R

DZ-C

DZ-P

DZ-B

LZ-S

LZ-SQ

WNZ-SQ

TNZ-S

TNZ-SQ

Pressure Switch

JBA

Pressure Gauge

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JX

Coupler Switch

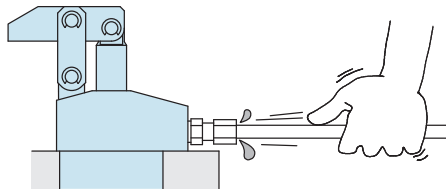
PS

G-Thread Fitting

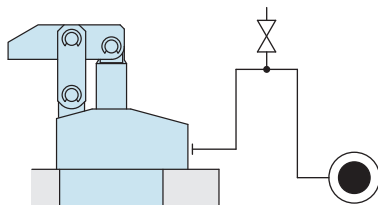
● Cautions

● Installation Notes (For Hydraulic Series)

- 1) Check the Usable Fluid
 - Please use the appropriate fluid by referring to the Hydraulic Fluid List.
- 2) Procedure before Piping
 - The pipeline, piping connector and fixture circuits should be cleaned by thorough flushing.
 - The dust and cutting chips in the circuit may lead to fluid leakage and malfunction.
 - There is no filter provided with Kosmek's product except for a part of valves which prevents foreign materials and contaminants from getting into the circuit.
- 3) Applying Sealing Tape
 - Wrap with tape 1 to 2 times following the screw direction.
 - Pieces of the sealing tape can lead to oil leakage and malfunction.
 - Please implement piping construction in a clear environment to prevent anything getting in products.
- 4) Air Bleeding of the Hydraulic Circuit
 - If the hydraulic circuit has excessive air, the action time may become very long. If air enters the circuit after connecting the hydraulic port or under the condition of no air in the oil tank, please perform the following steps.
 - ① Reduce hydraulic pressure to less than 2MPa.
 - ② Loosen the cap nut of pipe fitting closest to the clamp by one full turn.
 - ③ Shake the pipeline to loosen the outlet of pipe fitting.
Hydraulic fluid mixed with air comes out.



- ④ Tighten the cap nut after bleeding.
- ⑤ It is more effective to release air at the highest point inside the circuit or at the end of the circuit.
(Set an air bleeding valve at the highest point inside the circuit.)



5) Checking Looseness and Retightening

- At the beginning of the machine installation, the bolt and nut may be tightened lightly. Check the looseness and re-tighten as required.

● Hydraulic Fluid List

Maker	ISO Viscosity Grade ISO-VG-32	
	Anti-Wear Hydraulic Oil	Multi-Purpose Hydraulic Oil
Showa Shell Sekiyu	Tellus S2 M 32	Morlina S2 B 32
Idemitsu Kosan	Daphne Hydraulic Fluid 32	Daphne Super Multi Oil 32
JX Nippon Oil & Energy	Super Hyrando 32	Super Mulpus DX 32
Cosmo Oil	Cosmo Hydro AW32	Cosmo New Mighty Super 32
ExxonMobil	Mobil DTE 24	Mobil DTE 24 Light
Matsumura Oil	Hydol AW-32	
Castrol	Hyspin AWS 32	

Note : Please contact manufacturers when customers require products in the list above.

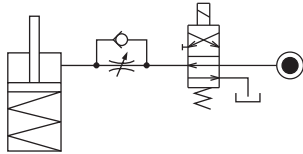
● Notes on Hydraulic Cylinder Speed Control Unit



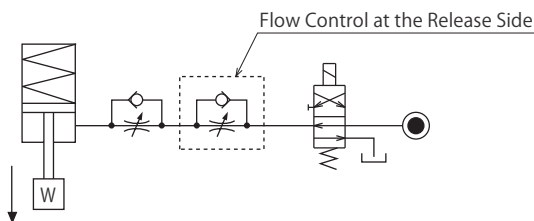
Please pay attention to the cautions below. Design the hydraulic circuit for controlling the action speed of hydraulic cylinder. Improper circuit design may lead to malfunctions and damages. Please review the circuit design in advance.

● Flow Control Circuit for Single Acting Cylinder

For spring return single acting cylinders, restricting flow during release can extremely slow down or disrupt release action. The preferred method is to control the flow during the lock action using a valve that has free-flow in the release direction. It is also preferred to provide a flow control valve at each actuator.



Accelerated clamping speed by excessive hydraulic flow to the cylinder may sustain damage. In this case add flow control to regulate flow. (Please add flow control to release flow if the lever weight is put on at the time of release action when using swing clamps.)



● Flow Control Circuit for Double Acting Cylinder

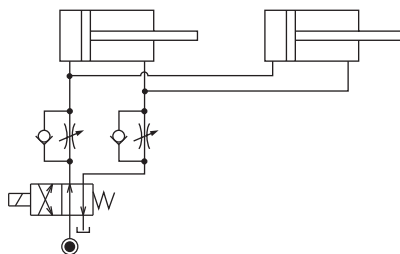
Flow control circuit for double acting cylinder should have meter-out circuits for both the lock and release sides. Meter-in control can have adverse effect by presence of air in the system.

However, in the case of controlling LKE, TMA, TLA, both lock side and release side should be meter-in circuit.

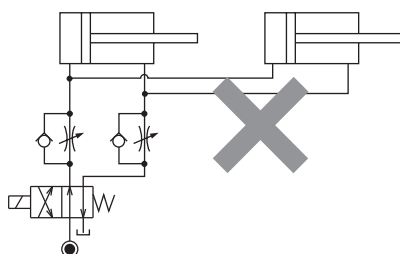
Refer to P.75 for speed adjustment of LKE.

For TMA and TLA, if meter-out circuit is used, abnormal high pressure is created, which causes oil leakage and damage.

【Meter-out Circuit】 (Except LKE/TMA/TLA)

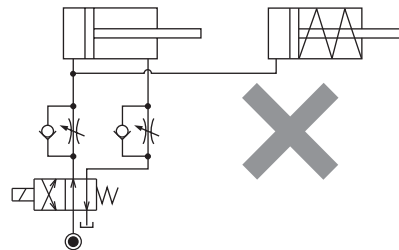


【Meter-in Circuit】 (LKE/TMA/TLA must be controlled with meter-in.)



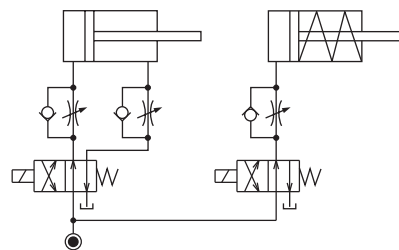
In the case of meter-out circuit, the hydraulic circuit should be designed with the following points.

- ① Single acting components should not be used in the same flow control circuit as the double acting components. The release action of the single acting cylinders may become erratic or very slow.

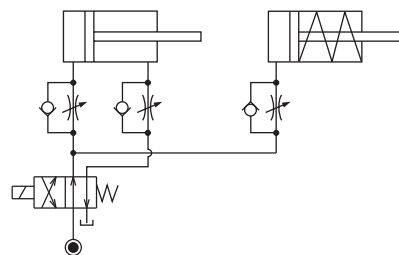


Refer to the following circuit when both the single acting cylinder and double acting cylinder are used together.

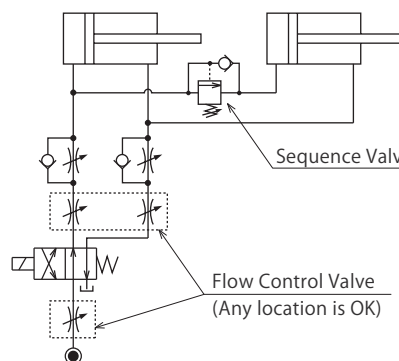
- Separate the control circuit.



- Reduce the influence of double acting cylinder control unit. However, due to the back pressure in tank line, single action cylinder is activated after double action cylinder works.



- ② In the case of meter-out circuit, the inner circuit pressure may increase during the cylinder action because of the fluid supply. The increase of the inner circuit pressure can be prevented by reducing the supplied fluid beforehand via the flow control valve. Especially when using sequence valve or pressure switches for clamping detection. If the back pressure is more than the set pressure then the system will not work as it is designed to.



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- Pneumatic Series
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Cautions

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ⓘ Cautions

● Notes on Handling

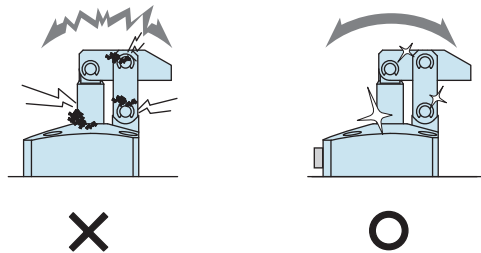
- 1) It should be operated by qualified personnel.
 - The hydraulic machine and air compressor should be operated and maintained by qualified personnel.
- 2) Do not operate or remove the product unless the safety protocols are ensured.
 - ① The machine and equipment can only be inspected or prepared 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 abnormality in the bolts and respective parts before restarting the machine or equipment.
- 3) Do not touch a clamp (cylinder) while it is working. Otherwise, your hands may be injured due to clinching.



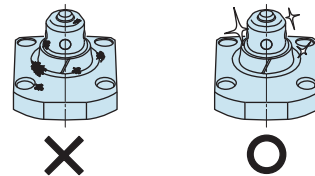
- 4) Do not disassemble or modify.
 - If the equipment is taken apart or modified, the warranty will be voided even within the warranty period.

● Maintenance and Inspection

- 1) Removal of the Machine and Shut-off of Pressure Source
 - Before the machine is removed, 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 abnormality 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 and fluid leakage.



- 3) Please clean out the reference surfaces on a regular basis (taper reference surface and seating surface) of the locating products. (VS/VT/VFL/VFM/VFJ/VFK/WVS/VWM/VWK/VX/VXE/VXF)
 - The locating products, except VX/VXE/VXF model, can remove contaminants with cleaning functions. However, hardened cutting chips, adhesive coolant and others may not be removed. Make sure there are no contaminants before installing a workpiece/pallet.
 - Continuous use with contaminant on components will lead to locating accuracy failure, malfunction and fluid leakage.



- 4) If disconnecting by couplers, air bleeding should be carried out on a regular basis to avoid air mixed in the circuit.
- 5) Regularly tighten nut, bolt, pin, cylinder, pipe line and others to ensure proper use.
- 6) Make sure the hydraulic fluid has not deteriorated.
- 7) 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.
- 8) The products should be stored in the cool and dark place without direct sunshine or moisture.
- 9) Please contact us for overhaul and repair.

● 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 If the product is used while it is not suitable for use based on the operator's judgment, resulting in defect.
- 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.

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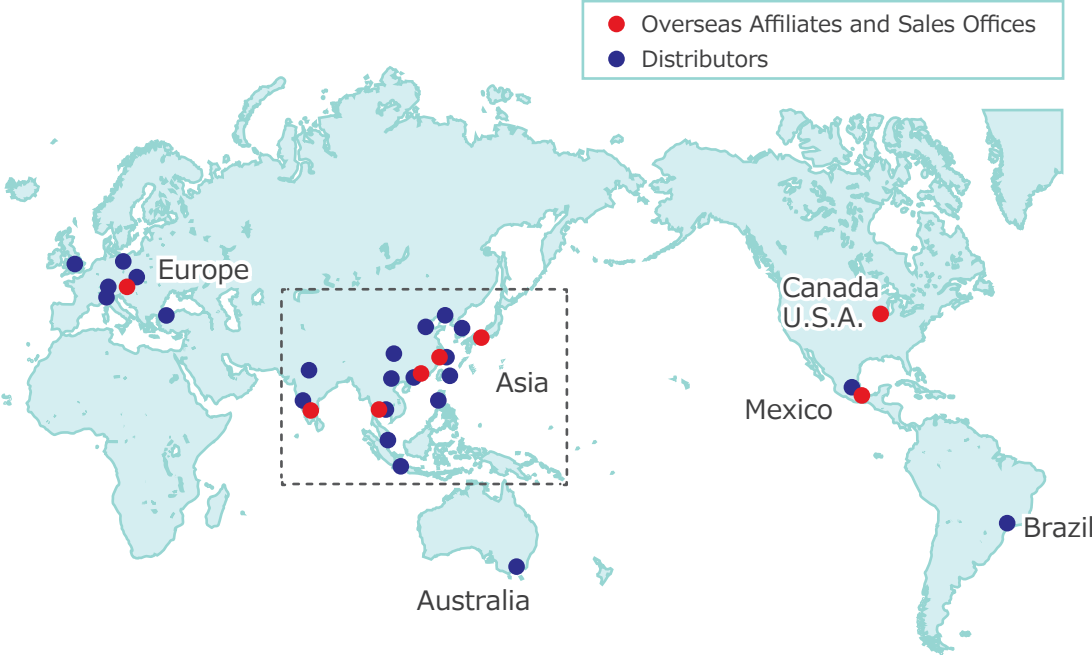
Sales Offices across the World

JAPAN HEAD OFFICE Overseas Sales	TEL. +81-78-991-5162	FAX. +81-78-991-8787
	KOSMEK LTD. 1-5, 2-chome, Murotani, Nishi-ku, Kobe-city, Hyogo, Japan 651-2241 〒651-2241 兵庫県神戸市西区室谷2丁目1番5号	
United States of America SUBSIDIARY KOSMEK (USA) LTD.	TEL. +1-630-620-7650	FAX. +1-630-620-9015
	650 Springer Drive, Lombard, IL 60148 USA	
MEXICO REPRESENTATIVE OFFICE KOSMEK USA Mexico Office	TEL. +52-442-161-2347	
	Av. Santa Fe #103 int 59 Col. Santa Fe Juriquilla C.P. 76230 Queretaro, Qro Mexico	
EUROPE SUBSIDIARY KOSMEK EUROPE GmbH	TEL. +43-463-287587	FAX. +43-463-287587-20
	Schleppeplatz 2 9020 Klagenfurt am Wörthersee Austria	
CHINA KOSMEK (CHINA) LTD. 考世美(上海)貿易有限公司	TEL. +86-21-54253000	FAX. +86-21-54253709
	Room601, RIVERSIDE PYRAMID No.55, Lane21, Pusan Rd, Pudong Shanghai 200125, China 中国上海市浦东新区浦三路21弄55号银亿滨江中心601室 200125	
INDIA BRANCH OFFICE KOSMEK LTD - INDIA	TEL. +91-9880561695	
	F 203, Level-2, First Floor, Prestige Center Point, Cunningham Road, Bangalore -560052 India	
THAILAND REPRESENTATIVE OFFICE KOSMEK Thailand Representation Office	TEL. +66-2-300-5132	FAX. +66-2-300-5133
	67 Soi 58, RAMA 9 Rd., Suanluang, Suanluang, Bangkok 10250, Thailand	
TAIWAN (Taiwan Exclusive Distributor) Full Life Trading Co., Ltd. 盈生貿易有限公司	TEL. +886-2-82261860	FAX. +886-2-82261890
	16F-4, No.2, Jian Ba Rd., Zhonghe District, New Taipei City Taiwan 23511 台湾新北市中和區建八路2號 16F-4 (遠東世紀廣場)	
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	Victoria Wave Special Economic Zone Mt. Apo Building, Brgy. 186, North Caloocan City, Metro Manila, Philippines 1427	
INDONESIA (Indonesia Exclusive Distributor) PT. Yamata Machinery	TEL. +62-21-29628607	FAX. +62-21-29628608
	Delta Commercial Park I, Jl. Kenari Raya B-08, Desa Jayamukti, Kec. Cikarang Pusat Kab. Bekasi 17530 Indonesia	

Sales Offices in Japan

Head Office Osaka Sales Office Overseas Sales	TEL. 078-991-5162	FAX. 078-991-8787
	〒651-2241 兵庫県神戸市西区室谷2丁目1番5号	
Tokyo Sales Office	TEL. 048-652-8839	FAX. 048-652-8828
	〒331-0815 埼玉県さいたま市北区大成町4丁目81番地	
Nagoya Sales Office	TEL. 0566-74-8778	FAX. 0566-74-8808
	〒446-0076 愛知県安城市美園町2丁目10番地1	
Fukuoka Sales Office	TEL. 092-433-0424	FAX. 092-433-0426
	〒812-0006 福岡県福岡市博多区上牟田1丁目8-10-101	

Global Network



Asia Detailed Map



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