

PRESSURE CONTROLS SERIES





SAGINOMIYA PRODUCT CATALOG

● Pressure Sensors

Contents

■ PRESSURE SENSORS

Type	Applications	Features	Connections	Accuracy (%)	*1 Standards	Page
NSK PRESSURE SENSORS (Ratiometric Output) 	• Room air conditioners • Packaged air conditioners • Water boilers • Water supply pumps • Chillers	• The pressure detection and signal conversion circuits are integrated into a single chip, delivering high precision and durability. • Compatible with a variety of connection types. (Stainless steel wetted parts are also available.)	• Flare • 1/4" Solder • Taper pipe threads	±1.0	• CE • UL/cUL • CQC	2
NSK PRESSURE SENSORS 	• Packaged air conditioners • Water boilers • Water supply pumps • Chillers • Large refrigeration equipment	• Accuracy of ±1.0% F.S. across a wide temperature range. • Compatible with a variety of connection types. (Stainless steel wetted parts are also available.) • Current output type supports wiring up to 100m.	• Flare • 1/4" Solder • Taper pipe threads	±1.0	• CE • UL/cUL	4
HSK PRESSURE SENSORS FOR ULTRA HIGH PRESSURE 	• Heat pump water heaters • Display cases • Condensing units • Chillers	• Compatible with R744 (CO ₂). • Accuracy of ±1.0% F.S. across a wide temperature range. • Compatible with a variety of connection types. (Stainless steel wetted parts are also available.) • Current output type supports wiring up to 100m.	• φ6mm Solder • 1/4" Solder • Taper pipe threads	±1.0	• CE • UL/cUL	6
XSK PRESSURE SENSORS 	• Packaged air conditioners • Water boilers • Water supply pumps • Chillers	• Current output (4 to 20mA DC) • Compatible with a variety of connection types. (Stainless steel wetted parts are also available.)	• Flare • Taper pipe threads	±3.0	• CE • UL/cUL	10
YSK PRESSURE SENSORS 	• Packaged air conditioners • Water boilers • Water supply pumps • Chillers	• Supports a power supply voltage of 10.5 to 28.0 V.DC. • Compatible with a variety of connection types. (Stainless steel wetted parts are also available.)	• Flare • Taper pipe threads	±3.0	—	12
KSK PRESSURE SENSORS FOR INDUSTRIAL MACHINERY 	• Construction machinery • Agricultural machinery	• Standard atmosphere (1013 hPa abs) is set as 0 MPa. • Excellent durability and noise resistance. • Ratiometric output	• Straight pipe threads	±3.0	—	14

*1 Not all models in the series have obtained certification. Certified models may have different catalog numbers. For more details, please contact us.

REFERENCE INFORMATION

TERMS AND DEFINITIONS

- Pressure Sensor Types
 1. Gauge pressure type
Pressure sensor that measures pressure relative to atmospheric pressure. Pressure higher than atmospheric pressure is called positive pressure, and pressure lower than atmospheric pressure is called negative pressure.
 2. Absolute pressure type
Pressure sensor that measures pressure relative to absolute vacuum. This type can be broadly divided into two categories.
 - ①Those that set absolute vacuum as 0 MPa.
 - ②Those that set a pressure of 1013 hPa abs as 0 MPa.Our pressure sensors are of type ②.
- Ratiometric Output
The output varies in proportion to the power supply voltage.
Example: When the power supply voltage increases by +5% (i.e., to 5.25 V.DC), the output Vout changes to 4.725 V (4,500 × 1.05).
- Accuracy (%F.S.)
Pressure sensor accuracy is expressed as "%F.S.", meaning the error remains consistent across the entire pressure range.
Example: ±1% F.S. means ±0.01 MPa for a pressure range of 0 to 1 MPa, and ±0.04 V for a voltage output range of 0.5 to 4.5 V.DC.

SI UNITS

Quoted from JIS Z 8203 "SI units and recommendations for the use of their multiples and of certain other units". (Pressure)

kPa	MPa	mmH ₂ O	kgf/cm ²	mmHg
1	1 × 10 ⁻³	1.01972 × 10 ²	1.01972 × 10 ⁻²	7.50062
1 × 10 ³	1	1.01972 × 10 ⁵	1.01972 × 10	7.50062 × 10 ³
9.80665 × 10 ⁻³	9.80665 × 10 ⁻⁶	1	1 × 10 ⁻⁴	7.35559 × 10 ⁻²
9.80665 × 10	9.80665 × 10 ⁻²	1 × 10 ⁴	1	7.35559 × 10 ²
1.33322 × 10 ⁻¹	1.33322 × 10 ⁻⁴	1.35951 × 10	1.35951 × 10 ⁻³	1

CONVERSION TABLES

■ Vacuum conversion table (MPa ↔ MPa (abs) ↔ cmHgV ↔ kgf/cm² (abs))

Example: -0.0667 MPa ↔ 0.0347 MPa (abs) ↔ 50 cmHgV ↔ 0.3535 kgf/cm² (abs)

MPa	MPa (abs)	cmHg V	kgf/cm ² (abs)	MPa	MPa (abs)	cmHg V	kgf/cm ² (abs)	MPa	MPa (abs)	cmHg V	kgf/cm ² (abs)
-0.1013	0.0000	76	0.0000	-0.0613	0.0400	46	0.4078	-0.0213	0.0800	16	0.8157
-0.0987	0.0027	74	0.0272	-0.0587	0.0427	44	0.4350	-0.0187	0.0827	14	0.8429
-0.0960	0.0053	72	0.0544	-0.0560	0.0453	42	0.4622	-0.0160	0.0853	12	0.8700
-0.0933	0.0080	70	0.0816	-0.0533	0.0480	40	0.4894	-0.0133	0.0880	10	0.8972
-0.0907	0.0107	68	0.1088	-0.0507	0.0507	38	0.5166	-0.0107	0.0907	8	0.9245
-0.0880	0.0133	66	0.1360	-0.0480	0.0533	36	0.5438	-0.0080	0.0933	6	0.9517
-0.0853	0.0160	64	0.1631	-0.0453	0.0560	34	0.5710	-0.0053	0.0960	4	0.9788
-0.0827	0.0187	62	0.1903	-0.0427	0.0587	32	0.5981	-0.0027	0.0987	2	1.0060
-0.0800	0.0213	60	0.2175	-0.0400	0.0613	30	0.6254	0	0.1013	0	1.0332
-0.0773	0.0240	58	0.2447	-0.0373	0.0640	28	0.6526				
-0.0747	0.0267	56	0.2719	-0.0347	0.0667	26	0.6798				
-0.0720	0.0293	54	0.2991	-0.0320	0.0693	24	0.7069				
-0.0693	0.0320	52	0.3263	-0.0293	0.0720	22	0.7341				
-0.0667	0.0347	50	0.3535	-0.0267	0.0747	20	0.7613				
-0.0640	0.0373	48	0.3806	-0.0240	0.0773	18	0.7885				

PRESSURE SENSORS / Type NSK



NSK-AEA10B1



NSK-AEA10I1



NSK-AEA50B1



NSK-AEA50I1

FEATURES

- Accuracy of $\pm 1.0\%$ F.S. across a wide temperature range.
- Compatible with a variety of connection types.
(Stainless steel wetted parts are also available.)
- Compatible with various low-GWP refrigerants.
- Current output type supports wiring up to 100m.
- Standards: CE (ATEX compliant), UL/cUL (Please contact us for details.)

APPLICATIONS

- Packaged air conditioners
- Water boilers
- Water supply pumps
- Chillers
- Large refrigeration equipment, etc.

COMMON SPECIFICATIONS

- Accuracy : $\pm 1.0\%$ F.S. (-40 to 100°C)
- Fluid temperature : -40 to 135°C
- Ambient temperature : -40 to 100°C
- Load resistance : Current output type (Vcc-7) /0.02A (Ω) or less
Voltage output type [0 to 5 V/0 to 10 V] 4.7k Ω or more/1000pF or less (pull-down)
15k Ω or more/1000pF or less (pull-up)
[1 to 5 V/1 to 6 V] 4.7k Ω or more/1000pF or less (pull-down/pull-up)
- Load capacitance : Voltage output type 1000pF or less
- Power supply voltage dependency : $\pm 0.05\%$ F.S./10 V or less
- Fluids : Refrigerant, air, water, oil, inert gas
 - * Please refer to the table on the right for compatible refrigerants.
 - * Not suitable for corrosive fluids.
 - * When using with water, please choose stainless steel connections.
- Absolute pressure type : 1 atmosphere (1013 hPa abs) is set as 0 MPa.
- EMC : EN61000-6-2/EN61000-6-3
- Enclosure : IP66

Safety group	Compatible refrigerants
A1	R1233zd(E), R407A, R407C, R407F, R407H, R448A, R449A, R449B, R449C, R450A, R452A, R463A-J, R513A, R515B, R507A

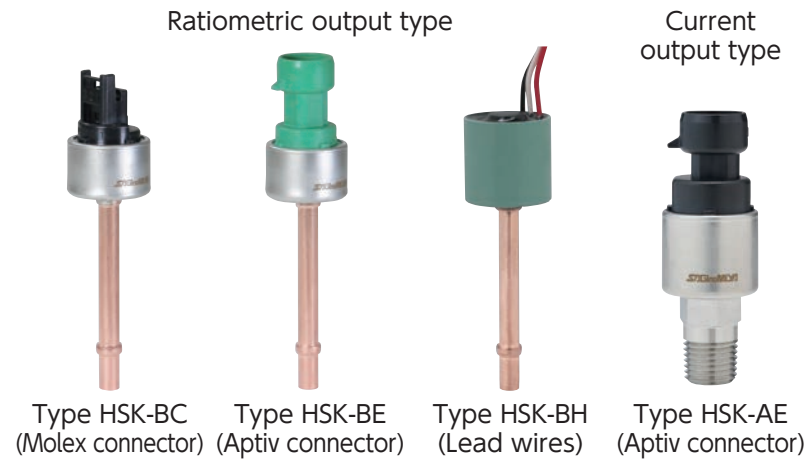
• For other refrigerants, please contact us.

DESCRIPTION OF CATALOG NUMBER

*Selecting the following options (II to VII) will determine the catalog number.

I Type		NSK - A E A10 B1 - U 05							VII Accuracy		
NSK									Symbol	Accuracy	
II Output									05	±1.0%F.S. (-40 to 100℃)	
Symbol	Output signal	Power supply voltage								VI Standards	
A	4 to 20 mA DC	7 to 35 V.DC								Symbol	Standards
C	0 to 5 V.DC	7 to 35 V.DC								U	CE, UL/cUL
D	0 to 10 V.DC	11.5 to 35 V.DC								V Connection type	
E	1 to 5 V.DC	7 to 35 V.DC								Symbol	Connection type
III Electrical connector										B1	1/4" Male flare(Stainless steel)
Symbol	Electrical connector								D1	1/4" Solder	
E	Aptiv connector								I1	1/4" Female flare (with pin) (Stainless steel)	
• Compatible connector:12065287										R1	R1/8" (Stainless steel)
										R2	R1/4" (Stainless steel)
										N1	NPT1/8" (Stainless steel)
										N2	NPT1/4" (Stainless steel)

PRESSURE SENSORS FOR ULTRA HIGH PRESSURE / Type HSK



High Volume OEM Item

Drawings must be exchanged for purchase.
Please contact SAGINOMIYA for more details.

FEATURES

- Compatible with R744 (CO₂).
- Accuracy of $\pm 1.0\%$ F.S. across a wide temperature range.
- Compatible with a variety of connection types.
(Stainless steel wetted parts are also available.)
- The pressure detection and signal conversion circuits are integrated into a single chip, delivering high precision and durability.
- Capable of handling subcritical to supercritical pressures.
- Available in two types: ratiometric output and current output.
- Current output type supports wiring up to 100m.
- Standards: CE, UL/cUL (Excluding HSK-BH)
(Please contact us for details.)

COMMON SPECIFICATIONS

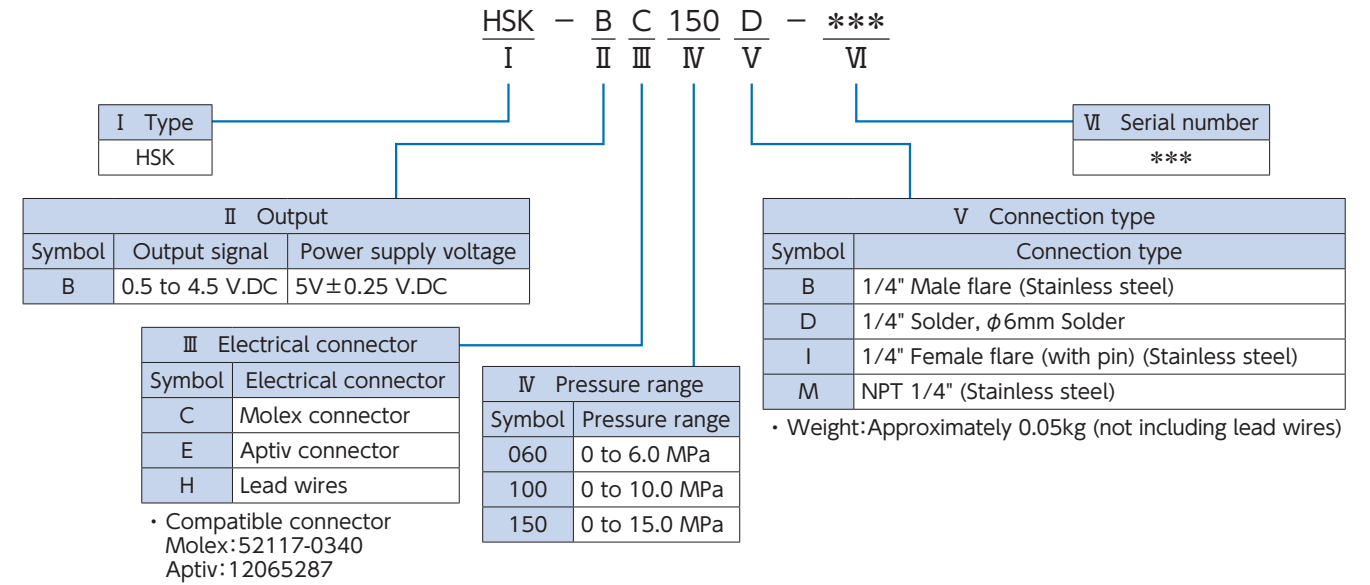
- Accuracy : Ratiometric output type $\pm 1.0\%$ F.S. (-20 to 120°C)
(including non-linearity, temperature characteristics, hysteresis, and repeatability)
- Fluid temperature : -40 to 135°C
- Ambient temperature : Ratiometric output type HSK-BH: -30 to 85°C
HSK-BC, BE: -30 to 100°C
Current output type -40 to 100°C
- Load resistance : Ratiometric output type 10k Ω or more
Current output type (Vcc-7)/0.02A Ω or less
- Power supply voltage dependency : Current output type $\pm 0.05\%$ F.S./10 V or less
- Fluids : R744 (CO₂), air, water, oil, inert gas
 - * Not suitable for corrosive fluids.
 - * When using with water, please choose stainless steel connections.
- Absolute pressure type : 1 atmosphere (1013 hPa abs) is set as 0 MPa.
- EMC : EN61000-6-2/EN61000-6-3
- Enclosure : IP66

APPLICATIONS

- Heat pump water heaters
- Display cases
- Condensing units
- Chillers, etc.

DESCRIPTION OF CATALOG NUMBER (Ratiometric Output Type: HSK-BC, BE, BH)

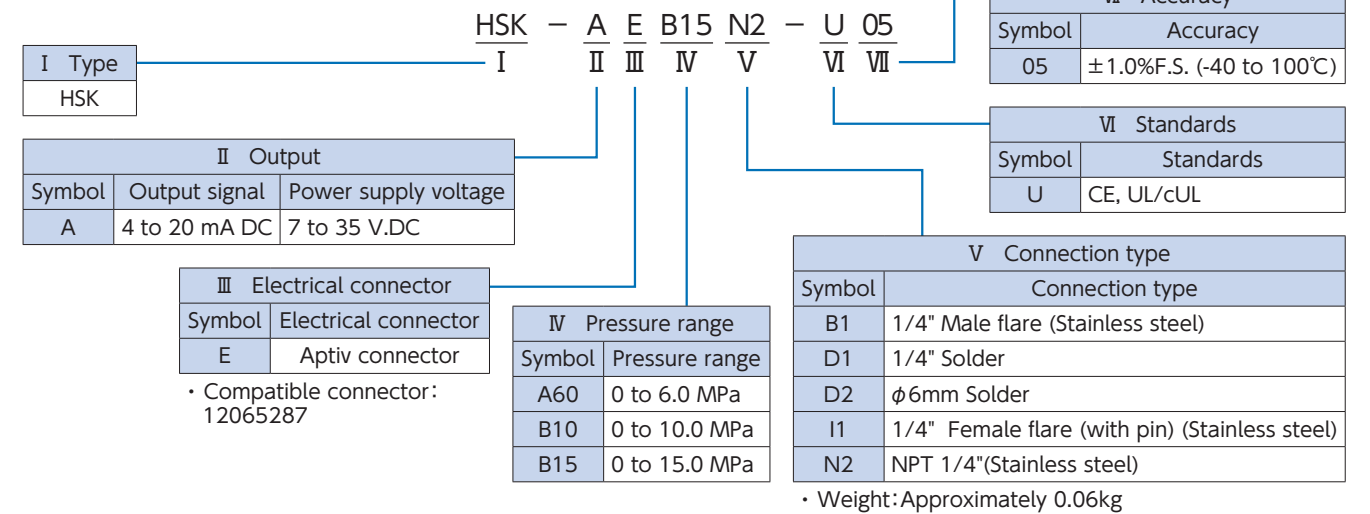
*Selecting the following options (II to VI) will determine the catalog number.



*Specifications other than those listed above are also available upon request. Please contact us for details.

DESCRIPTION OF CATALOG NUMBER (Current Output Type: HSK-AE)

*Selecting the following options (II to VII) will determine the catalog number.



*Current output types with an accuracy of $\pm 0.5\%$ F.S. (at 25°C) and $\pm 1.5\%$ F.S. (-40°C to 100°C) are also available upon request.
*Specifications other than those listed above are also available upon request. Please contact us for details.

CONNECTION TYPES

1/4" Male flare (Stainless steel)	1/4" Solder	φ6mm Solder	1/4" Female flare (with pin) (Stainless steel)	NPT 1/4" (Stainless steel)

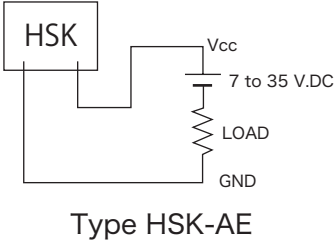
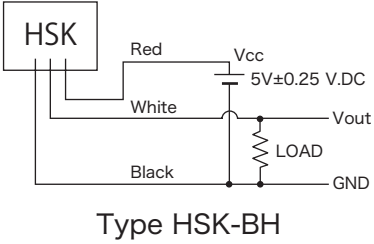
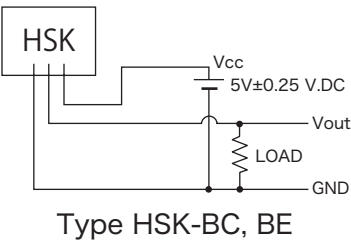
*For connection types other than the above, please contact us.

Unit:mm

DIMENSIONS / WIRINGS

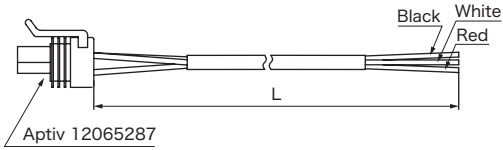
 Type HSK-BC	 Type HSK-BE	 Type HSK-BH	 Type HSK-AE
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Unit:mm



OPTIONAL PARTS

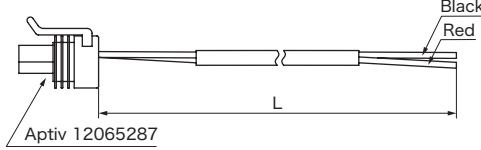
● Extension cables for HSK-BE



Part number	L (mm)
NSK-PP1005	1000
NSK-PP1006	3000

*Up to 3000mm

● Extension cables for HSK-AE



Part number	L (mm)
NSK-PP1001	1000
NSK-PP1002	3000
NSK-PP1003	5000
NSK-PP1004	10000

PRESSURE SENSORS / Type XSK



Type XSK-AC**B



Type XSK-AC**I

FEATURES

- Current output (4 to 20mA DC)
- Supports a power supply voltage of 10.5 to 28.0 V.DC.
- Small lot orders available.
- Compatible with a variety of connection types.
(Stainless steel wetted parts are also available.)
- Standards : CE, UL/cUL (Please contact us for details.)

APPLICATIONS

- Packaged air conditioners
- Water boilers
- Water supply pumps
- Chillers, etc.

COMMON SPECIFICATIONS

- Accuracy : $\pm 3\%$ F.S.
(including non-linearity, temperature characteristics, hysteresis, and repeatability)
- Fluid temperature : -20 to 70°C
- Ambient temperature : -20 to 70°C
- Current consumption : 10mA or less
- Fitting materials : Brass, stainless steel
- Fluids : Refrigerant, air, water, oil, inert gas
 - * Please refer to the table on the right for compatible refrigerants.
 - * Not suitable for corrosive fluids.
 - * When using with water, please choose stainless steel connections.
- Absolute pressure type :
1 atmosphere (1013 hPa abs) is set as 0 MPa.
- Enclosure : IP66

Safety group	Compatible refrigerants
A1	R1233zd(E), R407A, R407C, R407F, R407H, R448A, R449A, R449B, R449C, R450A, R452A, R463A-J, R513A, R515B, R507A

• For other refrigerants, please contact us.

DESCRIPTION OF CATALOG NUMBER

*Selecting the following options (II to VI) will determine the catalog number.

XSK - A C 10 B - 107			
I	II	III	IV
Type			
XSK			
Output			
Symbol	Output signal	Power supply voltage	
A	4 to 20 mA DC	10.5 to 28.0 V.DC	
Electrical connector			
Symbol	Electrical connector		
C	Molex connector		
Pressure range			
Symbol	Pressure range		
10	0 to 1.0 MPa		
20	0 to 2.0 MPa		
30	0 to 3.0 MPa		
35	0 to 3.5 MPa		
50	0 to 5.0 MPa		
Connection type			
Symbol	Connection type		
B	1/4" Male flare (comes with a bracket)	107	103
F	1/4" Female flare	211	—
I	1/4" Female flare (with pin)	212	—
M	R1/8"	201	204
	R1/4"	202	205
	R3/8"	203	206
Fitting material (Serial number)			
Brass C3604			
Stainless steel SUS304			

• Weight: Approximately 0.09kg
(not including extension cable and bracket)

*Specifications other than those listed above are also available upon request. Please contact us for details.

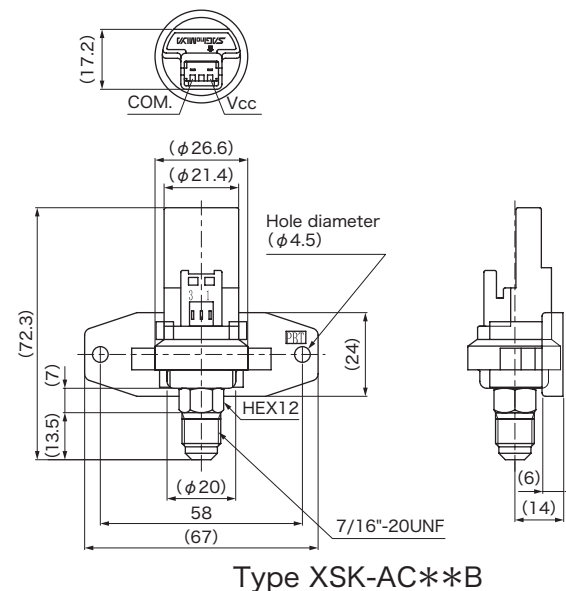
CONNECTION TYPES

B: 1/4" Male flare	F: 1/4" Female flare	I: 1/4" Female flare (with pin)	M: R1/4"

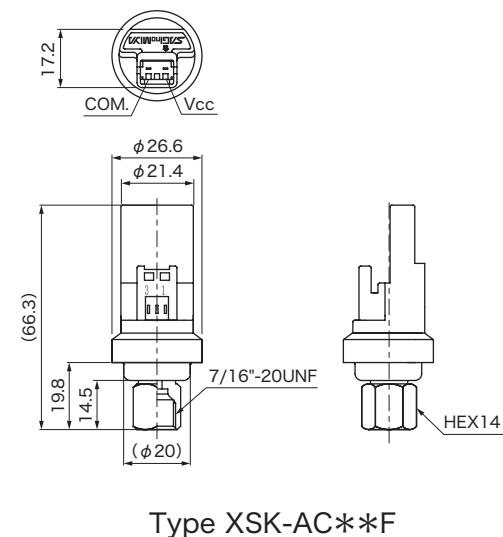
*For connection types other than the above, please contact us.

Unit:mm

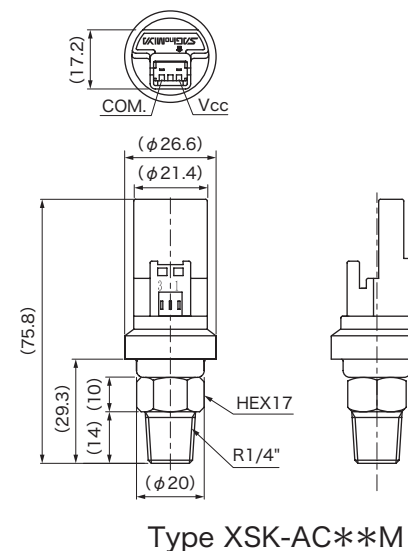
DIMENSIONS / WIRINGS



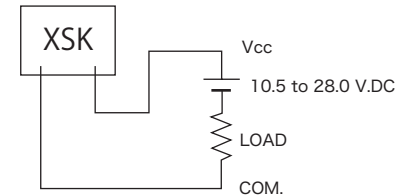
Type XSK-AC**B



Type XSK-AC**F



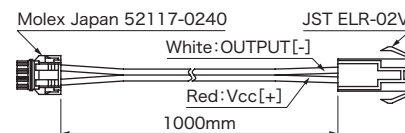
Type XSK-AC**M



Unit:mm

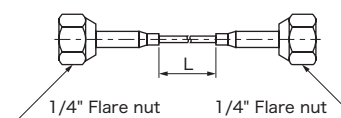
STANDARD ACCESSORIES

- Bracket (For connection type B only)
- Extension cable (1000 mm with electrical connectors)



OPTIONAL PARTS

- Assembled capillary tubes



Part number	L (mm)
SNS-AD01	1000
SNS-AD02	1500
SNS-AD03	2000
SNS-AD06	1000 with pin
SNS-AD07	500
SNS-AD10	500 with pin

PRESSURE SENSORS / Type YSK



Type YSK-AA

Type YSK-AC

Type YSK-AD

FEATURES

- Supports a power supply voltage of 10.5 to 28.0 V.DC.
- Small lot orders available.
- Compatible with a variety of connection types.
(Stainless steel wetted parts are also available.)

COMMON SPECIFICATIONS

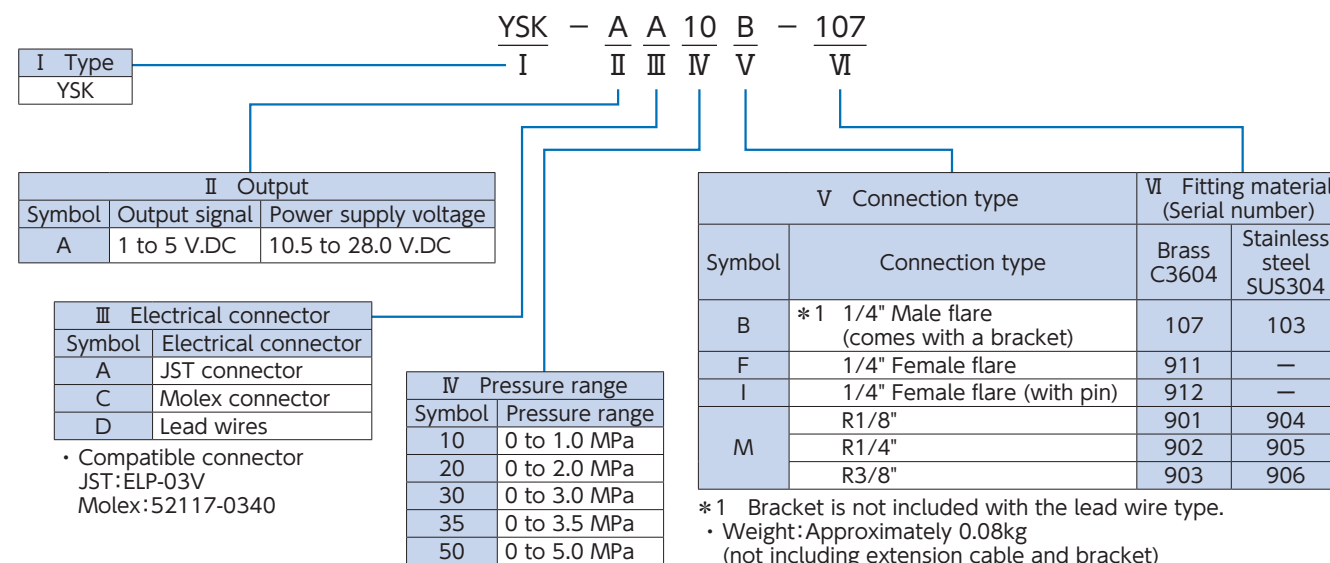
- Accuracy : $\pm 3\% \text{ F.S.}$
(including non-linearity, temperature characteristics, hysteresis, and repeatability)
 - Fluid temperature : -20 to 70°C
 - Ambient temperature : -20 to 70°C
 - Current consumption : 10mA or less
 - Load resistance : 5k Ω or more
 - Fitting materials : Brass, stainless steel
 - Fluids : Refrigerant, air, water, oil, inert gas
 - * Please refer to the table on the right for compatible refrigerants.
 - * Not suitable for corrosive fluids.
 - * When using with water, please choose stainless steel connections.
 - Absolute pressure type :
1 atmosphere (1013 hPa abs) is set as 0 MPa.
 - Enclosure : YSK-AA IP40/YSK-AC IP66/YSK-AD IP66
- | Safety group | Compatible refrigerants |
|--------------|--|
| A1 | R1233zd(E), R407A, R407F, R407H, R448A, R449A, R450A, R452A, R463A-R507A |
- For other refrigerants, please contact your distributor.

Safety group	Compatible refrigerants
A1	R1233zd(E), R407A, R407C, R407F, R407H, R448A, R449A, R449B, R449C, R450A, R452A, R463A-J, R513A, R515B, R507A

- For other refrigerants, please contact us.


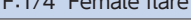


DESCRIPTION OF CATALOG NUMBER

*Selecting the following options (II to VI) will determine the catalog number.



*Specifications other than those listed above are also available upon request. Please contact us for details.

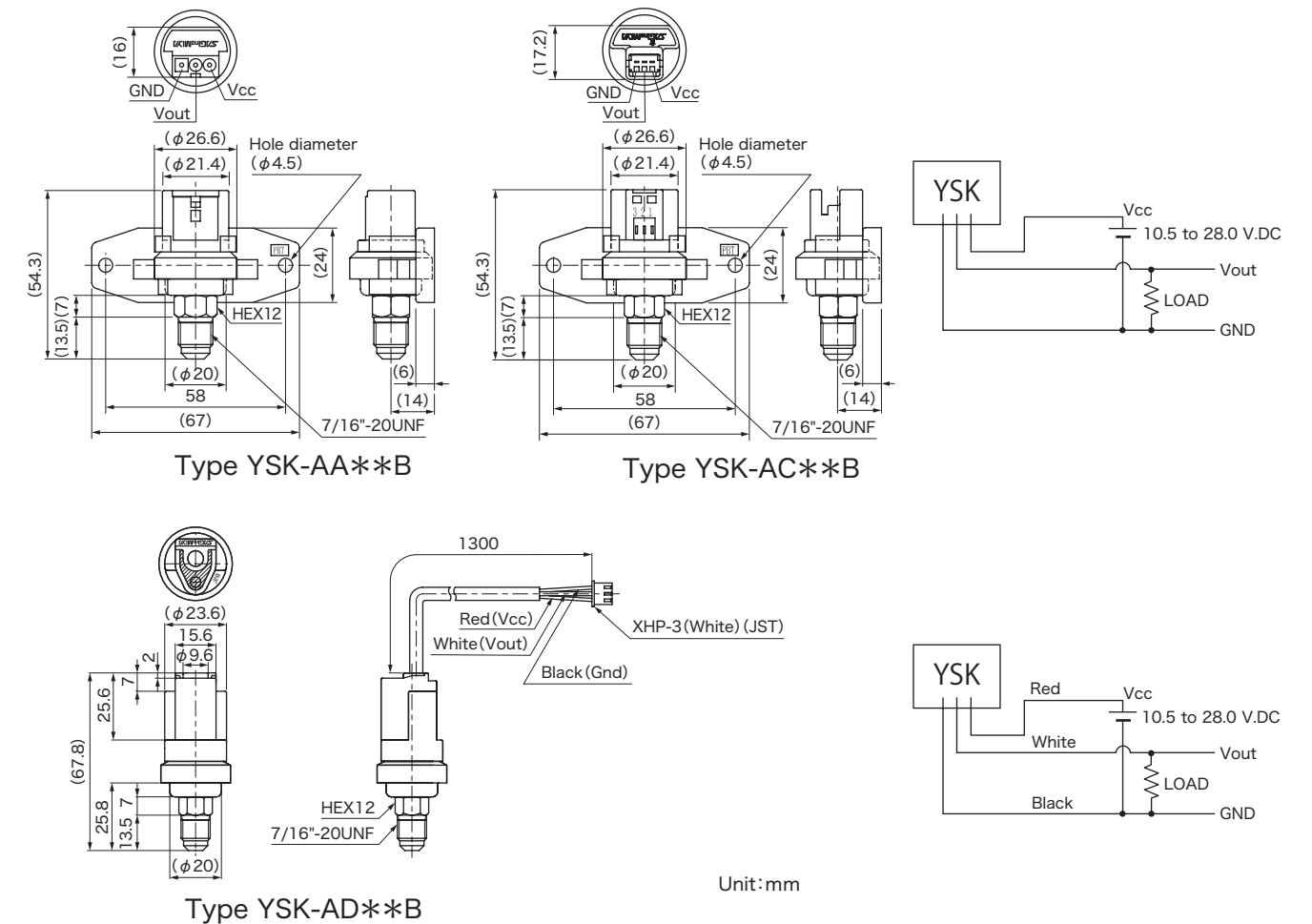
CONNECTION TYPES

B:1/4" Male flare	F:1/4" Female flare	I:1/4" Female flare (with pin)	M:R1/4"
			

*For connection types other than the above, please contact us.

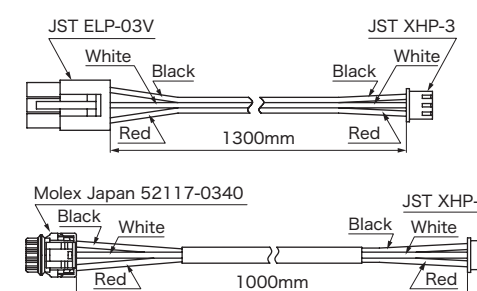
Unit:mm

DIMENSIONS / WIRINGS



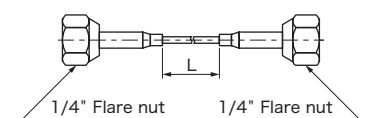
STANDARD ACCESSORIES

- Bracket (For connection type B only)
- Extension cable
(Lead wire length: 1300mm for JST connector and lead wire type, and 1000mm for Molex connector type.)



OPTIONAL PARTS

- Assembled capillary tubes



Part number	L (mm)
SNS-AD01	1000
SNS-AD02	1500
SNS-AD03	2000
SNS-AD06	1000 with pin
SNS-AD07	500
SNS-AD10	500 with pin

PRESSURE SENSORS FOR INDUSTRIAL MACHINERY / Type KSK



Type KSK

High Volume OEM Item

Drawings must be exchanged for purchase.
Please contact SAGINOMIYA for more details.

FEATURES

- Ideal for hydraulic measurements for industrial machinery.
- Excellent durability and noise resistance.
- Ratiometric output

APPLICATIONS

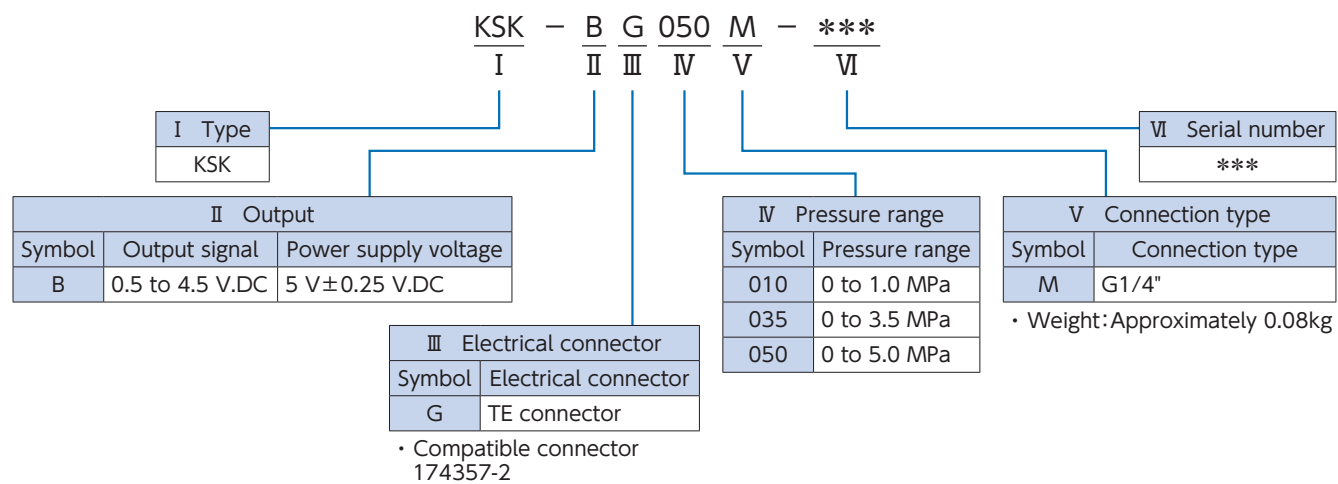
- Construction machinery
- Agricultural machinery, etc.

COMMON SPECIFICATIONS

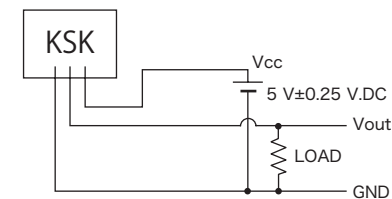
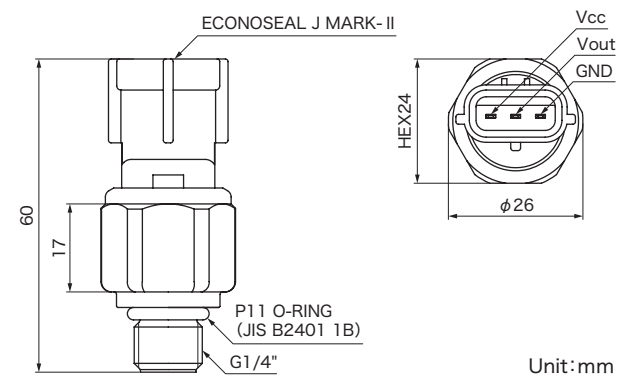
- Accuracy : $\pm 3\%$ F.S.
(including non-linearity, temperature characteristics (-30 to 100°C), hysteresis, and repeatability)
- Fluid temperature : -30 to 100°C
- Ambient temperature : -30 to 100°C
- Maximum power supply voltage : 6 V.DC
- Current consumption : 10mA or less
- Load resistance : 1M Ω or more
- Load capacitance : Capacitor 1000 pF or less
- Absolute pressure type : 1 atmosphere (1013 hPa abs) is set as 0 MPa.
- Enclosure : IP66

DESCRIPTION OF CATALOG NUMBER

*Selecting the following options (II to VI) will determine the catalog number.



DIMENSIONS / WIRINGS



*Specifications other than those listed above are also available upon request. Please contact us for details.

CONSENT RELATED TO DISCLAIMERS

We, SAGINOMIYA SEISAKUSHO, INC., (hereinafter referred to as "Saginomiya"), truly appreciate your choosing Saginomiya’s product (hereinafter referred to as this "Product").
 When this Product is used, this document as provided below shall be applicable except to the extent that there is anything to the contrary in any applicable estimate, agreement, catalogue, specification, etc.

●CONFIRMATION OF OPERATION

All customers using this Product (hereinafter referred to as "Customers") are requested to, after properly installing this Product, test the operation of this Product to confirm that all the systems in connection with this Product fully function.
 In order to prevent the occurrence of bodily injury, fire accidents, serious damage, etc., in connection with the Customers' machinery or equipment due to improper installation of this Product, Saginomiya kindly requests the Customers to take the necessary safety measures by preparing safe designs such as a fail-safe design (*1) and a fire spread prevention design, as well as to make the proper adjustments for product reliability necessary for fault-tolerance (*2).

- (*1) Fail-safe design: Design to ensure safety in the event of any mechanical failure
 (*2) Fault-tolerance: Utilization of redundancy technology

Periodic Inspection of this Product
 Be sure to confirm the proper operation of this Product and keep records of such operation at least once a year.

Saginomiya shall be held harmless and be indemnified by the Customers from any damages incurred due to the Customers failing to conduct the above operational procedures, provided, however, that, this shall not apply if the damages which the Customers incurred due to the defect of this Product caused by Saginomiya.

●RESTRICTIONS OF USE

This Product is designed and manufactured for the purpose of using them for cooling and heating and refrigerating appliances and air conditioning equipment or various industrial equipment, but is not designed and manufactured for the purpose of using this Product for any instrument or system related to human life or health purposes.
 Therefore, the use of this Product in fields related to items (1) through (3) below is not intended whatsoever.
 Saginomiya shall be held harmless and be indemnified from any and all damages incurred by use of this Product under item (3).

- (1) In any field related to nuclear power and radiation;
 (2) In any field related to space or seafloor equipment;
 (3) In any equipment or device requiring a high degree of reliance on such equipment or device with respect to which it is reasonably foreseeable that failure or malfunction of the equipment or device would either directly or indirectly cause serious damage to human life, health or property;

Also, when using this Product under the fields related to items (1) through (10), (except for item (3), in relation to which this Product must never be used), please be sure to notify Saginomiya’s contact desk in charge of sales and obtain Saginomiya’s prior written approval for such use.

Saginomiya shall be held harmless and be indemnified from any and all damages incurred by use of this Product in relation to these fields if the Customers do not notify Saginomiya’s contact desk and obtain Saginomiya’s prior written approval.

- (4) Heating, cooling and air conditioning equipment that uses flammable and/or toxic refrigerants, or various industrial equipment that uses flammable and/or toxic fluids;
 (5) Transportation device (railroad, aviation, ship or vessel, vehicle equipment, etc.);
 (6) Disaster-prevention or crime-prevention device;
 (7) Facility or application directly related to medical equipment, burning appliances, electro thermal equipment, amusement rides and devices, facilities/applications associated directly with billing;
 (8) Equipment requiring high reliance on supply systems such as electricity, gas, water, etc., in large-scale communication system, or in transportation or air traffic control system;
 (9) Facilities that are to comply with regulations of governmental / public agencies or specific industries or
 (10) Other machineries or equipment equivalent to those set forth in the above items (4) to (9) which require for high reliability and safety.

It is recommended to replace this Product within 5 to 10 years of delivery if no other duration of use is provided in the applicable specifications or instruction manual because the conditions and environment of use also have an impact on this Product.

●SCOPE OF WARRANTY

SAGINOMIYA WILL PROVIDE THE CUSTOMERS WITH REPLACEMENT OR REPAIRED THIS PRODUCT DELIVERED, FREE OF COST, ONLY WITHIN ONE YEAR OF DELIVERY TO THE CUSTOMER, IF FAILURE OCCURS IN THE CUSTOMERS' EQUIPMENT USING THIS PRODUCT DUE TO A DEFECT OF THIS PRODUCT: PROVIDED, HOWEVER, THAT IN ANY EVENT THE RATIO OF THE AMOUNT THAT SAGINOMIYA BEARS FOR THE DAMAGES INCURRED BY THE FAILURE OF THIS PRODUCT OR CUSTOMERS' EQUIPMENT SHALL NOT EXCEED THE PRICE OF THIS PRODUCT WE DELIVERED. IN ADDITION, SAGINOMIYA SHALL BE HELD HARMLESS AND BE INDEMNIFIED FROM ANY AND ALL DAMAGES INCURRED WHEN THE FAILURE OF THE CUSTOMERS' EQUIPMENT OCCURRED DUE TO ANY CAUSE SET FORTH BELOW.

- (1) WHEN CAUSED BY INAPPROPRIATE HANDLING OR USE OF THIS PRODUCT BY THE CUSTOMERS (SUCH AS NOT COMPLYING WITH THE CONDITIONS, ENVIRONMENTAL SPECIFICATIONS OR CAUTIONS INDICATED IN ANY APPLICABLE CATALOGUE, SPECIFICATIONS, INSTRUCTION MANUAL, ETC.);
 (2) WHEN FAILURE OCCURRED DUE TO ANY REASON OTHER THAN THIS PRODUCT;
 (3) WHEN CAUSED BY MODIFICATION OR REPAIR OF THIS PRODUCT MADE BY ANYONE OTHER THAN SAGINOMIYA OR DESIGNEE OF SAGINOMIYA;
 (4) WHEN CAUSED BY THE USE OF THIS PRODUCT IN VIOLATION OF THE ABOVE "RESTRICTIONS OF USE" OR "CONFIRMATION OF OPERATION";
 (5) WHEN SUCH FAILURE WAS NOT REASONABLY FORESEEABLE AT THE TIME OF SAGINOMIYA’S SHIPMENT; OR
 (6) BY ANY OTHER CAUSE NOT ATTRIBUTABLE TO SAGINOMIYA, SUCH AS AN ACT OF GOD, DISASTER, OR ACT OF ANY THIRD PARTY.

PLEASE NOTE THAT THE CUSTOMERS WILL NOT BE ENTITLED TO ANY OF THE ABOVE WARRANTY IF THE CUSTOMERS PURCHASED THIS PRODUCT FROM INTERNET AUCTION, ETC.

SAGINOMIYA
SEISAKUSHO,INC.
 2024.5



WARNING

Failure to read and follow all instruction carefully before installing or operation the product could cause personal injury and/or property damage.

Specifications are subject to change without notice.



Headquarters



Sayama Plant



Tokorozawa Plant

SAGInoMIYA
 Shinjyuku Garden Tower 22F
 8-2, Okubo 3-chome, Sinjyuku-ku
 Tokyo, 169-0072 Japan



Yonezawa Plant

OVERSEAS NETWORK



SAGINOMIYA EUROPE Sp. z o.o. (Poland)
 Aleje Jerozolimskie 212 02-486
 Warsaw, Poland
 Sales



FOSHAN HUALU AUTOMATIC CONTROLS LIMITED (China)
 No.59&61, Wenhua Nan Road, Chancheng District
 Foshan, Guangdong, China
 Sales & Manufacturing



SAGINOMIYA AMERICA, INC. (USA)
 655 Metro Place South suite 220, Dublin
 Ohio 43017, U.S.A.
 Sales



Danfoss Saginomiya Sp. z o.o. (Poland)
 ul. Chrzanowska 5, 05-825 Grodzisk
 Mazowiecki, Poland
 Manufacturing



Saginomiya (Thailand) Co., Ltd. (Thailand)
 159/38 Serm-mit Tower, Room No.2401, 24th floor
 Sukhumvit 21 Road, Klongtoey Nua Sub-district
 Wattana District, Bangkok 10110, Thailand
 Sales & Manufacturing



NOTES FOR SAFETY

Failure to read and follow all instruction carefully before installing or operating the product could cause personal injury and/or property damage.

Specifications are subject to change without notice.

SAGINOMIYA

SEISAKUSHO, INC.

<Japan, Korea, Oceania>

E-mail : inter@saginomiya.co.jp

Tel : +81-3-6205-9124

URL : <https://www.saginomiya.co.jp/en/>

<Asia>

Saginomiya (Thailand) Co., Ltd. E-mail : info@saginomiya.co.th

Tel : +66-2260-8364 Fax : +66-2260-8366

<Europe, Middle East, Africa>

SAGINOMIYA EUROPE Sp. z o.o. E-mail : info@saginomiya.eu

Tel : +48-22-101-30-00 Fax : +48-22-101-30-01

<North America, Latin America>

SAGINOMIYA AMERICA, INC. E-mail : sales@saginomiya-am.com

Tel : +1-614-766-7390 Fax : +1-614-766-7391

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