

# SINGLE FUNCTION PRESSURE CONTROLS

## Type SNS & HNS

**SAGInoMIYA**

### GENERAL DESCRIPTION

- For use with fluorinated refrigerants as well as with air and water. (Allowable Fluid Temp.: - 20 to 120°C)
- Type SNS for universal application.
- Type HNS for high pressure safety cut out.
- Available drip proof enclosure for marine application or in explosion proof enclosure for special application.
- Mounting bracket supplied as standard.
- With SPDT contact mechanism.
- IP44 with upper lid (option).

**CE** mark applicable (available upon request)

**UL** listed (available upon request)



Type SNS



Type HNS

### TYPE NUMBER SELECTION (SPECIFICATIONS)

#### Type SNS—Automatic Reset Type

Unit: MPa {kgf/cm<sup>2</sup>}

Catalog No.	Range		Differential		Factory Setting		Max. Bellows Pressure	Contact Function	Wt. (kg)
	Min.	Max.	Min.	Max.	Off (On)	On (Off)			
SNS-C101X	- 0.06 { - 50cmHg}	0.1 {1}	0.015 {0.15}	0.05 {0.5}	0.025 {0.25}	0.05 {0.5}	0.33 {3.3}	Diagram 1	0.33
SNS-C102X	- 0.02 { - 20cmHg}	0.2 {2}	0.025 {0.25}	0.15 {1.5}			0.55 {5.5}		
SNS-C103X	- 0.06 { - 50cmHg}	0.3 {3}	0.035 {0.35}	0.2 {2}	0.05 {0.5}	0.15 {1.5}	1.1 {11}		
SNS-C104X	- 0.06 { - 50cmHg}	0.4 {4}	0.04 {0.4}		0.1 {1}	0.2 {2}	1.65 {16.5}		
SNS-C106X	- 0.06 { - 50cmHg}	0.6 {6}	0.06 {0.6}	0.4 {4}	0.2 {2}	0.3 {3}			
SNS-C110X	0.1 {1}	1 {10}	0.1 {1}	0.3 {3}	0.4 {4}	0.6 {6}			
SNS-C120X	0.5 {5}	2 {20}	0.2 {2}	0.5 {5}	1.2 {12}	1.5 {15}	3.3 {33}		
SNS-C130X		3 {30}	0.3 {3}	1 {10}	2 {20}	2.5 {25}	4 {40}		
SNS-C135X	1 {10}	3.5 {35}	0.5 {5}	1.5 {15}	2.5 {25}	3 {30}	4.6 {46}		

#### Type SNS—Manual Reset Type

Unit: MPa {kgf/cm<sup>2</sup>}

Catalog No.	Range		Manual Reset	* Factory Setting		Max. Bellows Pressure	Contact Function	Wt. (kg)
	Min.	Max.		Off	On			
<b>SNS-C102XM2</b>	- 0.02 { - 20cmHg}	0.2 {2}	Automatic operation on pressure decrease, and manual reset.	0.025 {0.25}	manual reset	0.55 {5.5}	Diagram 2	0.33
<b>SNS-C106XM2</b>	- 0.06 { - 50cmHg}	0.6 {6}		0.2 {2}		1.65 {16.5}		
<b>SNS-C130XM2</b>	0.5 {5}	3 {30}		2 {20}		4 {40}		

\* Based on the 1-3 terminal connection.

#### Type HNS—Automatic Reset Type

Unit: MPa {kgf/cm<sup>2</sup>}

Catalog No.	Range		Differential	* Factory Setting		Max. Bellows Pressure	Contact Function	Wt. (kg)
	Min.	Max.		Off	On			
<b>HNS-C130X</b>	0.8 {8}	3 {30}	0.3 to 0.5 fixed {3 to 5 fixed}	2 {20}	1.6 {16}	4 {40}	Diagram 3	0.24

\* Based on the 1-3 terminal connection.

#### Type HNS—Manual Reset Type

Unit: MPa {kgf/cm<sup>2</sup>}

Catalog No.	Range		Manual Reset	* Factory Setting		Max. Bellows Pressure	Contact Function	Wt. (kg)
	Min.	Max.		Off	On			
<b>HNS-C130XM1</b>	0.8 {8}	3 {30}	Automatic operation on pressure increase, and manual reset.	2 {20}	manual reset	4 {40}	Diagram 4	0.24

\* Based on the 1-3 terminal connection.

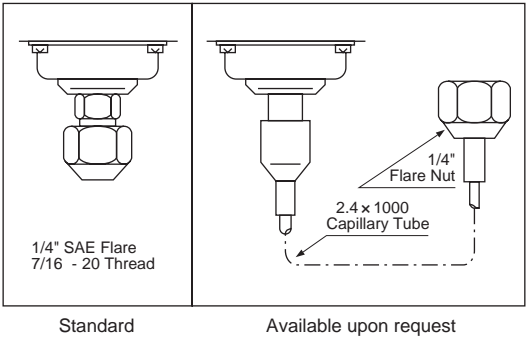
• Drip Proof Models: Available upon request. (Refer to Pages 50, 51.)

• Ammonia Models: Available upon request.

ELECTRICAL RATINGS

Rated Voltage (V)		Power Factor (cos )	125/250V. AC
Rated Amps. (A)			
Non-Inductive Current		1	12
Inductive Current	Full Load	0.75	
	Locked Rotor	0.45	72

PRESSURE CONNECTORS



CONTACT FUNCTIONS

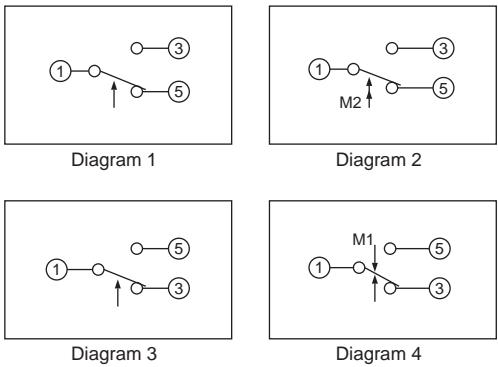
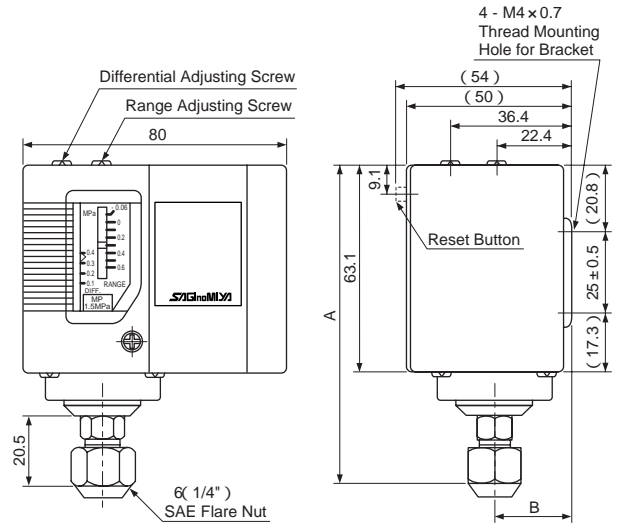


	Diagram 1 & 2	Diagram 3 & 4
1	Common Terminal	Common Terminal
3	Close on Pressure Increase	Open on Pressure Increase
5	Close on Pressure Decrease	Open on Pressure Decrease

: Operating direction on press. increase at High Press. Side  
M1 , M2 : Operating direction on manual reset

DIMENSIONS

Standard Model  
Type SNS



Catalog No.	Unit: mm	
	A	B
SNS-C101X	113	22.4
SNS-C102X	99.4	
SNS-C103X		
SNS-C104X		
SNS-C106X	96.5	
SNS-C110X		
SNS-C120X	95.6	18.4
SNS-C130X	93.2	
SNS-C135X		
SNS-C102XM2	99.4	22.4
SNS-C106XM2	96.5	
SNS-C130XM2	93.2	18.4

Type HNS

