

# PRESSURE CONTROLS WITH NARROW DIFFERENTIAL

## Type FNS & ANS

SAGInoMIYA

### GENERAL DESCRIPTION

- For use with fluorinated refrigerants as well as with air and water.
- Type FNS with fixed narrow differential
- Type ANS with adjustable narrow differential
- Available drip proof enclosure for marine application or explosion proof enclosure for special application.
- Mounting bracket is supplied as standard.
- With SPDT contact mechanism.
- IP44 with upper lid (option). ·····Type FNS
- Stainless steel models are available upon request.

CE mark applicable (available upon request)



Type FNS



Type ANS

### SPECIFICATIONS

- Fluid temperature: -20 to 120°C
- Ambient temperature: -20 to 70°C

### TYPE NUMBER SELECTION

Type FNS – Fixed narrow differential type

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

Catalog No.	Range		Differential Fixed	Factory Setting		Max. Working Pressure	Wt. (kg)
	Min.	Max.		Off	On		
<b>FNS-C101X</b>	-0.06 {-50cmHg}	0.1 {1}	0.006 Approx. {0.06 Approx.}	(0.019) {(0.19)}	0.025 {0.25}	0.3 {3}	0.32
<b>FNS-C102X</b>	-0.02 {-20cmHg}	0.2 {2}	0.008 Approx. {0.08 Approx.}	(0.042) {(0.42)}	0.05 {0.5}	0.5 {5}	
<b>FNS-C106X</b>	-0.06 {-50cmHg}	0.6 {6}	0.02 Approx. {0.2 Approx.}	(0.28) {(2.8)}	0.3 {3.0}	1.5 {15}	
<b>FNS-C110X</b>	0.1 {1}	1 {10}	0.025 Approx. {0.25 Approx.}	(0.575) {(5.75)}	0.6 {6.0}		
<b>FNS-C130X</b>	0.5 {5}	3 {30}	0.12 Approx. {1.2 Approx.}	(2.38) {(23.8)}	2.5 {25}	3.3 {33}	

Type ANS – Adjustable narrow differential type

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

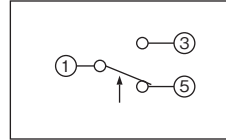
Catalog No.	Range		Differential				Factory Setting		Max. Working Pressure	Wt. (kg)
			Min.		Max.					
	Min.	Max.	Bottom	Top	Bottom	Top	Off	On		
<b>ANS-C101XB</b>	-0.06 {-50cmHg}	0.1 {1}	0.007 {0.07}	0.007 {0.07}	0.014 {0.14}	0.015 {0.15}	0.018 {0.18}	0.025 {0.25}	0.3 {3}	0.32
<b>ANS-C103XB</b>	-0.02 {-20cmHg}	0.3 {3}	0.008 {0.08}	0.01 {0.1}	0.018 {0.18}	0.027 {0.27}	0.141 {1.41}	0.15 {1.5}	1 {10}	
<b>ANS-C106XB</b>	-0.06 {-50cmHg}	0.6 {6}	0.015 {0.15}	0.018 {0.18}	0.03 {0.3}	0.045 {0.45}	0.28 {2.84}	0.3 {3.0}	1.5 {15}	
<b>ANS-C110XB</b>	0.1 {1}	1 {10}	0.02 {0.2}	0.03 {0.3}	0.045 {0.45}	0.07 {0.7}	0.575 {5.75}	0.6 {6.0}		
<b>ANS-C130XB</b>	0.5 {5}	3 {30}	0.12 {1.2}	0.2 {2.0}	0.23 {2.3}	0.37 {3.7}	2.32 {23.2}	2.5 {25}	3.3 {33}	
<b>ANS-C135XB</b>	1 {10}	3.5 {35}			0.24 {2.4}	0.39 {3.9}	2.82 {28.2}	3 {30}	3.8 {38}	

- Enclosure: IP20
- Drip Proof Models: Available upon request. (Refer to page 51.)

## ELECTRICAL RATINGS

Rated Current (A)	Rated Voltage (V)	Power Factor (cos $\phi$ )	125/250V. AC
Non-Inductive Current		1	12
Inductive Current	Full Load	0.75	
	Inrush Current	—	72

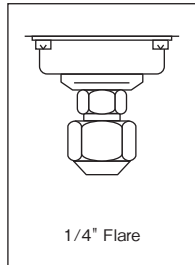
## CONTACT FUNCTIONS



1	Common Terminal
3	Close on Pressure Increase
5	Close on Pressure Decrease

↑ : Operating direction on press. increase at High Press. Side

## PRESSURE CONNECTIONS

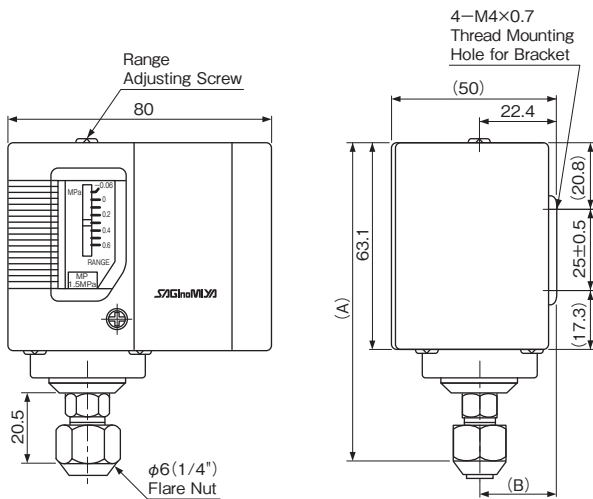


Standard

Refer to page 45, 46.

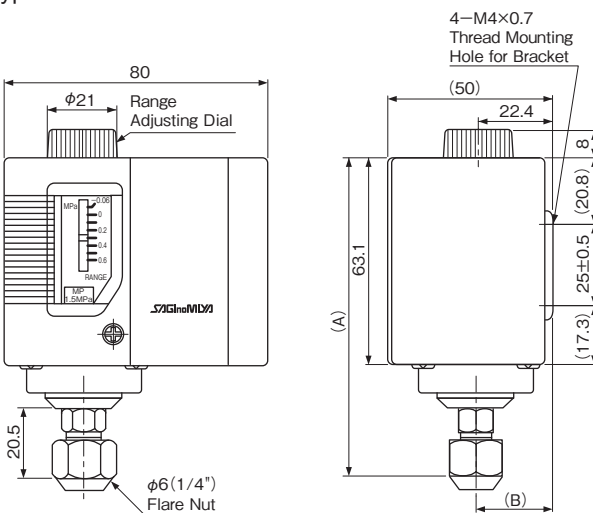
## DIMENSIONS

Standard Model  
Type FNS



Catalog No.	Unit: mm	
	A	B
<b>FNS-C101X</b>	113.3	22.4
<b>FNS-C102X</b>	99.7	
<b>FNS-C106X</b>	96.8	18.4
<b>FNS-C110X</b>		
<b>FNS-C130X</b>	93.5	18.4

Type ANS



Catalog No.	Unit: mm	
	A	B
<b>ANS-C101XB</b>	113.3	22.4
<b>ANS-C103XB</b>	99.7	
<b>ANS-C106XB</b>	96.8	18.4
<b>ANS-C110XB</b>		
<b>ANS-C130XB</b>	93.5	18.4
<b>ANS-C135XB</b>		

Unit: mm