

PRESSURE CONTROLS WITH NARROW DIFFERENTIAL

Type FNS & ANS

SAGInoMIYA

GENERAL DESCRIPTION

- For use with fluorinated refrigerants as well as with air and water. (Allowable fluid temp.: -20 to 120°C)
- 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
- Ammonia models: Available upon request.

CE mark applicable (available upon request)



Type FNS



Type ANS

TYPE NUMBER SELECTION (SPECIFICATIONS)

Type FNS—Fixed narrow differential

Unit: MPa {kgf/cm²}

Unit: MPa (kg/cm ²)							
Catalog No.	Range		Differential	Factory Setting		Max. Working Pressure	Wt. (kg)
	Min.	Max.	Fixed	Off	On		
FNS-C101X	−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
FNS-C102X	−0.02 {−20cmHg}	0.2 {2}	0.008 approx. {0.08 approx.}	(0.042) {(0.42)}	0.05 {0.5}	0.5 {5}	
FNS-C106X	−0.06 {−50cmHg}	0.6 {6}	0.02 approx. {0.2 approx.}	(0.28) {(2.8)}	0.3 {3.0}	1.5 {15}	
FNS-C110X	0.1 {1}	1 {10}	0.025 approx. {0.25 approx.}	(0.575) {(5.75)}	0.6 {6.0}		
FNS-C130X	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

Unit: MPa {kgf/cm²}

Catalog No.	Range		Differential				Factory Setting		Max. Working Pressure	Wt. (kg)
			Min.		Max.					
	Min.	Max.	Bottom	Top	Bottom	Top	Off	On		
ANS-C101XB	—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
ANS-C103XB	—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}	
ANS-C106XB	—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}	
ANS-C110XB	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}		
ANS-C130XB	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}	
ANS-C135XB	1 {10}	3.5 {35}			0.24 {2.4}	0.39 {3.9}	2.82 {28.2}	3 {30}	3.8 {38}	

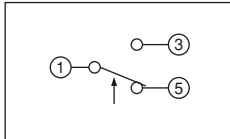
• Enclosure: IP20

• Drip Proof Models: Available upon request. (Refer to Pages 48, 49.)

ELECTRICAL RATINGS

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

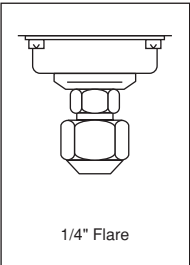
CONTACT FUNCTIONS



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

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

PRESSURE CONNECTIONS



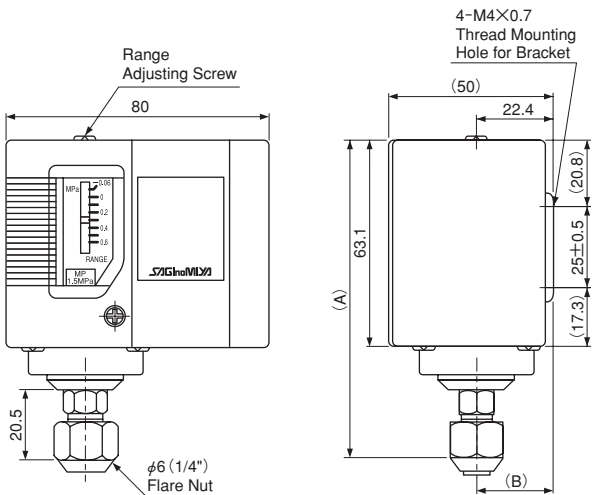
Standard

Refer to Pages 45, 46

DIMENSIONS

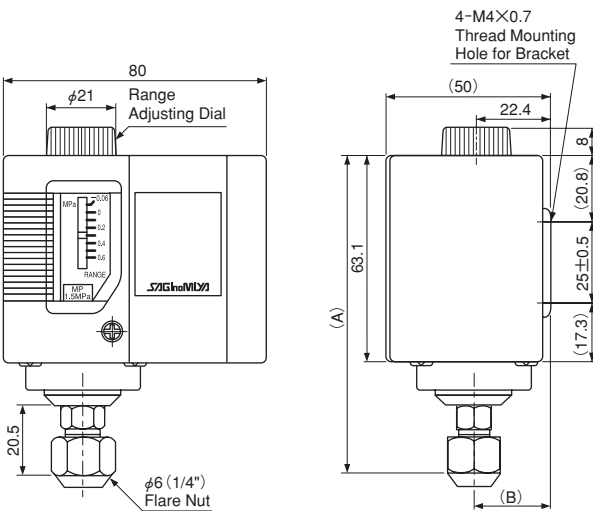
Standard Model

Type FNS



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

Type ANS



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

Unit: mm