DUAL PRESSURE CONTROLS

Type **DNS**

SAGInoMIYA

GENERAL DESCRIPTION

- For use with fluorinated refrigerants as well as with air and water. (Allowable Fluid Temp.: −20 to 120°C)
- Various contact functions are available.
- Several models are available in drip proof enclosure for marine applications or in explosion proof enclosure for special applications.
- Mounting bracket is supplied as standard.
- IP44 with upper lid (option).

CE mark applicable (available upon request)

UL listed (available upon request)

TYPE NUMBER SELECTION (SPECIFICATIONS)

Automatic Reset Type

Unit: MPa {kgf/cm²}

Catalog No.	Pressure Side	Range		Differential		Factory Setting		Max. Bellows Pressure	Contact Function	Wt. (kg)
		Min.	Max.	Min.	Max.	Off	On			
DNS–D304X	Low Side	−0.06 {−50cmHg}	0.4 {4}	0.04 {0.4}	0.2 {2}	0.1 {1}	0.2 {2}	1.65 {16.5}	Diagram 1	0.49
	High Side	0.8 {8}	3 {30}	Approx. 0.4 fixed {Approx. 4 fixed}		2 {20}	1.6 {16}	4 {40}		
DNS–D306X	Low Side	−0.06 {−50cmHg}	0.6 {6}	0.06 {0.6}	0.4 {4}	0.2 {2}	0.3 {3}	1.65 {16.5}		
	High Side	0.8 {8}	3 {30}	Approx. 0.4 fixed {Approx. 4 fixed}		2 {20}	1.6 {16}	4 {40}		
DNS–D604X	Low Side	−0.06 {−50cmHg}	0.4 {4}	0.04 {0.4}	0.2 {2}	0.1 {1}	0.2 {2}	1.65 {16.5}	Diagram 4	
	High Side	0.8 {8}	3 {30}	Approx. 0.4 fixed {Approx. 4 fixed}		2 {20}	1.6 {16}	4 {40}		
DNS–D606X	Low Side	−0.06 {−50cmHg}	0.6 {6}	0.06 {0.6}	0.4 {4}	0.2 {2}	0.3 {3}	1.65 {16.5}		
	High Side	0.8 {8}	3 {30}	Approx. 0.4 fixed {Approx. 4 fixed}		2 {20}	1.6 {16}	4 {40}		
DNS–D706X	Low Side	−0.06 {−50cmHg}	0.6 {6}	0.06 {0.6}	0.4 {4}	0.2 {2}	0.3 {3}	1.65 {16.5}	Diagram 7	0.46
	High Side	0.8 {8}	3 {30}	Approx. 0.5 fixed {Approx. 5 fixed}		2 {20}	1.5 {15}	4 {40}		

Manual Reset Type

Unit: MPa {kgf/cm²}

Catalog No.	Pressure Side	Range		Differential		Factory Setting		Max. Bellows Pressure	Contact Function	Wt. (kg)
		Min.	Max.	Min.	Max.	Off	On			
DNS–D304XM	Low Side	−0.06 {−50cmHg}	0.4 {4}	0.04 {0.4}	0.2 {2}	0.1 {1}	0.2 {2}	1.65 {16.5}	Diagram 2	0.49
	High Side	0.8 {8}	3 {30}	Automatic operation on pressure rise, and manual reset.		2 {20}	manual reset	4 {40}		
DNS–D306XM	Low Side	−0.06 {−50cmHg}	0.6 {6}	0.06 {0.6}	0.4 {4}	0.2 {2}	0.3 {3}	1.65 {16.5}		0.51
	High Side	0.8 {8}	3 {30}	Automatic operation on pressure rise, and manual reset.		2 {20}	manual reset	4 {40}		
DNS–D604XM	Low Side	−0.06 {−50cmHg}	0.4 {4}	0.04 {0.4}	0.2 {2}	0.1 {1}	0.2 {2}	1.65 {16.5}	Diagram 5	0.49
	High Side	0.8 {8}	3 {30}	Automatic operation on pressure rise, and manual reset.		2 {20}	manual reset	4 {40}		
DNS–D606XM	Low Side	−0.06 {−50cmHg}	0.6 {6}	0.06 {0.6}	0.4 {4}	0.2 {2}	0.3 {3}	1.65 {16.5}		
	High Side	0.8 {8}	3 {30}	Automatic operation on pressure decrease, and manual reset.		2 {20}	manual reset	4 {40}		
DNS–D606XMM	Low Side	−0.06 {−50cmHg}	0.6 {6}	Automatic operation on pressure rise, and manual reset.		0.2 {2}		1.65 {16.5}	Diagram 6	
	High Side	0.8 {8}	3 {30}			2 {20}		4 {40}		
DNS–D706XM	Low Side	−0.06 {−50cmHg}	0.6 {6}	Automatic operation on pressure decrease, and manual reset.		0.2 {2}		1.65 {16.5}	Diagram 8	0.46
	High Side	0.8 {8}	3 {30}	Automatic operation on pressure rise, and manual reset.		2 {20}		4 {40}		

Manual Reset Type with Alarm Lamp

Unit: MPa {kgf/cm²}

Catalog No.	Pressure Side	Range		Differential		Factory Setting		Max. Bellows Pressure	Contact Function	Wt. (kg)
		Min.	Max.	Min.	Max.	Off	On			
DNS–D306XML	Low Side	−0.06 {−50cmHg}	0.6 {6}	0.06 {0.6}	0.4 {4}	0.2 {2}	0.3 {3}	1.65 {16.5}	Diagram 3	0.51
	High Side	0.8 {8}	3 {30}	Automatic operation on pressure rise, and manual reset.		2 {20}	manual reset	4 {40}		

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

ELECTRICAL RATINGS

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

CONTACT FUNCTIONS

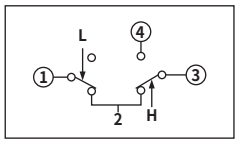


Diagram 1

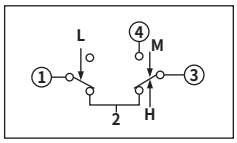


Diagram 2

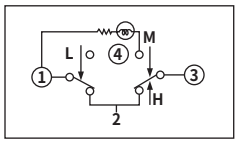


Diagram 3

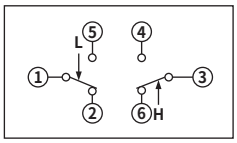


Diagram 4

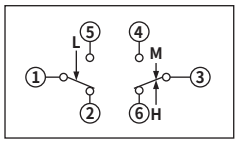


Diagram 5

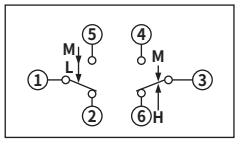


Diagram 6

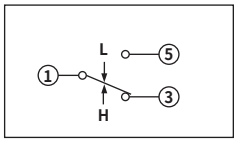


Diagram 7

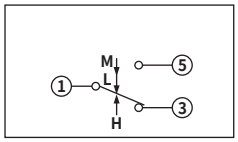
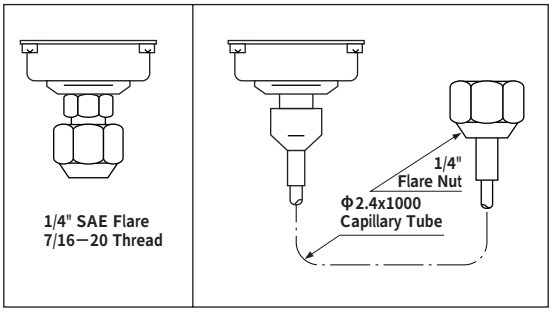


Diagram 8

↓L: Operating direction on press. increase at Low Press. Side
↑H: Operating direction on press. increase at High Press. Side
↓M: Operating direction on manual reset

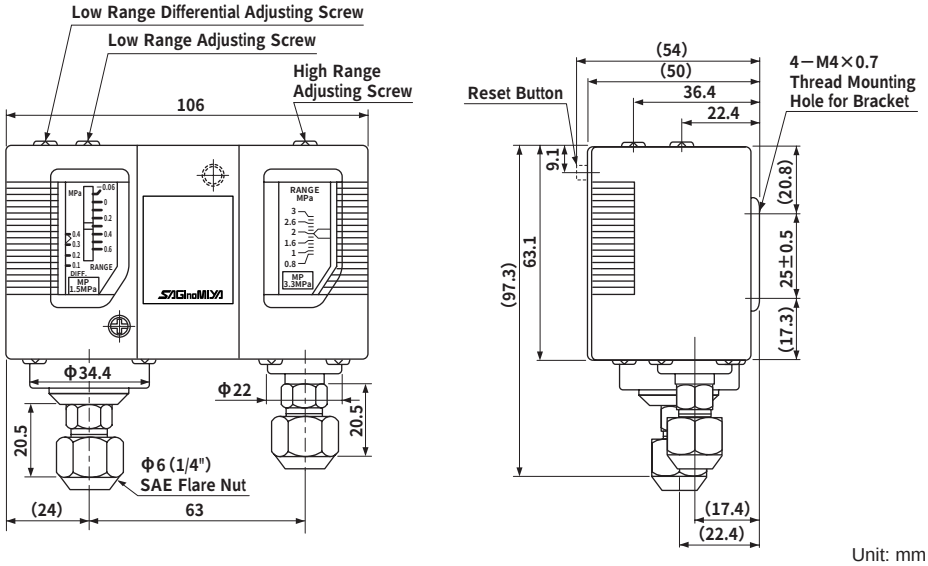
PRESSURE CONNECTORS



Standard Availavle upon request

DIMENSIONS

Standard Model



Unit: mm