

DUAL PRESSURE CONTROLS

Type DNS

SAGHOMIYA

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.
- Available drip proof enclosure for marine application or explosion proof enclosure for special application.
- Mounting bracket is supplied as standard.
- IP44 with upper lid (option).
- Stainless steel models are available upon request.



CE mark applicable (available upon request)

UL recognized (available upon request)

SPECIFICATIONS

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

TYPE NUMBER SELECTION

Automatic reset type

Unit: MPa {kgf/cm²}

Catalog No.	Pressure Side	Range		Differential		Factory Setting		Max. Working 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}	1.5 {15}	Diagram 1	0.49
	High Side	0.8 {8}	3 {30}	Approx. 0.4 fixed {Approx. 4 fixed}		2 {20}	1.6 {16}	3.3 {33}		
DNS-D306X	Low Side	-0.06 {-50cmHg}	0.6 {6}	0.06 {0.6}	0.4 {4}	0.2 {2}	0.3 {3}	1.5 {15}		
	High Side	0.8 {8}	3 {30}	Approx. 0.4 fixed {Approx. 4 fixed}		2 {20}	1.6 {16}	3.3 {33}		
DNS-D604X	Low Side	-0.06 {-50cmHg}	0.4 {4}	0.04 {0.4}	0.2 {2}	0.1 {1}	0.2 {2}	1.5 {15}	Diagram 3	
	High Side	0.8 {8}	3 {30}	Approx. 0.4 fixed {Approx. 4 fixed}		2 {20}	1.6 {16}	3.3 {33}		
DNS-D606X	Low Side	-0.06 {-50cmHg}	0.6 {6}	0.06 {0.6}	0.4 {4}	0.2 {2}	0.3 {3}	1.5 {15}		
	High Side	0.8 {8}	3 {30}	Approx. 0.4 fixed {Approx. 4 fixed}		2 {20}	1.6 {16}	3.3 {33}		

Manual reset type

Unit: MPa {kgf/cm²}

Catalog No.	Pressure Side	Range		Differential		Factory Setting		Max. Working 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}	1.5 {15}	Diagram 2	0.49
	High Side	0.8 {8}	3 {30}	Automatic operation on pressure increase, and manual reset on pressure decrease ※2		2 {20}	manual reset	3.3 {33}		
DNS-D306XM	Low Side	-0.06 {-50cmHg}	0.6 {6}	0.06 {0.6}	0.4 {4}	0.2 {2}	0.3 {3}	1.5 {15}		
	High Side	0.8 {8}	3 {30}	Automatic operation on pressure increase, and manual reset on pressure decrease ※2		2 {20}	manual reset	3.3 {33}		
DNS-D604XM	Low Side	-0.06 {-50cmHg}	0.4 {4}	0.04 {0.4}	0.2 {2}	0.1 {1}	0.2 {2}	1.5 {15}	Diagram 4	
	High Side	0.8 {8}	3 {30}	Automatic operation on pressure increase, and manual reset on pressure decrease ※2		2 {20}	manual reset	3.3 {33}		
DNS-D606XM	Low Side	-0.06 {-50cmHg}	0.6 {6}	0.06 {0.6}	0.4 {4}	0.2 {2}	0.3 {3}	1.5 {15}		
	High Side	0.8 {8}	3 {30}	Automatic operation on pressure increase, and manual reset on pressure decrease ※2		2 {20}		3.3 {33}		
DNS-D606XMM	Low Side	-0.06 {-50cmHg}	0.6 {6}	Automatic operation on pressure decrease, and manual reset on pressure increase ※1		0.2 {2}	manual reset	1.5 {15}	Diagram 5	
	High Side	0.8 {8}	3 {30}	Automatic operation on pressure increase, and manual reset on pressure decrease ※2		2 {20}		3.3 {33}		

• Enclosure: IP20

• Drip Proof Models: Available upon request.
(Refer to Pages 49, 50.)

※1 Please press the reset button after the pressure increased about 0.1 MPa or more.

※2 Please press the reset button after the pressure decreased about 0.7 MPa or less.

ELECTRICAL RATINGS

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

Minimum contact capacity: 50mA

CONTACT FUNCTIONS

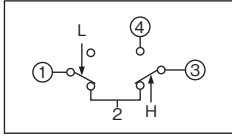


Diagram 1

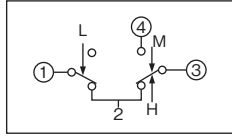


Diagram 2

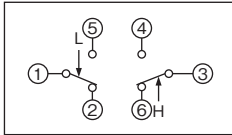


Diagram 3

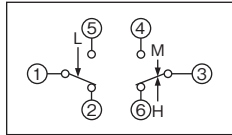


Diagram 4

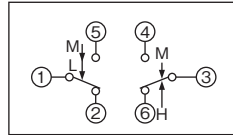
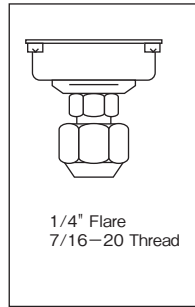


Diagram 5

↑ 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 CONNECTIONS

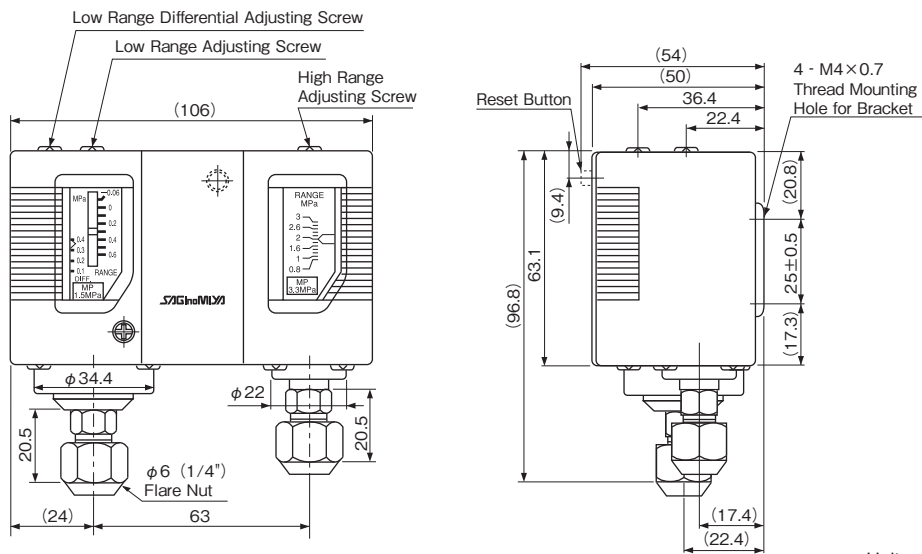


Standard

Refer to Pages 45, 46

DIMENSIONS

Standard Model



Unit: mm