

Membrane Air Dryer/Single Unit Type

Series *IDG*

How to Order

IDG 10 - 02 -

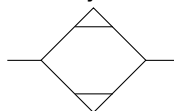
Size

1
3
5
10
20
60
75
100

Standard dew point temperature and air flow rate

Symbol	Standard dew point (°C)	Flow rate by size						Outlet air flow rate (L/min [ANR])
		1	3	5	10	20	60	
Nil	-20	10	25	50	100	200	600	750 1000
H	-15	—	25	50	100	200	600	750 1000
L	-40	—	—	—	—	—	Select from Series IDG□A	
S	-60	—	—	—	—	—		

JIS Symbol



Thread type

Symbol	Type
Nil	Rc
N	NPT
F	G

Port size

Symbol	Port size	Size							
		1	3	5	10	20	60	75	100
01	1/8	—	●	●	—	—	—	—	—
02	1/4	●	●	●	●	●	—	—	—
03	3/8	—	—	—	●	●	●	—	—
04	1/2	—	—	—	—	—	●	●	●

Option

Symbol	Contents	Size							
		1	3	5	10	20	60	75	100
Nil	None (Standard)	●	●	●	●	●	●	●	●
P	With fitting for purge air discharge	●	●	●	●	●	●	●	●
R	Flow direction (Right → Left)	—	●	●	●	●	●	●	●
S	With dew point indicator	—	●	●	Standard equipment				

Note) In the case of two or more options, indicate them alphabetically.

Bracket Assembly (Accessory) Part No.

Part no.	Applicable model
BM59	IDG3, 5
BM61	IDG10
BM63	IDG20
BM65	IDG60, 75, 100

* With cap bolts (2 pcs.) and spring washers (2 pcs.)



Single Unit Type

Unit Type

Model Selection

Made to Order

Specific Product Precautions

Standard Specifications/Single Unit Type (Standard dew point -20°C, -15°C)

Standard dew point----20°C

Model		IDG1	IDG3	IDG5	IDG10	IDG20	IDG30A	IDG50A	IDG60	IDG75	IDG100
Range of operating conditions	Fluid	Compressed air									
	Inlet air pressure (MPa)	0.3 to 0.85					0.3 to 1.0				
	Inlet air temperature (°C) Note 1)	-5 to 55					-5 to 50				
	Ambient temperature (°C) Note 1)	-5 to 55					-5 to 50				
Standard performance	Outlet air atmospheric pressure dew point (°C)	-20									
Standard performance conditions	Inlet air flow rate (L/min [ANR]) Note 2)	12.5	31	62	125	250	360	586	725	900	1190
	Outlet air flow rate (L/min [ANR])	10	25	50	100	200	300	500	600	750	1000
	Purge air flow rate (L/min [ANR]) Note 3)	2.5	6	12	25	50	60	86	125	150	190
	Inlet air pressure (MPa)	0.7									
	Inlet air temperature (°C)	25									
	Inlet air saturation temperature (°C)	25									
	Ambient temperature (°C)	25									
	Dew point indicator purge air flow rate	—			1 L/min [ANR] {In case of Inlet air pressure 0.7 MPa}						
Port size (Nominal size B)	1/4	1/8, 1/4		1/4, 3/8				3/8, 1/2		1/2	
Weight (kg) (With bracket)	0.11	0.25 (0.31)		0.43 (0.51)	0.66 (0.76)	0.78 (0.91)	0.81 (0.94)	1.50 (1.65)	1.50 (1.65)	1.55 (1.70)	

Note 1) When using the product in the temperature range between -5°C and 5°C, prevent water droplets from entering the inlet port. (No freezing of the fluid)

Note 2) "ANR" indicates the flow rate converted to the value at 20°C, under the atmospheric pressure and the state of relative humidity 65%.

Note 3) Includes 1 L/min [ANR] of purge air flow (at 0.7 MPa inlet air pressure) for the dew point indicator (except IDG1, 3, 5).

Standard dew point----15°C/Type H

Model		IDG3H	IDG5H	IDG10H	IDG20H	IDG30HA	IDG50HA	IDG60H	IDG75H	IDG100H	
Range of operating conditions	Fluid	Compressed air									
	Inlet air pressure (MPa)	0.3 to 0.85				0.3 to 1.0					
	Inlet air temperature (°C) ^{Note 1)}	-5 to 55				-5 to 50					
	Ambient temperature (°C) ^{Note 1)}	-5 to 55				-5 to 50					
Standard performance	Outlet air atmospheric pressure dew point (°C)	-15									
Standard performance conditions	Inlet air flow rate (L/min [ANR]) ^{Note 2)}	28	56	111	222	329	550	665	830	1110	
	Outlet air flow rate (L/min [ANR])	25	50	100	200	300	500	600	750	1000	
	Purge air flow rate (L/min [ANR]) ^{Note 3)}	3	6	11	22	29	50	65	80	110	
	Inlet air pressure (MPa)	0.7									
	Inlet air temperature (°C)	25									
	Inlet air saturation temperature (°C)	25									
	Ambient temperature (°C)	25									
	Dew point indicator purge air flow rate	—		1 L/min [ANR] {In case of Inlet air pressure 0.7 MPa}							
	Port size (Nominal size B)	1/8, 1/4		1/4, 3/8				3/8, 1/2		1/2	
Weight (kg) (With bracket)	0.25 (0.31)		0.43 (0.51)	0.66 (0.76)	0.78 (0.91)	0.81 (0.94)	1.50 (1.65)	1.50 (1.65)	1.55 (1.70)		

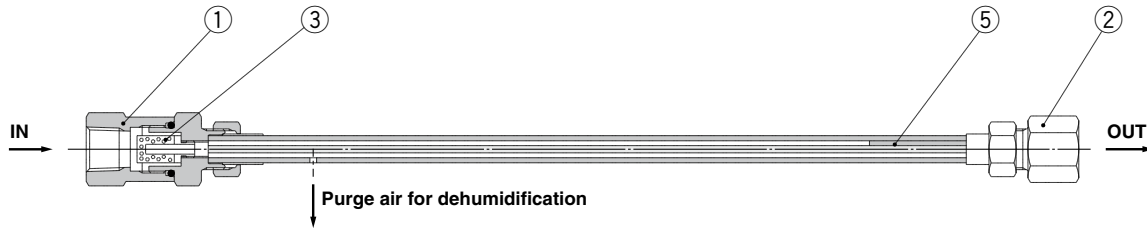
Note 1) When using the product in the temperature range between -5°C and 5°C, prevent water droplets from entering the inlet port. (No freezing of the fluid)

Note 2) "ANR" indicates the flow rate converted to the value at 20°C, under the atmospheric pressure and the state of relative humidity 65%.

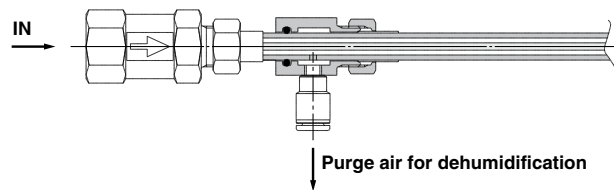
Note 3) Includes 1 L/min [ANR] of purge air flow (at 0.7 MPa inlet air pressure) for the dew point indicator (except IDG3H, 5H).

Dimensions

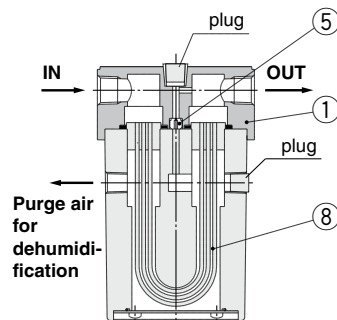
IDG1



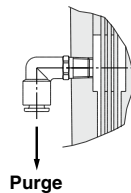
Option With fitting for purge air discharge (Option: P)



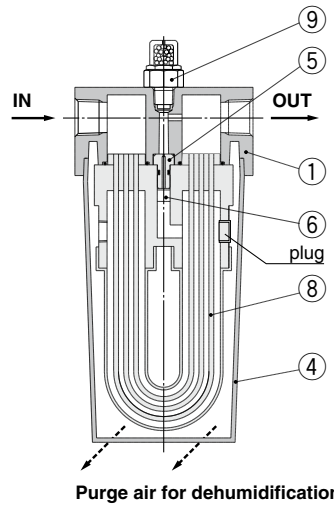
IDG3, 5 IDG3H, 5H



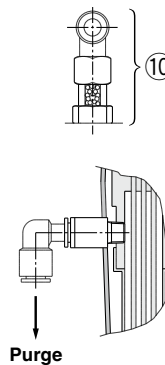
Option With fitting for purge air discharge (Option: P)



IDG10, 20 IDG10H, 20H



Option With fitting for purge air discharge (Option: P)



Component Parts

No.	Description	Material					Note			
		IDG1	IDG3, 3H	IDG5, 5H	IDG10, 10H	IDG20, 20H				
1	Body	Brass	Aluminum alloy				Platinum silver coated (IDG1 is electroless nickel plated.)			
2	Female connector	Brass	—				Electroless nickel plated			
3	Strainer	Brass	—							
4	Case	—	—				Resin			
5	Orifice	Resin	Stainless steel							
6	Silencer	—	—				Brass			

Replacement Parts

No.	Description	Part no.									
		IDG1	IDG3	IDG3H	IDG5	IDG5H	IDG10	IDG10H	IDG20	IDG20H	
8	Membrane module kit	—	IDG-EL3	IDG-EL3H	IDG-EL5	IDG-EL5H	IDG-EL10	IDG-EL10H	IDG-EL20	IDG-EL20H	
			With Orifice (1 pc.), O-ring (3 pcs.), Gasket (1 pc.)				With Orifice (1 pc.), Silencer (1 pc.), O-ring (4 pcs.)				
9	Dew point indicator kit	—	IDG-DP01 (Option: S)				IDG-DP01				
			With O-ring (1 pc.)								
10		—	IDG-DP01-X001 (Option: PS)				IDG-DP01-X001 (Option: P)				
			With O-ring (1 pc.)								