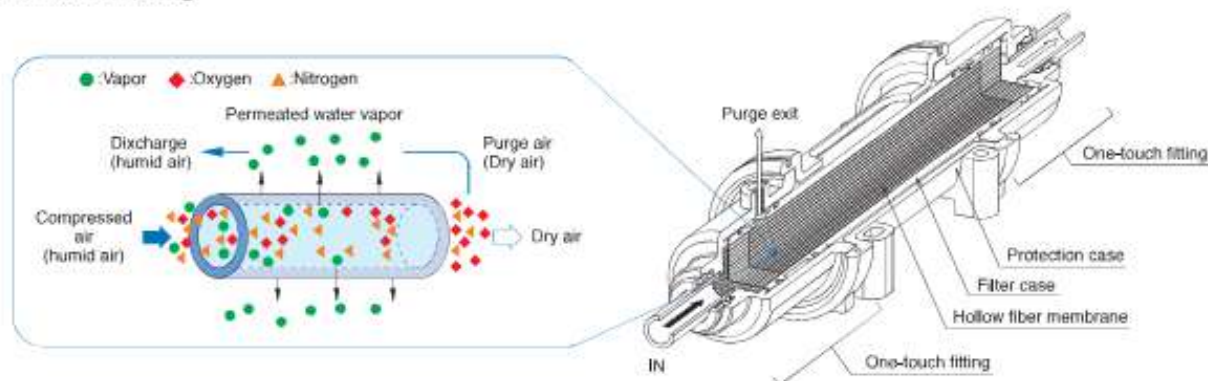


Ultra-compact Dehumidification Filter

The Principle of Dehumidification

Construction Drawing



The high polymer hollow fiber membrane can remove water molecules from nitrogen and oxygen molecules. Water molecules permeate through the wall of hollow fiber membranes and exhausted outside the module. Nitrogen and Oxygen pass through inside of the fibers and come out as dry air. It is possible to dehumidify it continuously by returning a part of dry air (purge air).

Line up



Flow rate

IAD3

1~30L/min

IAD10

1~100L/min

IAD20

1~200L/min

Features

Benefits

Compact Design

Small Space instalation in Plants and equipments.

Variety Kinds of Fitting.

Quick and Convinient filter change
One-touch tube connection type

Power Sources Not Required

You can use it in the explosion proof area.

Applications

- Precision Measuring Instruments
- Semiconductor Manufacturing Equipment
- Air Operation Equipment
- Ozone Generators
- Dental/Medical Equipment
- Analysis Equipment etc.



Concrete Example

The moisture outflow prevent

- dew condensation in piping by a difference in temperature
- Clinging of fine particle by moisture

Moisture mixing prevention

- Analysis of the gas ingredient
- Oxygen concentrate machine and ozonizer

Dehumidification of specific space

- Diffused reflection and diffusion measures in laser device
- Prevention of counting moisture as a particle
- Explosion-proof environment

The longevity of the absorbent such as zeolite is extended

Specifications

Product code		IAD3	IAD10	IAD20
Operating Temperature		5°C~ 50°C		
Max Operating Pressure		0.1~0.7MPa		
Fluid		Compressed air, Nitrogen		
Weight		28g	100g	250g
Flow rate		1~30L/min	1~100L/min	1~200L/min
Connection	IN/OUT	One touch tube fitting		Screw
	Size	φ4, φ6	φ6, φ8	Rc3/8
	Purge port	M5	M5	Rc1/8
Purge method		Inner line purge		Outside line purge
Material	Case	Polycarbonate		
	Filter media	Polyimido		
	Potting	Polyurethane		
	Connection	PBT+SUS	PBT+Glass fiber+SUS	
	O-ring	NBR	FKM	
	Protection case		PBT+Glass fiber	
	Steady pin, Bolt nut		SUS	

Product Code

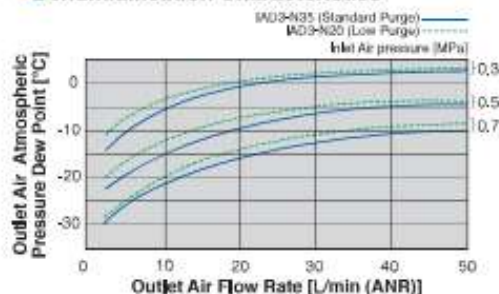
IAD3 series		Connection size		
		φ4	φ6	
Purge air rate (Inner purge)	STD	IAD3-N35-T4	IAD3-N35-T6	
	Low Purge	IAD3-N20-T4	IAD3-N20-T6	

IAD20 series		Connection size	
		Rc3/8	
Purge air rate		IAD20-G-3/8	
Outside purge			Adaptor R1/8 2pcs Adaptor R3/8 2pcs

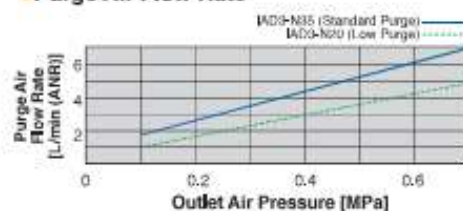
IAD10 series		Connection size		
		φ6	φ8	
Purge air rate	STD	IAD10-N65-T6	IAD10-N65-T8	
	Low Purge	IAD10-N40-T6	IAD10-N40-T8	
Outside purge		IAD10-G-T6	IAD10-G-T8	

IAD3 series

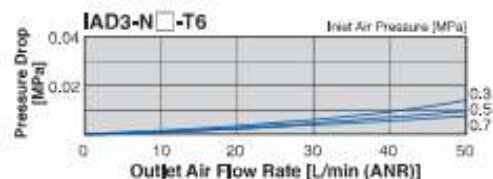
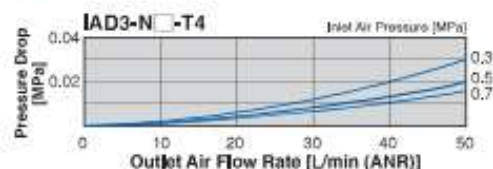
Dehumidification Characteristics



Purge Air Flow Rate

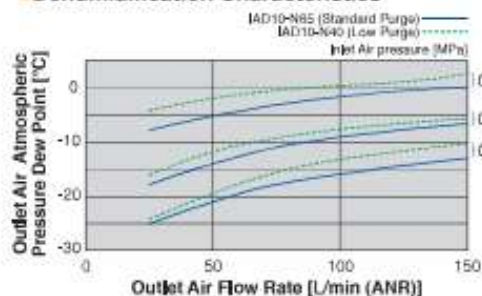


Flow Characteristics (Pressure Drop)

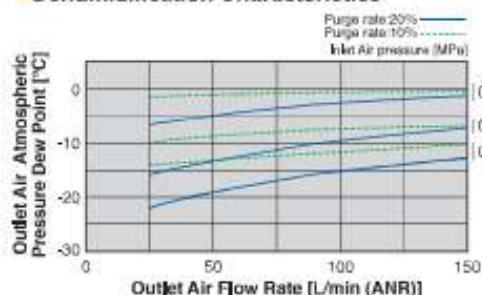


IAD10 series

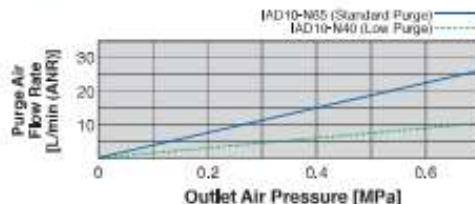
Dehumidification Characteristics



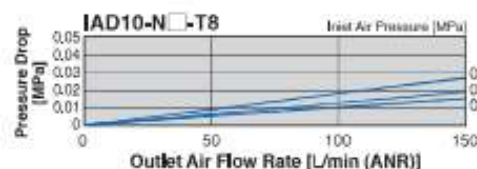
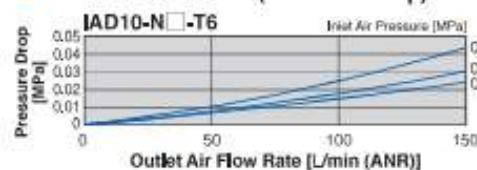
Dehumidification Characteristics



Purge Air Flow Rate

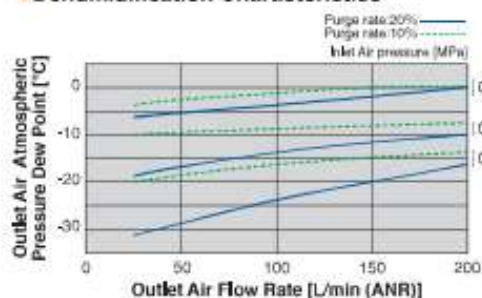


Flow Characteristics (Pressure Drop)

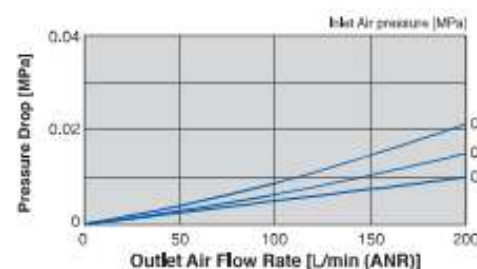


IAD20 series

Dehumidification Characteristics

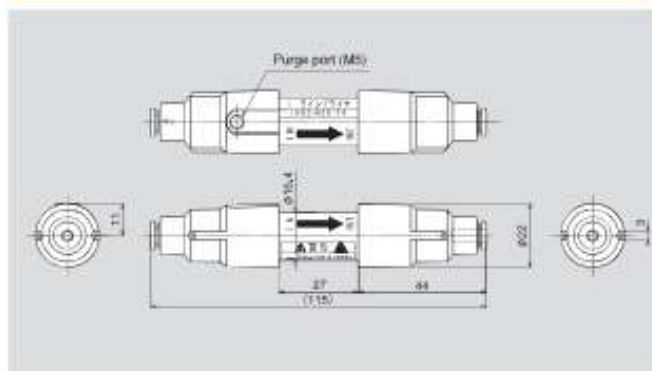


Flow Characteristics (Pressure Drop)

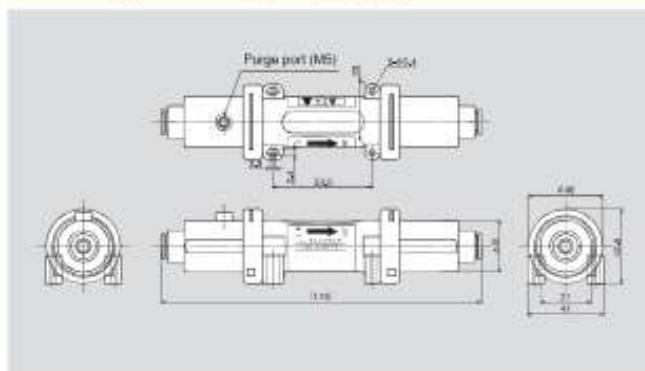


Dimensions

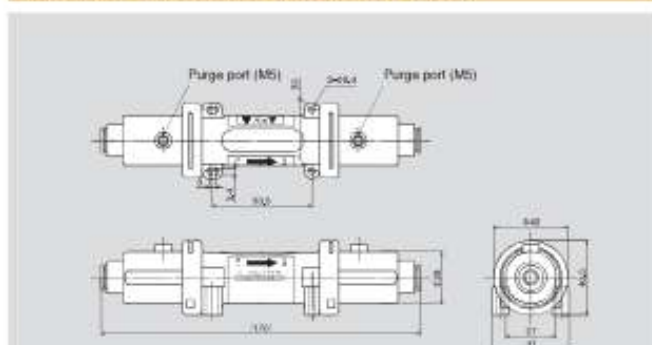
IAD3-N- T6



IAD10-N (Inner line purge type)

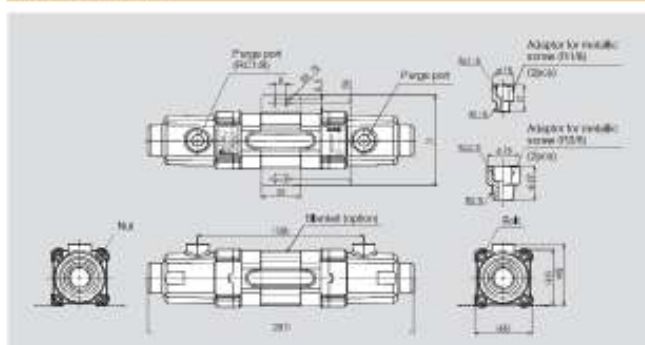


IAD10-G-T (Outside line purge type)



Purge air rate can be adjusted by preparing separately and adding the flow regulating valve.

IAD20-G-3/8



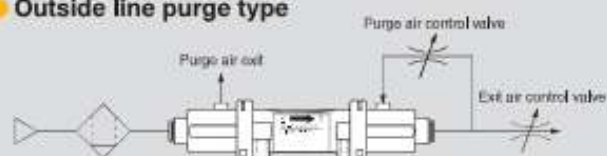
Purge air rate can be adjusted by preparing separately and adding the flow regulating valve. When you connect with a metallic screw, please use the accessory adapter.

Recommended circuit

Inner line purge type



Outside line purge type



Diverge the piping of the exit side, and connect for purge air entrance.

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