

# Membrane Air Dryer Unit Type Series **IDG**

## Units (Type M, Type V)

### How to Order

**IDG** **30** **M** **03**

Size

3
5
10
20
30
50
60
75
100

#### Option \*

Symbol	Contents	Size									
		3	5	10	20	30	50	60	75	100	
Nil	Standard	●	●	●	●	●	●	●	●	●	
P <sup>(1)</sup>	With fitting for purge air discharge	●	●	●	●	●	●	●	●	●	
R	Flow direction (Right → Left)	●	●	●	●	●	●	●	●	●	
S	With dew point indicator	●	●	Standard equipment							

\* In the case of two or more options, indicate them alphabetically.

Note 1) Symbol P is only applicable for Type M with either auto-drain or drain-guide. Type V is not applicable because it is equipped with a relief type regulator. (Symbol P is used when it is undesirable for the air to be discharged into the main body of IDG. Therefore, it is not possible to use it in combination with a separator with manual valve, which discharges air around it, or Type V with a relief type regulator.)

Note 2) They are not applicable in case the thread type is N or F. (Because barrel nipples are used for equipment connections.)

#### Standard dew point temperature and air flow rate

Symbol	Standard dew point (°C)	Flow rate by size								Outlet air flow rate		
		3	5	10	20	30	50	60	75	100	Purge air flow rate	( $\mu$ /min(ANR))
Nil	-20	25/6	50/12	100/2	200/5	300/7	500/12	600/12	750/15	1000/19		
H	-15	25/3	50/6	100/1	200/2	300/3	500/6	600/6	750/8	1000/11		
L	-40	—	—	—	—	75/2	110/4	170/5	240/8	300/10		
S	-60	—	—	—	—	—	—	50/27	100/5	150/85		

#### Drain discharge method \*

(Mist separator, Micro mist separator, Micro mist separator with prefilter)

Symbol	Drain discharge method	Size and standard dew point				
		3, 3H 5, 5H	10, 10H 20, 20H	30, 30H, 30L 50, 50H, 50L	60, 60H 75, 75H 100, 100H	60L, 60S 75L, 75S 100L, 100S
Nil	Manual valve	●	●	●	●	●
C <sup>Note)</sup>	N.C. auto-drain	●	●	●	—	●
D <sup>Note)</sup>	N.O. auto-drain	—	—	●	●	●
J	Drain guide (Bore 1/4 without valve)	—	●	●	●	●

\* For the model selection of an auto-drain, refer to "Selection" 4 of Precautions on page 14-19-7.

Note) When the symbol C or D is designated, the same part number of an auto-drain listed on page 14-19-33 will come together.

#### Component equipment

Symbol	Contents	Description Model	Mist separator	Micro mist separator	Micro mist separator with pre-filter	Membrane air dryer	Regulator
M	With separator	IDG3 to IDG50	●	●	—	●	—
		IDG3H to IDG50H	●	●	—	●	—
		IDG30L, IDG50L	●	●	—	●	—
		IDG60 to IDG100	—	—	●	●	—
		IDG60H to IDG100H	—	—	●	●	—
		IDG60L to IDG100L	●	●	—	●	—
		IDG60S to IDG100S	●	●	—	●	—
V	With separator regulator	IDG3 to IDG50	●	●	—	●	●
		IDG3H to IDG50H	●	●	—	●	●
		IDG30L, IDG50L	●	●	—	●	●
		IDG60 to IDG100	—	—	●	●	●
		IDG60H to IDG100H	—	—	●	●	●
		IDG60L to IDG100L	●	●	—	●	●
		IDG60S to IDG100S	●	●	—	●	●

Note 1) Element service indicator is also available. Refer to "Made to Order Specifications" on page 14-19-48.

Note 2) Specifications with micro mist separator is also available. Refer to "Made to Order Specifications" on page 14-19-50.

#### Port size

Symbol	Bore	Size								
		3	5	10	20	30	50	60	75	100
01	1/8	●	●	—	—	—	—	—	—	—
02	1/4	●	●	●	●	●	—	—	—	—
03	3/8	—	—	●	●	●	●	●	Note)	Note)
04	1/2	—	—	—	—	—	—	●	●	●

Note) Not applicable with the cases of standard dew point -20°C (Nil), -15°C (symbol H).

#### Thread type

Nil	Rc
N	NPT
F	G

## Standard Specifications/Unit (Type M, Type V) [Standard dew point: -20°C]

Model		Standard dew point: -20°C								
		IDG3M	IDG5M	IDG10M	IDG20M	IDG30M	IDG50M	IDG60M	IDG75M	IDG100M
		IDG3V	IDG5V	IDG10V	IDG20V	IDG30V	IDG50V	IDG60V	IDG75V	IDG100V
Component equipment	Mist separator	AFM20		AFM30		AFM40		—		
	Micro mist separator	AFD20		AFD30		AFD40		—		
	Micro mist separator with prefilter	—		—		—		AMH350	AMH450	
	Regulator (Type V only) <sup>(1)</sup>	AR20 <sup>(2)</sup>		AR25 <sup>(2)</sup>		AR40 <sup>(2)</sup>				
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)	-5 to 55 <sup>(3)</sup>				-5 to 50 <sup>(3)</sup>		5 to 50		
	Ambient temperature (°C)	-5 to 55				-5 to 50		5 to 50		
Standard performance	Outlet air atmospheric pressure dew point (°C)	-20								
	Standard performance conditions									
Standard performance conditions	Inlet air flow rate (ℓ/min (ANR)) <sup>(4)</sup>	31	62	125	250	375	625	725	900	1190
	Outlet air flow rate (ℓ/min (ANR))	25	50	100	200	300	500	600	750	1000
	Purge air flow rate (ℓ/min (ANR)) <sup>(5)</sup>	6	12	25	50	75	125	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 the case of Inlet air pressure 0.7 MPa}								
Regulator construction (Type V only)		Relief type								
Port size (Nominal size B)		1/8, 1/4		1/4, 3/8			3/8, 1/2		1/2	
Weight (kg) (With auto-drain)	Type M	0.83 (0.90)		1.21 (1.30)	1.44 (1.53)	2.23 (2.33)	2.26 (2.36)	2.55 (2.65)	3.10 (3.20)	3.15 (3.25)
	Type V	1.28 (1.35)		1.67 (1.76)	1.90 (1.99)	3.34 (3.45)	3.37 (3.48)	3.74 (3.84)	4.29 (4.39)	4.34 (4.44)

Note 1) For flow characteristics and pressure characteristics of regulator, refer to page 14-4-37.

Note 2) It will come with Option E (With square-shaped, embedded type of a pressure regulator). For details on regulators, refer to pages 14-4-35 to 14-4-40.

Note 3) No freezing.

Note 4) ANR indicates the flow rate converted to the value at 20°C under the atmospheric pressure and the state of relative humidity 65%.

Note 5) Includes 1 ℓ/min (ANR) of purge air flow (at 0.7 MPa inlet air pressure) for the dew point indicator (except IDG3M/3V/5M/5V).

Note 6) When highly purified air is required, refer to "Caution on Design" on page 14-19-7.



IDG10V

IDG30V

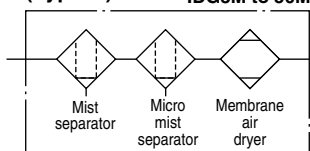


IDG60M

### JIS Symbol

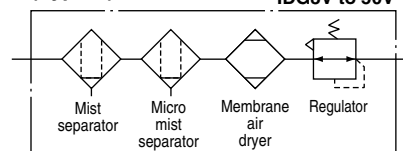
(Type M)

IDG3M to 50M

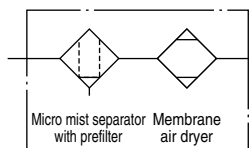


(Type V)

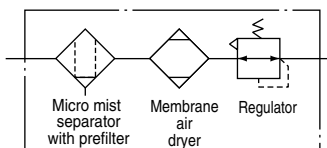
IDG3V to 50V



IDG60M to 100M



IDG60V to 100V



### Auto-drain, Bowl Assembly, Pressure Gauge Part No.

Description		Applicable models								
		IDG3M IDG3V	IDG5M IDG5V	IDG10M IDG10V	IDG20M IDG20V	IDG30M IDG30V	IDG50M IDG50V	IDG60M IDG60V	IDG75M IDG75V	IDG100M IDG100V
Float type auto-drain	N.C.	AD27		AD37		AD47		—	—	—
	N.O.	—	—	—	—	AD48		—	—	—
Bowl assembly (N.O.)		—	—	—	—	—	—	AMH-CA350-D	AMH-CA450-D	
Pressure gauge (Type V only)		GC30-10								

### Replacement Parts (Mist separator, Micro mist separator, Element for micro mist separator with prefilter)

Description	Model	AFM20	AFD20	AFM30	AFD30	AFM40	AFD40	AMH350	AMH450
Element assembly		630611	63092	630617	63093	630623	63094	AMH-EL350	AMH-EL450

Please refer to pages 14-19-28 to 14-19-29 for the replacement parts of a membrane air dryer.

● For flow characteristics, refer to pages 14-19-37 to 14-19-38, and for external dimensions, refer to pages 14-19-39 to 14-19-47.

# Series IDG

## Standard Specifications/Unit (Type M, Type V) [Standard dew point: -15°C]

Model		Standard dew point: -15°C								
		IDG3HM	IDG5HM	IDG10HM	IDG20HM	IDG30HM	IDG50HM	IDG60HM	IDG75HM	IDG100HM
		IDG3HV	IDG5HV	IDG10HV	IDG20HV	IDG30HV	IDG50HV	IDG60HV	IDG75HV	IDG100HV
Component equipment	Mist separator	AFM20		AFM30		AFM40		—		
	Micro mist separator	AFD20		AFD30		AFD40		—		
	Micro mist separator with prefilter	—						AMH350	AMH450	
	Regulator (Type V only) <sup>(1)</sup>	AR20 <sup>(2)</sup>		AR25 <sup>(2)</sup>		AR40 <sup>(2)</sup>				
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)	-5 to 55 <sup>(3)</sup>				-5 to 50 <sup>(3)</sup>		5 to 50		
	Ambient temperature (°C)	-5 to 55				-5 to 50		5 to 50		
Standard performance conditions	Outlet air atmospheric pressure dew point (°C)	-15								
	Inlet air flow rate (ℓ/min (ANR)) <sup>(4)</sup>	28	56	111	222	335	560	665	830	1110
Standard performance conditions	Outlet air flow rate (ℓ/min (ANR))	25	50	100	200	300	500	600	750	1000
	Purge air flow rate (ℓ/min (ANR)) <sup>(5)</sup>	3	6	11	22	35	60	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 the case of Inlet air pressure 0.7 MPa}								
Regulator construction (Type V only)	Relief type									
Port size (Nominal size B)	1/8, 1/4		1/4, 3/8				3/8, 1/2		1/2	
Weight (kg) (With auto-drain)	Type M	0.83 (0.90)		1.21 (1.30)	1.44 (1.53)	2.23 (2.33)	2.26 (2.36)	2.55 (2.65)	3.10 (3.20)	3.15 (3.25)
	Type V	1.28 (1.35)		1.67 (1.76)	1.90 (1.99)	3.34 (3.45)	3.37 (3.48)	3.74 (3.84)	4.29 (4.39)	4.34 (4.44)

Note 1) For flow characteristics and pressure characteristics of regulator, refer to page 14-4-37.

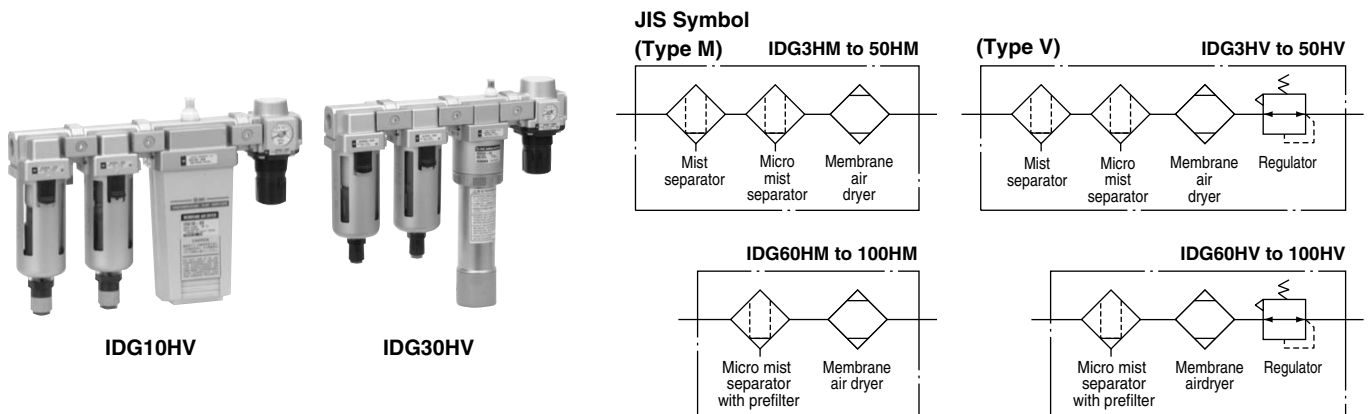
Note 2) It will come with Option E (With square-shaped, embedded type of a pressure regulator). For details on regulators, refer to pages 14-4-35 to 14-4-40.

Note 3) No freezing.

Note 4) ANR indicates the flow rate converted to the value at 20°C under the atmospheric pressure and the state of relative humidity 65%.

Note 5) Includes 1 ℓ/min (ANR) of purge air flow (at 0.7 MPa inlet air pressure) for the dew point indicator (except IDG3HM/3HV/5HM/5HV).

Note 6) When highly purified air is required, refer to "Caution on Design" on page 14-19-7.



### Auto-drain, Bowl Assembly, Pressure Gauge Part No.

Description		Applicable model								
		IDG3HM IDG3HV	IDG5HM IDG5HV	IDG10HM IDG10HV	IDG20HM IDG20HV	IDG30HM IDG30HV	IDG50HM IDG50HV	IDG60HM IDG60HV	IDG75HM IDG75HV	IDG100HM IDG100HV
Float type auto-drain	N.C.	AD27		AD37		AD47		—		
	N.O.	—		—		AD48		—		
Bowl assembly		—		—		—		AMH-CA350-D	AMH-CA450-D	
Pressure gauge (Type V only)		GC30-10								

### Replacement Parts (Mist separator, Micro mist separator, Element for micro mist separator with prefilter)

Description	Model	AFM20	AFD20	AFM30	AFD30	AFM40	AFD40	AMH350	AMH450
Element assembly		630611	63092	630617	63093	630623	63094	AMH-EL350	AMH-EL450

Refer to pages 14-19-28 to 14-19-29 for the replacement parts of a membrane air dryer.

● For flow characteristics, refer to pages 14-19-37 to 14-19-38, and for external dimensions, refer to pages 14-19-39 to 14-19-47.

Standard Specifications/Unit (Type M, Type V) [Standard dew point: -40°C]

Model		Standard dew point: -40°C				
		IDG30LM IDG30LV	IDG50LM IDG50LV	IDG60LM IDG60LV	IDG75LM IDG75LV	IDG100LM IDG100LV
Component equipment	Mist separator	AFM40				
	Micro mist separator	AFD40				
	Regulator (Type V only) <sup>(1)</sup>	AR40 <sup>(2)</sup>				
Range of operating conditions	Fluid	Compressed air				
	Inlet air pressure (MPa)	0.3 to 1.0				
	Inlet air temperature (°C)	-5 to 50 <sup>(3)</sup>				
	Ambient temperature (°C)	-5 to 50				
Standard performance	Outlet air atmospheric pressure dew point (°C)	-40				
Standard performance conditions	Inlet air flow rate (ℓ/min (ANR)) <sup>(4)</sup>	100	150	227	320	400
	Outlet air flow rate (ℓ/min (ANR))	75	110	170	240	300
	Purge air flow rate (ℓ/min (ANR)) <sup>(5)</sup>	25	40	57	80	100
	Inlet air flow 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 the case of Inlet air pressure 0.7 MPa}				
Regulator construction (Type V only)		Relief type				
Port size (Nominal size B)		1/4, 3/8			3/8, 1/2	
Weight (kg) (With auto-drain)	Type M	2.23 (2.33)	2.26 (2.36)	2.99 (3.09)	3.14 (3.24)	3.29 (3.39)
	Type V	3.34 (3.45)	3.37 (3.48)	4.10 (4.20)	4.25 (4.35)	4.40 (4.50)

Note 1) For flow characteristics and pressure characteristics of regulator, refer to page 14-4-37.

Note 2) It will come with Option E (With square-shaped, embedded type of a pressure regulator). For details on regulators, refer to pages 14-4-35 to 14-4-40.

Note 3) No freezing

Note 4) ANR indicates the flow rate converted to the value at 20°C under the atmospheric pressure and the state of relative humidity 65%.

Note 5) Includes 1 ℓ/min (ANR) of purge air flow (at 0.7 MPa inlet air pressure) for the dew point indicator.

Note 6) When highly purified air is required, refer to "Caution on Design" on page 14-19-7.



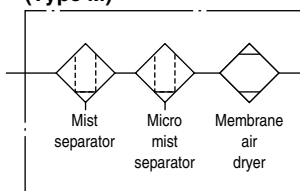
IDG30LV



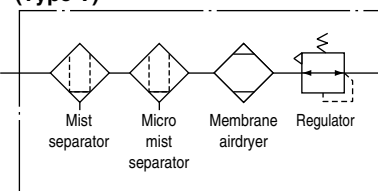
IDG60LV

IDG60LM

JIS Symbol  
(Type M)



(Type V)



Auto-drain, Pressure Gauge Part No.

Description		Applicable model				
		IDG30LM IDG30LV	IDG50LM IDG50LV	IDG60LM IDG60LV	IDG75LM IDG75LV	IDG100LM IDG100LV
Float type auto-drain	N.C.	AD47				
	N.O.	AD48				
Pressure gauge		GC30-10				

Replacement Parts (Mist separator, Element for micro mist separator)

Description	Model	AFM40	AFD40
Element assembly		630623	63094

Refer to pages 14-19-28 to 14-19-29 for the replacement parts of a membrane air dryer.

● For flow characteristics, refer to pages 14-19-37 to 14-19-38 for external dimensions, refer to pages 14-19-41, 43, 45, and 47.

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Misc.

# Series IDG

## Standard Specifications/Unit (Type M, Type V) [Standard dew point: -60°C]

Model		Standard dew point: -60°C		
		IDG60SM IDG60SV	IDG75SM IDG75SV	IDG100SM IDG100SV
Component equipment	Mist separator	AFM40		
	Micro mist separator	AFD40		
	Regulator (Type V only) <sup>(1)</sup>	AR40 <sup>(2)</sup>		
Range of operating conditions	Fluid	Compressed air		
	Inlet air pressure (MPa)	0.3 to 1.0		
	Inlet air temperature (°C)	-5 to 50 <sup>(3)</sup>		
	Ambient temperature (°C)	-5 to 50		
Standard performance	Outlet air atmospheric pressure dew point (°C)	-60		
Standard performance conditions	Inlet air flow rate (ℓ/min (ANR)) <sup>(4)</sup>	77	154	235
	Outlet air flow rate (ℓ/min (ANR))	50	100	150
	Purge air flow rate (ℓ/min (ANR)) <sup>(5)</sup>	27	54	85
	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 the case of Inlet air pressure 0.7 MPa}		
Regulator construction (Type V only)		Relief type		
Port size (Nominal size B)		3/8, 1/2		
Weight (kg) (With auto-drain)	Type M	2.99 (3.09)	3.14 (3.24)	3.29 (3.39)
	Type V	4.10 (4.20)	4.25 (4.35)	4.40 (4.50)

Note 1) For flow characteristics and pressure characteristics of regulator, refer to page 14-4-37.

Note 2) It will come with Option E (With square-shaped, embedded type of a pressure regulator). For details on regulators, refer to pages 14-4-35 to 14-4-40.

Note 3) No freezing.

Note 4) ANR indicates the flow rate converted to the value at 20°C under the atmospheric pressure and the state of relative humidity 65%.

Note 5) Includes 1 ℓ/min (ANR) of purge air flow (at 0.7 MPa inlet air pressure) for the dew point indicator.

Note 6) When highly purified air is required, refer to "Caution on Design" on page 14-19-7.

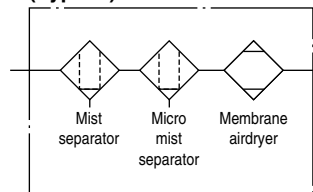


IDG60SV

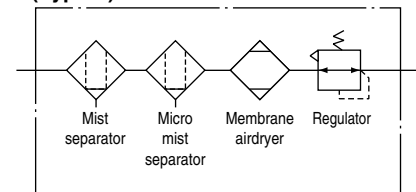


IDG60SM

### JIS Symbol (Type M)



### (Type V)



### Auto-drain, Pressure Gauge Part No.

Description		Applicable model		
		IDG60SM IDG60SV	IDG75SM IDG75SV	IDG100SM IDG100SV
Float type auto-drain	N.C.	AD47		
	N.O.	AD48		
Pressure gauge		GC30-10		

### Replacement Parts (Mist separator, Element for micro mist separator)

Description		Model	
		AFM40	AFD40
Element assembly		630623	63094

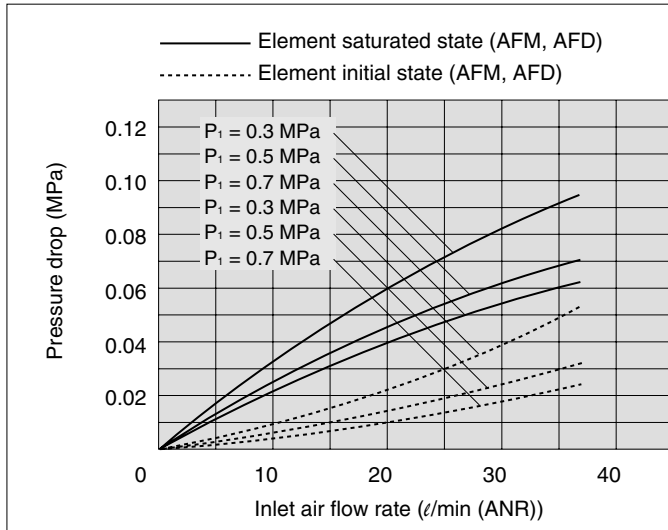
Refer to pages 14-19-28 to 29 for the replacement parts of a membrane air dryer.

## Flow Characteristics

Conditions: Inlet air temperature 25°C, P<sub>1</sub>: Inlet air pressure

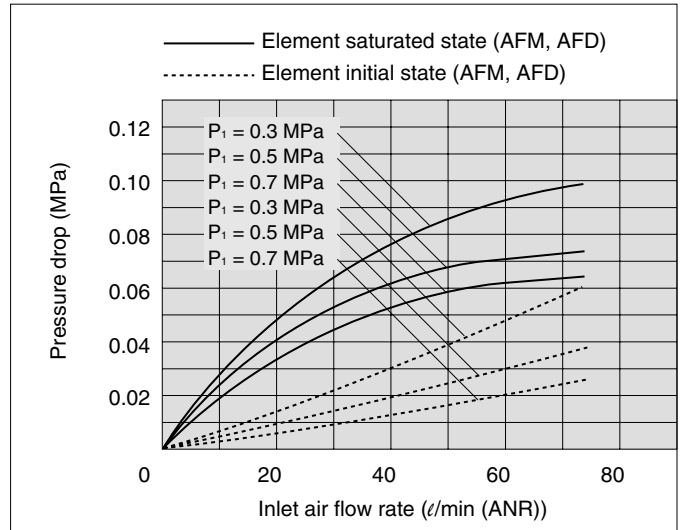
**IDG3M/3V** (Standard dew point: -20°C)

**IDG3HM/3HV** (Standard dew point: -15°C)



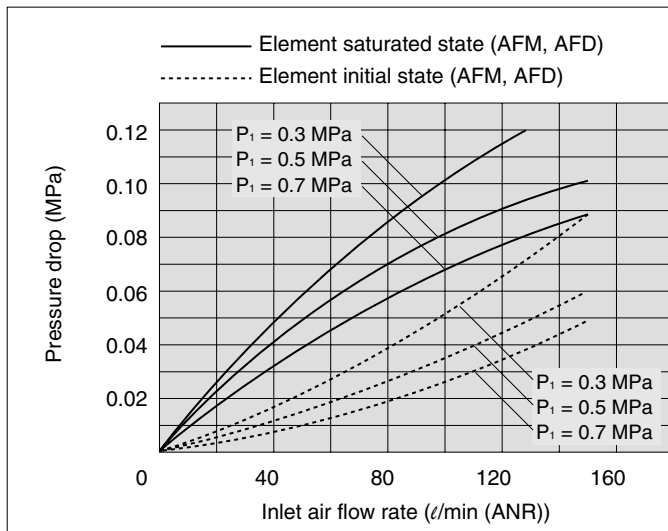
**IDG5M/5V** (Standard dew point: -20°C)

**IDG5HM/5HV** (Standard dew point: -15°C)



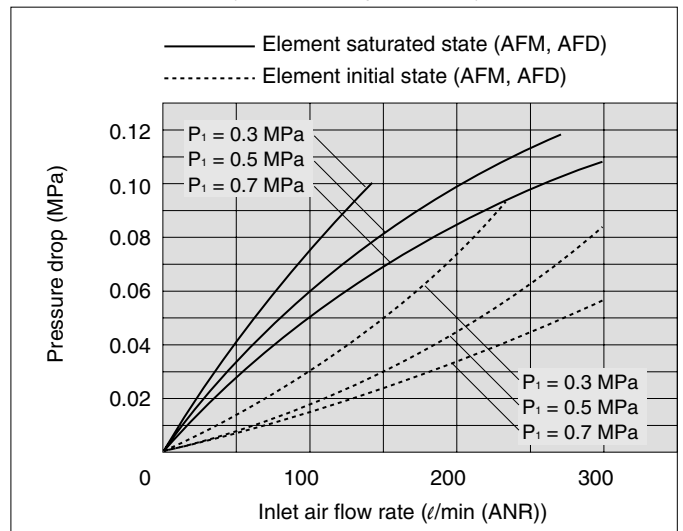
**IDG10M/10V** (Standard dew point: -20°C)

**IDG10HM/10HV** (Standard dew point: -15°C)



**IDG20M/20V** (Standard dew point: -20°C)

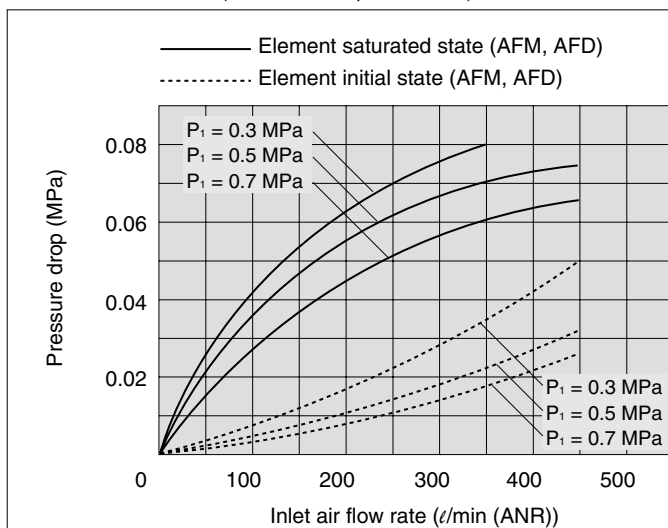
**IDG20HM/20HV** (Standard dew point: -15°C)



**IDG30M/30V** (Standard dew point: -20°C)

**IDG30HM/30HV** (Standard dew point: -15°C)

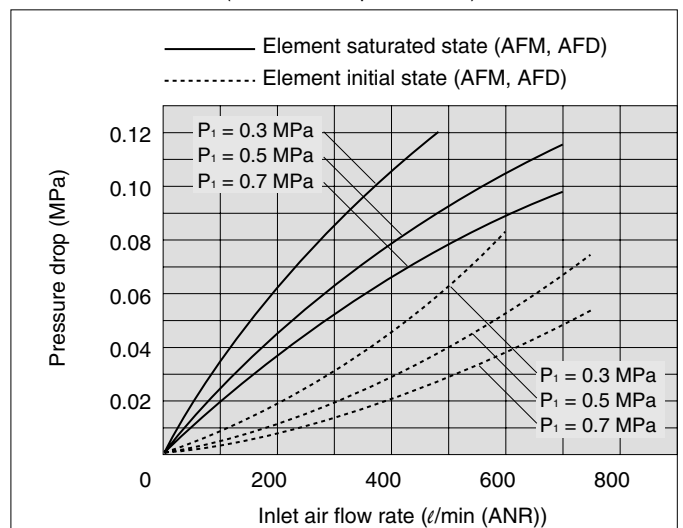
**IDG30LM/30LV** (Standard dew point: -40°C)



**IDG50M/50V** (Standard dew point: -20°C)

**IDG50HM/50HV** (Standard dew point: -15°C)

**IDG50LM/50LV** (Standard dew point: -40°C)



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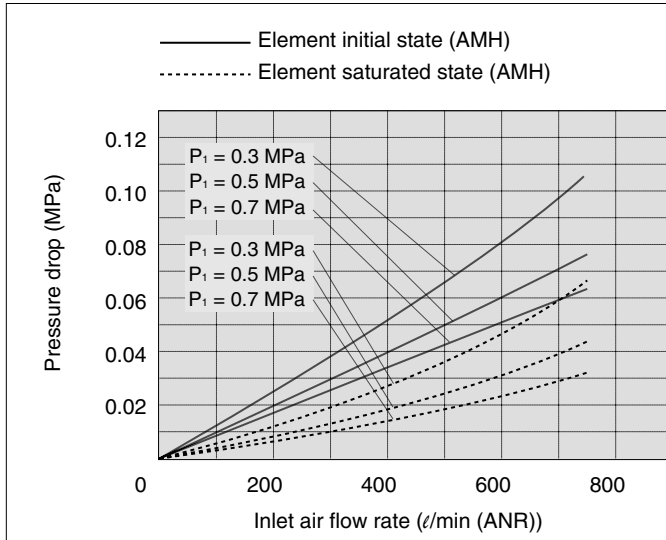


## Flow Characteristics

Conditions: Inlet air temperature 25°C, P1: Inlet air pressure

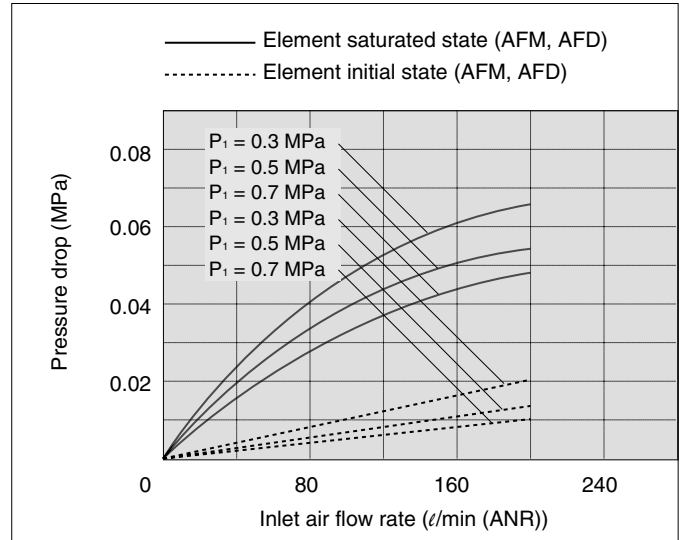
**IDG60M/60V** (Standard dew point: -20°C)

**IDG60HM/60HV** (Standard dew point: -15°C)



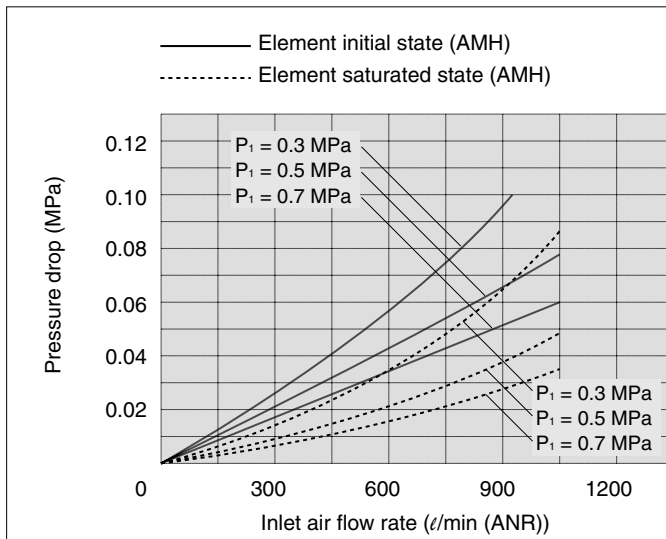
**IDG60LM/60LV** (Standard dew point: -40°C)

**IDG60SM/60SV** (Standard dew point: -60°C)



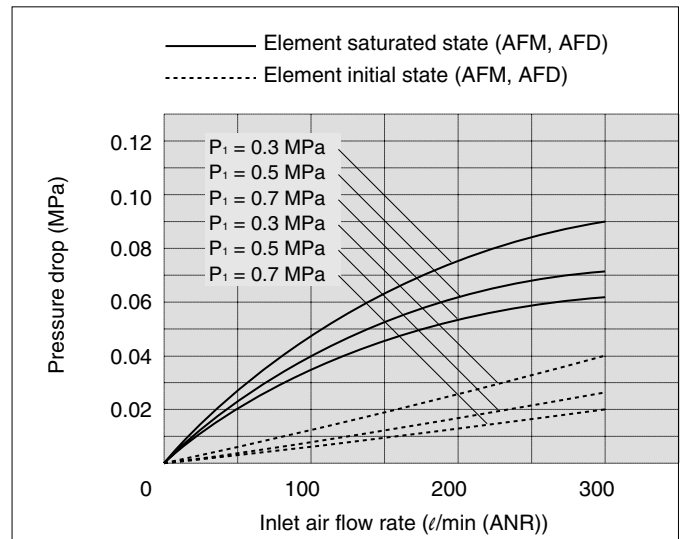
**IDG75M/75V** (Standard dew point: -20°C)

**IDG75HM/75HV** (Standard dew point: -15°C)



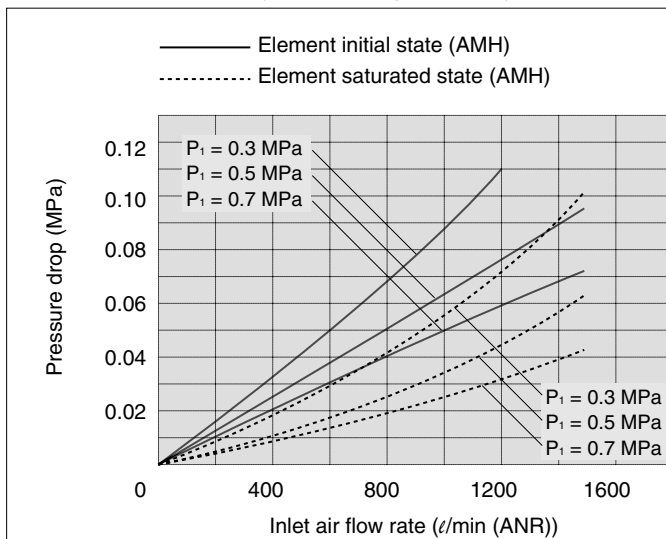
**IDG75LM/75LV** (Standard dew point: -40°C)

**IDG75SM/75SV** (Standard dew point: -60°C)



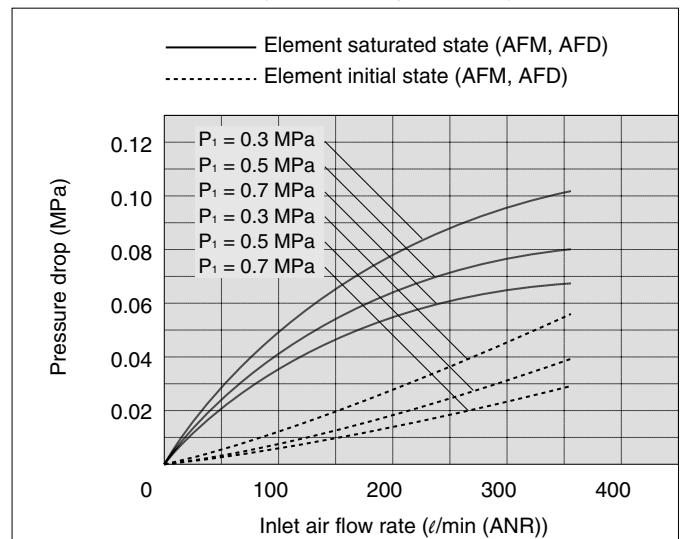
**IDG100M/100V** (Standard dew point: -20°C)

**IDG100HM/100HV** (Standard dew point: -15°C)



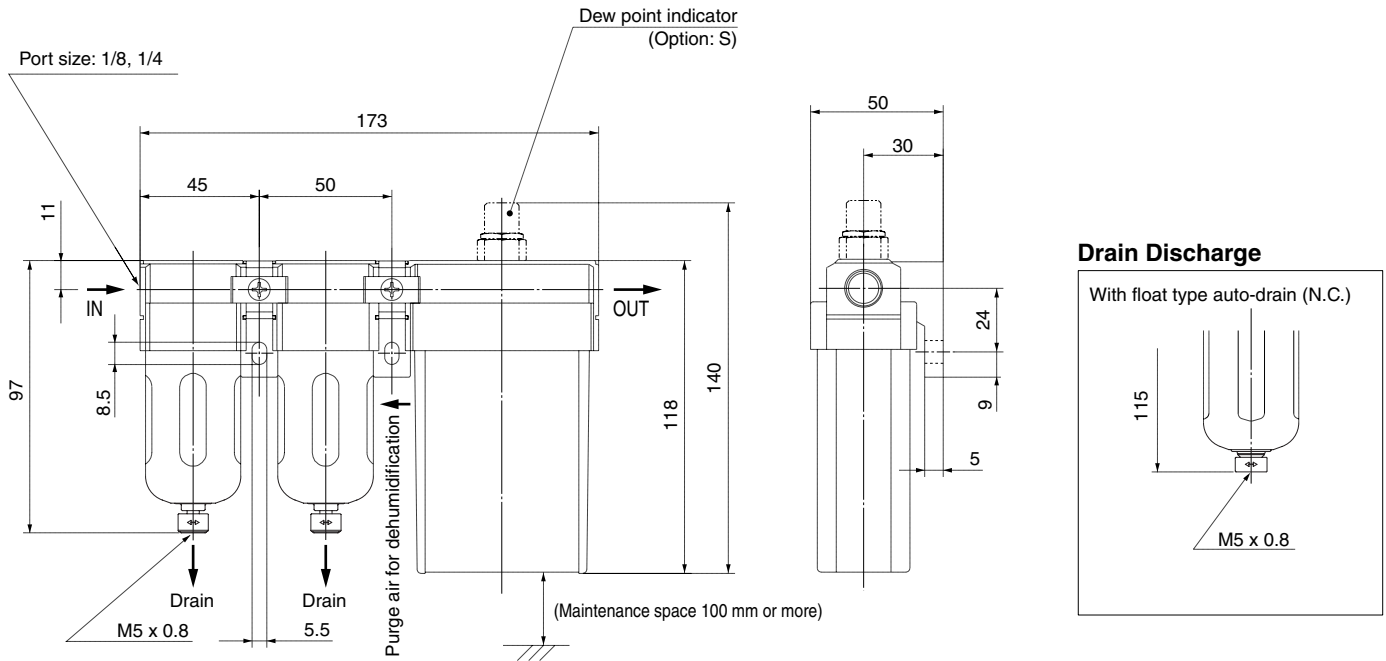
**IDG100LM/100LV** (Standard dew point: -40°C)

**IDG100SM/100SV** (Standard dew point: -60°C)

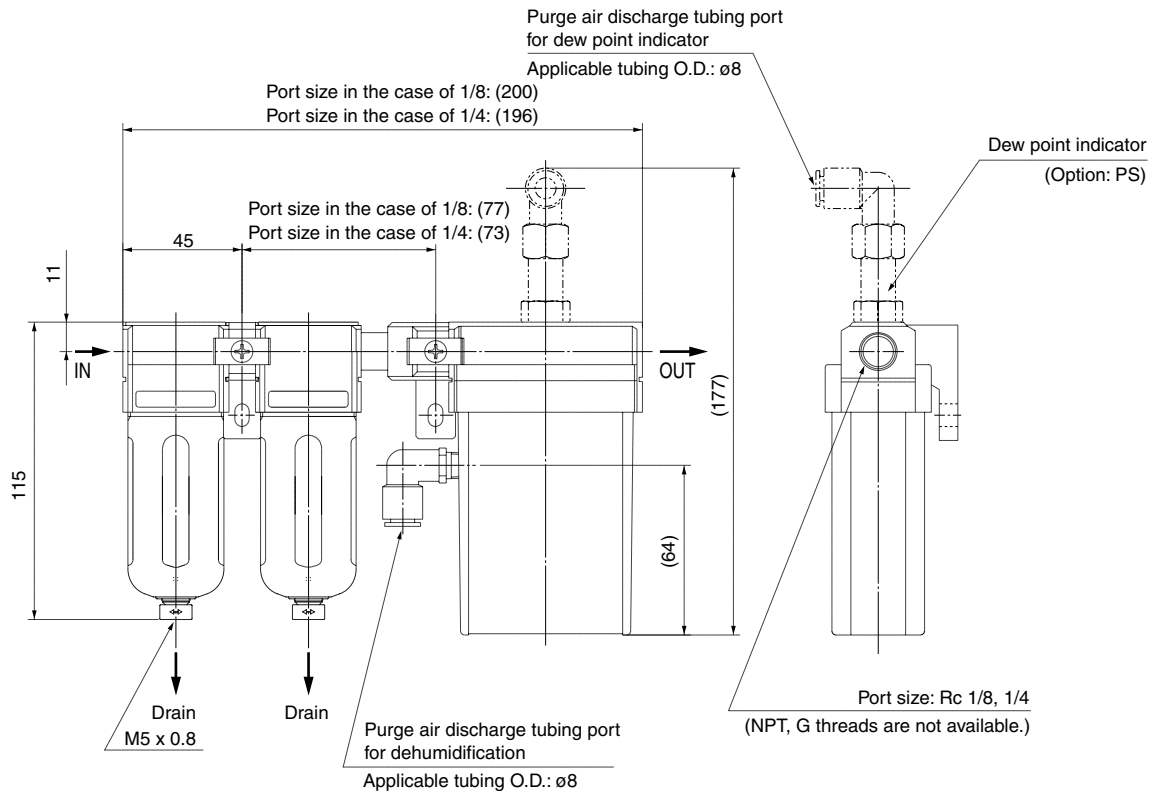


**Dimensions (Type M)**

**IDG3M/5M**  
**IDG3HM/5HM**



**With fittings for purge air discharge (Option: P)**



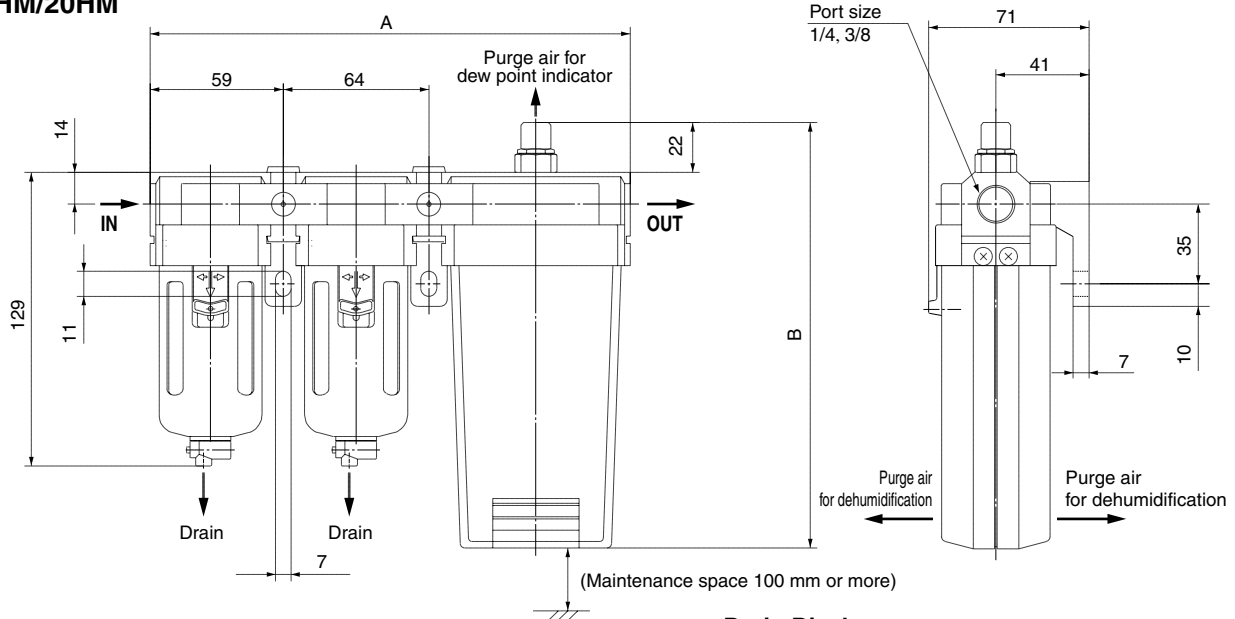
- HA
- AT
- ID**
- AMG
- AFF
- AM
- Misc.



# Series IDG

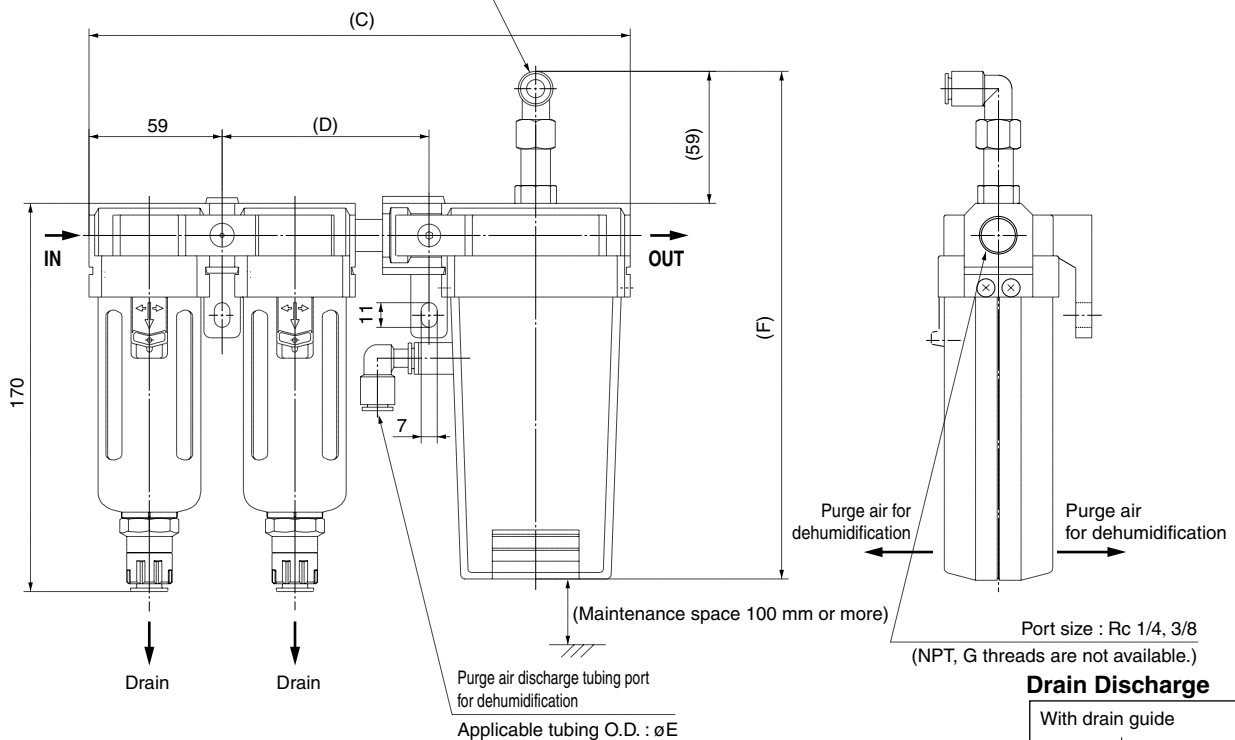
## Dimensions (Type M)

IDG10M/20M  
IDG10HM/20HM



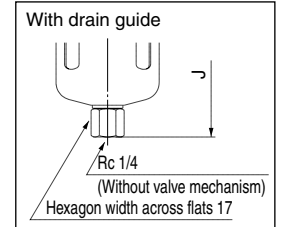
### With fitting for purge air discharge (Option: P)

Purge air discharge tubing port  
for dew point indicator  
Applicable tubing O.D.:  $\phi 8$

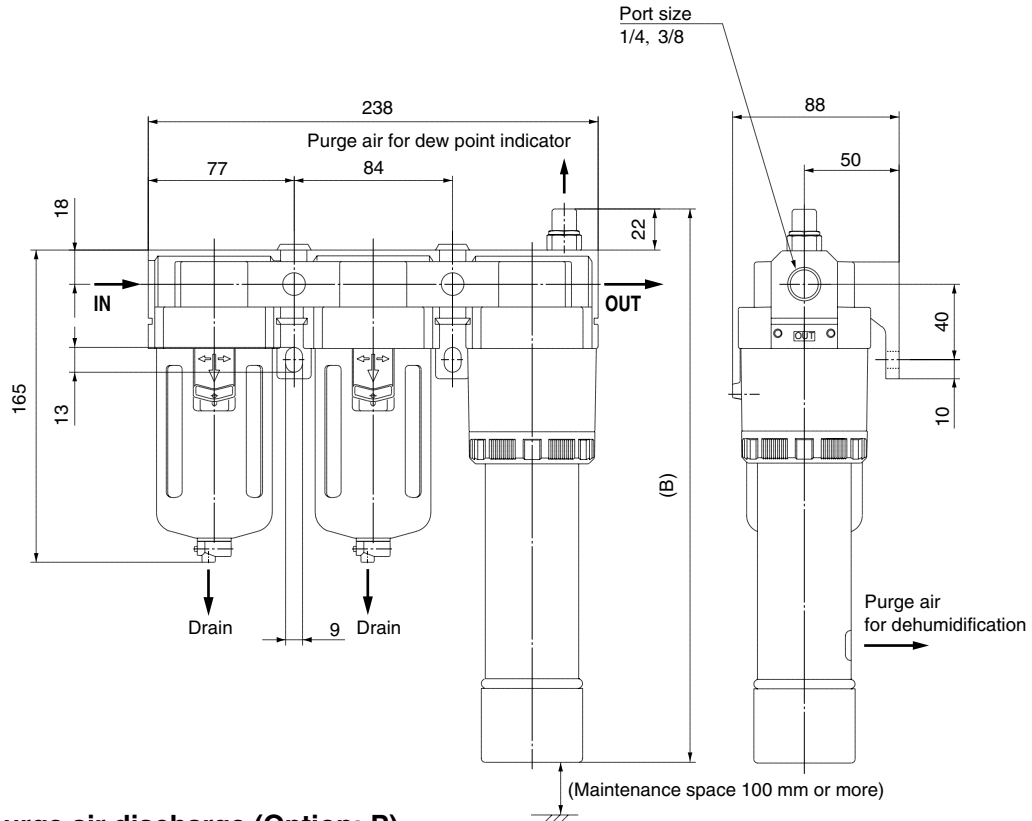


Model	A	B	Option: P				With float type auto-drain	With drain guide
			C	D	E	F		
IDG10M/10HM	211	187	236	238	8	224	170	135
IDG20M/20HM	241	212	266	268	10	249		

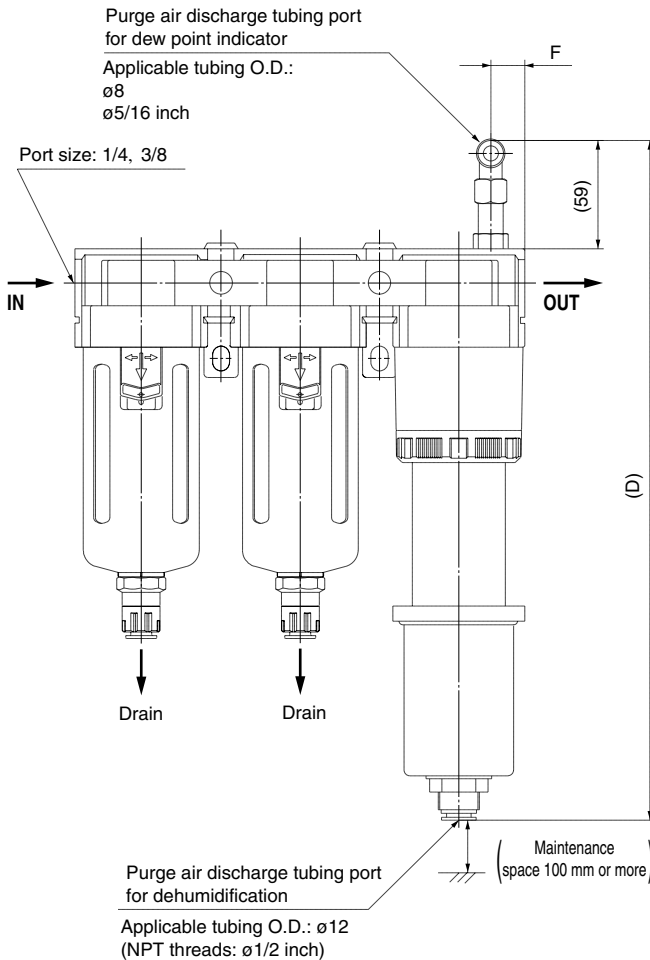
### Drain Discharge



**IDG30M/50M**  
**IDG30HM/50HM**  
**IDG30LM/50LM**

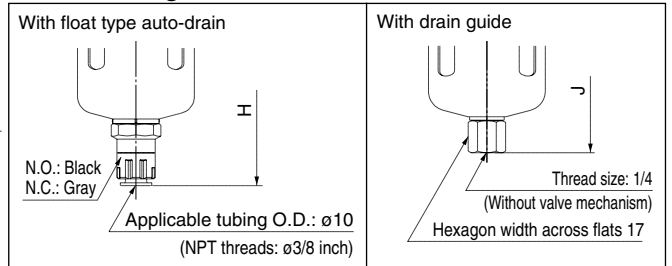


**With fitting for purge air discharge (Option: P)**



Model	B	Option: P		With float type auto-drain	With drain guide
		D	F	H	J
IDG30M/30HM/30LM	293	361	18	206	171
IDG50M/50HM/50LM	337	405			

**Drain Discharge**



HA

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AMG

AFF

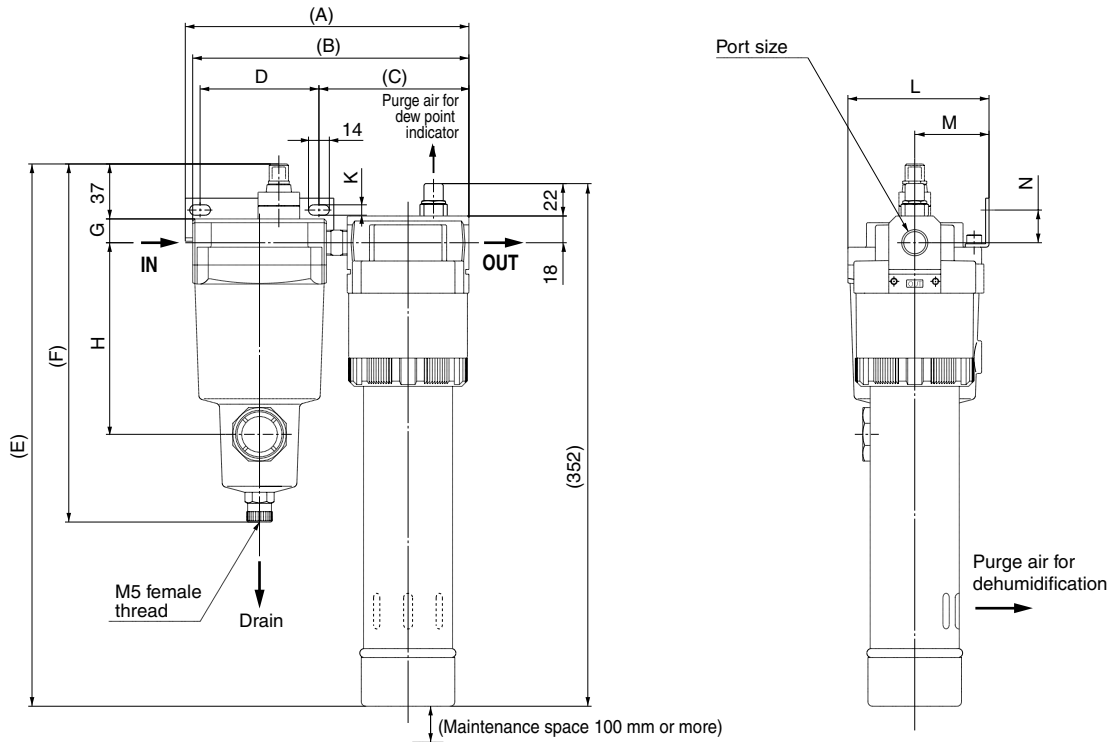
AM

Misc.

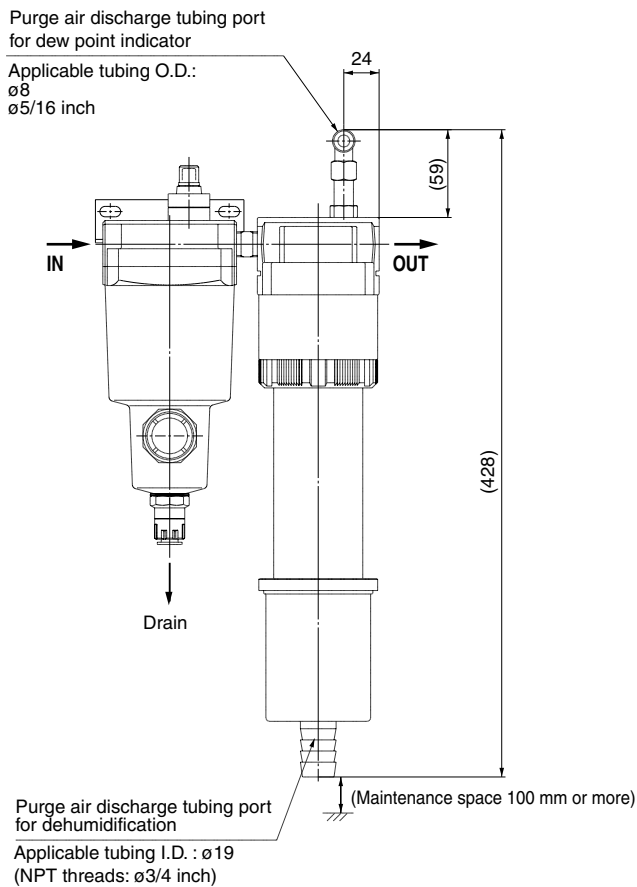
# Series IDG

## Dimensions (Type M)

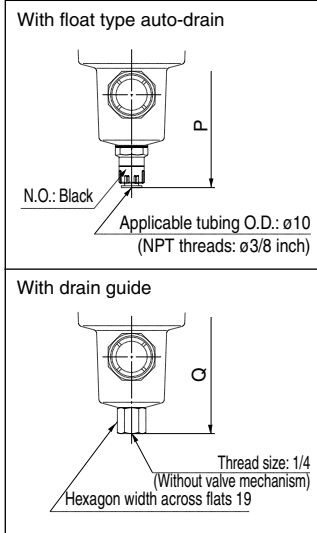
IDG60M/75M/100M  
IDG60HM/75HM/100HM



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

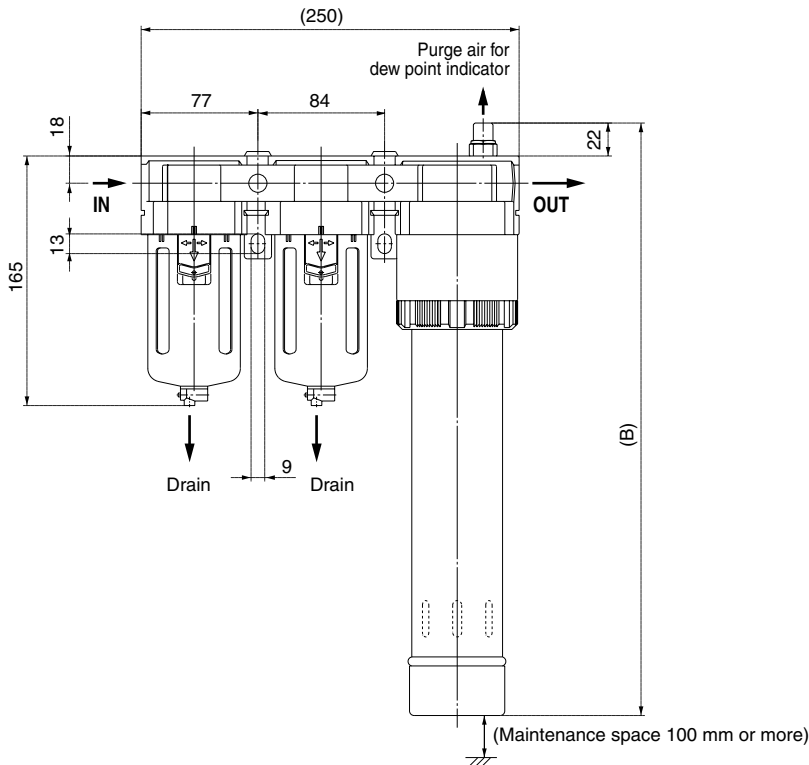


### Drain Discharge

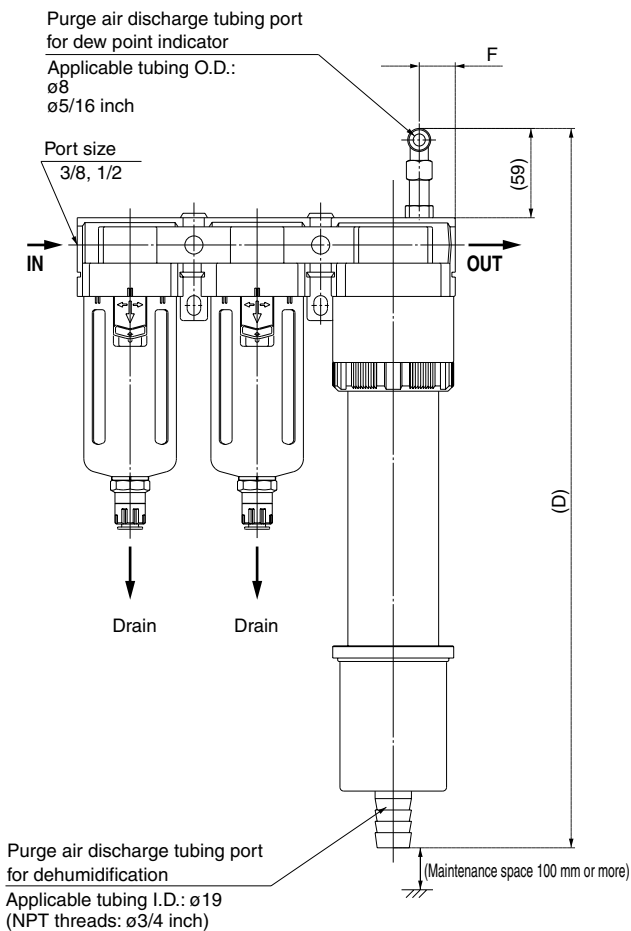


Model	Port size	A	B	C	D	E	F	G	H	K	L	M	N	With float type auto-drain	With drain guide
														P	Q
IDG60M/60HM	3/8, 1/2	191	186	101	80	365	241	16	129	7	95	50	22	255	241
IDG75M/75HM/100M/100HM	1/2	204	202	104	90	368	262	19	147	9	108	55	25	276	262

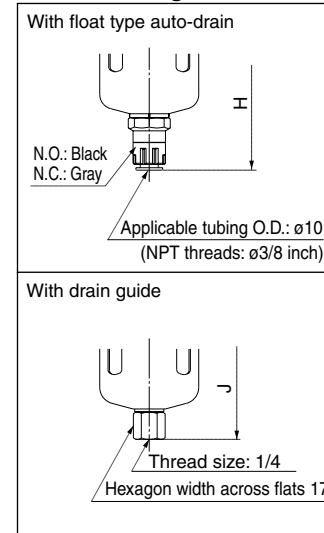
**IDG60LM/75LM/100LM**  
**IDG60SM/75SM/100SM**



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



**Drain Discharge**



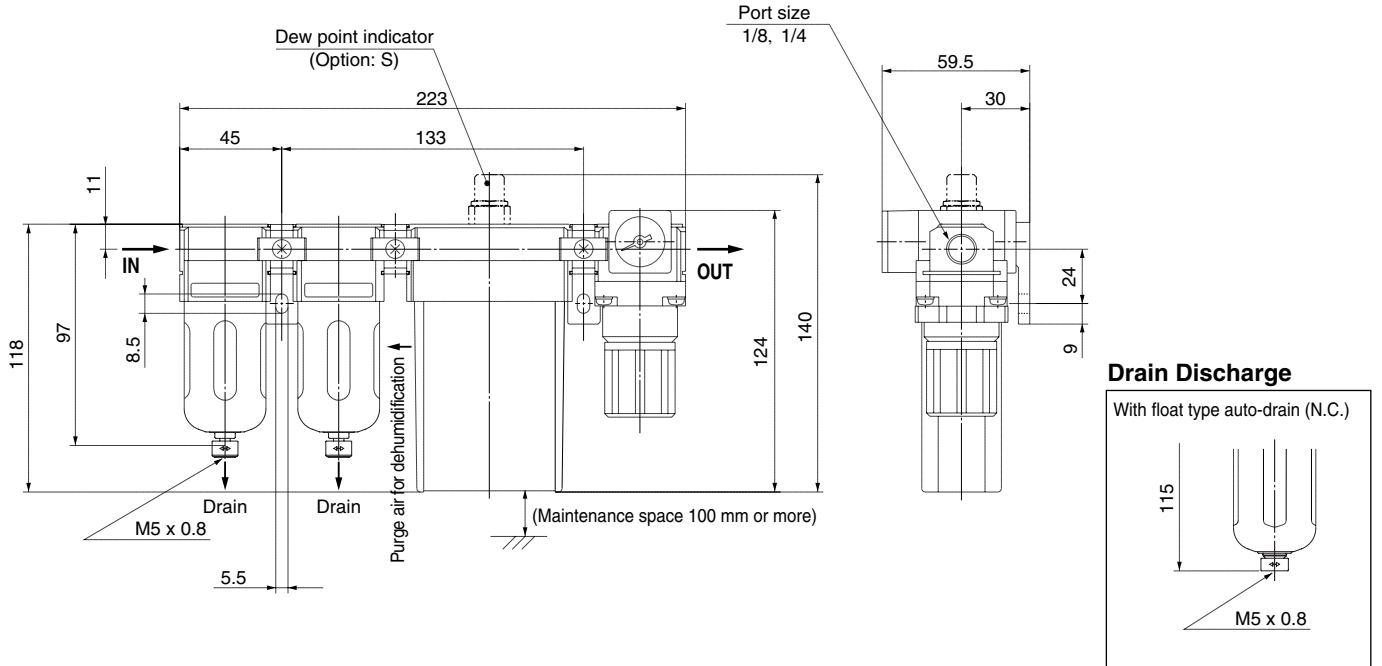
- HA
- AT
- ID
- AMG
- AFF
- AM
- Misc.

Model	B	Option: P		With float type auto-drain	With drain guide
		D	F		
<b>IDG60LM/60SM</b>	392	468	24	206	171
<b>IDG75LM/75SM</b>	472	548			
<b>IDG100LM/100SM</b>	542	618			

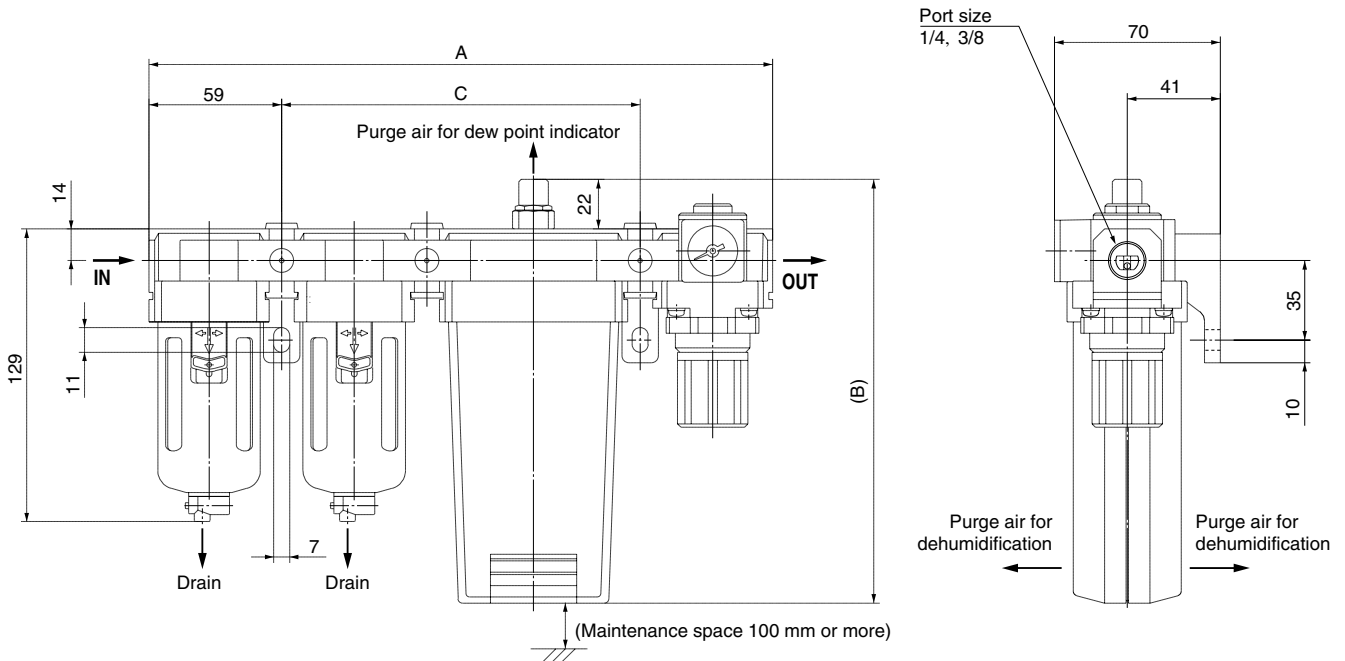
# Series IDG

## Dimensions (Type V)

IDG3V/5V  
IDG3HV/5HV

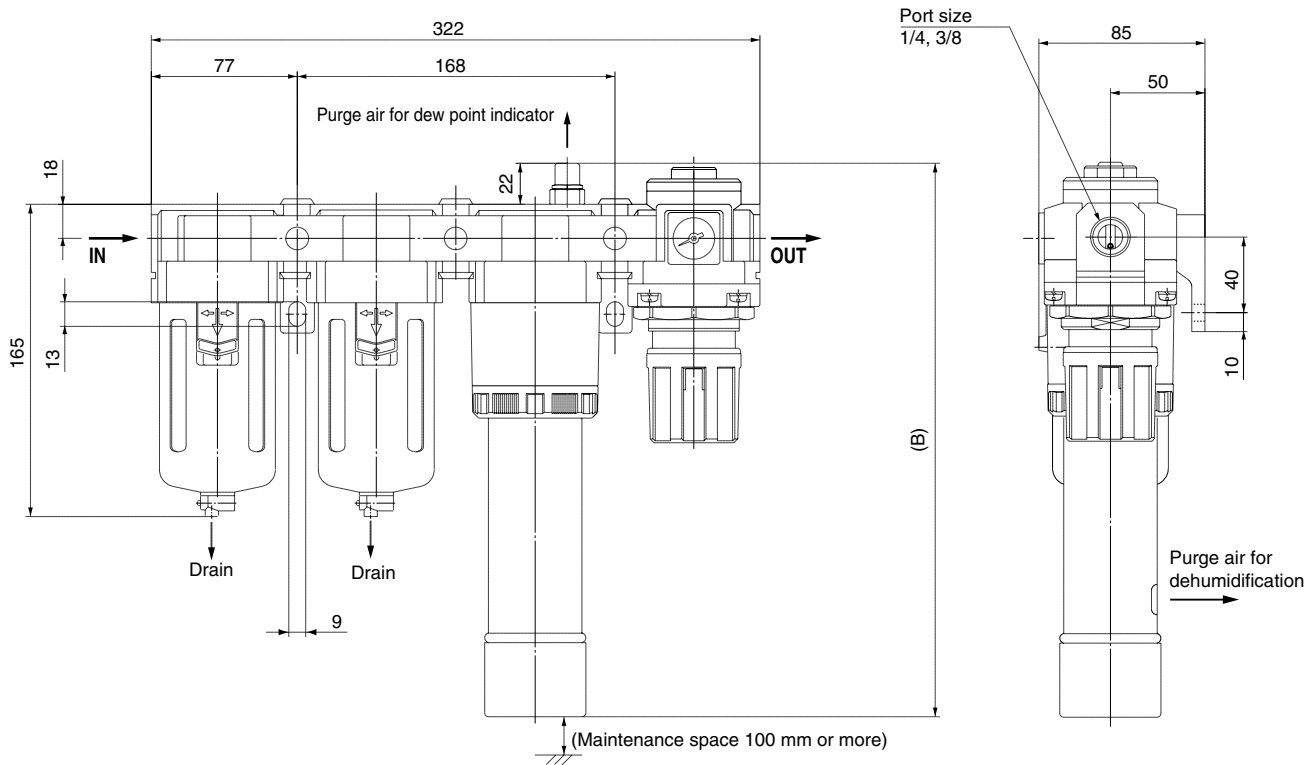


IDG10V/20V  
IDG10HV/20HV



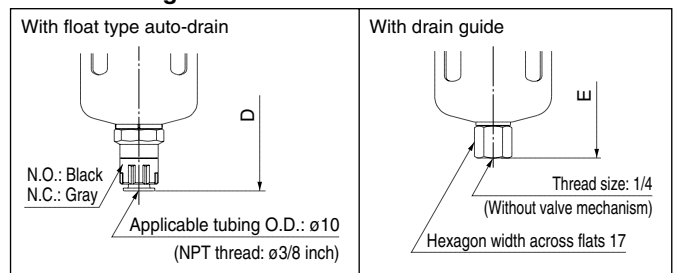
Model	A	B	C	With float type auto-drain	With drain guide
				D	E
IDG10V/10HV	275	187	158	170	135
IDG20V/20HV	305	212	188		

**IDG30V/50V**  
**IDG30HV/50HV**  
**IDG30LV/50LV**



Model	B	With float type auto-drain	With drain guide
		D	E
<b>IDG30V/30HV/30LV</b>	293	206	171
<b>IDG50V/50HV/50LV</b>	337		

**Drain Discharge**



HA

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ID

AMG

AFF

AM

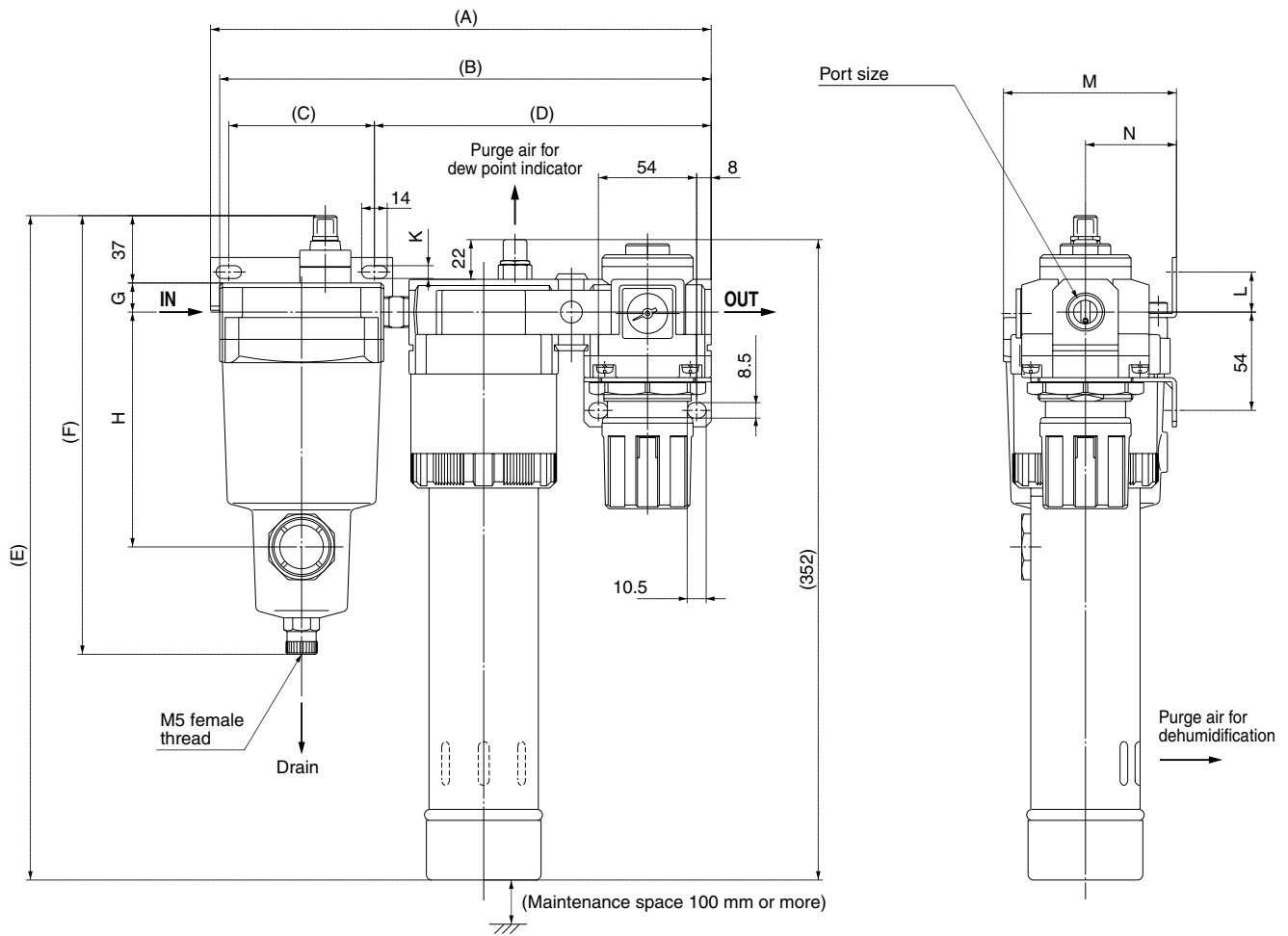
Misc.



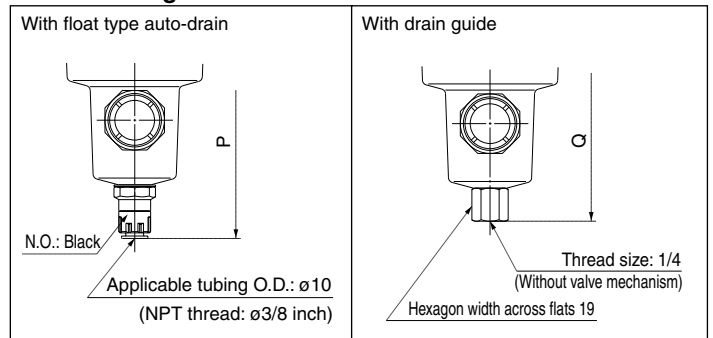
# Series IDG

## Dimensions (Type V)

IDG60V/75V/100V  
IDG60HV/75HV/100HV

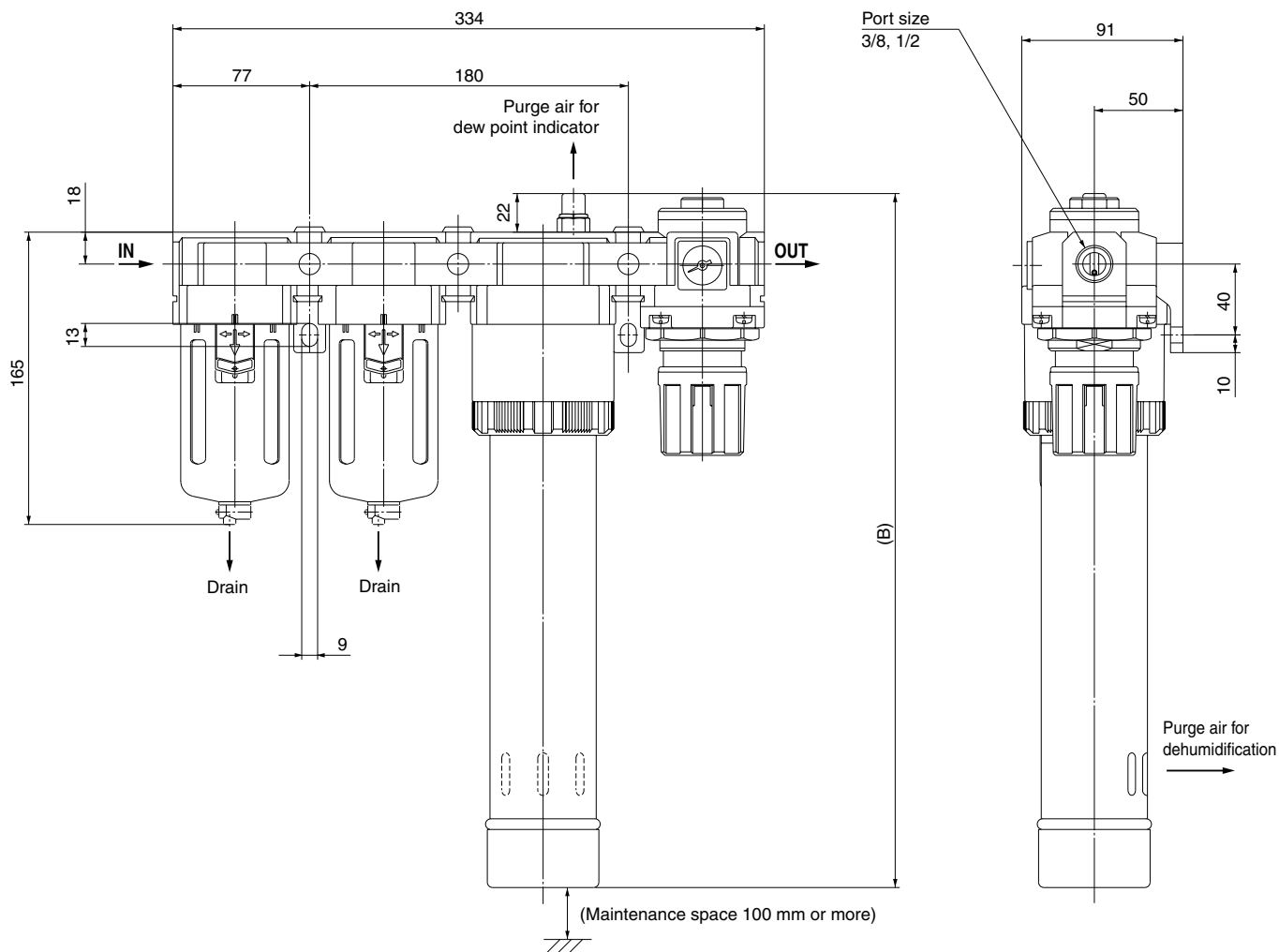


### Drain Discharge

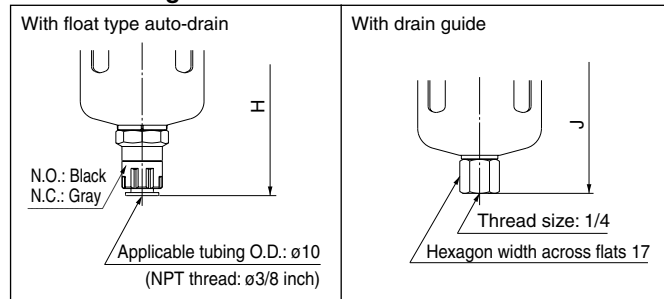


Model	Port size	A	B	C	D	E	F	G	H	K	L	M	N	With float type auto-drain	With drain guide
														P	Q
IDG60V/60HV	3/8, 1/2	275	270	80	185	365	241	16	129	7	22	95	50	255	241
IDG75V/75HV/100V/100HV	1/2	288	286	90	188	368	262	19	147	9	25	108	55	276	262

**IDG60LV/75LV/100LV**  
**IDG60SV/75SV/100SV**



**Drain Discharge**



- HA
- AT
- ID
- AMG
- AFF
- AM
- Misc.

Model	B	With float type auto-drain	With drain guide
		H	J
IDG60LV/60SV	392	206	171
IDG75LV/75SV	472		
IDG100LV/100SV	542		

# Made to Order Specifications:

Please contact SMC for further details about dimensions, specifications, and delivery.

## 1 Element Service Indicator

An element service indicator is mounted on the micro mist separator with prefilter (Series AMH) to allow visual management of the element's clogging life. In addition, combination with a micro mist separator with prefilter also provides a spatially compact design.

### Applicable Model

Applicable model	<b>IDG3M to IDG50M</b> (Standard dew point: $-20^{\circ}\text{C}$ ) <b>IDG3HM to IDG50HM</b> (Standard dew point: $-15^{\circ}\text{C}$ ) <b>IDG30LM to IDG50LM</b> (Standard dew point: $-40^{\circ}\text{C}$ )
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### How to Order

\* Refer to "How to Order" for standard specifications on page 14-19-32.

**IDG 10 M 03 X016**

**Size**

3
5
10
20
30
50

Standard dew point \*

**Option**

Symbol	Contents	Size					
		3	5	10	20	30	50
Nil	Standard	●	●	●	●	●	●
R	Flow direction (Right → Left)	●	●	●	●	●	●
S	With dew point indicator	●	●	Standard equipment			

**Drain discharge symbol**

Drain discharge		Size					
		3	5	10	20	30	50
Nil	Manual valve	●	●	●	●	●	●
C	N.C. auto-drain	●	●	●	●	●	●
D	N.O. auto-drain	●	●	●	●	●	●
J	Drain guide (Aperture 1/4, without valve)	●	●	●	●	●	●

**Port size \***  
Note) IDG50M and 50HM are 03 only.

**Thread type \***

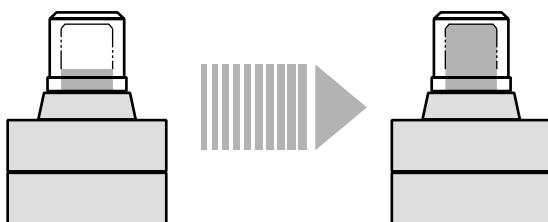
**Component equipment**

Micro mist separator with prefilter								
Membrane air dryer								

Component equipment	Size and standard dew point							
	3/3H	5/5H	10/10H	20/20H	30/30H	30L	50/50H	50L
Micro mist separator with prefilter	AMH150		AMH250		AMH150	AMH350	AMH150	

## Clogging Indication



When the differential air is 0.05 MPa or less  
(The tip of the indicator is just visible.)

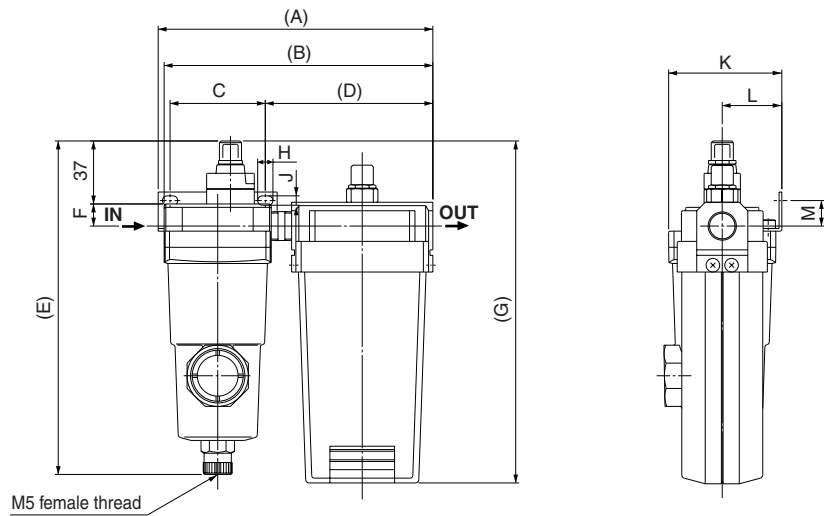
When the differential air is 0.1 MPa or more  
(The indicator is completely up to the top.)

Replace the element when the element service indicator's red indication reaches completely to the top. The top of the indication window shows differential pressure of approximately 0.1 MPa. Replace the element after two years of use, even if the element service indicator's red indication does not reach the top.

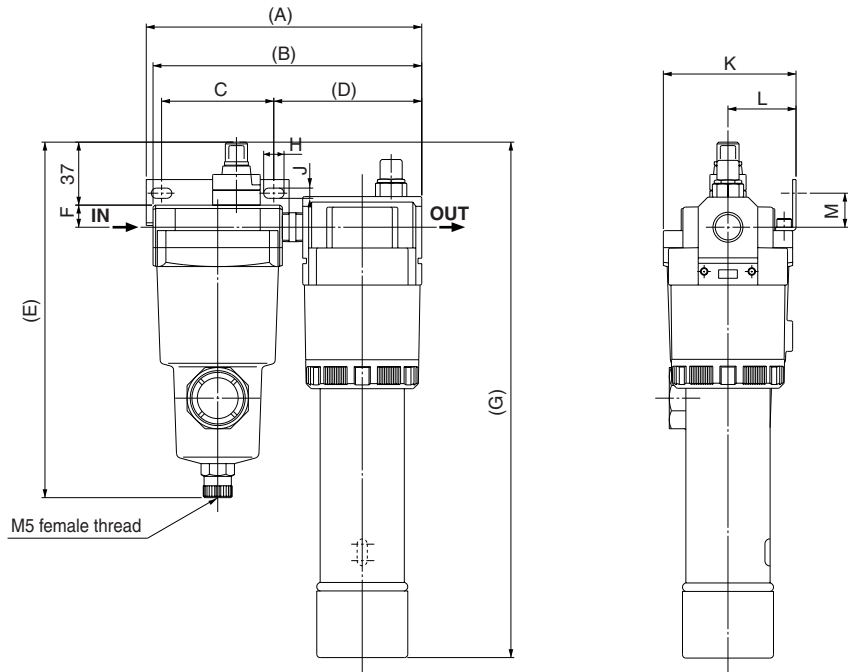
The element service indicator is shipped mounted to the micro mist separator with prefilter, and cannot be retrofitted or used with the single style.

**Dimensions/With Element Service Indicator**

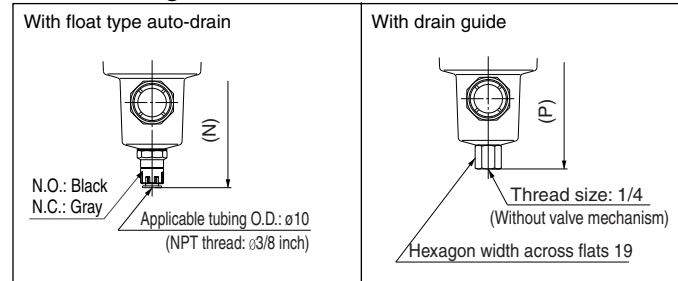
**IDG3M/5M/10M/20M**  
**IDG3HM/5HM/10HM/20HM**



**IDG30M/50M**  
**IDG30HM/50HM**  
**IDG30LM/50LM**



**Drain Discharge**



Model	Port size	A	B	C	D	E	F	G	H	J	K	L	M	With float type auto-drain	With drain guide
														N	P
<b>IDG3M/3HM/5M/5HM</b>	1/8, 1/4	150	146	56	87	196	13	157	9	5.5	66.5	35	15	210	196
<b>IDG10M/10HM</b>		162	158		99			201							
<b>IDG20M/20HM</b>	1/4, 3/8	205	201	66	130	209	303	226	12	6	78	40	20	223	209
<b>IDG30M/30HM</b>		162	158		87			226							
<b>IDG30LM</b>			149	145	56			86	196	9	5.5	70	35	15	210
<b>IDG50M/50HM</b>	3/8	177	172	80	87	241	16	350	14	7	95	50	22	255	241
<b>IDG50LM</b>	1/4, 3/8	149	145	56	86	196	13	347	9	5.5	70	35	15	210	196

- HA
- AT
- ID
- AMG
- AFF
- AM
- Misc.

# Made to Order Specifications:

Please contact SMC for further details about dimensions, specifications, and delivery.

## 2 With Micro Mist Separator Regulator (Series AWD)

This can be used when very clean air is required (supply for air bearings, semiconductor parts blow, etc.). Type V regulator (AR) is modified to produce the micro mist separator regulator (AWD).

### Specifications

Filtration of outlet air	0.01 μm (95% filtered particle diameter)
Outlet air oil mist concentration	Max. 0.1 mg/m <sup>3</sup> (ANR) (0.08 ppm) <sup>Note</sup> (Prior to oil saturated 0.01 mg/m <sup>3</sup> (ANR) or less, (0.008 ppm or less))

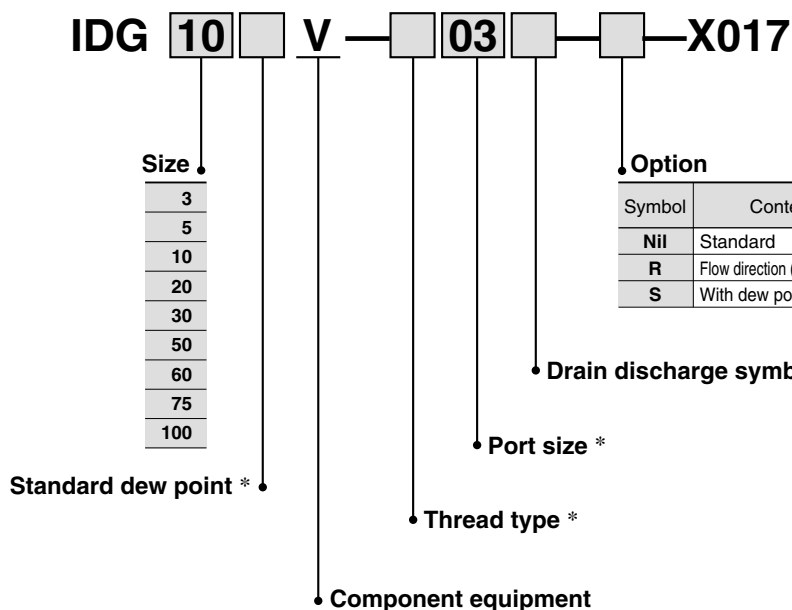
Note) With inlet air oil mist concentration of 30 mg/m<sup>3</sup> (ANR) (24 ppm)

### Applicable Model

Applicable model	<b>IDG3V to IDG50V</b> (Standard dew point: -20°C) <b>IDG3HV to IDG50HV</b> (Standard dew point: -15°C) <b>IDG30LV to IDG100LV</b> (Standard dew point: -40°C) <b>IDG60SV to IDG100SV</b> (Standard dew point: -60°C)
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### How to Order

\* Refer to "How to Order" for standard specifications on page 14-19-32.



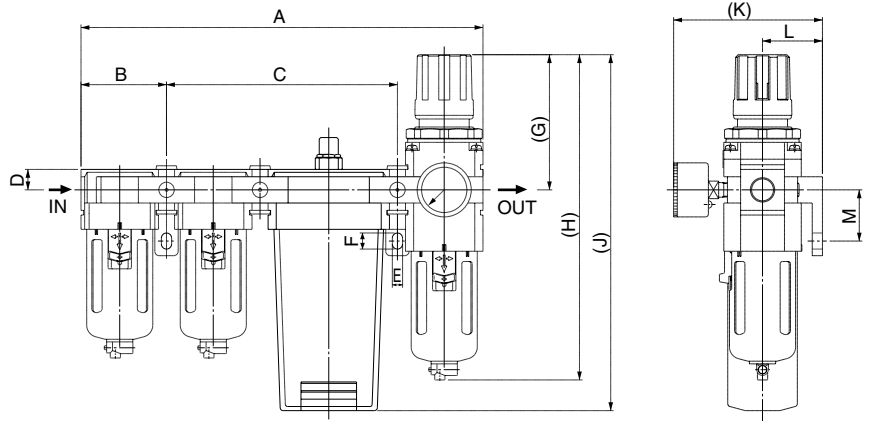
Symbol	Contents	Size								
		3	5	10	20	30	50	60	75	100
Nil	Standard	●	●	●	●	●	●	●	●	●
R	Flow direction (Right → Left)	●	●	●	●	●	●	●	●	●
S	With dew point indicator	●	●	Standard equipment						

Component equipment	Size								
	3	5	10	20	30	50	60 <sup>Note)</sup>	75 <sup>Note)</sup>	100 <sup>Note)</sup>
Mist separator	AFM20		AFM30		AFM40				
Micro mist separator	AFD20		AFD30		AFD40				
Micro mist separator regulator	AWD20		AWD30		AWD40				

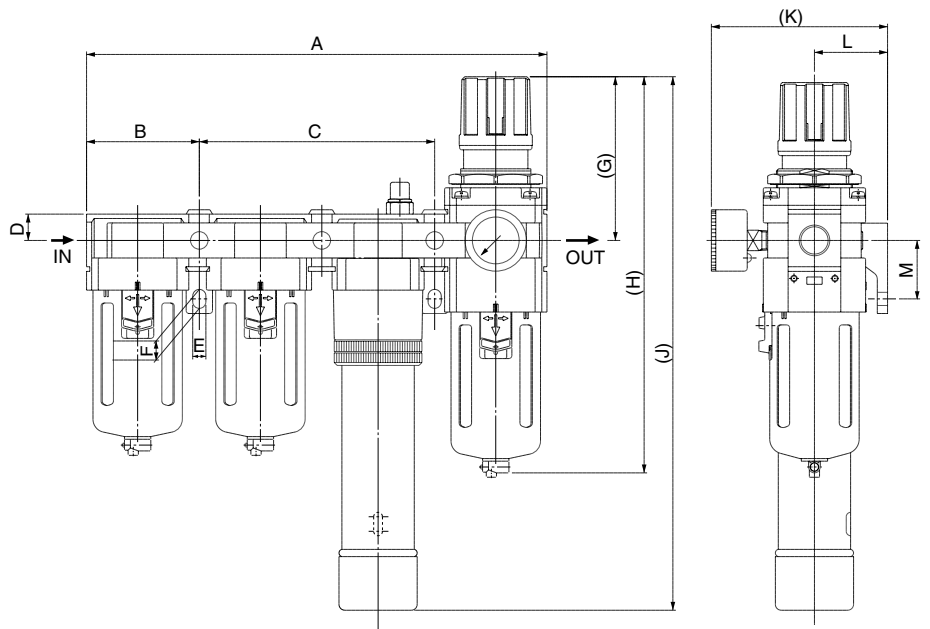
Note) Standard dew point symbols L (-40°C) and S (-60°C) only

**Dimensions/With Micro Mist Separator Regulator**

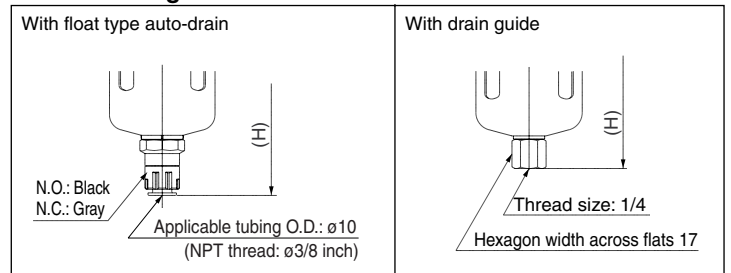
IDG3V/5V/10V/20V  
IDG3HV/5HV/10HV/20HV



IDG30V/50V  
IDG30HV/50HV  
IDG30LV/50LV/60LV/75LV/100LV  
IDG60SV/75SV/100SV



**Drain Discharge**



- HA
- AT
- ID
- AMG
- AFF
- AM
- Misc.

Model	Port size	A	B	C	D	E	F	G	H	J	K	L	M	With float type auto-drain	With drain guide
														H	H
IDG3V/3HV/5V/5HV	1/8, 1/4	224	45	133	11	5.5	8.5	78	180	185	87	30	24	192	—
IDG10V/10HV	1/4, 3/8	275	59	158	14	7	11	92.5	201	244	102	41	35	242	208
IDG20V/20HV		269													
IDG30V/30HV		365													
IDG50V/50HV		409													
IDG60LV/60SV	3/8, 1/2	334	77	180	18	9	13	112	239	464	121	50	40	278	246
IDG75LV/75SV										544					
IDG100LV/100SV										614					