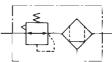
#### **Mist Separator Regulator**

## AWM20 to AWM40

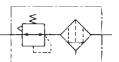
### Micro Mist Separator Regulator

## AWD20 to AWD40



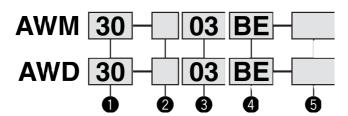


**Symbo** Micro Mist Separator Regulator



- The AWM series is made up of a regulator and a mist separator to provide optimum results in applications such as clean air blow operations. (Nominal filtration rating: 0.3 m)
- The AWD series is made up of a regulator and a micro mist separator to provide optimum results in applications such as ultraclean air blow operations. (Nominal filtration rating 0.01 m)

#### **How to Order**



- Option / Semi-standard: Select one each for a to i.
- Option / Semi-standard symbol: When more than one specification is required, indicate in ascending alphanumeric order.
   Example) AWM30-03BE-1N

			Description	0			
		Symbol			Body size		
					20	30	40
			Nil	Rc	•	•	•
	TI	nread type	N Note 1)	NPT	•	•	
			F Note 2)	G	•	•	•
			+				
3			01	1/8		_	
		Dort oizo	02	1/4	•	•	
'		Port size	03	3/8	_	•	•
			04	1/2	_	_	•
			+				
			Nil	Without mounting option	•	•	•
	а	Mounting	B Note 4)	With bracket	•	•	•
			Н	With set nut	•	•	•
			+				
			Nil	Without auto drain	•	•	•
Note 3	b	Float type	С	Float type auto drain (N.C.)	•	•	•
		auto drain	D	Float type auto drain (N.O.)	_	•	•
Option			+				
ō		Pressure gauge	Nil	Without pressure gauge	•	•	•
			Е	Square embedded type pressure gauge	•	•	•
			G	Round type pressure switch	•	•	•
	C		<b>E1</b> Note 5)	NPN output / Wiring bottom entry	•	•	•
			<b>E2</b> Note 5)	NPN output / Wiring top entry	•	•	•
			E3 Note 5)	PNP output / Wiring bottom entry	•	•	
			<b>E4</b> Note 5)		•	•	
	'		+	3 - 1			
		Set pressure	Nil	0.05 to 0.85 MPa set	•	•	•
	d		1 Note 6)	0.02 to 0.2 MPa set	•	•	•
			+				
		Bowl	Nil	Polycarbonate bowl	•	•	•
_			2	Metal bowl	•	•	•
larc			6	Nylon bowl	•	•	•
Semi-standard	е		8	Metal bowl with level gauge	_	•	•
i-st			С	With bowl guard	•	_	
em			6C	Nylon bowl with bowl guard	•	_	_
S		+					
			Nil	With drain cock	•	•	•
		f Drain port Note 7)		Drain guide 1/8	•	_	
	f		J Note 8)	Drain guide 1/4		•	
			W Note 9)	Drain cock with barb fitting: For ø6 x ø4 nylon tube	_		



# Mist Separator Regulator Series AWM20 to AWM40 Micro Mist Separator Regulator Series AWD20 to AWD40





#### AWM20 AWD20

AWM40. AWD40

						0		
				Symbol	Description	Body size		
						20	30	40
	Semi-standard	g	Exhaust	Nil	Relieving type	•	•	•
			mechanism	N	Non-relieving type	•	•	•
				+				
		h	I Flow direction I—	Nil	Flow direction: Left to right	•	•	•
6				R	Flow direction: Right to left	•	•	•
				+				
		i	i Pressure unit	Nil	Name plate, caution plate for bowl, and pressure gauge in imperial units: MPa	•	•	•
				<b>Z</b> Note 10)	Name plate, caution plate for bowl, and pressure gauge in imperial units (PSI, F)	Note 12)	Note 12)	Note 12)
				ZA Note 11)	Digital pressure switch: With unit switching function	△ Note 13)	△ Note 13)	△ Note 13)

- Note 1) Drain guide is NPT1/8 (applicable to the AWM20, AWD20) and NPT1/4 (applicable to the AWM30 to AWM40, AWD30 to AWD40). The exhaust port for auto drain comes with ø3/8\* One-touch fitting (applicable to the AWM30 to AWM40, AWD30 to AWM40, AWD30.
- Note 2) Drain guide is G1/8 (applicable to the AWM20 and AWD20) and G1/4 (applicable to the AWM30 to AWH40, AWD30 to AWD40).
- Note 3) Option B, G, H are not assembled and are supplied loose at the time of shipment.
- Note 4) Assembly of a bracket and set nuts
- Note 5) When choosing with H (pariel mount), the installation space for leac wires will not be secured. In this case, select "wiring dowr entry for the lead wire entry.
- Note 6) The only difference from the standard specifications is the adjusting spring for the regulator. It does not restrict the setting of 0.2 MPa or more. When the pressure gauge is attached, a 0.2 MPa pressure gauge will be fitted.
- Note 7) Float type auto drain: The combination between C and D is not available.
- Note 8) Without a valve function
- Note 9) Metal bowl. The combination of 2 and 8 cannot be selected.
- Note 10) For thread type NPT. This product is for overseas use only according to the new Measurement Law. (The SI unit type is provided for use in Japan.) The digital pressure switch will be equipped with the unit switching function, setting to PSI initially.
- Note 11) For options E1 E2, E3 E4 This product is for overseas use only according to the new Measurement Law. (The SI unit is provided for use in Japan.)
- Note 12) O: For thread type. NPT only
- Note 13)  $\triangle$  Combination available for options: E1, E2 E3, E4

#### Standard Specifications

Model		AWM20 AWD20	AWM30 AWD30	AWM40 AWD40		
Port size		1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2		
Fluid		Air				
Proof pressure		1.5 MPa				
Maximum operating pressure		1.0 MPa				
Set pressure range		0.05 to 0.85 MPa				
Pressure gauge port size Note 1)		1	1/4			
Ambient and fluid temperature No	te 2)	-5 to 60°C (with no freezing)				
Nominal filtration rating	AWM20 to AWM40	0.3 m (95% filtered particle size)				
Nominal initiation rating	AWD20 to AWD40	0.01 m (95% filtered particle size)				
Outlet side oil mist	AWM20 to AWM40	Maximum 1.0 mg/m³ (ANR) ( 0.8 ppm) Note 3) Note 4)				
concentratio	AWD20 to AWD40	Max. 0.1 mg/m³ (ANR) (Before saturated with 0.001 mg/m³ (ANR) or less 0.008 ppm) Note 3) Note 4)				
Rated flow (/min (ANR)) Note 5)	AWM20 to AWM40	150	330	820		
hateu now (amm (ANA))	AWD20 to AWD40	90	180	450		
Drain capacity (cm³)		8	25	45		
Bowl material		Polycarbonate				
Bowl guard		Semi-standard Standard				
Regulator construction		Relieving type				
Weight (kg)		0.44	0.59	1.25		

Note 1) Pressure gauge connection threads are not available for F.R.L. unit with a square embedded type pressure gauge. Note 2) −5 to 50°™C for the products with the digital pressure switch.

Note 5) Conditions: Mist separator inlet pressure 0.7 MPa; The ratec flow variees depending on the inlet pressure. Keep the air flow within the rated flow to prevent ar outflow of lubricant to the outlet side



Note 4) Bowl O-ring and other C-rings are slightly lubricated.