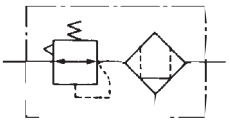
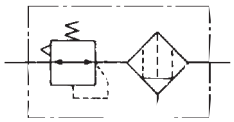
Mist Separator Regulator
AWM20 to AWM40
Micro Mist Separator Regulator
AWD20 to AWD40

Symbol
Mist Separator Regulator



Symbol
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

AWM 30 ❶ 03 ❸ BE ❹ ❺
AWD 30 ❶ 03 ❸ BE ❹ ❺

- 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

			Symbol	Description	❶ Body size 20	30	40
❷	Thread type		Nil	Rc	●	●	●
			N Note 1)	NPT	●	●	●
			F Note 2)	G	●	●	●
			+				
❸	Port size		01	1/8	●	—	—
			02	1/4	●	●	●
			03	3/8	—	●	●
			04	1/2	—	—	●
			+				
❹ Option Note 3)	a	Mounting	Nil	Without mounting option	●	●	●
			B Note 4)	With bracket	●	●	●
			H	With set nut	●	●	●
			+				
	b	Float type auto drain	Nil	Without auto drain	●	●	●
			C	Float type auto drain (N.C.)	●	●	●
			D	Float type auto drain (N.O.)	—	●	●
			+				
	c	Pressure gauge	Nil	Without pressure gauge	●	●	●
			E	Square embedded type pressure gauge	●	●	●
			G	Round type pressure switch	●	●	●
		Digital pressure switch	E1 Note 5)	NPN output / Wiring bottom entry	●	●	●
			E2 Note 5)	NPN output / Wiring top entry	●	●	●
			E3 Note 5)	PNP output / Wiring bottom entry	●	●	●
			E4 Note 5)	PNP output / Wiring top entry	●	●	●
			+				
❺ Semi-standard	d	Set pressure	Nil	0.05 to 0.85 MPa set	●	●	●
			1 Note 6)	0.02 to 0.2 MPa set	●	●	●
			+				
	e	Bowl	Nil	Polycarbonate bowl	●	●	●
			2	Metal bowl	●	●	●
			6	Nylon bowl	●	●	●
			8	Metal bowl with level gauge	—	●	●
			C	With bowl guard	●	—	—
			6C	Nylon bowl with bowl guard	●	—	—
			+				
	f	Drain port Note 7)	Nil	With drain cock	●	●	●
			J Note 8)	Drain guide 1/8	●	—	—
				Drain guide 1/4	—	●	●
			W Note 9)	Drain cock with barb fitting: For ø6 x ø4 nylon tube	—	●	●

AWM20, AWD20 AWM40, AWD40

		Symbol	Description	❶ Body size 20	30	40
❺ Semi-standard	g Exhaust mechanism	Nil	Relieving type	●	●	●
		N	Non-relieving type	●	●	●
		+				
	h Flow direction	Nil	Flow direction: Left to right	●	●	●
		R	Flow direction: Right to left	●	●	●
		+				
	i Pressure unit	Nil	Name plate, caution plate for bowl, and pressure gauge in imperial units: MPa	●	●	●
		Z 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 AWD40).
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 (panel mount), the installation space for lead wires will not be secured. In this case, select "wiring down 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) ○: For thread type: NPT only
Note 13) △: 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)		1/8		1/4
Ambient and fluid temperature Note 2)		–5 to 60°C (with no freezing)		
Nominal filtration rating	**AWM20 to AWM40**	0.3 m (95% filtered particle size)		
	AWD20 to AWD40	0.01 m (95% filtered particle size)		
Outlet side oil mist concentratio	**AWM20 to AWM40**	Maximum 1.0 mg/m³ (ANR) (0.8 ppm) Note 3) Note 4)		
	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 (ℓ/min (ANR)) Note 5)	**AWM20 to AWM40**	150	330	820
	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 3) When the compressor oil mist discharge concentration is 30 mg/m³ (ANR).
Note 4) Bowl O-ring and other O-rings are slightly lubricated.
Note 5) Conditions: Mist separator inlet pressure 0.7 MPa; The rated flow varies depending on the inlet pressure. Keep the air flow within the rated flow to prevent an outflow of lubricant to the outlet side.

Option / Part No.

Option \ Model			AWM20 AWD20	AWM30 AWD30	AWM40 AWD40
Bracket assembly Note 1)			AW20P-270AS	AR30P-270AS	AR40P-270AS
Set nut			AR20P-260S	AR30P-260S	AR40P-260S
Pressure gauge	**Round type** Note 2)	**Standard**	G36-10-□01		G46-10-□02
		0.02 to 0.2 MPa set	G36-2-□01		G46-2-□02
	Square embedded type Note 3)	**Standard**	GC3-10AS [GC3P-010AS (Pressure gauge cover only)]		
		0.02 to 0.2 MPa set	GC3-2AS [GC3P-010AS (Pressure gauge cover only)]		
Digital pressure switch Note 4)		**NPN output / Wiring bottom entry**	ISE35-N-25-MLA [ISE35-N-25-M (Switch body only)]		
		NPN output / Wiring top entry	ISE35-R-25-MLA [ISE35-R-25-M (Switch body only)]		
		PNP output / Wiring bottom entry	ISE35-N-65-MLA [ISE35-N-65-M (Switch body only)]		
		NPN output / Wiring top entry	ISE35-R-65-MLA [ISE35-R-65-M (Switch body only)]		
Float type auto drain Note 5)		**N.O.**	—	AD38	AD48
		N.C.	AD37	AD37	AD47

Note 1) Assembly of a bracket and set nuts
Note 2) □ in part numbers for a round pressure gauge indicates a type of connection thread. No indication is necessary for R; however, indicate N for NPT. Please contact SMC regarding the connection thread NPT and pressure gauge supply for PSI unit specifications.
Note 3) Including O-ring and 2 mounting screws. [ ]: Pressure gauge cover only
Note 4) Lead wire with connector (2 m), adaptor, lock pin, O-ring (1 pc.) , mounting screw (2 pcs.) are attached. [ ]: Switch body only. Also, regarding how to order the digital pressure switch, please refer to page 73.
Note 5) Minimum operating pressure: N.O. type–0.1 MPa; N.C. type–0.1 MPa (AD27) and 0.15 MPa (AD37/47). Please contact SMC for PSI unit and F specifications.

⚠ Specific Product Precautions

Be sure to read this before handling. Refer to "Precautions for Handling Pneumatic Devices" (M-03-E3A) for Safety Instructions and F.R.L. Unit Precautions.

Selection

⚠ Warning

1. Residual pressure release (outlet pressure release) is not complete by releasing inlet pressure. Please contact SMC regarding residual pressure release.

Air Supply

⚠ Caution

1. Install an air filter (the AF series) as a preliminary filter on the inlet side of the mist separator regulator to prevent premature clogging.

2. Install an air filter (the AFM series) as a preliminary filter on the inlet side of the micro mist separator regulator to prevent premature clogging.

Maintenance

⚠ Warning

1. Replace the element every 2 years or when the pressure drop becomes 0.1 MPa, whichever comes first, to prevent damage to the element.

Mounting and Adjustment

⚠ Caution

1. Set the regulator while verifying the displayed values of the inlet and outlet pressure gauges. Turning the regulator knob excessively can cause damage to the internal parts.

2. The pressure gauge included with regulators for 0.02 to 0.2 MPa setting is for up to 0.2 MPa use only (except for the AR10). Exceeding 0.2 MPa of pressure can damage the gauge.

3. Do not use tools on the pressure regulator knob as this may cause damage. It must be operated manually.

Mounting and Adjustment

⚠ Warning

1. Be sure to unlock the knob before adjusting the pressure and lock it after setting the pressure. Failure to follow this procedure can cause damage to the knob and the outlet pressure may fluctuate.

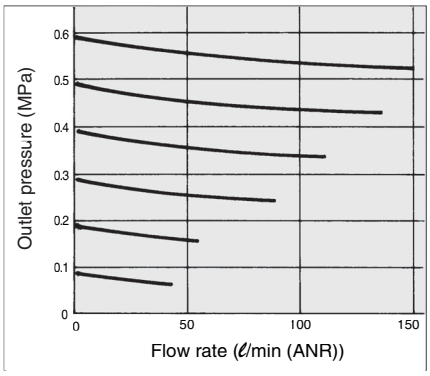
- Pull the pressure regulator knob to unlock. (You can visually verify this with the "orange mark" that appears in the gap.)
- Push the pressure regulator knob to lock. When the knob is not easily locked, turn it left and right a little and then push it (when the knob is locked, the "orange mark", i.e., the gap will disappear).

2. A knob cover is available to prevent careless operation of the knob. Refer to "Features 1" for details.

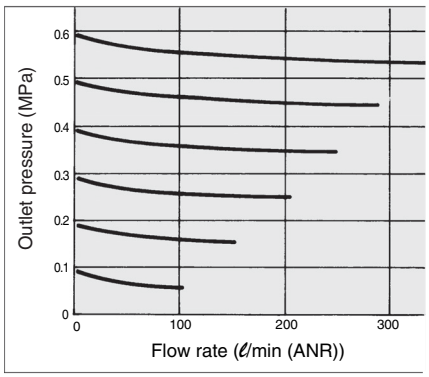
Flow Characteristics (Representative values)

Condition: Inlet pressure 0.7 MPa

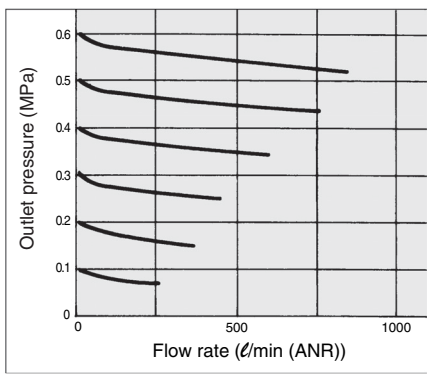
AWM20 Rc 1/4



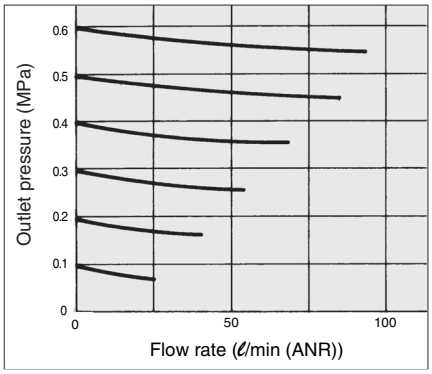
AWM30 Rc 3/8



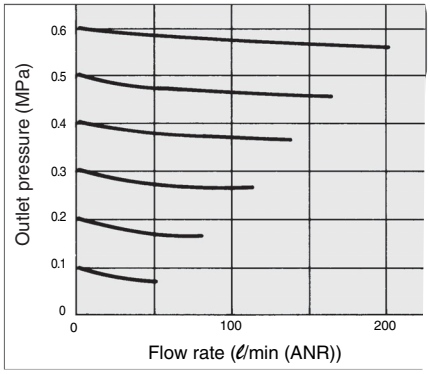
AWM40 Rc 1/2



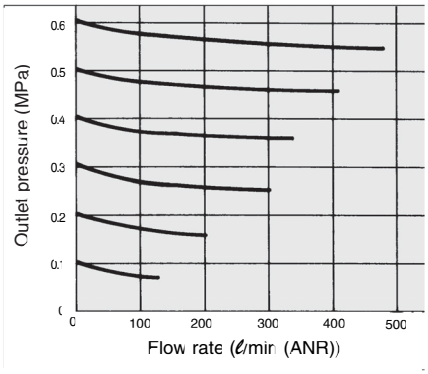
AWD20 Rc 1/4



AWD30 Rc 3/8



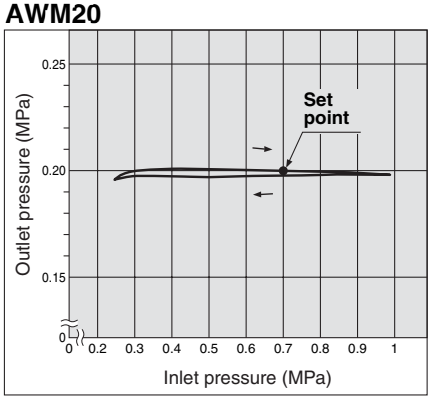
AWD40 Rc 1/2



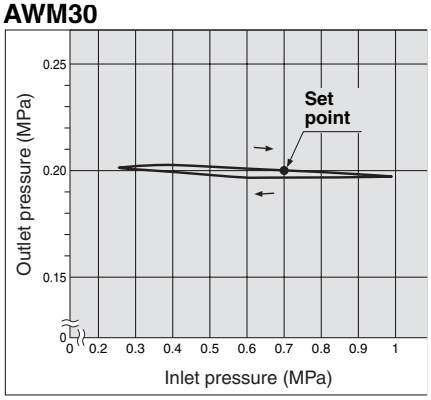
Pressure Characteristics (Representative values)

Conditions: Inlet pressure 0.7 MPa, Outlet pressure 0.2 MPa, Flow rate 20 ℓ/min (ANR)

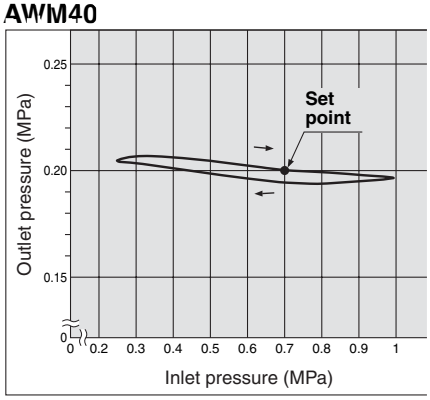
AWM20



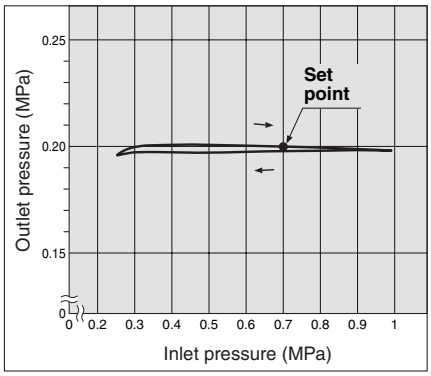
AWM30



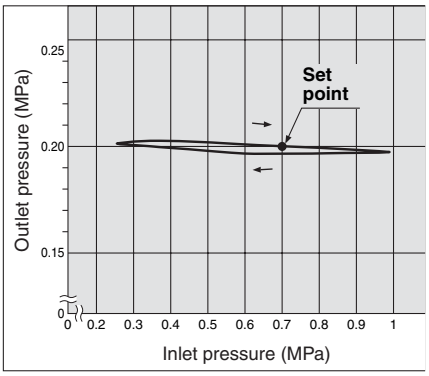
AWM40



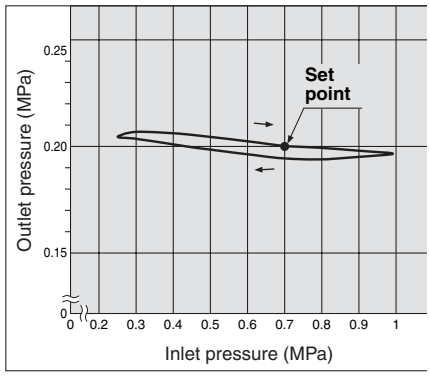
AWD20



AWD30

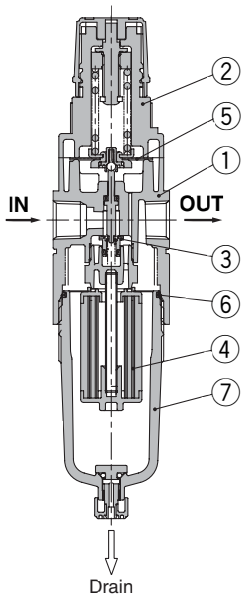


AWD40

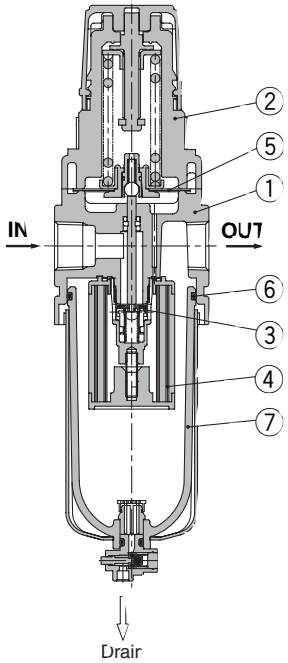


Construction

AWM20
AWD20



AWM30, 40
AWD30, 40



Component Parts

No.	Description	Material	Model	Note
1	**Body**	Zinc die-cast	AWM20 AWD20	Platinum silver
		Aluminum die-cast	AWM30, AWM40 AWD30, AWD40	
2	**Bonnet**	Polyacetal	AWM20 to AWM40 AWD20 to AWD40	Black

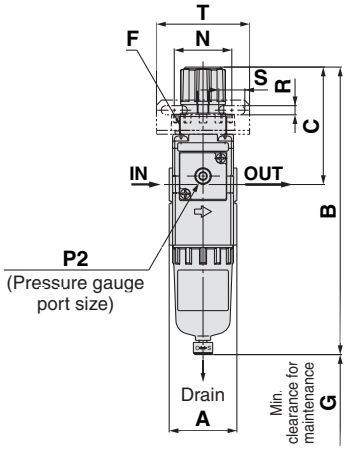
Replacement Parts

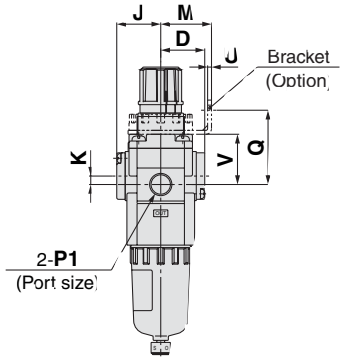
No.	Description		Material	Part no.		
				AWM20 AWD20	**AWM30 AWD30**	**AWM40 AWD40**
3	**Valve assembly**		Brass, HNBR	AWM20P-090AS	AWM30P-090AS	AWM40P-090AS
4	**Element assembly**	AWM20 to AWM40	—	AFM20P-060AS	AFM30P-060AS	AFM40P-060AS
		AWD20 to AWD40	—	AFD20P-060AS	AFD30P-060AS	AFD40P-060AS
5	**Diaphragm assembly**		Weatherable NBR	AR20P-150AS	AR30P-150AS	AR40P-150AS
6	**Bowl O-ring**		NBR	C2SFP-260S	C3SFP-260S	C4SFP-260S
7	**Bowl assembly** Note 1)		Polycarbonate	C2SF	C3SF Note 2)	C4SF Note 2)

Note 2) Including O-ring. Please contact SMC regarding the bowl assembly supply for PSI and F unit specifications
Note 3) Bowl assembly for the AWM30, AWM40/AWD30, AWD40 comes with a bowl guard (steel band material).

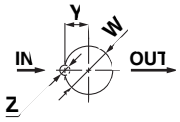
Dimensions

AWM20
AWD20



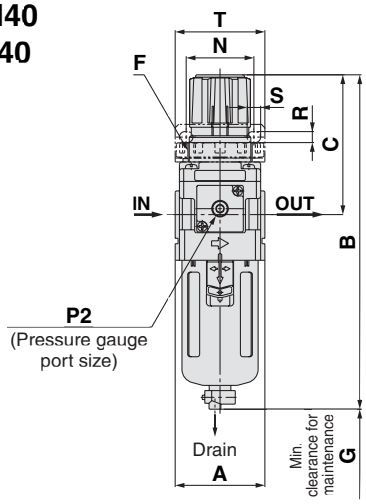


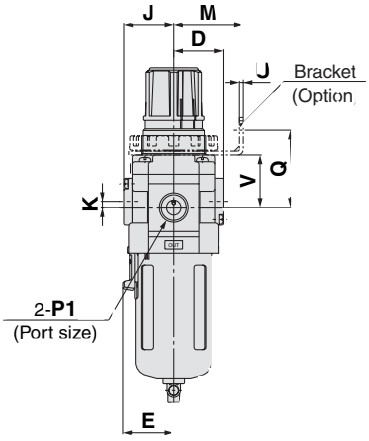
Panel fitting dimension



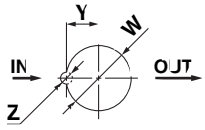
AWM20/AWD20: Max. 3.5

AWM30, AWM40
AWD30, AWD40

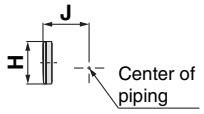
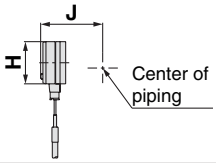
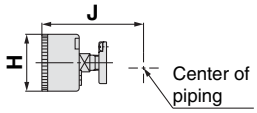


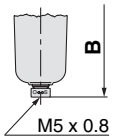
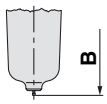
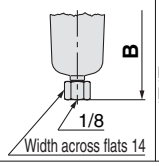
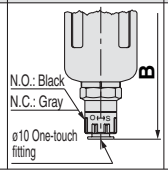
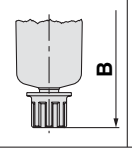
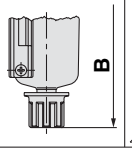
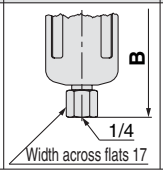
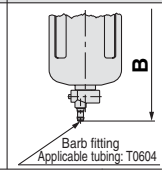


Panel fitting dimension



AWM30/AWD30: Max. 3.5
AWM40/AWD40: Max. 5

Applicable model	AWM20, AWM40/AWD20 to AWD40		
Option	Square embedded type pressure gauge	Digital pressure switch	Round type pressure gauge
Dimensions			

Applicable model	AWM20, AWD20			AWM30, AWM40/AWD30, AWD40				
Optional/Semi-standard specifications	With auto drain (N.C.)	Metal bowl	With drain guide	With auto drain (N.O./N.C.)	Metal bowl	Metal bowl with level gauge	With drain guide	Drain cock with barb fitting
Dimensions								

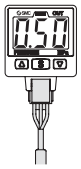
Model	Standard specifications											Optional specifications					
												Square type pressure gauge		Digital pressure gauge		Round type pressure gauge	
	P1	P2	A	B Note)	C	D	E	F	G	J	K	H	J	H	J	H	J
AWM20/AWD20	1/8, 1/4	1/8	40	160	73	26	—	M28 x 1	40	26	5	□28	27	□27.8	37.5	ø37.5	63
AWM30/AWD30	1/4, 3/8	1/8	53	201	86	29.5	30	M38 x 1.5	55	29.5	3.5	□28	30.5	□27.8	41	ø37.5	66
AWM40/AWD40	1/4, 3/8, 1/2	1/4	70	239	92	37.5	38	M42 x 1.5	80	37.5	1.5	□28	38.5	□27.8	49	ø42.5	76

Model	Optional specifications												Semi-standard specifications			
	Bracket mount							Panel mount				With auto drain	With barb fitting	With drain guide	Metal bowl	Metal bowl with level gauge
	M	N	Q	R	S	T	U	V	W	Y	Z	B	B	B	B	B
AWM20/AWD20	30	34	44	5.4	15.4	55	2.3	30	28.5	14	6	177	—	164	160	
AWM30/AWD30	41	40	46	6.5	8	53	2.3	31	38.5	19	7	242	209	208	214	234
AWM40/AWD40	50	54	54	8.5	10.5	70	2.3	35.5	42.5	21	7	278	247	246	252	272

Note) The total length of B dimension is the length when the filter regulator handle is unlocked.

Options
Digital Pressure Switch

ISE35 — N — 25 — M L A
(1) (2) (3) (4) (5)

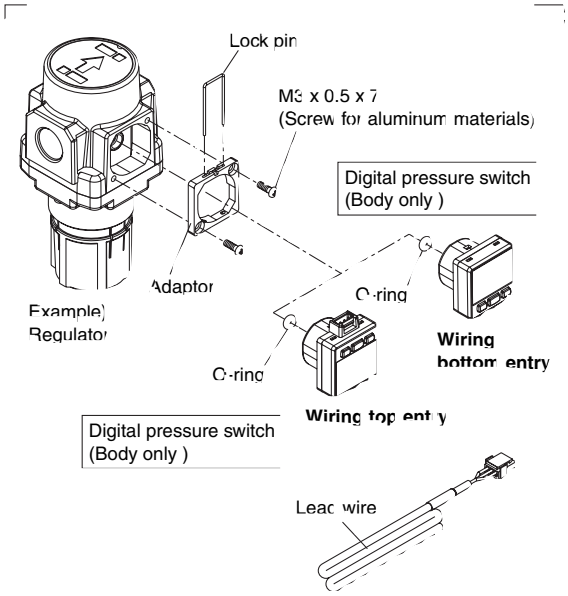
		Symbol	Description
1	Lead wire entry	N	Wiring bottom entry 
		R	Wiring top entry 
	+		
2	Output	25	NPN output
		65	PNP output
	+		
3	Display unit Note 1)	Nil Note 2)	With unit switching function
		M	Fixed SI unit
		P Note 2)	Pressure unit: PSI (initial value) with unit display switching function
	+		
4	Lead wire	Nil	Without lead wire
		L	Lead wire with connector
	+		
5	Lead wire entry	Nil	Without accessories (switch body only)
		A	With accessories (adaptor, O-ring (1 pc.), mounting screw (2 pcs.), lock pin)

Note 1) This product is for overseas use only according to the new Measurement Law.
Note 2) Unit name plate is attached.
Note 3) Instruction manual is attached.
Note 4) When ordering the body only, select the symbol from (1) to (3) respectively.

Applicable Series

F.R.L. unit	AC20, AC25, AC30, AC40, AC50, AC55, AC60
	AC20A, AC30A, AC40A, AC50A, AC60A
	AC20B, AC25B, AC30B, AC40A, AC50A, AC55B, AC60B
	AC20C, AC25C, V30C, AC40C
	AC20D, AC30D, V40D
Regulator	AR20, AR25, AR30, AR40, AR50, AR60
Filter regulator	AW20, AW30, AW40, AW60
Mist separator regulator	AWM20, AWM30, AWM40
Micro mist separator regulator	AWD20, AWD30, AWD40

Digital Pressure Switch Details



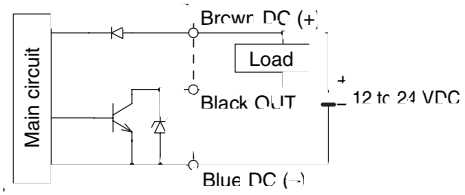
Specifications

Rated pressure range		0 to 1 MPa
Set pressure range		–0.1 to 1 MPa
Withstand pressure		1.5 MPa
Set pressure resolution		0.01 MPa
Power supply voltage		12 to 24 VDC, Ripple (p-p) 10% or less (with power supply polarity protection)
Current consumption		55 mA or less (at no load)
Switch output		NPN or PNP open collector 1 output
	Max. load current	80 mA
	Max. applied voltage	30 V (with NPN output)
	Residual voltage	1 V or less (with load current of 80 mA)
	Response time Anti-chattering function	1 s (Response time selections: 0.25, 0.5, 2, 3)
	Short circuit protection	With short circuit protection
Repeatability		1%F.S. or less
Hysteresis	Hyseresis mode	Variable (can be set from 0)
	Window comparator mode	
Display		3-digit, 7-segment indicator, 2-color display (Red/ Green) can be interlocked with the switch output.
Display accuracy		2%F.S. 1 digit (at 25°C 3°C)
Indication light		Illuminates when output is turned ON. (Green)
Environmental resistance	Enclosure	IP40
Lead wire with connector		ø3.4 3-wire 25AWG 2 m

Output

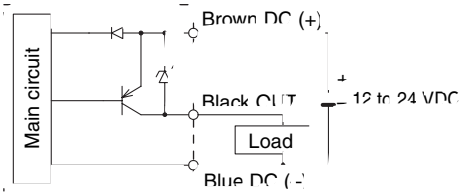
NPN open collector

Max. 30 V, 80 mA
Residual output voltage V or less



PNP open collector

Max. 80 mA
Residual output voltage V or less



Series AC
Safety Instructions

These safety instructions are intended to prevent a hazardous situation and/or equipment damage. These instructions indicate the level of potential hazard by labels of **"Caution", "Warning"** or **"Danger"**. To ensure safety, be sure to observe ISO 4414 Note 1), JIS B 8370 Note 2) and other safety practices.

■Explanation of the Labels

Labels	Explanation of the labels
⚠ **Danger**	In extreme conditions, there is a possible result of serious injury or loss of life.
⚠ **Warning**	Operator error could result in serious injury or loss of life.
⚠ **Caution**	Operator error could result in injury Note 3) or equipment damage. Note 4)

Note 1) ISO 4414: Pneumatic fluid power – General rules relating to systems
Note 2) JIS B 8370: General Rules for Pneumatic Equipment
Note 3) Injury indicates light wounds, burns and electrical shocks that do not require hospitalization or hospital visits for long-term medical treatment.
Note 4) Equipment damage refers to extensive damage to the equipment and surrounding devices.

■Selection/Handling/Applications

1. The compatibility of the pneumatic equipment is the responsibility of the person who designs the pneumatic system or decides its specifications.
Since the products specified here are used in various operating conditions, their compatibility for the specific pneumatic system must be based on specifications or post analysis and/or tests to meet the specific requirements. The expected performance and safety assurance are the responsibility of the person who has determined the compatibility of the system. This person should continuously review the suitability of all items specified, referring to the latest catalog information with a view to giving due consideration to any possibility of equipment failure when configuring a system.

2.Only trained personnel should operate pneumatic machinery and equipment.
Compressed air can be dangerous if handled incorrectly. Assembly, handling or repair of the systems using pneumatic equipment should be performed by trained and experienced operators. (Understanding JIS B 8370 General Rules for Pneumatic Equipment, and other safety rules are included.)

3. Do not service the machinery/equipment or attempt to remove components until safety is confirmed.
1. Inspection and maintenance of the machinery/equipment should only be performed once measures to prevent falling or runaway of the driven objects have been confirmed.
2. If the equipment must be removed, confirm the safety process as mentioned above. Turn off the supply pressure for the equipment and exhaust all residual compressed air in the system, and release all the energy (liquid pressure, spring, condenser, gravity).
3. Before the machinery/equipment is restarted, take measures to prevent quick extension of a cylinder piston rod, etc.

4. If the equipment will be used in the following conditions or environment, please contact SMC first and be sure to take all necessary safety precautions.
1. Conditions and environments beyond the given specifications, or if product is used outdoors.
2. Installation on equipment in conjunction with atomic energy, railway, air navigation, vehicles, medical equipment, food and beverages, recreation equipment, emergency stop circuits, clutch and brake circuits in press applications, or safety equipment.
3. An application which has the possibility of having negative effects on people, property, requiring special safety analysis.
4. If the products are used in an interlock circuit, prepare a double interlock style circuit with a mechanical protection function for the prevention of a breakdown. And, examine the devices periodically if they function normally or not.

■Exemption from Liability

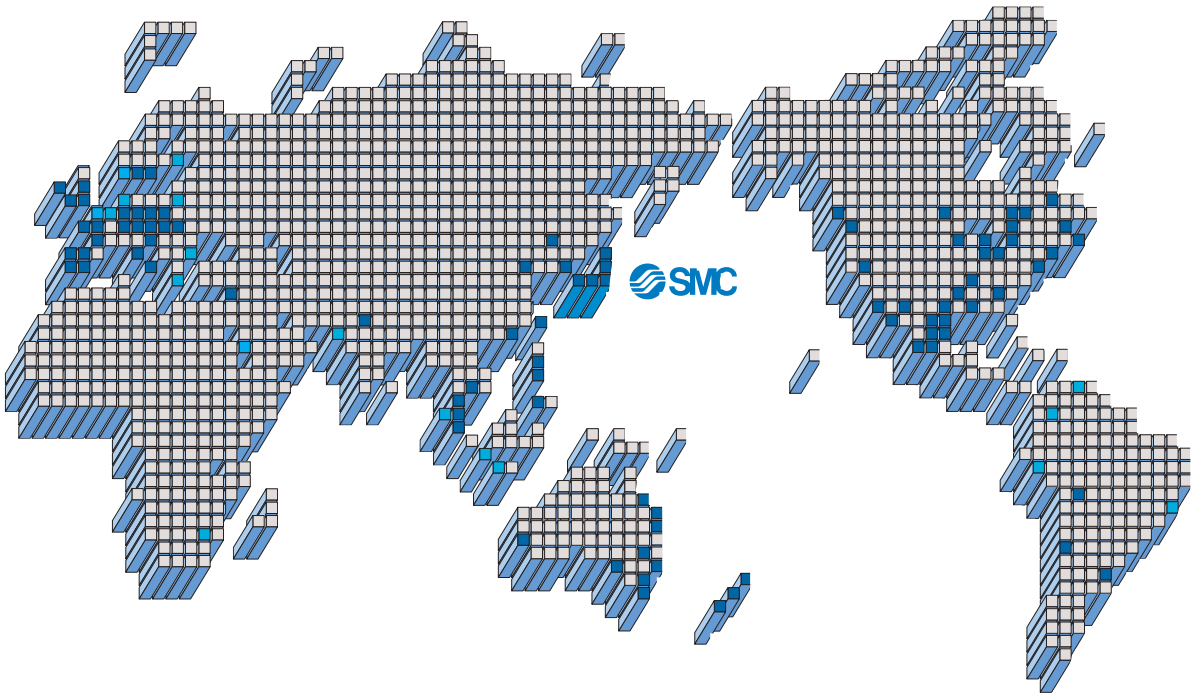
1. SMC, its officers and employees shall be exempted from liability for any loss or damage arising out of earthquakes or fire, action by a third person, accidents, customer error with or without intention, product misuse, and any other damages caused by abnormal operating conditions.

2. SMC, its officers and employees shall be exempted from liability for any direct or indirect loss or damage, including consequential loss or damage, loss of profits, or loss of chance, claims, demands, proceedings, costs, expenses, awards, judgments and any other liability whatsoever including legal costs and expenses, which may be suffered or incurred, whether in tort (including negligence), contract, breach of statutory duty, equity or otherwise.

3. SMC is exempted from liability for any damages caused by operations not contained in the catalogs and/or instruction manuals, and operations outside of the specification range.

4. SMC is exempted from liability for any loss or damage whatsoever caused by malfunctions of its products when combined with other devices or software.

SMC'S GLOBAL MANUFACTURING, DISTRIBUTION AND SERVICE NETWORK



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⚠ Safety Instructions | Be sure to read “Precautions for Handling Pneumatic Devices” (M-03-E3A) before using.

SMC Corporation

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