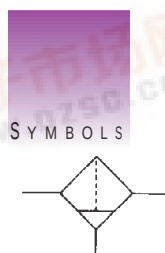


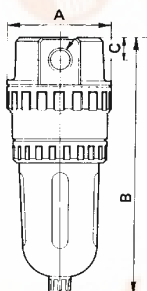
FILTERS: HIGH FLOW

HIGH FLOW AIR FILTER SERIES AF

- ✓ Port Sizes 1½- 2" Rc
- ✓ 5µm filter element
- ✓ High efficiency drainage
- ✓ Bowl guard standard
- ✓ Stocked for overnight delivery

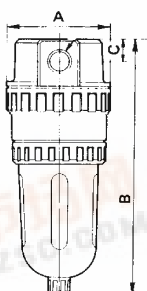


DIMENSIONS AIR FILTER MODELS AF800/900



Model	A	B	C	Pipe size
AF800	150	410	33	1½"
AF900	200	488	46	2"

DIMENSIONS AIR FILTER MODELS AF811/911



Model	A	B	C	Pipe size
AF811	150	439	33	1½"
AF911	200	519	46	2"

TECHNICAL SPECIFICATIONS

	AF800	AF900
Pipe Size	1½"	2"
Max. flow rate (n/min)	9000	15000
Drain Capacity (cm³)	180	180
Max. operating pressure	9.9	
Ambient & fluid temp.	-5~+60°C	
Bowl	Polycarbonate with metal bowl guard	

Flows are for 0.7MPa supply, 0.01MPa pressure drop

HOW TO ORDER AIR FILTER

AF800-14 (1½)
AF900-20 (2)

HOW TO ORDER AIR FILTER WITH AUTODRAIN

AF811-14 (1½)
AF911-20 (2)

STOCKED PRODUCTS
FOR A LIST OF STOCKED PRODUCTS,
PLEASE SEE THE CURRENT SMC PRICE LIST

ACCESSORIES AIR FILTER

Filter Elements
11345-5BAF800
11352-5BAF900

STOCKED PRODUCTS
FOR A LIST OF STOCKED PRODUCTS,
PLEASE SEE THE CURRENT SMC PRICE LIST



MIST SEPARATOR SERIES AM

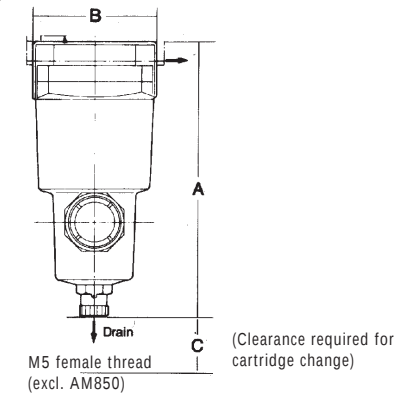
- ✓ Port sizes 1/4, 3/8, 1/2, 3/4, 1, 2"
- ✓ Removes 99.9% of oil mist and fine particles down to 0.3µm
- ✓ Manual or automatic drain
- ✓ Cartridge type element for easy replacement
- ✎ Small additional clearance required for cartridge replacement

Mist Separators are also available for the modular range of air preparation equipment - see page 5.9



Air Preparation

DIMENSIONS
MIST SEPARATOR SERIES AM



Model	Port	A mm	B mm	C mm
AM150-02D	1/4	159	63	10
AM250-03D	3/8	172	76	10
AM350-04D	1/2	204	90	10
AM450-06D	3/4	225	106	10
AM550-10D	1"	259	122	10
AM650-14D	1 1/2"	361	160	10
AM850-20D	2"	473	220	10

Manual and autodrain types are same overall dimensions.

HOW TO ORDER
MIST SEPARATOR SERIES AM

MANUAL DRAIN

AM150-02	1/4
AM250-03	3/8
AM350-04	1/2
AM450-06	3/4
AM550-10	1"
AM650-14	1 1/2"
AM850-20	2"

AUTODRAIN

AM150-02D	1/4
AM250-03D	3/8
AM350-04D	1/2
AM450-06D	3/4
AM550-10D	1"
AM650-14D	1 1/2"
AM850-20D	2"

STOCKED PRODUCTS
FOR A LIST OF STOCKED PRODUCTS,
PLEASE SEE THE CURRENT SMC PRICE LIST

TECHNICAL
SPECIFICATIONS

Max. operating pressure	10 Bar
Min. operating pressure	Manual 0.5 Bar Autodrain 1.5 Bar
Ambient & fluid temp'	5-60°C
Filtration degree	0.3µm
Oil mist removal	99.9%
Max. flow rate rate l/min*	AM150 300
	AM250 750
	AM350 1500
	AM450 2,200
	AM550 3,500
	AM650 6,000
	AM850 12,000

*7 bar supply, 0.3 bar or less pressure drop

ACCESSORIES

Bracket	
AM150	BM51
AM250	BM52
AM350	BM53
AM450	BM54
AM550	BM55
AM650	BM56
AM850	BM57
Filter element	
AM150	AM-EL150
AM250	AM-EL250
AM350	AM-EL350
AM450	AM-EL450
AM550	AM-EL550
AM650	AM-EL650
AM850	AM-EL850

STOCKED PRODUCTS
FOR A LIST OF STOCKED PRODUCTS,
PLEASE SEE THE CURRENT SMC PRICE LIST

SYMBOLS



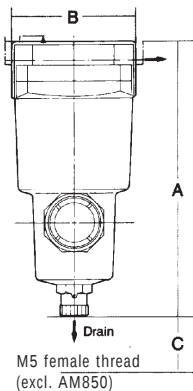
MICRO MIST SEPARATOR SERIES AMD

- ✓ Port sizes $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1", 1½", 2"
- ✓ Removes oil, water and dirt from compressed air
- ✓ 99.9999% efficient
- ✓ Particle removal down to 0.01µm
- ✓ Oil carry-over less than 0.08 p.p.m.
- ✓ Cartridge type element for easy replacement
- ✓ Small additional clearance required for cartridge replacement



DIMENSIONS

MIST SEPARATOR SERIES AMD



M5 female thread
(excl. AM850)

(Clearance required for
cartridge change)

Model	Port	A mm	B mm	C mm
AMD150-02	$\frac{1}{4}$	159	63	10
AMD250-03	$\frac{3}{8}$	172	76	10
AMD350-04	$\frac{1}{2}$	204	90	10
AMD450-06	$\frac{3}{4}$	225	106	10
AMD550-10	1"	259	122	10
AMD650-14	1½"	361	160	10
AMD850-20	2"	473	220	10

Manual and autodrain types are
same overall dimensions.

SYMBOLS



HOW TO ORDER

MIST SEPARATOR SERIES AMD

MANUAL DRAIN

AMD150-02	$\frac{1}{4}$
AMD250-03	$\frac{3}{8}$
AMD350-04	$\frac{1}{2}$
AMD450-06	$\frac{3}{4}$
AMD550-10	1"
AMD650-14	1½"
AMD850-20	2"

AUTO DRAIN

AMD150-02D	$\frac{1}{4}$
AMD250-03D	$\frac{3}{8}$
AMD350-04D	$\frac{1}{2}$
AMD450-06D	$\frac{3}{4}$
AMD550-10D	1"
AMD650-14D	1½"
AMD850-20D	2"

STOCKED PRODUCTS

FOR A LIST OF STOCKED PRODUCTS,
PLEASE SEE THE CURRENT SMC PRICE LIST

TECHNICAL SPECIFICATIONS

Max. operating pressure	1.0MPa
Minimum operating pressure	Manual 0.05MPa Autodrain 0.15MPa
Ambient and fluid temperatures	5 - 60°C
Filtration degree	0.01µm
Oil mist removal	99.9%
Max. flow rate rate l/min*	AMD150 - 200 AMD250 - 250 AMD350 - 1000 AMD450 - 2000 AMD550 - 3500 AMD650 - 6000 AMD850 - 12000

*0.7MPa supply, 0.02MPa pressure drop

ACCESSORIES

MIST SEPARATOR SERIES AMD

Brackets

AMD150	.....	BM51
AMD250	.....	BM52
AMD350	.....	BM53
AMD450	.....	BM54
AMD550	.....	BM55
AMD650	.....	BM56
AMD850	.....	BM57

Filter element

AMD150	.....	AMD-EL150
AMD250	.....	AMD-EL250
AMD350	.....	AMD-EL350
AMD450	.....	AMD-EL450
AMD550	.....	AMD-EL550
AMD650	.....	AMD-EL650
AMD850	.....	AMD-EL850

STOCKED PRODUCTS

FOR A LIST OF STOCKED PRODUCTS,
PLEASE SEE THE CURRENT SMC PRICE LIST

MICRO MIST SEPARATOR WITH BUILT-IN PREFILTER SERIES AMH

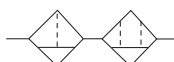
- ✓ Two combined units
- ✓ Reduced installation and cost
- ✓ Reduced initial cost
- ✓ Reduced mounting space
- ✓ Filtration rate of 0.01 μ m (95% particle size collection)
- ✓ Oil mist separated and eliminated down to 0.008ppm (0.01 mgf/m³ ANR) or less before the filter element is oil saturated and 0.08ppm (0.1 mgf/m³ ANR) or less after the filter element is saturated
- ✓ Available with drain cock (M5 female thread upto AMH650) or with normally open autodrain (1/4" female thread)



APPLICATION

Suitable for cleaning air that is supplying pneumatic measuring instruments (air micrometers) and precision parts.

SYMBOLS

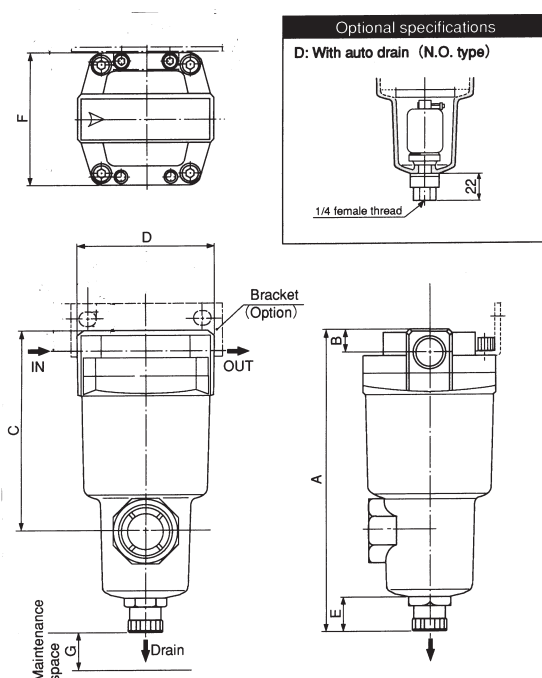


TECHNICAL SPECIFICATIONS

Fluid	Compressed Air	
Min/Max Operating Pressure	Manual: 0.05~1.0MPa Autodrain: 0.15~1.0MPa	
Ambient & Fluid Temperature	5~60°C	
Element Life	2 years or when pressure drop reaches 0.1MPa	
Air Flow Rate l/min	AMH150	200
	AMH250	500
	AMH350	1000
	AMH450	2000
	AMH550	3500
	AMH650	6000
	AMH850	12000

At atmospheric pressure of 20°C and relative humidity of 65%

DIMENSIONS SERIES AMH



HOW TO ORDER SERIES AMH

MANUAL DRAIN

AMH150-02	1/4
AMH250-03	3/8
AMH350-04	1/2
AMH450-06	3/4
AMH550-10	1"
AMH650-14	1 1/2
AMH850-20	2

AUTODRAIN

AMH150-02D	1/4
AMH250-03D	3/8
AMH350-04D	1/2
AMH450-06D	3/4
AMH550-10D	1"
AMH650-14D	1 1/2
AMH850-20D	2"

STOCKED PRODUCTS

FOR A LIST OF STOCKED PRODUCTS, PLEASE SEE THE CURRENT SMC PRICE LIST

ACCESSORIES SERIES AMH

Model	Brackets Assembly	Elements Assembly
AMH150	BM51	AMH-EL150
AMH250	BM52	AMH-EL250
AMH350	BM53	AMH-EL350
AMH450	BM54	AMH-EL450
AMH550	BM55	AMH-EL550
AMH650	BM56	AMH-EL650
AMH850	BM57	AMH-EL850

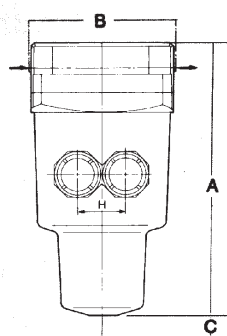
Model	Piping port size	A	B	C	D	E	F	G
AMH150	1/8, 1/4, 3/8	159	13	100	63	20	63	10
AMH250	1/4, 3/8	172	13	113	76	20	76	10
	1/2	178	16	119				
AMH350	3/8, 1/2	204	16	145	90	20	90	10
	3/4	210	19	151				
AMH450	1/2, 3/4	225	19	166	106	20	106	10
	1	232	22	172				
AMH550	3/4, 1	259	22	200	122	20	122	10
AMH650	1, 1 1/2	361	32	253	160	20	160	10
AMH850	1 1/2, 2	473	42	348	220	70	220	10

ODOUR REMOVAL FILTER SERIES AMF

- ✓ Port sizes 1/4, 3/8, 1/2, 3/4, 1", 1 1/2, 2"
- ✓ Activated carbon filter element with large filtration area (1420 m²/g) for the removal of hydrocarbon and organic vapours
- ✓ 99.9999% efficient
- ✓ Particle removal down to 0.01µm
- ✓ Cartridge type element for easy replacement
- ✎ Small additional clearance required for cartridge replacement



DIMENSIONS ODOUR REMOVAL FILTER SERIES AMF



(Clearance required for cartridge change)

Model	Port	A mm	B mm	C mm
AMF150-02	1/4"	139	63	10
AMF250-03	3/8"	152	76	10
AMF350-04	1/2"	184	90	10
AMF450-06	3/4"	205	106	10
AMF550-10	1"	239	122	10
AMF650-14	1 1/2"	321	160	10
AMF850-20	2"	403	220	10

TECHNICAL SPECIFICATIONS

Media	Compressed air - use SMC AMD micro-mist separator upstream
Operating pressure	0.05 - 1.0 MPa
Operating temperature	5 - 60°C
Max. flow rate rate l/min*	AMF150 - 200 AMF250 - 500 AMF350 - 1000 AMF450 - 2000 AMF550 - 3500 AMF650 - 6000 AMF850-12000

*0.7MPa supply, 0.015MPa pressure drop

SYMBOLS



HOW TO ORDER

ODOUR REMOVAL FILTER SERIES AMF

AMF150-02	1/4"
AMF250-03	3/8"
AMF350-04	1/2"
AMF450-06	3/4"
AMF550-10	1"
AMF650-14	1 1/2"
AMF850-20	2"

STOCKED PRODUCTS

FOR A LIST OF STOCKED PRODUCTS, PLEASE SEE THE CURRENT SMC PRICE LIST

ACCESSORIES

ODOUR REMOVAL FILTER SERIES AMF

Bracket	
AMF150	BM51
AMF250	BM52
AMF350	BM53
AMF450	BM54
AMF550	BM55
AMF650	BM56
AMF850	BM57
Filter element	
AMF150	AMF-EL150
AMF250	AMF-EL250
AMF350	AMF-EL350
AMF450	AMF-EL450
AMF550	AMF-EL550
AMF650	AMF-EL650
AMF850	AMF-EL850

STOCKED PRODUCTS

FOR A LIST OF STOCKED PRODUCTS, PLEASE SEE THE CURRENT SMC PRICE LIST



WATER SEPARATOR SERIES AMG

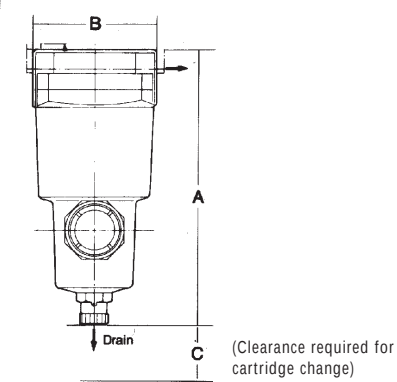
- ✓ Port sizes 1/4, 3/8, 1/2, 3/4, 1, 1 1/2, 2"
- ✓ Removes 99.9% of water droplets
- ✓ Automatic drain as standard
- ✓ Element is resistant to clogging
- ✎ Small additional clearance required for cartridge replacement

APPLICATIONS

- ✓ Use where an electric air dryer is not required but water should be removed
- ✓ Use where an air dryer cannot be used due to power supply, expense or space
- ✓ AMG range can be used with compressors of 0.75–75kW(1–100Hp)



DIMENSIONS
WATER SEPARATOR SERIES AMG



Model	Port	A mm	B mm	C mm
AMG150	1/4	170	63	10
AMG250	3/8	191	76	10
AMG350	1/2	220	90	10
AMG450	3/4	241	106	10
AMG550	1	279	122	10
AMG650	1 1/2	388	160	10
AMG850	2	479	220	10

HOW TO
ORDER
WATER SEPARATOR SERIES AMG

AUTO DRAIN	Normally Open
AMG150-02D	1/4
AMG250-03D	3/8
AMG350-03D	3/8
AMG350-04D	1/2
AMG450-06D	3/4
AMG550-10D	1
AMG650-14D	1 1/2
AMG850-20D	2

STOCKED PRODUCTS
FOR A LIST OF STOCKED PRODUCTS,
PLEASE SEE THE CURRENT SMC PRICE LIST

ACCESSORIES

Bracket	
AMG150	BM51
AMG250	BM52
AMG350	BM53
AMG450	BM54
AMG550	BM55
AMG650	BM56
AMG850	BM57

STOCKED PRODUCTS
FOR A LIST OF STOCKED PRODUCTS,
PLEASE SEE THE CURRENT SMC PRICE LIST

TECHNICAL
SPECIFICATIONS

Max. operating pressure	1.0MPa
Min. operating pressure	0.15MPa
Ambient & fluid temp'	5–60°C
Max. flow rate rate /n/min*	AMG150 300 AMG250 750 AMG350 1500 AMG450 2200 AMG550 3500 AMG650 6000 AMG850 12000

*0.7MPa supply, 0.03MPa or less pressure drop
Note: if air supply is 300ln/min ANR or less then
specify a normally closed autodrain version.
(suffix C eg: AMCG350-04C)

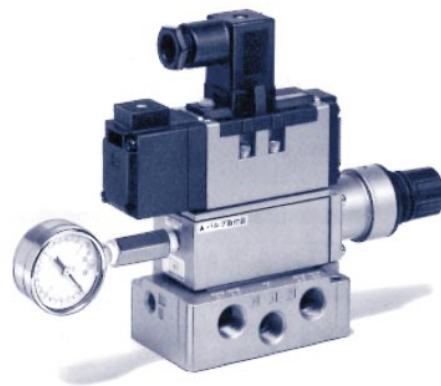
SYMBOLS



INTERFACE REGULATOR FOR ISO VALVES SERIES ARB250/350

FOR FURTHER DETAILS, REFER TO THE VALVE SECTION

- ✓ Sub base or manifold mounting
- ✓ ISO 1 and ISO 2 types available
- ✓ Regulated port options



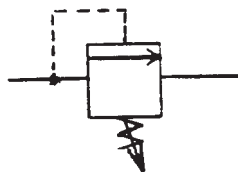
PRESSURE CONTROL VALVE

The AP Series pressure control valve is an adjustable valve with a control range of 0.05 to 0.7MPa. If a pressure, greater than the set pressure, is reached, the unit will open, closing when pressure is less than set pressure.

TECHNICAL SPECIFICATIONS

Characteristics	AP100
Port size	½" (01), ¾" (02)
Max. operating pressure	1.0MPa
Relieving range	0.05~0.7MPa
Temperature range	5 - 60°C
Body material	Aluminium die cast

SYMBOLS



How To Order Series

SERIES AP 100

AP100

PORT SIZE

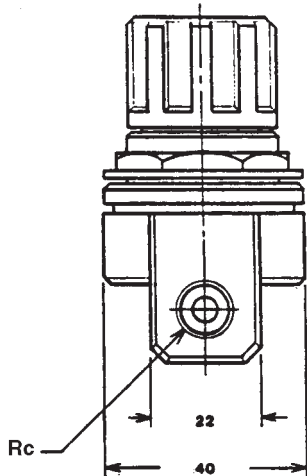
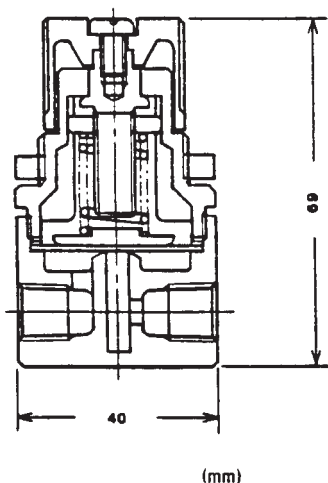
01 ... $\frac{1}{8}$ "
02 ... $\frac{1}{4}$ "

STOCKED PRODUCTS

FOR A LIST OF STOCKED PRODUCTS,
PLEASE SEE THE CURRENT SMC PRICE LIST

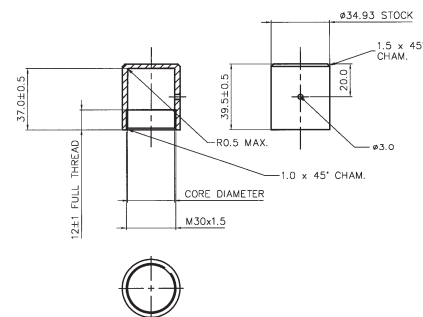


DIMENSIONS AP SERIES



DIMENSIONS

TAMPER PROOF CAP



ACCESSORIES SERIES AP100

BracketB21-1P
Tamper proof capUKA355-9

STOCKED PRODUCTS

FOR A LIST OF STOCKED PRODUCTS,
PLEASE SEE THE CURRENT SMC PRICE LIST



PRESSURE REGULATOR
PILOT ASSISTED

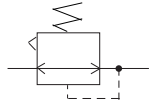
- ✓ Compact, lightweight construction
- ✓ High flow capacity
- ✓ Stable accurate pressure control
- ✓ Stocked for overnight delivery
- ✓ Remote pilot operation available



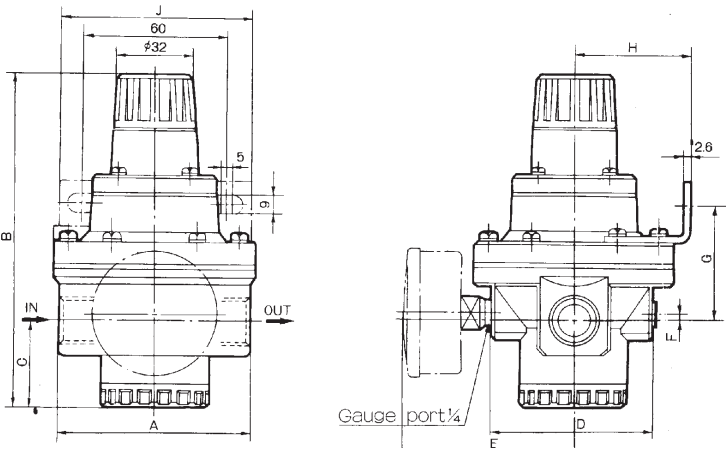
TECHNICAL
SPECIFICATIONS

Pressure Regulating Range (Bar)	0.5 ~ 8.5	AR425	AR625	AR825	AR925
Pipe Size		¼ ⅜ ½	¾ 1	1½	2
Flow Rate ℓ/min 7bar suply, 1 bar pressure drop		8,000	14,000	18,000	22,000

SYMBOLS



DIMENSIONS
PILOT OPERATED PRESSURE REGULATOR



Model	A	B	C	D	E	F	Bracket Dimensions			Bracket No.
							G	H	J	
AR425	80	141	37	67	71 (72)	3	50	48	80	B24
AR625	98	152	40	78	76.5 (77.5)	7	87	52	90	B25
AR825	126	217	75	110	92.5 (93.5)	5	-	-	-	-
AR925	160	242	89	140	107.5 (108.5)	10	-	-	-	-

HOW TO
ORDER
PILOT OPERATED PRESSURE REGULATOR

- AR425-02 (¼)
AR425-03 (⅜)
AR425-04 (½)
AR625-06 (¾)
AR625-10 (1)
AR825-14 (1½)
AR925-20 (2)
For remote pilot type add suffix (UKA002)

STOCKED PRODUCTS
FOR A LIST OF STOCKED PRODUCTS,
PLEASE SEE THE CURRENT SMC PRICE LIST

ACCESSORIES
PILOT OPERATED PRESSURE REGULATOR

- Mounting Bracket
B24 AR425
B25 AR625
Gauges: see Gauges in this section
of the catalogue

STOCKED PRODUCTS
FOR A LIST OF STOCKED PRODUCTS,
PLEASE SEE THE CURRENT SMC PRICE LIST

MINIATURE REGULATOR ARJ1020F

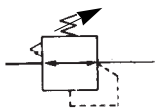
- ✓ Compact design
- ✓ Piston construction offers high frequency and long life
- ✓ One touch tube connection
- ✓ Panel mount



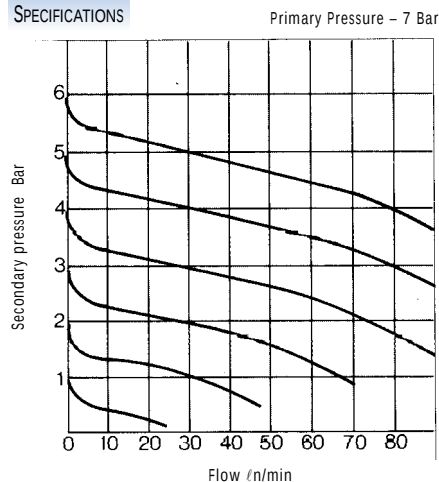
TECHNICAL SPECIFICATIONS

Model	ARJ1020F
Media	Air
Operating pressure	1~7 Bar
Max. pressure	8 Bar
Temperature	-5~+60°C
Piping	IN M5X0.8 male
	OUT Ø4, Ø6

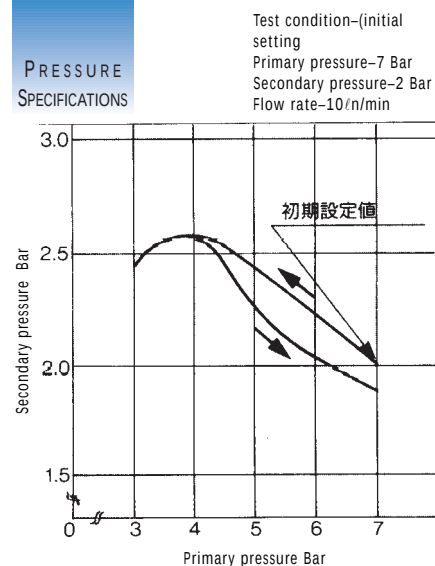
SYMBOLS



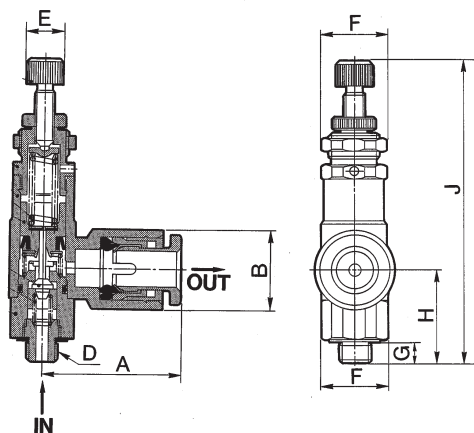
FLOW SPECIFICATIONS



PRESSURE SPECIFICATIONS



DIMENSIONS SERIES ARJ



Panel mount dimension



HOW TO ORDER

MINIATURE REGULATOR ARJ1020F

ARJ1020F — M5 —

- 04 ...4mm tube
- 06 ...6mm tube
- M5...M5X0.8

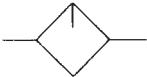
STOCKED PRODUCTS
FOR A LIST OF STOCKED PRODUCTS,
PLEASE SEE THE CURRENT SMC PRICE LIST

Model	A	B	C	D	E	F	G	H	J
ARJ1020F-M5-04	21	10.4	4	M5X0.8	6	10.6	3.5	15.5	50
ARJ1020F-M5-06	22	12.8	6						

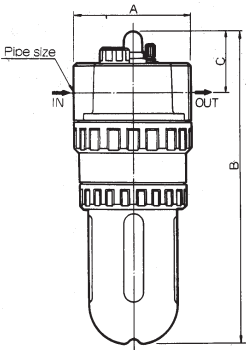


LUBRICATOR SERIES AL
OIL MIST TYPE

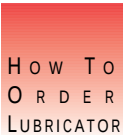
- ✓ Port Sizes 1½~2
- ✓ Atomises lubricant into fine particles at a uniform rate
- ✓ Drip rate easily monitored with sight dome
- ✓ Can be filled under pressure
- ✓ Bowl guard standard
- ✓ Damper prevents oil flooding
- ✓ Suitable for high air flow rate application with oil travel to approx. 5metres
- ✓ Stocked for overnight delivery
- ✓ Built-in oil check valve prevents oil from falling back into the bowl when air flow stops thus preventing dry running periods



Air Preparation



Model	A	B	C	Pipe Size
AL800	100	283	59	1½
AL900	100	288	63	2



AL800-14 (1½)
AL900-20 (2)

STOCKED PRODUCTS
FOR A LIST OF STOCKED PRODUCTS,
PLEASE SEE THE CURRENT SMC PRICE LIST



	AL800	AL900
Max. supply pressure	1.5MPa	
Max. operating pressure	1.0MPa	
Operating temp' range	-5~+60°C	
Recommended lubricant	Turbine oil #1 (ISO VG32)	
Bowl	Polycarbonate with metal bowl guard	
Pipe size	1½	2
Min. flow for oil drip	650 nl/min	1800 nl/min
Oil capacity (cm3)	500	500
Flow rate /n/min	12500	16500

Flow rate quoted at: 0.5MPa supply
0.03 MPa pressure drop

For centralised micromist lubrication...
to ring mains and large single branch lines, see Jet Lube Series ALDU
and Booster Lube Series ALB in this section of the catalogue.