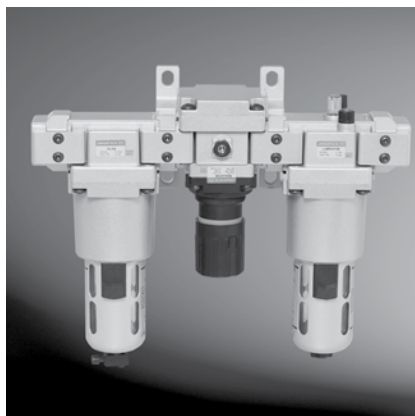




	MA13	MA14	MA15	MA17
FILTERS/ PARTICLE or MIST				
Port Size	1/8, 1/4" NPT	1/4, 3/8" NPT	1/4, 3/8, 1/2" NPT	3/4, 1" NPT
Filtration (micron) Particle/Mist	5μ, 25μ, 50μ / 0.01	5μ, 25μ, 50μ / 0.01	5μ, 25μ, 50μ / 0.01	5μ, 25μ, 50μ / 0.01
Maximum Supply Pressure	140 PSI (10 BAR)/ 280 PSI (20 BAR) with metal bowl	140 PSI (10 BAR)/ 280 PSI (20 BAR) with metal bowl	140 PSI (10 BAR)/ 280 PSI (20 BAR) with metal bowl	140 PSI (10 BAR)/ 280 PSI (20 BAR) with metal bowl
Temperature Range*	41°-120°F (140°F metal bowl) 5°-50° C (60°C metal bowl)	41°-120°F (140°F metal bowl) 5°-50° C (60°C metal bowl)	41°-120°F (140°F metal bowl) 5°-50° C (60°C metal bowl)	41°-120°F (140°F metal bowl) 5°-50° C (60°C metal bowl)
Drain (Mist- Manual only)	Manual / Semi-Auto	Manual / Semi-Auto / Auto	Manual / Semi-Auto / Auto	Manual / Semi-Auto / Auto
Bowl Capacity oz (ml)	0.3 oz (9 ml)	1.1 oz (32 ml) Standard, 1.2 oz (35ml) AD, 2.2 oz (64ml) metal	1.5 oz (44 ml) Standard, 2.2 oz (65ml) AD, 3.1 oz (90ml) metal	5.6 oz (165 ml)
Flow (based on 85 psi inlet pressure with 40 micron filter) Particle/Mist	10,15, 28 SCFM (425, 800 lpm)	27, 35, 78 SCFM (765, 2250 lpm)	29, 76, 60,123 SCFM (815, 2185, 3500 lpm)	77,175, 228 SCFM (5000, 6500 lpm)
REGULATORS				
Max. Supply Pressure	225 PSI (15.5 bar)	225 PSI (15.5 bar)	225 PSI (15.5 bar)	225 PSI (15.5 bar)
Flow Capacity at 100 psig (6.9 BAR)	11,21 SCFM (315, 600 lpm)	61,87 SCFM (1750, 2500 lpm)	80,118, 140 SCFM (2280, 4764, 4000 lpm)	175, 228 SCFM (5000, 6000 lpm)
Output Pressure Ranges	0-10 psig (0-0.69 BAR)	0-10 psig (0-0.69 BAR)	0-10 psig (0-0.69 BAR)	0-10 psig (0-0.69 BAR)
	3-30 psig (0-2.1 BAR)	3-30 psig (0-2.1 BAR)	3-30 psig (0-2.1 BAR)	3-30 psig (0-2.1 BAR)
	3-60 psig (0-4.1 BAR)	3-60 psig (0-4.1 BAR)	3-60 psig (0-4.1 BAR)	3-60 psig (0-4.1 BAR)
	7-140 psig (0-9.6 BAR)	7-140 psig (0-9.6 BAR)	7-140 psig (0-9.6 BAR)	7-140 psig (0-9.6 BAR)
Temperature Range	41°-140° F / 5°-60° C	41°-140° F / 5°-60° C	41°-140° F / 5°-60° C	41°-140° F / 5°-60° C
Port Size	1/8, 1/4" NPT	1/8, 3/8" NPT	1/8, 3/8, 1/2" NPT	3/4, 1" NPT
Mounting Options	Pipe, Panel or Bracket	Pipe, Panel or Bracket	Pipe, Panel or Bracket	Pipe, Panel or Bracket
FILTER-REGULATORS				
Port Size	1/8, 1/4" NPT	1/4, 3/8" NPT	1/4, 3/8, 1/2" NPT	3/4, 1" NPT
Filtration (micron)	5μ, 25μ, 40μ	5μ, 25μ, 40μ	5μ, 25μ, 40μ	5μ, 25μ, 40μ
Maximum Supply Pressure	140 PSI (10 BAR)/ 280 PSI (20 BAR) with metal bowl	140 PSI (10 BAR)/ 280 PSI (20 BAR) with metal bowl	140 PSI (10 BAR)/ 280 PSI (20 BAR) with metal bowl	140 PSI (10 BAR)/ 280 PSI (20 BAR) with metal bowl
Temperature Range *	41°-120°F (140°F metal bowl) 5°-50° C (60° C metal bowl)	41°-120°F (140°F metal bowl) 5°-50° C (60° C metal bowl)	41°-120°F (140°F metal bowl) 5°-50° C (60° C metal bowl)	41°-120°F (140°F metal bowl)
Drain	Manual / Semi-Auto	Manual / Semi-Auto / Auto	Manual / Semi-Auto / Auto	Manual / Semi-Auto / Auto
Bowl Capacity oz (ml)	0.3 oz (9 ml)	1.1 oz (32 ml) Standard, 1.2 oz (35ml) AD, 2.2 oz (64ml) metal	2.2 oz (65ml) AD, 3.1 oz (90ml) metal	5.6 oz (165 ml)
Output Pressure Ranges	0-10 psig (0-0.69 BAR)	0-10 psig (0-0.69 BAR)	0-10 psig (0-0.69 BAR)	0-10 psig (0-0.69 BAR)
	3-30 psig (0-2.1 BAR)	3-30 psig (0-2.1 BAR)	3-30 psig (0-2.1 BAR)	3-30 psig (0-2.1 BAR)
	3-60 psig (0-4.1 BAR)	3-60 psig (0-4.1 BAR)	3-60 psig (0-4.1 BAR)	3-60 psig (0-4.1 BAR)
	7-140 psig (0-9.6 BAR)	7-140 psig (0-9.6 BAR)	7-140 psig (0-9.6 BAR)	7-140 psig (0-9.6 BAR)
Flow (based on 100 psi inlet pressure with 40 micron filter)	8.8, 19.3 SCFM (250, 550 lpm)	25, 63 SCFM (725, 1800 lpm)	32, 81, 105 SCFM (915, 2300, 3000 lpm)	210 SCFM (6000 lpm)/ 228SCFM (6800 lpm) STD, metal/ 212 SCFM(6000 lpm)/ 214 SCFM(6000 lpm) AUTO
LUBRICATORS				
Port Size	1/8, 1/4" NPT	1/4, 3/8" NPT	1/4, 3/8, 1/2" NPT	3/4, 1" NPT
Lubrication	Mist	Mist	Mist	Mist
Maximum Supply Pressure	140 PSI (10 BAR) 280 PSI (20 BAR) with metal bowl	140 PSI (10 BAR) 280 PSI (20 BAR) with metal bowl	140 PSI (10 BAR) 280 PSI (20 BAR) with metal bowl	140 PSI (10 BAR) 280 PSI (20 BAR) with metal bowl
Temperature Range *	41°-120°F (140°F metal bowl) 5°-50° C (60° C metal bowl)	41°-120°F (140°F metal bowl) 5°-50° C (60° C metal bowl)	41°-120°F (140°F metal bowl) 5°-50° C (60° C metal bowl)	41°-120°F (140°F metal bowl) 5°-50° C (60° C metal bowl)
Bowl Capacity oz (ml)	0.68 oz (20ml)	2.0 oz (57ml) Standard/ 3.4 oz (100 ml) METAL	5.1 oz(152ml) STD/ 6.8 oz(200 ml) METAL	6.8 oz (200 ml)
Flow (based on 85 psi inlet pressure)	16 SCFM (455 lpm)/ 47 SCFM(1350 lpm)	47 SCFM (1330 lpm)/ 105 SCFM(3000 lpm)	47(1350 ml)/ 115 SCFM(3270 lpm) 198 SCFM(3270 lpm)	254 SCFM (7200 lpm)/ 318 SCFM(9000 lpm)

* Metal Bowls have a higher temp. range; (41°-140° F / 5°-60° C)

Frl's



FRL ORDERING INFORMATION

FRL FEATURES

Modular design for service & interchangeability
Small package size and light weight construction
Competitively priced

Filters

MA13 has polycarbonate bowl with metal guard; threaded type
MA14, MA15, MA17 have polycarbonate bowl with metal guard, bayonet type

stock elements

5, 25 or 50 micron
Manual, semi-auto or auto drain available

regulators

Diaphragm operated balanced poppet design, relieving type
Superior droop performance
Panel, pipe, or bracket mounting
Metal body, polycarbonate bonnet and knob
Non-rising adjustment knob with push-pull lock ring feature

Filter regulators

Aluminum and polycarbonate construction
Manual, semi-auto or autodrain available
Polycarbonate bowl with metal guard
Non-rising adjustment knob with push-pull lock ring feature
For panel or bracket mounting

lubricators

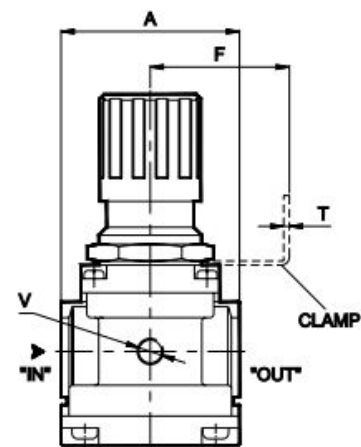
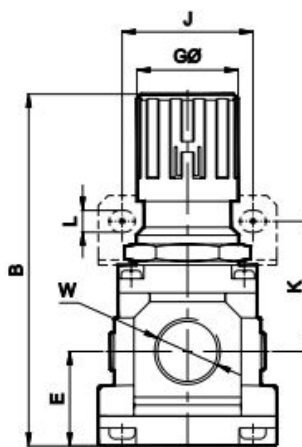
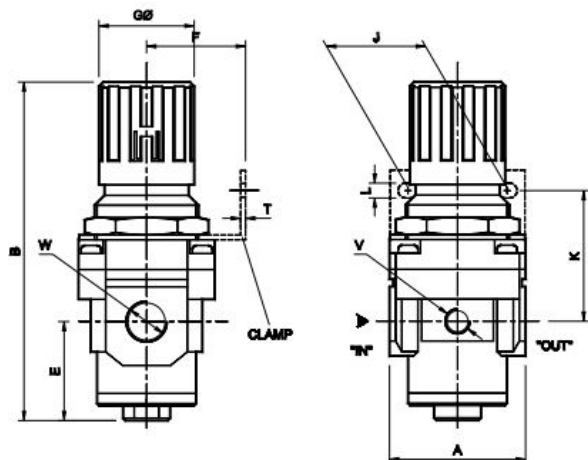
Polycarbonate bowl with metal guard; top plug permits filling without removing bowl or shutting off air
Adjust drip rate by hand, using needle adjusting knob

		XX	XXX	XX	X	X	X	X
Size								
1/8", 1/4" NPT (11, 21 SCFM)	MA13							
1/4", 3/8" NPT (61, 88 SCFM)	MA14							
1/4", 3/8", 1/2" NPT (80, 167, 140 SCFM)	MA15							
3/4", 1" NPT (175, 228 SCFM)	MA17							
Part Option								
Particulate Filter	F							
Coalescing Filter (not available in 1/8")	CF							
Regulator	R							
Lubricator	L							
Filter Regulator	FR							
Filter Regulator PLUS Lubricator Filter	FRP							
Regulator Lubricator	FRL							
Port Size								
1/8" NPT	1N							
1/4" NPT	2N							
3/8" NPT	3N							
1/2" NPT	4N							
3/4" NPT	6N							
1" NPT	8N							
Regulator Pressure Ranges								
0-10 psi	A							
0-30 psi	L							
0-60 psi	M							
0-140 psi	H							
Omit for Filters and Lubricators								
Filters Options								
Particulate								
40 Micron Filter, Standard	C							
25 Micron Filter	B							
5 Micron Filter	F							
Coalescing								
0.1 Micron Filter	E							
0.01 Micron Filter, Standard	V							
Omit for Regulators and Lubricators								
Drain								
Manual Drain, Standard	M							
Semi-Automatic Drain	S							
Auto Drain (NOT AVAILABLE ON MA13)	A							
Omit for Regulators and Lubricators								
Bowl Options								
Metal Bowl, NO Level Indicator	M							
Metal Bowl with Level Indicator	L							

MA Series – Regulator

Model MA13R, MA14R, MA15R

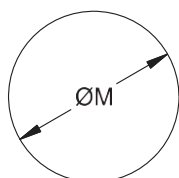
Model MA17R



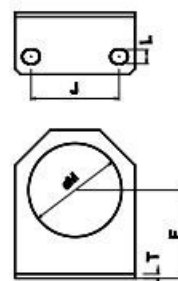
Model - Inch (mm)

	W	V (npt)	A (sq)	B	E	F	GØ	J	K	L	T	OM
MA13	1/8" 1/4"	1/8"	1.57 (40)	3.18 (81)	0.51 (13)	1.18 (30)	1.10 (28)	1.10 (28)	1.77 (45)	0.21 (5)	0.08 (2)	1.22 (31)
MA14	1/4" 3/8"	1/8"	2.16 (55)	5.31 (135)	1.57 (40)	1.57 (40)	1.57 (40)	1.57 (40)	2.09 (53)	0.26 (6)	0.08 (2)	1.69 (43)
MA15	1/4", 3/8", 1/2"	1/8"	2.75 (70)	6.49 (165)	1.57 (40)	1.97 (50)	2.00 (51)	2.16 (55)	2.44 (62)	0.36 (9)	0.08 (2)	2.09 (53)
MA17	3/4"	1/8"	3.54 (90)	6.96 (177)	1.87 (47)	2.76 (70)	2.00 (51)	2.60 (66)	2.56 (65)	0.43 (11)	0.20 (5)	2.09 (53)
MA17	1"	1/8"	3.54 (90)	6.96 (177)	1.87 (47)	2.76 (70)	2.00 (51)	2.60 (66)	2.56 (65)	0.43 (11)	0.20 (5)	2.09 (53)

Panel cut hole dia



Clamp for Regulator

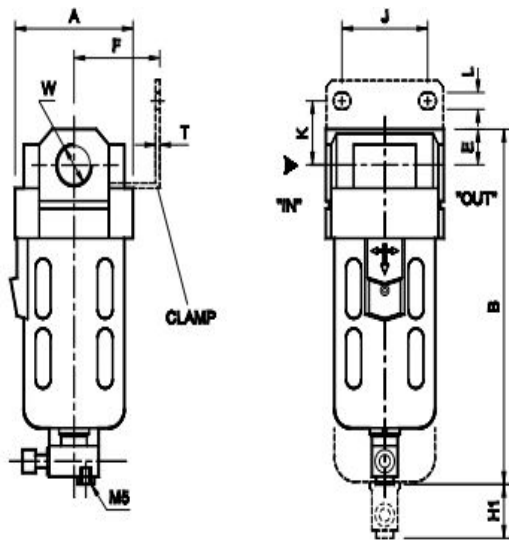


Model - Inch (mm)

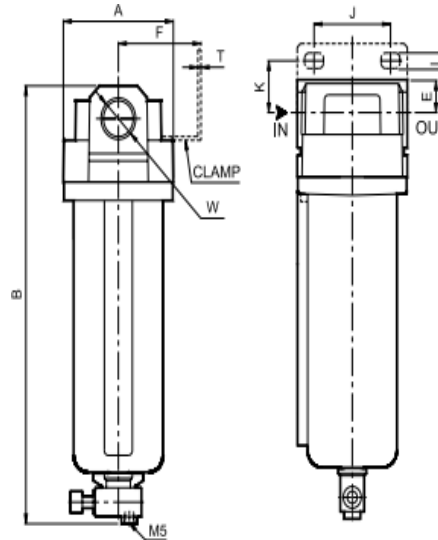
	Part No.	OM	F	L	J	T
MA13	MA13RB	1.20 (31)	1.81 (30)	0.22 (5)	1.10 (28)	0.08 (2)
MA14	MA14RB	1.67 (42)	1.58 (40)	0.26 (6)	1.58 (40)	0.08 (2)
MA15	MA15RB	2.07 (53)	1.97 (50)	0.34 (8)	2.17 (55)	0.08 (2)
MA17	MA17RB	2.07 (53)	2.75 (70)	0.43 (11)	2.60 (66)	0.20 (5)

MA Series – Filter

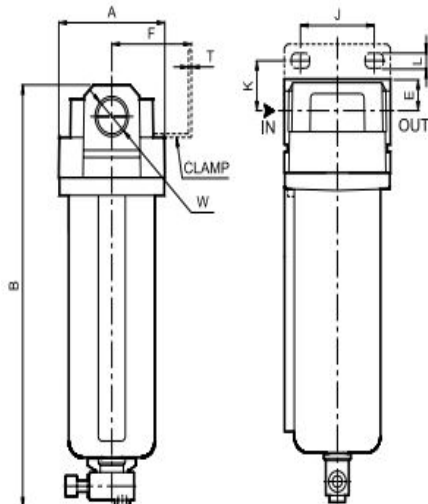
MA13F, MA14F, MA15F, MA17F
Manual drain



MA14F, MA15F, MA17F
Auto drain



MA13F, MA14F, MA15F, MA17F
Metal bowl



B dimension

		Manual drain	Auto drain	Metal bowl
MA13	1/8" 1/4"	4.45 (113)	N/A	4.53 (115)
MA14	1/4" 3/8"	5.51 (140)	7.60 (193)	7.40 (188)
MA15	1/4", 3/8", 1/2"	6.77 (172)	9.06 (230)	8.82 (224)
MA17	3/4"	10.24 (260)	10.24 (260)	10.43 (265)
MA17	1"	10.24 (260)	10.24 (260)	10.43 (265)

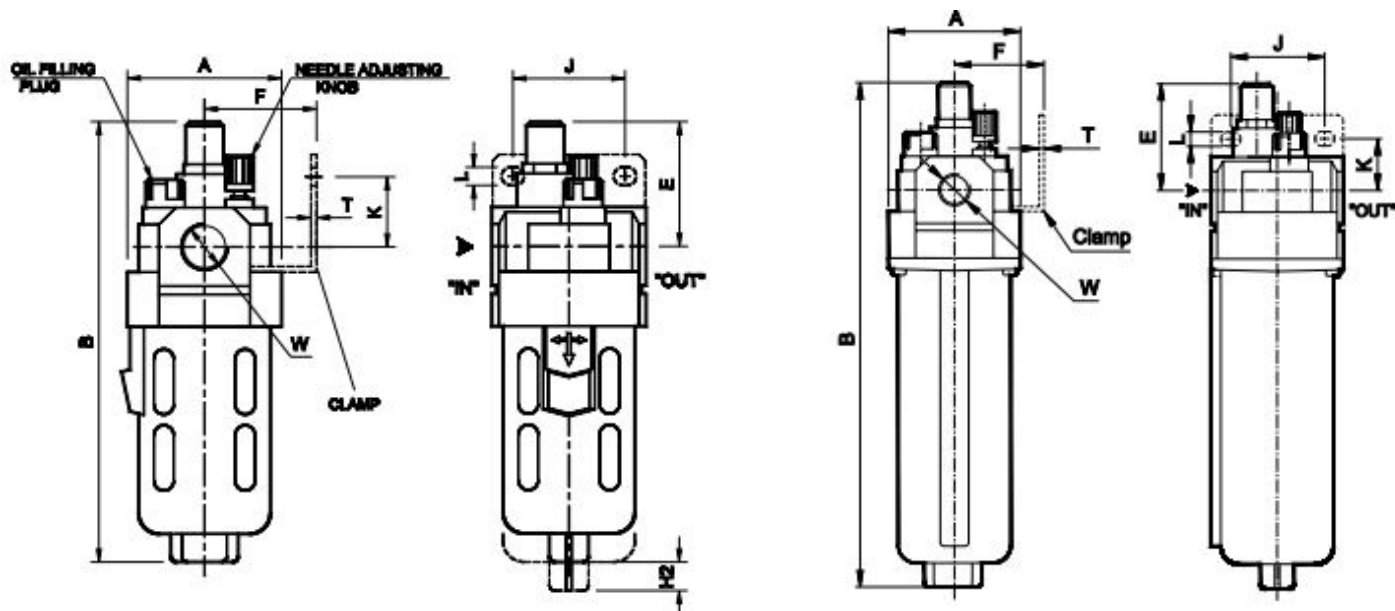
Model - Inch (mm)

		A (sq)	E	F	J	K	L	T	H1
MA13	1/8" 1/4"	1.57 (40)	0.43 (11)	1.18 (30)	1.10 (28)	0.59 (15)	0.21 (5)	0.08 (2)	1.97 (50)
MA14	1/4" 3/8"	2.16 (55)	0.55 (14)	1.57 (40)	1.57 (40)	0.98 (25)	0.26 (6)	0.08 (2)	2.16 (55)
MA15	1/4", 3/8", 1/2"	2.75 (70)	0.71 (18)	1.97 (50)	2.16 (55)	0.98 (25)	0.36 (9)	0.08 (2)	3.15 (80)
MA17	3/4"	3.54 (90)	0.95 (24)	2.76 (70)	2.60 (66)	1.38 (35)	0.43 (11)	0.20 (5)	3.15 (80)
MA17	1"	3.54 (90)	0.95 (24)	2.76 (70)	2.60 (66)	1.38 (35)	0.43 (11)	0.20 (5)	3.15 (80)

MA Series – Lubricator

MA13L, MA14L, MA15L, MA17L
Standard

MA13L, MA14L, MA15L, MA17L
Metal bowl



B dimension

		Standard	Metal bowl
MA13	1/8" 1/4"	5.32 (135)	5.32 (135)
MA14	1/4" 3/8"	6.18 (157)	6.07 (205)
MA15	1/4", 3/8", 1/2"	7.48 (190)	9.45 (240)
MA17	3/4"	10.75 (273)	10.95 (279)
MA17	1"	10.75 (273)	10.95 (279)

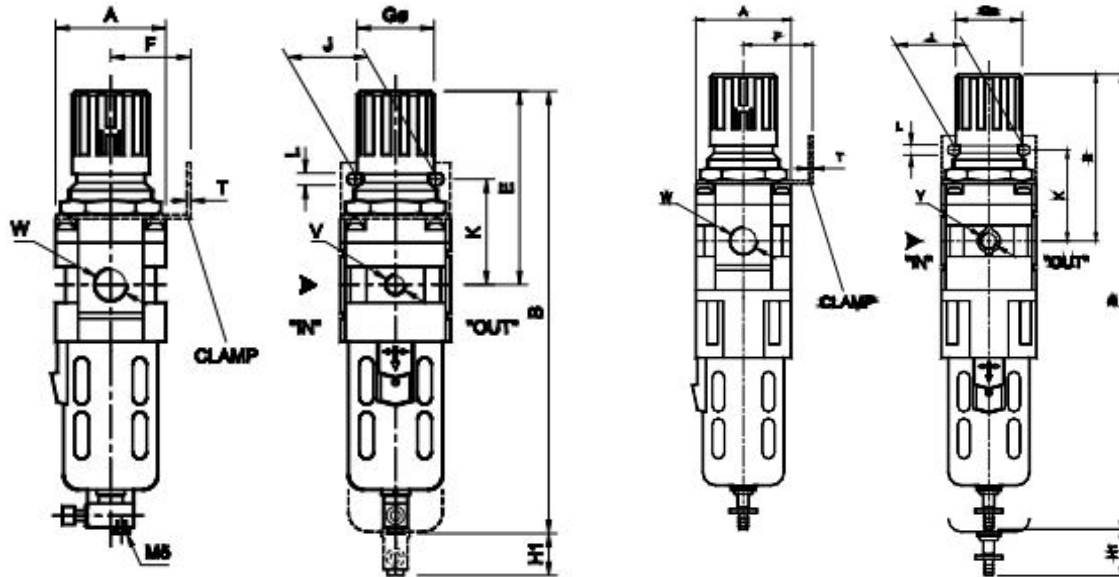
Model - Inch (mm)

		A (sq)	E	F	J	K	L	T
MA13	1/8" 1/4"	1.57 (40)	1.65 (42)	1.18 (30)	1.10 (28)	0.59 (15)	0.21 (5)	0.08 (2)
MA14	1/4" 3/8"	2.16 (55)	1.73 (44)	1.57 (40)	1.57 (40)	0.98 (25)	0.26 (6)	0.08 (2)
MA15	1/4", 3/8", 1/2"	2.75 (70)	1.81 (46)	1.97 (50)	2.16 (55)	0.98 (25)	0.36 (9)	0.08 (2)
MA17	3/4"	3.54 (90)	1.85 (47)	2.76 (70)	2.60 (66)	1.38 (35)	0.43 (11)	0.20 (5)
MA17	1"	3.54 (90)	1.85 (47)	2.76 (70)	2.60 (66)	1.38 (35)	0.43 (11)	0.20 (5)

MA Series – Filter/Regulator

MA13FR, MA14FR, MA15FR, MA17FR
Manual drain

MA14FR, MA15FR, MA17FR
Auto drain



MA13F, MA14F, MA15F, MA17F
Metal bowl

Model - Inch (mm)

	W	V (npt)	A (sq)	E	F	G0	J	K	L	T
MA13	1/8" 1/4"	1/8"	1.57 (40)	2.68 (68)	1.18 (30)	1.10 (28)	1.10 (28)	1.77 (45)	0.21 (5)	0.08 (2)
MA14	1/4" 3/8"	1/8"	2.16 (55)	3.74 (95)	1.57 (40)	1.57 (40)	1.57 (40)	2.09 (53)	0.26 (6)	0.08 (2)
MA15	1/4", 3/8", 1/2"	1/8"	2.75 (70)	4.92 (125)	1.97 (50)	2.00 (51)	2.16 (55)	2.44 (62)	0.36 (9)	0.08 (2)
MA17	3/4"	1/8"	3.54 (90)	5.12 (130)	2.76 (70)	2.00 (51)	2.60 (66)	2.56 (65)	0.43 (11)	0.20 (5)
MA17	1"	1/8"	3.54 (90)	5.12 (130)	2.76 (70)	2.00 (51)	2.60 (66)	2.56 (65)	0.43 (11)	0.20 (5)

B dimension

	Manual drain	Auto drain	Metal bowl
MA13	1/8" 1/4"	6.69 (170)	N/A
MA14	1/4" 3/8"	8.66 (220)	10.43 (265)
MA15	1/4", 3/8", 1/2"	11.02 (280)	12.99 (330)
MA17	3/4"	14.57 (370)	14.61 (371)
MA17	1"	14.57 (370)	14.61 (371)

H1 dimension

	Manual drain	Auto drain	Metal bowl
MA13	1/8" 1/4"	1.97 (50)	N/A
MA14	1/4" 3/8"	2.17 (55)	2.36 (60)
MA15	1/4", 3/8", 1/2"	3.15 (80)	3.35 (85)
MA17	3/4"	3.15 (80)	3.35 (85)
MA17	1"	3.15 (80)	3.35 (85)

MA Series – Accessories

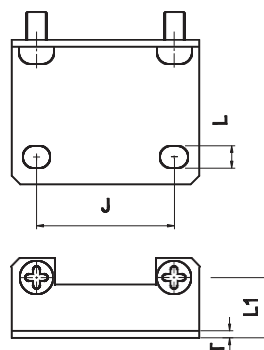
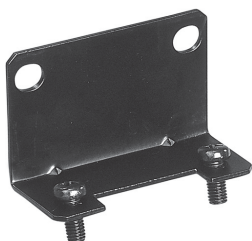
	INLINE SLIDE VALVES			
Port Size	1/4"	3/8"	1/2"	3/4"
Flow Rate (scfm)	36	99	159	353
Max Working (psi)	145	145	145	145
Part Number	MA132NIV	MA143NIV	MA154NIV	MA176NIV



	INLINE BACK CHECK		
Port Size	1/4"	3/8"	1/2"
Flow Rate (scfm)	35	99	170
Max Working (psi)	145	145	145
Part Number	MA132CV	MA143CV	MA154CV



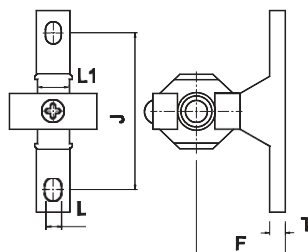
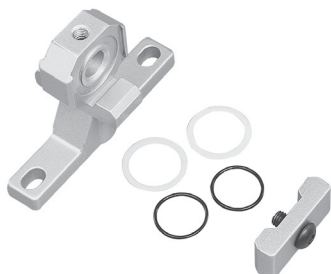
Clamp for filter, Lubricator



Model - Inch (mm)

	Part No.	J	L	L1	T
MA13	MA13FB	1.10 (28)	0.22 (5)	0.56 (14)	0.08 (2)
MA14	MA14FB	1.58 (40)	0.26 (6)	0.70 (18)	0.08 (2)
MA15	MA15FB	2.17 (55)	0.34 (8)	0.90 (22)	0.08 (2)
MA17	MA17FB	2.60 (66)	0.43 (11)	1.30 (33)	0.20 (5)

Wall Mounting Bracket



Model - Inch (mm)

	Part No.	J	L	L1	T
MA13	A2W01	1.97 (50)	0.28 (7)	0.47 (12)	0.28 (7)
MA14	A2W02	2.76 (70)	0.28 (7)	0.55 (14)	0.28 (7)
MA15	A2W03	3.54 (90)	0.35 (9)	0.63 (16)	0.35 (9)
MA17	A2W04	3.94 (100)	0.47 (12)	0.63 (16)	0.39 (10)