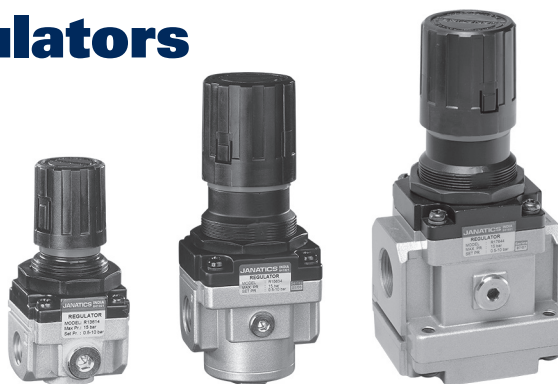


Control Panel Regulators

- Modular design for service & interchangeability
- Non-rising adjustment knob with push-pull lock ring feature
- Small package size and light weight construction
- Competitively priced



MA13

MA14

MA15

MA17

Filters

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, 50μ	5μ, 25μ, 50μ	5μ, 25μ, 50μ	5μ, 25μ, 50μ
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	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)	15, 28 SCFM (425, 800 lpm)	27, 78 SCFM (765, 2250 lpm)	29, 76, 123 SCFM (815, 2185, 3500 lpm)	175, 228 (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

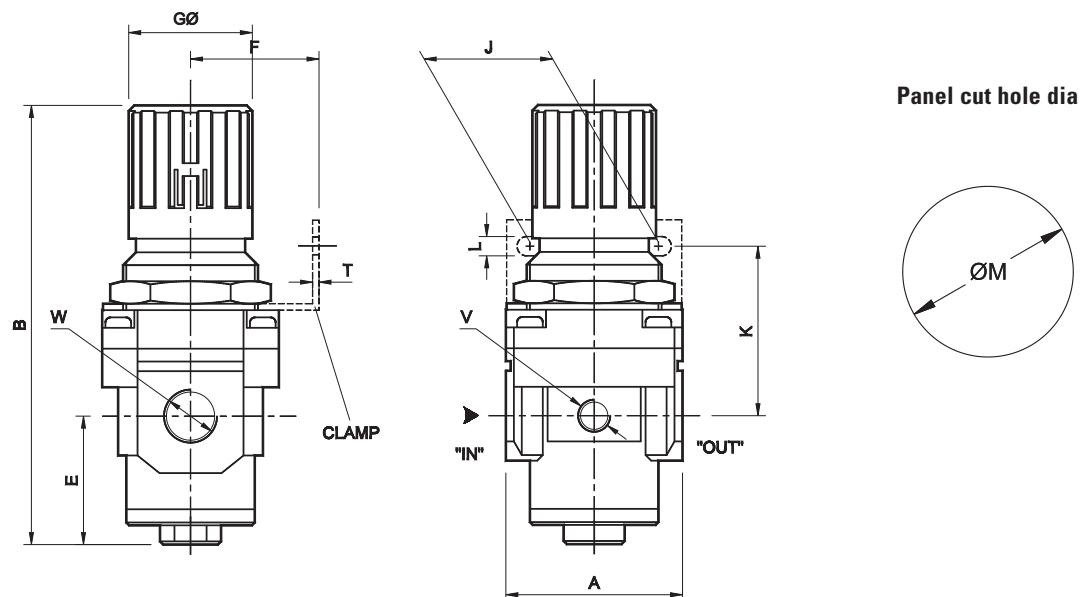
Filter-Regulators

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)/ 228 SCFM (6800 lpm) STD, metal/ 212 SCFM(6000 lpm)/ 214 SCFM(6000 lpm) AUTO

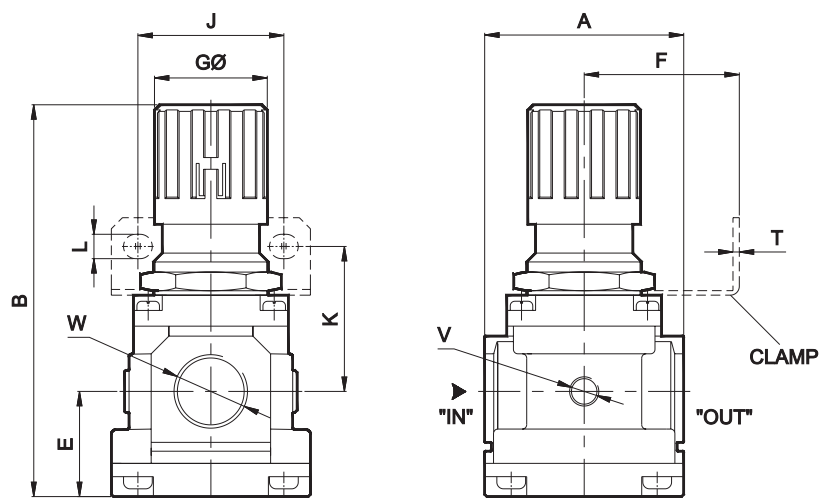
* Metal Bowls have a higher temp. range; (41°–140° F / 5°–60° C)

Regulator - Series MA

Model MA13R, MA14R, MA15R



Model MA17R

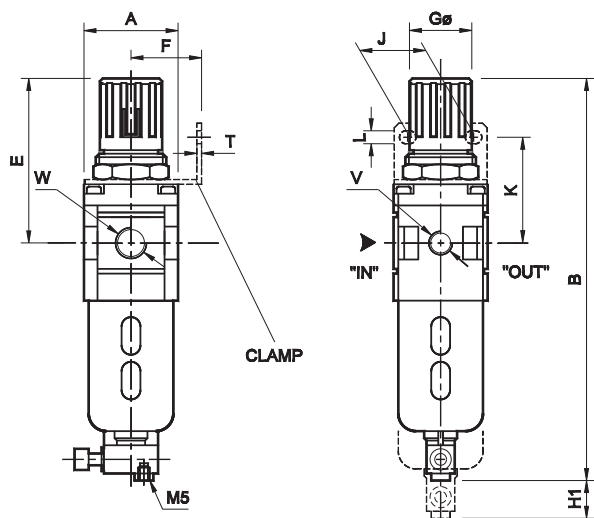


MODEL	W	V		A	B	E	F	GØ	J	K	L	T	ØM
MA13	NPT 1/8 (G1/8) NPT 1/4 (G1/4)	NPT 1/8 (G1/8)	Inch (mm)	SQ 1.575 (40)	3.189 (81)	0.512 (13)	1.181 (30)	1.102 (28)	1.102 (28)	1.771 (45)	0.216 (5.5)	0.079 (2)	1.22 (31)
MA14	NPT 1/4 (G1/4) NPT 3/8 (G3/8)	NPT 1/8 (G1/8)	Inch (mm)	SQ 2.165 (55)	5.315 (135)	1.575 (40)	1.574 (40)	1.574 (40)	1.574 (40)	2.087 (53)	0.256 (6.5)	0.079 (2)	1.693 (43)
MA15	NPT 1/4 (G1/4) NPT 3/8 (G3/8) NPT 1/2 (G1/2)	NPT 1/8 (G1/8)	Inch (mm)	SQ 2.756 (70)	6.496 (165)	1.575 (40)	1.968 (50)	2.008 (51)	2.165 (55)	2.441 (62)	0.335 (8.5)	0.079 (2)	2.087 (53)
MA17	NPT 3/4 (G3/4)	NPT 1/4 (G1/4)	Inch (mm)	SQ 3.543 (90)	6.969 (177)	1.87 (47.5)	2.756 (70)	2.008 (51)	2.598 (66)	2.560 (65)	0.433 (11)	0.197 (5)	2.087 (53)
MA17	NPT 1 (G1)	NPT 1/4 (G1/4)	Inch (mm)	SQ 3.543 (90)	6.969 (177)	1.87 (47.5)	2.756 (70)	2.008 (51)	2.598 (66)	2.560 (65)	0.433 (11)	0.197 (5)	2.087 (53)

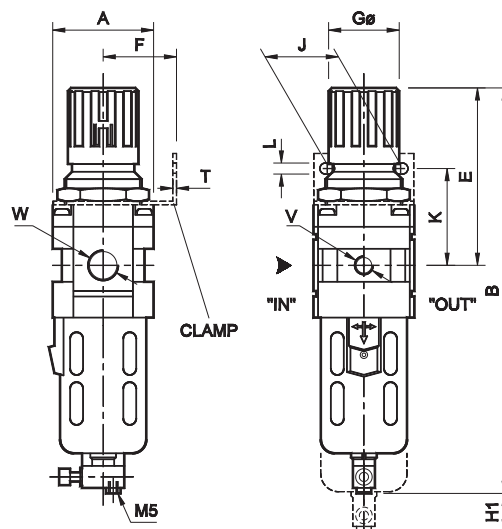
For Details of Clamp see optional accessories

Filter Regulator Combination - Series MA

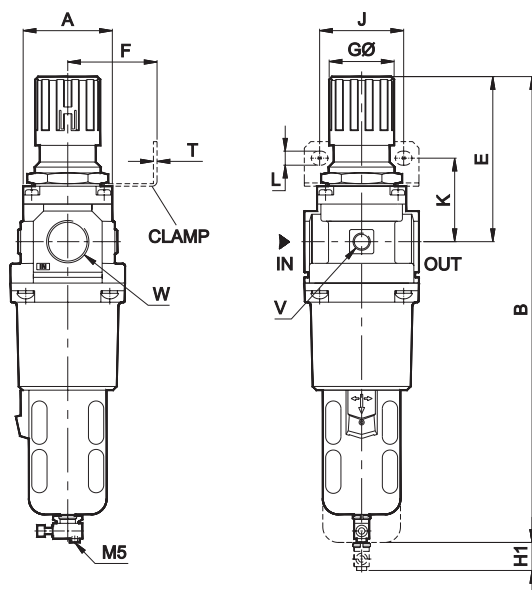
Model MA13FR



Model MA14FR, MA15FR



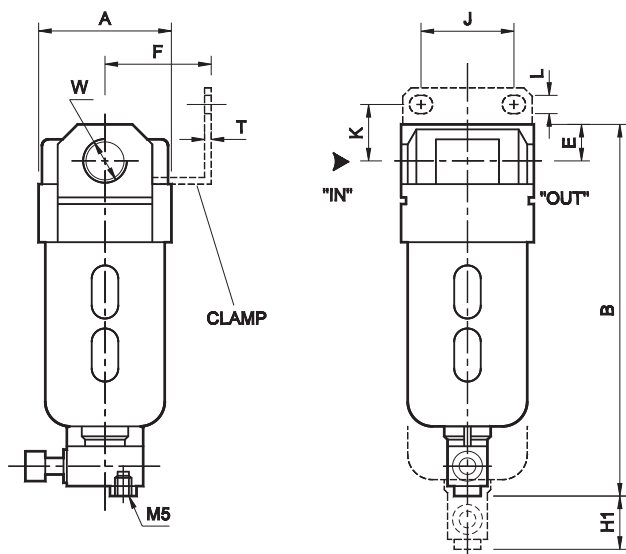
Model MA17FR



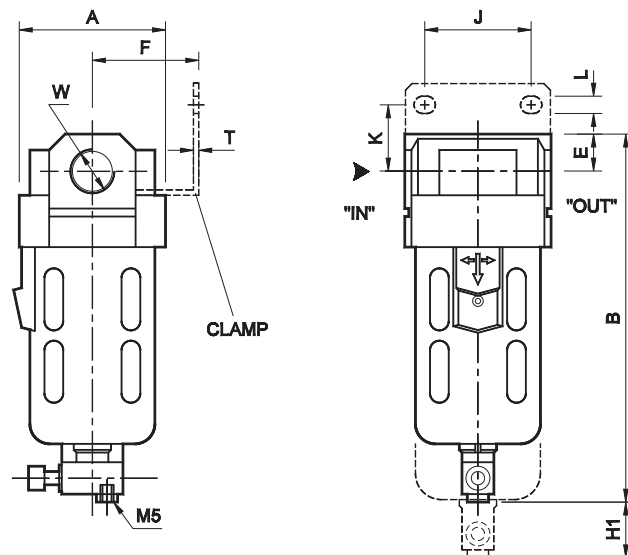
MODEL	W	V		A	B	E	F	K	GØ	J	L	T	H1
MA13	NPT 1/8 (G1/8) NPT 1/4 (G1/4)	NPT 1/8 (G1/8)	Inch (mm)	SQ 1.575 (40)	6.69 (170)	2.68 (68)	1.181 (30)	1.771 (45)	1.102 (28)	1.102 (28)	0.216 (5.5)	0.079 (2)	1.968 (50)
MA14	NPT 1/4 (G1/4) NPT 3/8 (G3/8)	NPT 1/8 (G1/8)	Inch (mm)	SQ 2.165 (55)	8.66 (220)	3.74 (95)	1.574 (40)	2.087 (53)	1.574 (40)	1.574 (40)	0.256 (6.5)	0.079 (2)	2.165 (55)
MA15	NPT 1/4 (G1/4) NPT 3/8 (G3/8) NPT 1/2 (G1/2)	NPT 1/8 (G1/8)	Inch (mm)	SQ 2.756 (70)	11.02 (280)	4.92 (125)	1.968 (50)	2.441 (62)	2.008 (51)	2.165 (55)	0.335 (8.5)	0.079 (2)	3.15 (80)
MA17	NPT 3/4 (G3/4)	NPT 1/4 (G1/4)	Inch (mm)	SQ 3.543 (90)	14.57 (370)	5.12 (130)	2.756 (70)	2.560 (65)	2.008 (51)	2.598 (66)	0.433 (11)	0.197 (5)	3.15 (80)
MA17	NPT 1 (G1)	NPT 1/4 (G1/4)	Inch (mm)	SQ 3.543 (90)	14.57 (370)	5.12 (130)	2.756 (70)	2.560 (65)	2.008 (51)	2.598 (66)	0.433 (11)	0.197 (5)	3.15 (80)

For Details of Clamp see optional accessories

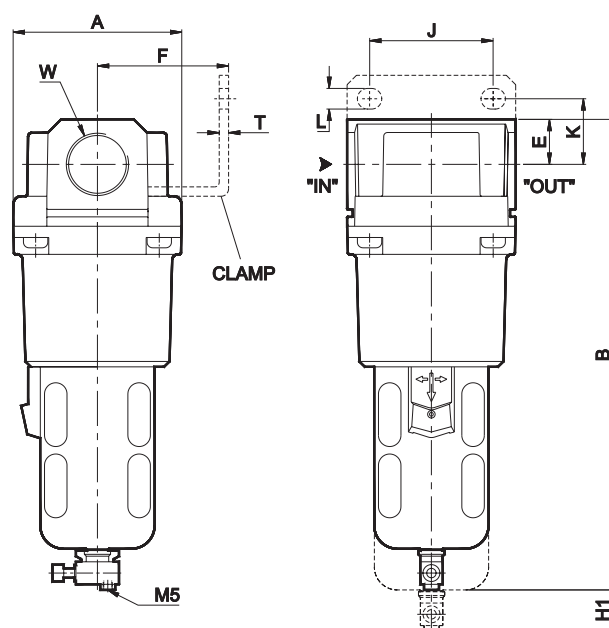
Model MA13F



Model MA14F, MA15F



Model MA17F

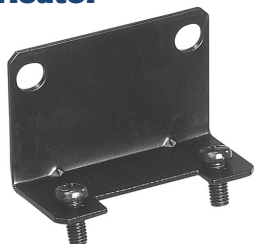


MODEL	W		A	B	E	K	F	J	L	T	H1
MA13	NPT 1/8 (G1/8) NPT 1/4 (G1/4)	Inch (mm)	SQ 1.575 (40)	4.449 (113)	0.43 (11)	0.59 (15)	1.181 (30)	1.102 (28)	0.216 (5.5)	0.079 (2)	1.968 (50)
MA14	NPT 1/4 (G1/4) NPT 3/8 (G3/8)	Inch (mm)	SQ 2.165 (55)	5.512 (140)	0.55 (14)	0.98 (25)	1.575 (40)	1.575 (40)	0.256 (6.5)	0.079 (2)	2.165 (55)
MA15	NPT 1/4 (G1/4) NPT 3/8 (G3/8) NPT 1/2 (G1/2)	Inch (mm)	SQ 2.756 (70)	6.772 (172)	0.71 (18)	0.98 (25)	1.968 (50)	2.165 (55)	0.335 (8.5)	0.079 (2)	3.15 (80)
MA17	NPT 3/4 (G3/4)	Inch (mm)	SQ 3.543 (90)	10.236 (260)	0.95 (24)	1.38 (35)	2.756 (70)	2.598 (66)	0.433 (11)	0.196 (5)	3.15 (80)
MA17	NPT 1 (G1)	Inch (mm)	SQ 3.543 (90)	10.236 (260)	0.95 (24)	1.38 (35)	2.756 (70)	2.598 (66)	0.433 (11)	0.196 (5)	3.15 (80)

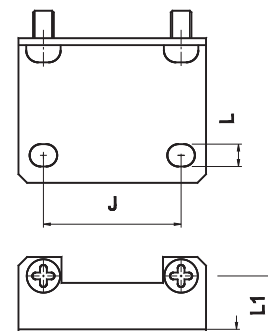
For Details of Clamp see optional accessories

Accessories - Clamps

Clamp for filter, Lubricator



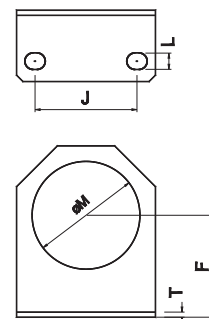
MODEL		J	L	L1	T	ORDERING NO.
MA13	Inch	1.102	0.216	0.551	0.079	MA13FB
	mm	28	5.5	14	2	
MA14	Inch	1.575	0.256	0.69	0.079	MA14FB
	mm	40	6.5	17.5	2	
MA15	Inch	2.165	0.335	0.87	0.079	MA15FB
	mm	55	8.5	22	2	
MA17	Inch	2.60	0.43	1.30	0.20	MA17FB
	mm	66	11	33	5	



Clamp for Regulator

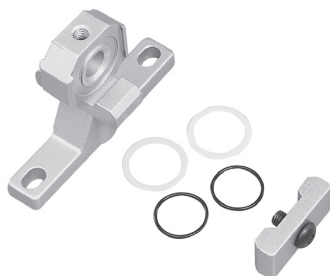


MODEL		ØM	F	L	J	T	ORDERING NO.
MA13	Inch	1.2	1.181	0.216	1.102	0.079	MA13RB
	mm	30.5	30	5.5	28	2	
MA14	Inch	1.673	1.575	0.256	1.575	0.079	MA14RB
	mm	42.5	40	6.5	40	2	
MA15	Inch	2.067	1.968	0.335	2.165	0.079	MA15RB
	mm	52.5	50	8.5	55	2	
MA17	Inch	2.067	2.756	0.433	2.598	0.197	MA17RB
	mm	52.5	70	11	66	5	

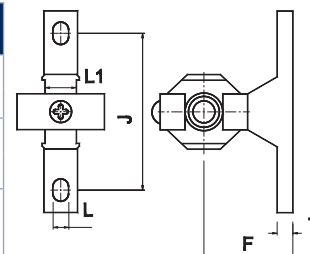


Accessories - for Modular Construction

Wall Mounting Bracket



MODEL		L1	J	L	F	T	
MA13	Inch	0.472	1.968	0.275	1.378	0.275	A2W01
	mm	12	50	7	36	7	
MA14	Inch	0.551	2.756	0.275	1.772	0.275	A2W02
	mm	14	70	7	45	7	
MA15	Inch	0.63	3.543	0.354	2.165	0.354	A2W03
	mm	16	90	9	55	9	
MA17	Inch	0.59	3.94	0.472	2.76	0.39	A2W04
	mm	15	100	12	70	10	



How to Order: Mention the ordering number required

REPLACEMENT FILTERS

Description	Part Number
MA13 5 Micron Filter Element	MA13FK05
MA13 25 Micron Filter Element	MA13FK25
MA13 50 Micron Filter Element	MA13FK50
MA14 5 Micron Filter Element	MA14FK05
MA14 25 Micron Filter Element	MA14FK25
MA14 50 Micron Filter Element	MA14FK50
MA15 5 Micron Filter Element	MA15FK05
MA15 25 Micron Filter Element	MA15FK25
MA15 50 Micron Filter Element	MA15FK50
MA17 5 Micron Filter Element	MA17FK05
MA17 25 Micron Filter Element	MA17FK25
MA17 50 Micron Filter Element	MA17FK50

P350 Series Stainless & Aluminum Filters

The P350 series filters are high pressure units usually not for use directly on the pilot, but rather utilized on the tap out from a high pressure line. The sooner the medium is cleaned before moving toward the pilot operation, the less chance of debris and moisture clogging input lines and filters upstream of the high pressure supply.

The maximum inlet pressure for the Stainless version is 5,000 PSIG while the Aluminum version is 2,150 PSIG.

The P350 filter can be found in Tab 5.

