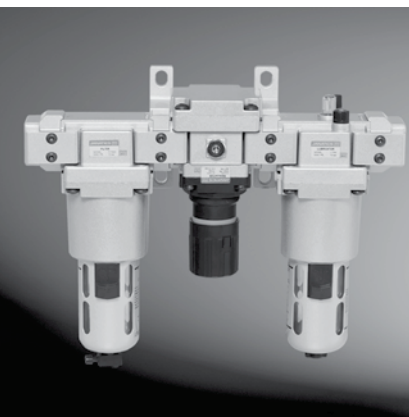


FRL's



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

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

DESCRIPTION	
Filter	F
Regulator	R
Lubricator	L
Filter Regulator	FR
Filter Regulator PLUS Lubricator	FRP
Filter, Regulator, Lubricator	FRL

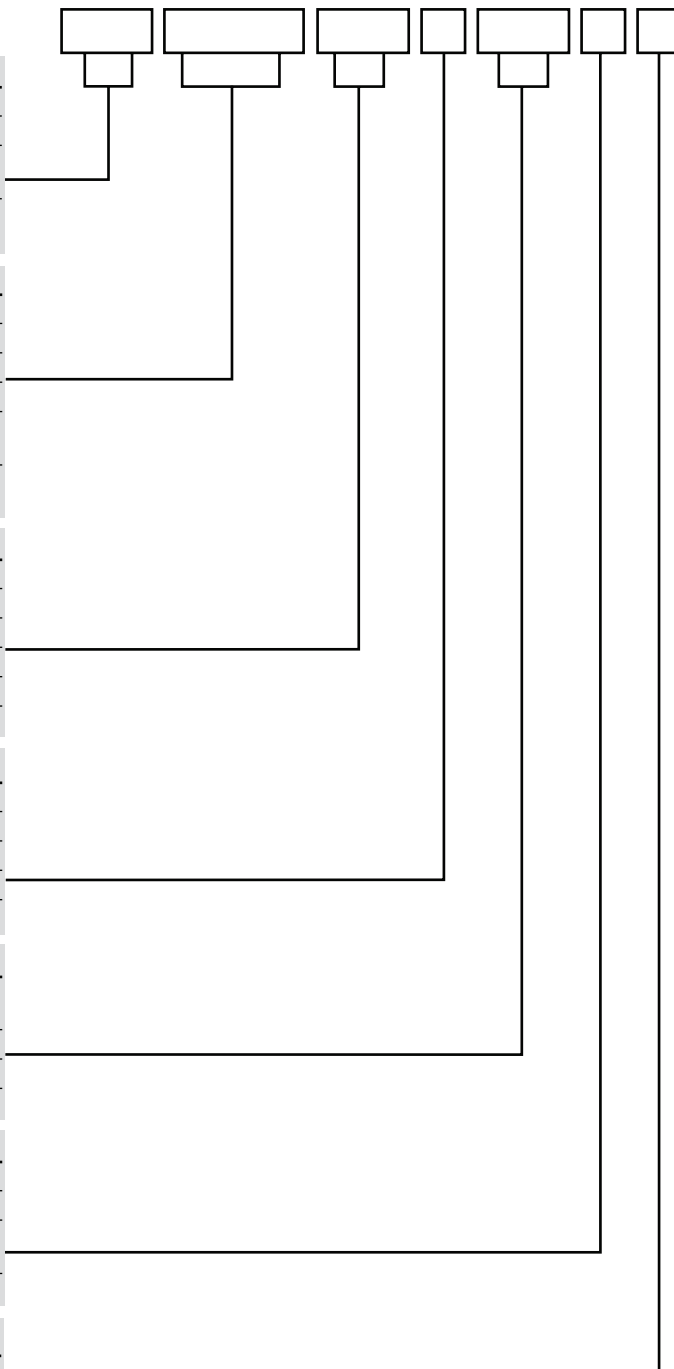
PORT SIZE	
1/8" NPT	1N
1/4" NPT	2N
3/8" NPT	3N
1/2" NPT	4N
3/4" NPT	6N
1" NPT	8N

PRESSURE RANGES	
0-10 psi	A
3-30 psi	L
3-60 psi	M
7-140 psi	H
Omit for Filters & Lubricators	

FILTERS	
50 Micron Filter, Standard	C
25 Micron Filter	B
5 Micron Filter	F
Omit for Regulators & Lubricators	

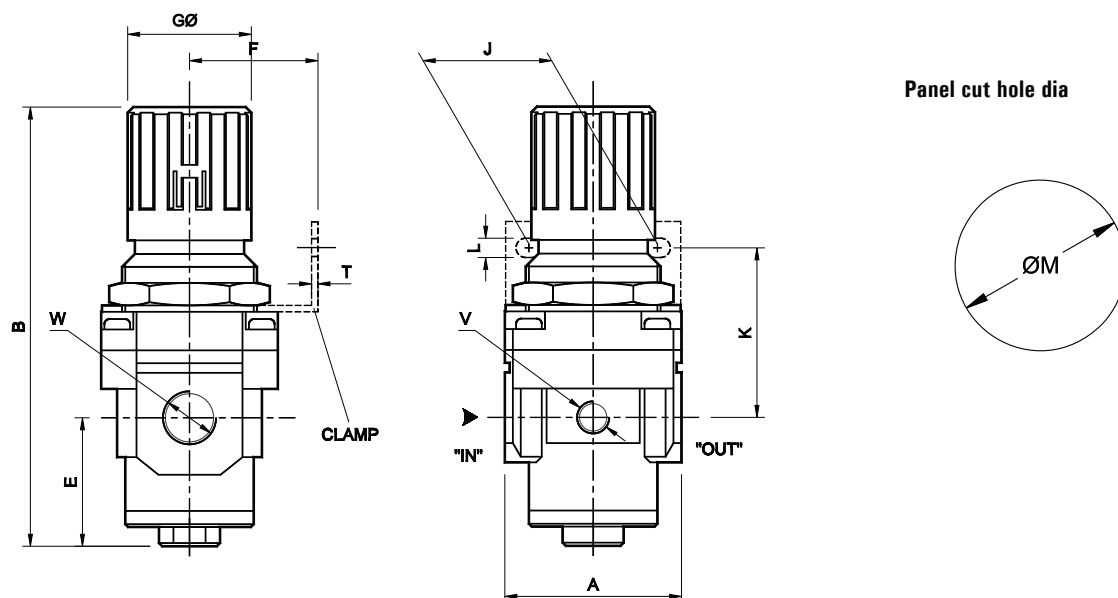
DRAIN	
Manual Drain, Standard	M
Semi-Automatic Drain	S
Auto Drain (NOT AVAILABLE ON MA13)	A
Omit for Regulators & Lubricators	

BOWL MATERIAL OPTIONS	
Metal Bowl, NO Level Indicator	M
Metal Bowl with Level Indicator	L

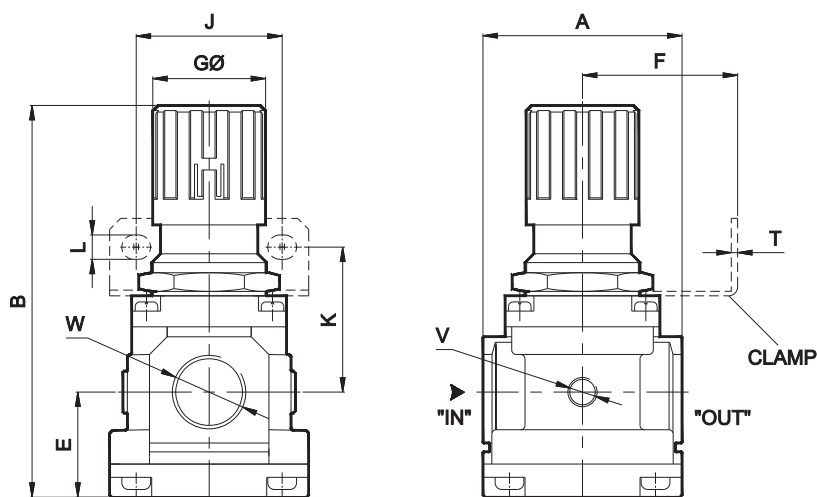


REGULATOR - SERIES MA

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