

# P912 Pressure Regulator

- Versatile
- Control Accuracy
- Compact Design
- Removable Vent Screen

The Type P912 pressure regulator functions as a pneumatic pressure controlling device with an adjustable set point. The P912 can be used in a variety of applications in which accurate pressure regulation is required. The internal relief feature allows the regulator to respond quickly and to relieve excessive pressure.



## Applications

Applicable to a wide range of gaseous fluids, including air, natural gas and propane. Can be used as a LP regulator.

## Specifications

P912			
Inlet	1/4 NPT		
Outlet	1/4 or 3/8 NPT		
Temperature Range	-20 to 170 °F (-29° to 77 °C)		
Outlet Pressure Ranges	3-7 inches WC	7 to 17 mBAR	
	5-10 inches WC	12 to 25 mBAR	
	9.25-13 inches WC	23 to 32 mBAR	U.L. 144 Listed
	10 inches WC-1.05 PSIG	25 to 72 mBAR	
	0.8-2.7 PSIG	55-186 mBAR	U.L. 144 Listed
	2.7-5 PSIG	186-340 mBAR	U.L. 144 Listed
Maximum allowable inlet pressure	250 PSIG (17.3 BAR)		
Approximate Weight	1.3 lbs.	0.59 kg	

## Materials of Construction

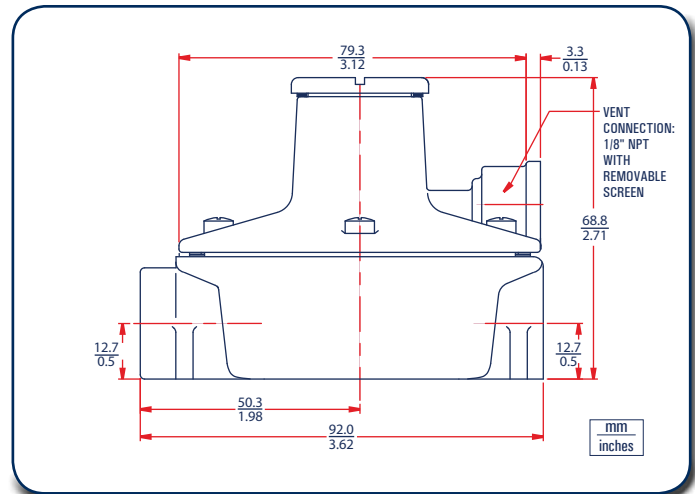
P912	
Body, Bonnet	Zinc
Diaphragm	Nitrile
Diaphragm Assembly	Zinc/Nitrile
Gaskets	Non-asbestos, CGR 2750
Pin	Stainless Steel
Vent screen	Monel
Spring	Zinc-Plated Steel
Diaphragm Piston	Zinc-Plated Steel

Output Pressure Settings	Outlet Pressure Setting	Spring Part Number	Offset	Capacity in SCFH (m3/h) of 0.6 Specific Gravity Natural Gas														
				Inlet Pressure, PSIG/BAR														
				5	10	25	50	75	100	150	200	250						
				0.34	0.69	1.7	3.4	5.2	6.9	10	14	17						
5 inches WC	3 to 7 inches WC	655-681-000	1 inch WC	50	65	75	100											
12 mBAR	7 to 17 mBAR		2.5 mBAR	1.34	1.74	2.01	2.68											
7 inches WC	5 to 10 inches WC	655-682-000	1 inch WC		75	112	155	155	155	155	155	155						
17 mBAR	12 to 25 mBAR		2.5 mBAR		2.01	3.0	4.15	4.15	4.15	4.15	4.15	4.15						
11 inches WC	9-1/4 to 13 inches WC	655-683-000	1 inch WC		75	140	155	155	155	155	155	155	155					
27 mBAR	23 to 32 mBAR		2.5 mBAR		2.01	3.75	4.15	4.15	4.15	4.15	4.15	4.15	4.15					
15 inches WC	10 inches WC to 1.05 PSIG	655-684-000	2 inch WC		68	100	135	150	160	190	200	200						
27 mBAR	25 to 72 mBAR		5 mBAR		1.82	2.68	3.62	4.02	4.29	5.09	5.36	5.36						
1 psig	0.8 to 2.7 psig	655-695-000	10%		40	40	85	90	100	155	160	185						
					1.47	1.07	2.28	2.41	2.68	4.15	4.29	4.96						
69 mBAR	55 to 186 mBAR		20%		55	100	135	155	185	240	285	300						
				1.47	2.68	3.62	4.15	4.96	6.43	7.64	8.04							
2 psig	0.8 to 2.7 psig	655-695-000	10%		50	85	105	130	145	200	260	300						
					1.34	2.28	2.81	3.48	3.89	5.36	6.97	8.04						
140 mBAR	55 to 186 mBAR		20%		70	120	180	240	300	400	450	500						
				1.88	3.22	4.82	6.43	8.04	10.7	12.1	13.4							
5 psig	2.7 to 5 psig	655-696-000	10%		68	85	135	170	200	325	400	500						
					1.82	2.28	3.62	4.56	5.36	8.71	10.7	13.4						
340 mBAR	186 to 340 mBAR		20%		75	135	200	280	360	560	685	750						
				2.01	3.62	5.36	7.50	9.65	15.0	18.4	20.1							

## P912 Part Matrix

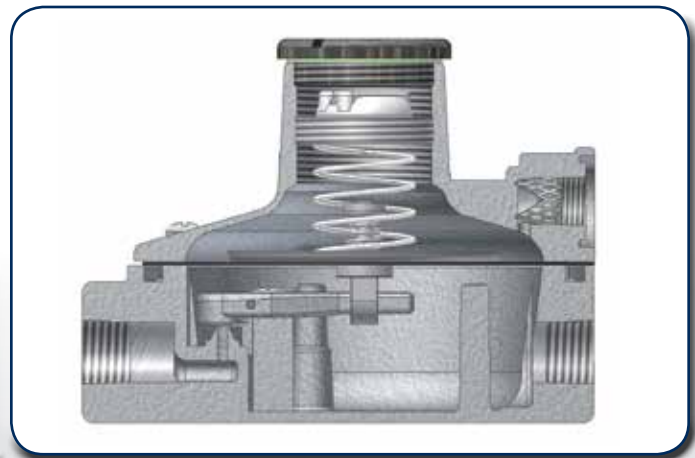
<b>P912</b>			<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
	↑	↑	↑	↑	↑	↑	↑	↑	↑	Outlet Port Size
		<b>02</b>								1/4
		<b>03</b>								3/8
										Output Pressure
			<b>020</b>							3" - 7" WC
			<b>040</b>							5" - 10" WC
			<b>060</b>							9.25" - 13" WC
			<b>080</b>							10" WC-1.05 PSIG
			<b>100</b>							0.8 - 2.7 PSIG
			<b>120</b>							2.7 - 5 PSIG
				<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

## P912 Dimensions



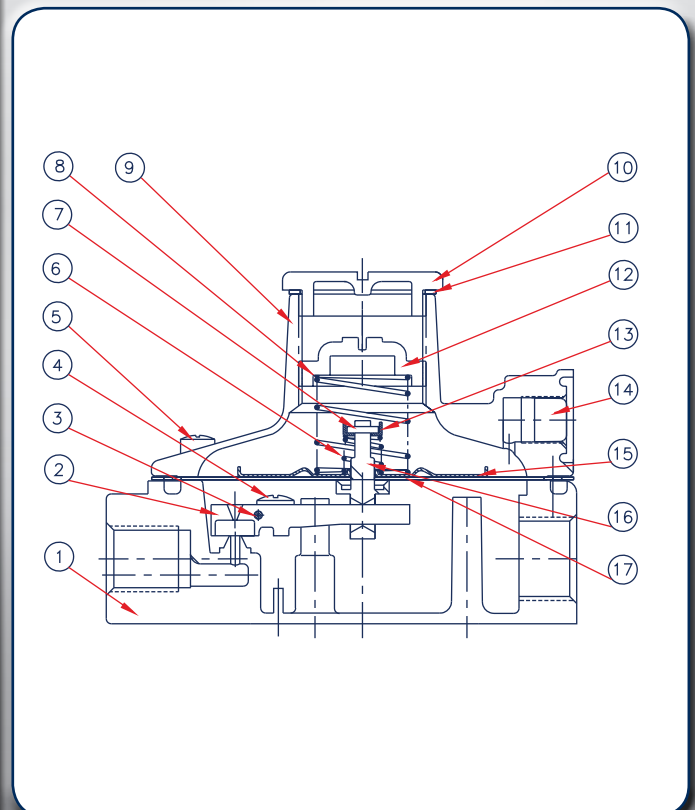
## P912 Regulator Rebuild Kits

For Spring Ranges	Kit Includes	Part No.
3 - 7" WC & 5 - 10" WC	Arm Assembly, CRG Gasket. Monel Screen, Nitrile Diaphragm	971-912-200
9.25 - 13" WC & 10" WC - 1.05 psig	Arm Assembly, CRG Gasket. Monel Screen, Nitrile Diaphragm	971-912-100
0.8 - 2.7 psig & 2.7 - 5 psig	Arm Assembly, CRG Gasket. Monel Screen, Nitrile Diaphragm	971-912-000



## P912 Parts

Item	Description	Part Number
1	Body 3/8 NPT Port, Zinc	664-310-000
	Body 1/4 NPT Port, Zinc	664-311-000
2	Arm Assembly, Nitrile/Zinc For 3-7" WC and 5-10" WC Only	827-012-000
	Arm Assembly, Nitrile/Zinc For All other ranges	827-009-000
3	Rod, Stainless Steel	646-540-000
4	Machine Screw, 5/16", plated steel (qty. 2)	648-000-417
5	Machine Screw, 3/8", plated steel (qty. 6)	648-000-418
6	Backup spring, plated steel (2.7 - 5.0 PSIG Range)	655-685-000
	Backup spring, plated steel (All Ranges Other than 2.7 - 5 PSIG)	655-715-000
7	Pin, Stainless Steel	635-062-000
8	Range Spring 3-7" WC red, plated steel	655-681-000
	Range Spring 5-10" WC orange, plated steel	655-682-000
	Range Spring 9.25-13" WC cadmium, plated steel	655-683-000
	Range Spring 10" WC-1.05 PSIG, blue, plated steel	655-684-000
	Range Spring 0.8-2.7 PSIG, yellow, plated steel	655-695-000
Range Spring 2.7-5 PSIG, green, plated steel	655-696-000	
9	Bonnet, Zinc	604-226-000
10	Closing Cap, Acetal	610-055-000
11	Gasket, Non-asbestos CGR 2750	624-064-000
12	Adjusting Screw, Acetal	648-000-419
13	Spring Seat, Plated Steel	650-128-000
14	Screen, Monel	647-019-000
15	Diaphragm Piston, Plated Steel	637-313-000
16	Poppet, Zinc	640-001-000
17	Diaphragm, Nitrile (0.8 - 2.7 PSIG & 2.7 - 5.0 PSIG Ranges Only)	600-498-000
	Diaphragm, Nitrile (All Ranges Other than 0.8 - 2.7 PSIG & 2.7 - 5.0 PSIG)	600-506-000



# Natural Gas & Propane Regulators

**P32** Superior regulation and excellent stability make the P32 Regulator ideal for lower flow applications. Square head adjustment screw allows for easy in-field calibration. The P32 is available with handwheel adjustment, output pressure gauge and/or mounting bracket as options. The use of a relief valve is recommended for this product in accordance with NFPA 58.

- 60-mesh screen
- UL listed (Standard P32)
- NACE construction available
- Harmful particles blocked
- Non-Relieving
- Temperature Range -0 to 160 °F

**P36** This reliable precision preset regulator is ordered with the exact pressure regulation required. Ideal for areas requiring tamper resistant components or where incidental re-adjustment is a concern. The use of a relief valve is recommended for this product in accordance with NFPA 58.

- 60-mesh screen
- UL listed (Standard P36)
- NACE construction available
- Temperature Range -0 to 160 °F
- Harmful particles blocked
- Release undesirable moisture
- Non-Relieving

**P37** The P37 contains many of the same characteristics as the P38, but at a reduced price. At 110 SCFM (16.5 Mbtu/hr), the P37 offers flow rates comparable to current market suppliers. The use of a relief valve is recommended for this product in accordance with NFPA 58.

- Balanced pintle design
- Bubble tight/non-relieving
- 16.5 Mbtu/hr. (110 scfm)
- UL listed
- Bellofram Rolling Diaphragm
- High flow capacity
- Enclosed space use
- High volume applications
- Non-Relieving
- Temperature Range -40 to 200 °F

**P38** The P38 uses a patented balanced pintle design which eliminates unsteady changes in outlet pressure due to inlet pressure fluctuations. The P38 is a spring opposed, diaphragm - operated, non-relieving regulator. The use of a relief valve is recommended for this product in accordance with NFPA 58.

- Balanced pintle design
- Bubble tight/non-relieving
- 27 Mbtu/hr (260 scfm)
- UL listed
- Bellofram Rolling Diaphragm
- Temperature Range -40 to 200 °F
- Exceptional flow capacity
- Enclosed space use
- High volume applications
- Minimal effect on output pressure from variation of supply pressure

## Applications

- Pneumatic Controllers
- Valve Positioners
- Actuation
- Fuel Gas
- Compressed Air

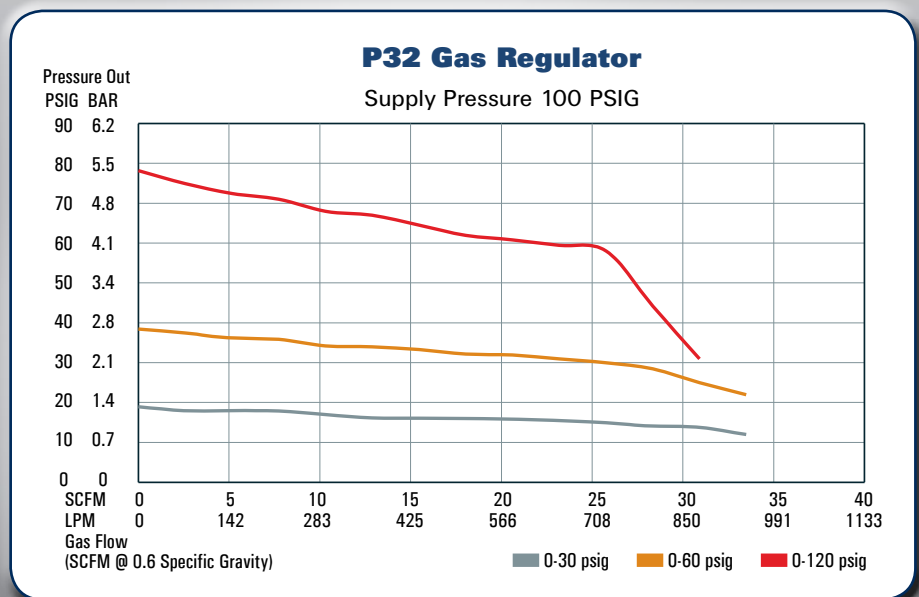


## Specifications

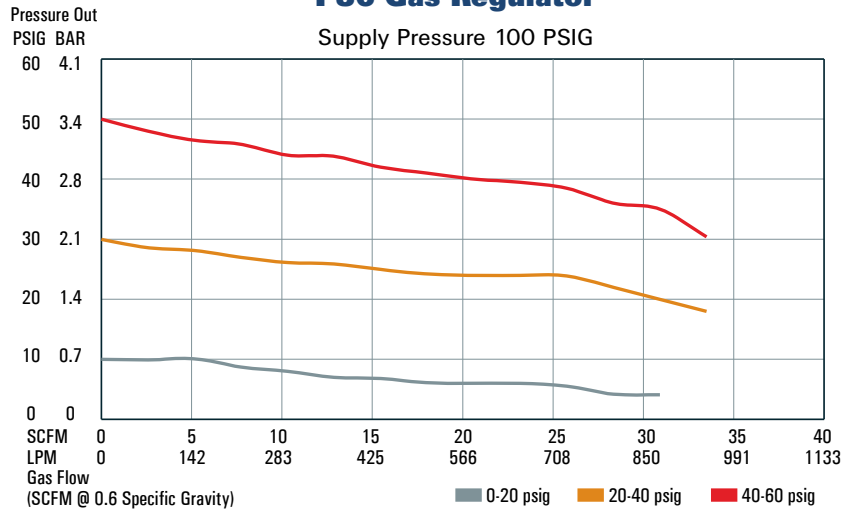
	P32	P36	P37	P38
Sensitivity	1" water column	1" water column	1" water column	1/2" water column
Max. Inlet Pressure	250 PSIG (17 BAR)	250 PSIG (17 BAR)	400 PSIG (28 BAR)	400 PSIG (28 BAR)
Port Size	1/4 NPT	1/4 NPT	1/2, 3/4 NPT	3/8, 1/2, 3/4, 1 NPT
Outlet Ranges	0-10, 0-30, 0-60, 0-120 PSIG (0-0.7, 0-2, 0-4, 0-8 BAR)	0-20, 20-40, 40-60 PSIG (0-1.4, 1.4-2.8, 2.8-4 BAR)	0-10, 0-30, 0-60, 0-125 PSIG (0-0.7, 0-2, 0-4, 0-8 BAR)	0-30, 0-60, 0-125 PSIG (0-2, 0-4, 0-8 BAR)
Adjustment	Adjustment Screw	None	T-Bar	T-Bar
Materials of Construction	Aluminum, Brass, Plated Steel, Buna-N	Aluminum, Brass, Plated Steel, Buna-N	Zinc, Aluminum, Plated Steel, Buna-N, Brass	Zinc, Aluminum, Plated Steel, Buna-N, Brass
Diaphragm Material	Nitrile Elastomer with Polyester Fabric	Nitrile Elastomer with Polyester Fabric	Nitrile Elastomer with Polyester Fabric	Nitrile Elastomer with Polyester Fabric
Approximate Weight	0.85 lbs, 0.38 kg	0.70 lbs, 0.32 kg	1.4 lbs, 0.63 kg	5.0 lbs, 2.25 kg

## P32, 36, 37 & 38 Part Matrix

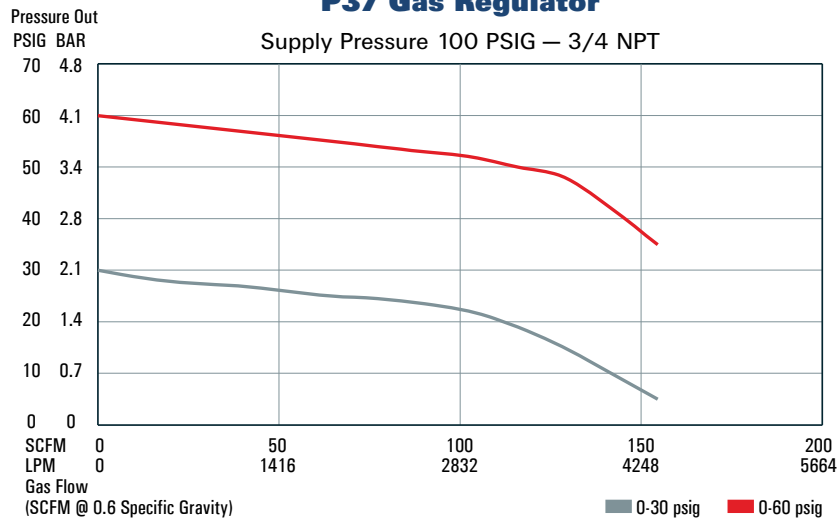
P0								0	0	0	
	↑	↑	↑	↑	↑	↑	↑				Regulator
	<b>32</b>										P32 regulators
	<b>36</b>										P36 regulators
	<b>37</b>										P37 regulators
	<b>38</b>										P38 regulators
											Body Size
	<b>02</b>										1/4" P32 & P36 only
	<b>03</b>										3/8" P38 only
	<b>04</b>										1/2" P37 & P38 only
	<b>06</b>										3/4" P37 & P38 only
	<b>08</b>										1" P38 only
											Spring Range (see 'NOTE' for P36)
	<b>010</b>										0-10 PSIG 0-0.7 BAR P32 & P37 only
	<b>030</b>										0-30 PSIG 0-2 BAR P32, P37, P38
	<b>060</b>										0-60 PSIG 0-4.1 BAR P32, P37, P38
	<b>120</b>										0-120 PSIG 0-8.3 BAR P32 only
	<b>125</b>										0-125 PSIG 0-8.6 BAR P37 & P38 only
											* NOTE: For P36 Enter the preset value in PSIG, Example: 10 PSIG = 010 Minimum Pressure = 2 PSIG Maximum Pressure = 60 PSIG
											Special Construction
	<b>0</b>										None
	<b>1</b>										Epoxy Paint P37 & P38 only
	<b>2</b>										Tapped supply port for gauge P38 only
	<b>3</b>										Both options 1 & 2 P38 only
	<b>4</b>										PED Version (for EU) P32, P37 & P38 only
	<b>5</b>										Tapped vent P32, P37 & P38 only
	<b>6</b>										Options 1 & 5 P37 & P38 only
	<b>7</b>										Options 2 & 5 P38 only
											Adjusting Method
	<b>0</b>										No Option P36, P37 & P38 only
	<b>1</b>										Adjusting Screw P32 only
	<b>2</b>										Handwheel P32 only
											Versions
	<b>0</b>										Standard
	<b>N</b>										NACE P32 & P36 only
											<b>0 0 0</b>



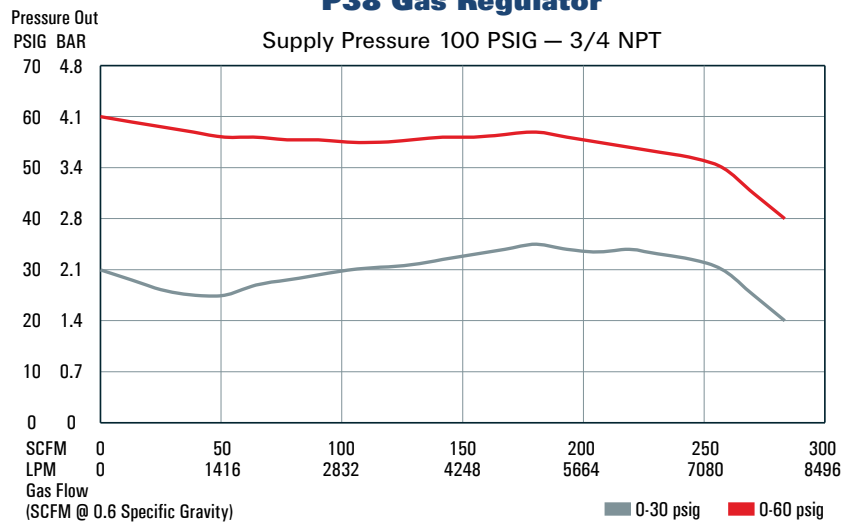
### P36 Gas Regulator



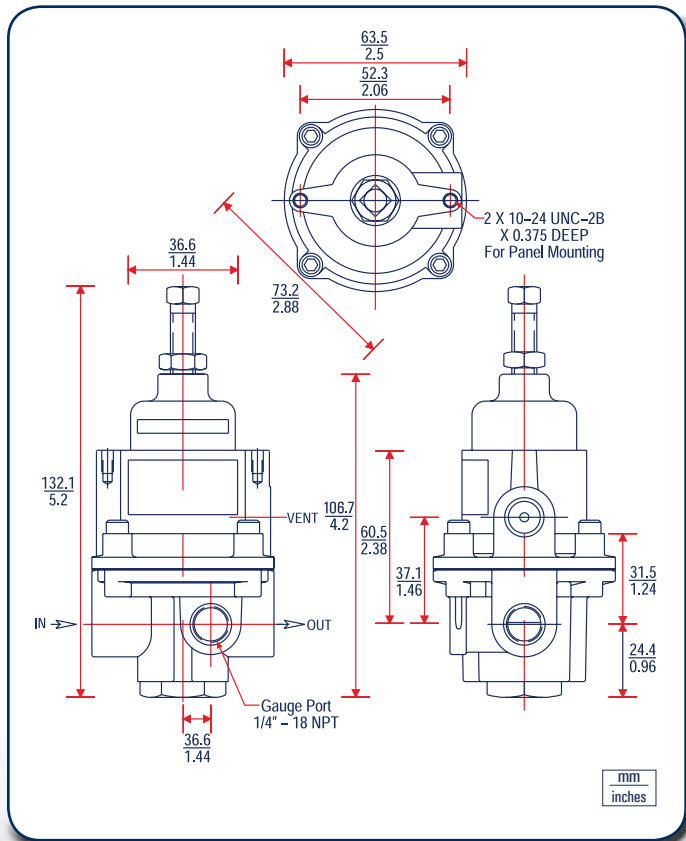
### P37 Gas Regulator



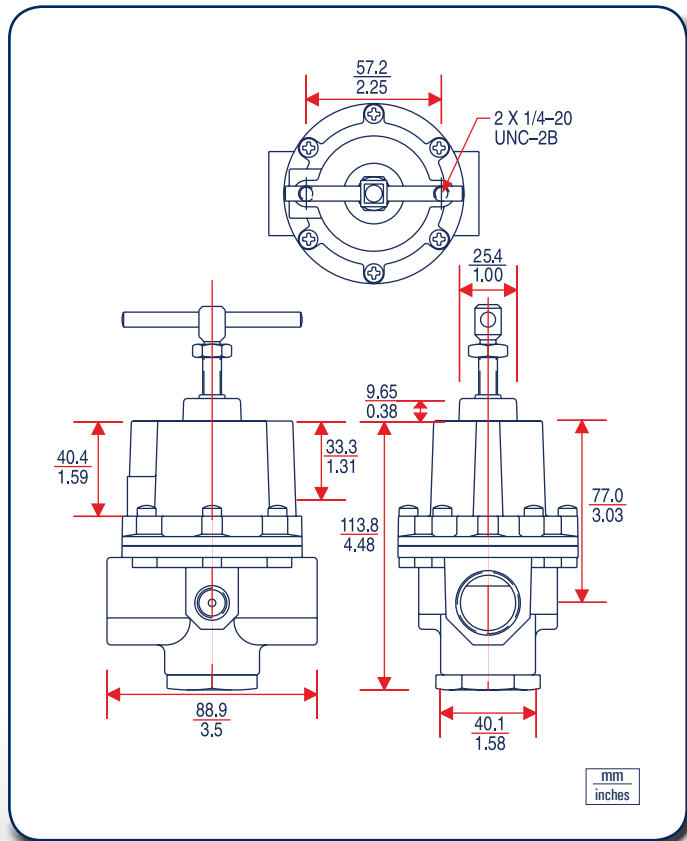
### P38 Gas Regulator



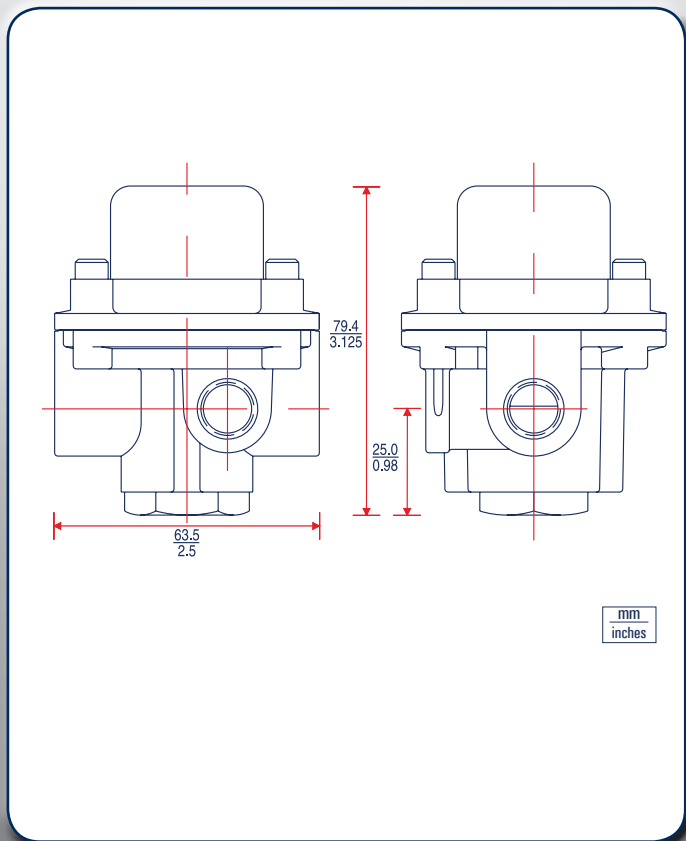
### P32 Dimensions



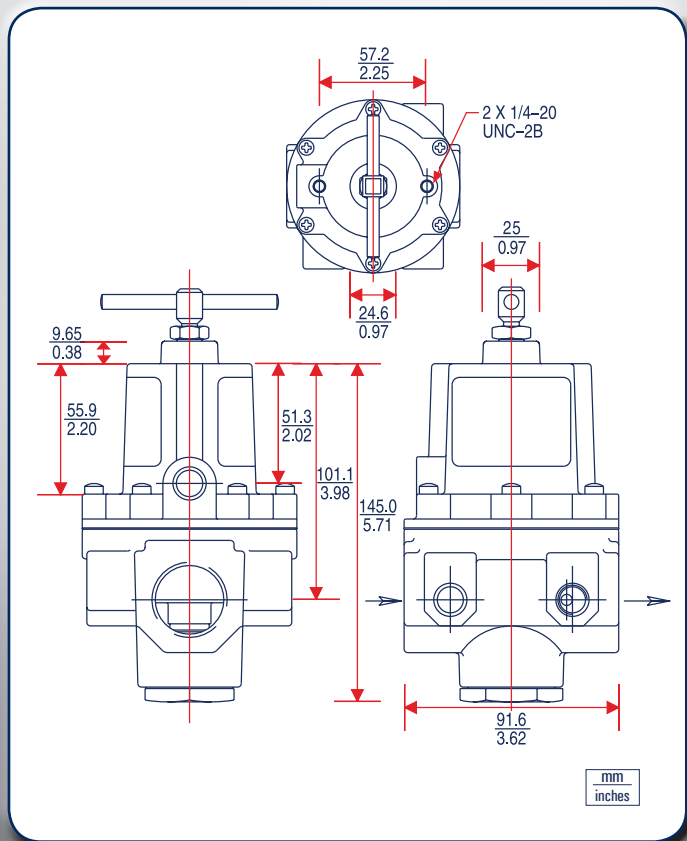
### P37 Dimensions



### P36 Dimensions



### P38 Dimensions





# P40 & P40 NACE Regulators



- Superior regulation characteristics
- Rugged, corrosion-resistant construction
- Economical
- Self-relieving
- Standard tapped vent
- Excellent stability and repeatability
- Soft relief seat on P40
- Several mounting options

The BelGAS General Purpose P40 & P40 NACE Regulators are reliable precision units designed for instrumentation and general purpose use in both standard environments (P40), and corrosive environments (P40 NACE). The P40 NACE complies with NACE material requirement MRO175 for sulfide stress cracking resistant metallic material for oil field equipment.

Test data for these regulators show excellent performance characteristics compared with those of similar units presently on the market. These BelGAS regulators are generally superior in regulated pressure vs. flow, forward-to-reverse flow offset, supply pressure sensitivity, repeatability and stability.

Ruggedly designed and constructed, the regulators have housings of diecast aluminum. The P40 Regulator is finished with vinyl paint (which resists scratching, weathering & other physical abuse), while the P40 NACE is supplied with an epoxy paint for added corrosion protection. Both the P40 and P40 NACE, are pressure and leak tested prior to shipment from the factory.

The full flow gauge port is convenient for gauge installation and can also be used as an additional full flow outlet.

## Applications

The design of these regulators is especially well suited to pilot-operated level, pressure and flow controllers and instruments.

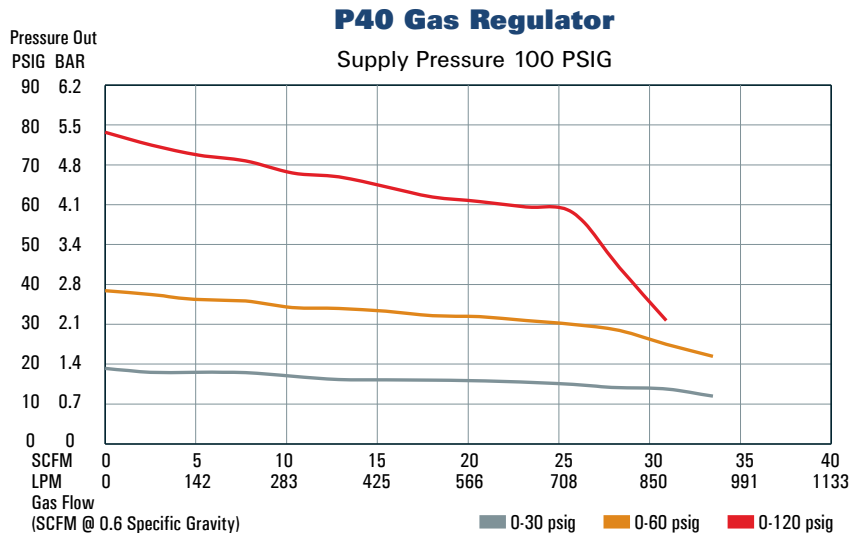


## P40 & P40 NACE Part Matrix

<b>P040</b>		<b>0</b>	<b>2</b>				<b>0</b>	<b>0</b>	<b>0</b>		Versions
	↑	↑	↑	↑	↑	↑	↑	↑	↑		Standard*
	<b>0</b>										NACE**
		<b>0</b>	<b>2</b>								Spring Range
						<b>010</b>					0-10 PSIG
						<b>035</b>					0-35 PSIG
						<b>060</b>					0-60 PSIG
						<b>120</b>					0-120 PSIG
											Options
								<b>00</b>			Standard
								<b>OK</b>			Knob Adjustment
									<b>0</b>	<b>0</b>	<b>0</b>

\* Standard P40 is a Soft Relief Seat unit. Max Gas Consumption is 0.1 SCFH.

\*\* The P40 NACE has a metal-on-metal relief seat. Max Gas consumption is 6 SCFH.

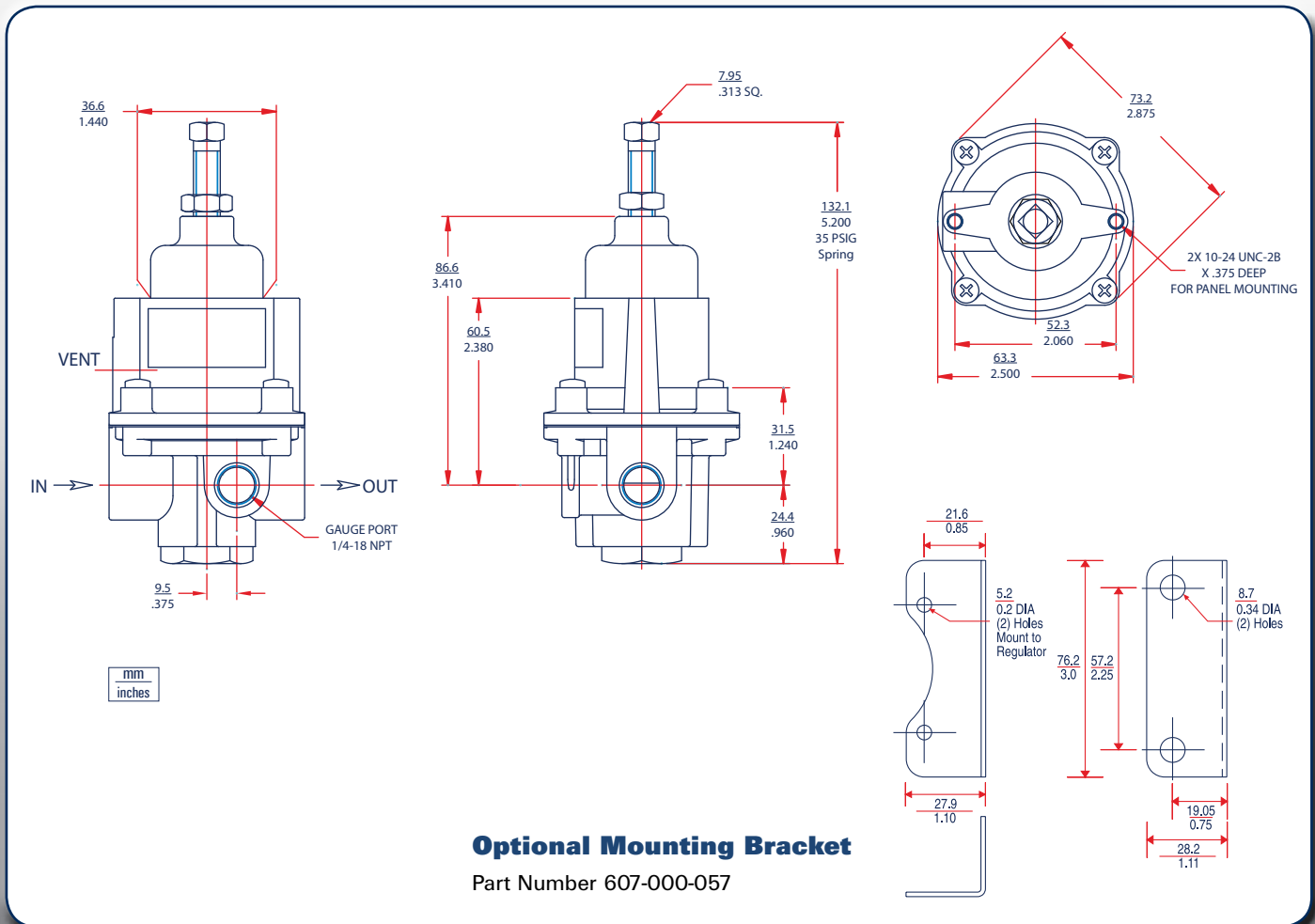


The P40 NACE is available for use in corrosive environments. This complies with NACE material requirement MR0175 for sulfide stress cracking resistant metallic material for oil field equipment.

## P40 & P40 NACE Specifications

	P40 Regulator	P40 NACE Regulator
Sensitivity	1" (25.4 mm) Water Column	1" (25.4 mm) Water Column
Flow Capacity	20 SCFM (565 LPM)	20 SCFM (565 LPM)
Effect of Supply Pressure variation (25 PSIG) on Outlet Pressure	< 0.2 PSIG (0.01 BAR)	< 0.2 PSIG (0.01 BAR)
Exhaust Capacity (5 PSIG above 20 PSIG set point)	0.1–0.45 SCFM Typical (2.8–12.7 LPM)	0.1–0.45 SCFM Typical (2.8–12.7 LPM)
Maximum Input/Supply Pressure	250 PSIG (17.2 BAR)	250 PSIG (17.2 BAR)
Effect of Changes in Flow on Regulated Pressure (100 PSIG/6.9 BAR Supply)	4 PSIG (0.3 BAR) over flow 10 SCFM (283 LPM) (1/4 NPT, 20 PSIG / 1.4 BAR set point)	4 PSIG (0.3 BAR) over flow 10 SCFM (283 LPM) (1/4" NPT, 20 PSIG / 1.4 BAR set point)
Output Pressure Ranges	0-10 PSIG (0-0.7 BAR), 0-35 PSIG (0-2.4 BAR) 0-60 PSIG (0-4.1 BAR), 0-120 PSIG (0-8.3 BAR)	0-10 PSI (0-0.7 BAR), 0-35 PSIG (0-2.4 BAR) 0-60 PSIG (0-4.1 BAR), 0-120 PSIG (0-8.3 BAR)
Temperature Range	0 to 160°F (-18 to 71°C)	0 to 180°F (-15 to 82°C)
Total Air Consumption @ Maximum Output	0.1 SCFH (0.05 LPM)	6 SCFH (2.8 LPM)
Port Size	1/4 NPT	1/4 NPT
Size	2.5" X 2.5" X 5.63" (63.5 X 63.5 X 143 mm)	2.5" X 2.5" X 5.63" (63.5 X 63.5 X 143 mm)
Weight	0.82 lb. (.37 kg)	0.82 lb. (.37 kg)
Materials of Construction	Body: Diecast Aluminum with Vinyl Paint Adjusting Screw: Plated Steel Trim: Plated Steel, Brass, Acetal Resin Diaphragm: Buna-N elastomer with Polyester Fabric Knob: Phenolic Plastic (option) Spring: Music Wire	Body: Diecast Aluminum with Epoxy Paint Adjusting Screw: Plated Steel Trim: Plated Steel, Stainless Steel, Acetal Resin Diaphragm: Fluoroelastomers, Polyester Valve Spring: Inconel, Range Spring: Music Wire
Mounting	Pipe, Panel or Bracket	Pipe, Panel, or Bracket

## P40 & P40 NACE Dimensions





# P70 & P70 NACE Regulators



- Superior regulation characteristics
- Rugged, corrosion-resistant construction
- Excellent stability and repeatability
- High flow capacity (80 SCFM)
- Self-relieving
- Standard tapped vent
- Soft relief seat for low gas consumption
- Several mounting options

The BelGAS P70 Regulators are reliable precision units designed for instrumentation and general purpose use.

Test data for these regulators show excellent performance characteristics compared with those of similar units presently on the market. These BelGAS regulators are generally superior in regulated pressure vs. flow, forward-to-reverse flow offset, supply pressure sensitivity, repeatability and stability.

Ruggedly designed and constructed, the regulators have housings of diecast aluminum. The P70 Regulator is finished with vinyl paint (which resists scratching, weathering & other physical abuse), while the P70 NACE is supplied with an epoxy paint for added corrosion protection. The P70 regulator is pressure and leak tested prior to shipment from the factory.

The full flow gauge ports are convenient for gauge installation and can also be used as an additional full flow outlet ports.

## Applications

The design of these regulators is especially well suited to pilot-operated level, pressure and flow controllers and pneumatic instruments.



## P70 & P70 NACE Specifications

Sensitivity	1/4" WC (6.4 mm)	
Flow Capacity	80 SCFM	2266 LPM
Effect of Supply Pressure variation (25 PSIG) on Outlet Pressure	< 0.05 PSIG	0.003 BAR
Exhaust Capacity (5 PSIG above 20 PSIG set point)	3 SCFM Typical	85 LPM
Maximum Input/Supply Pressure	250 PSIG	17.2 BAR
Effect of Changes in Flow on Regulated Pressure (100 PSIG/6.9 BAR Supply)	2.5 PSIG (0.2 BAR) over flow 50 SCFM (1416 LPM)	
Output Pressure Ranges	0-15 PSIG 0-30 PSIG 1-60 PSIG 2-100 PSIG 2-150 PSIG	0-1.0 BAR 0-2.1 BAR 0.1-4.1 BAR 0.2-6.9 BAR 0.2-10.3 BAR
Temperature Range	-40 to 200 °F	-40 to 93 °C
Total Air Consumption @ Maximum Output	0.1 SCFH	0.05 LPM
Port Size	1/4 NPT, 3/8 NPT, 1/2 NPT	
Size	3.0" x 3.0" x 6.0"	76 x 76 x 152 mm
Weight	1.41 lb.	0.6 kg
Mounting	Pipe, Panel or Bracket	

## P70 & P70 NACE Part Matrix

<b>P070</b>									<b>0 0 0</b>	Port Size
	▲	▲	▲	▲	▲	▲	▲	▲		1/4 NPT
	<b>02</b>									3/8 NPT
	<b>03</b>									1/2 NPT
	<b>04</b>									Spring Range
		<b>015</b>								0 - 15 PSIG    0 - 1.0 BAR
		<b>030</b>								0 - 30 PSIG    0 - 2.1 BAR
		<b>060</b>								1 - 60 PSIG    0.1 - 4.1 BAR
		<b>100</b>								2 - 100 PSIG    0.2 - 6.9 BAR
		<b>150</b>								2 - 150 PSIG    0.2 - 10.3 BAR
										Special Construction
			<b>0</b>							Standard
			<b>1</b>							Epoxy Paint
			<b>N</b>							NACE Construction (Wetted Parts)
										Adjusting Method
				<b>1</b>						Square Head Screw
				<b>2</b>						Knob (Handwheel)
										Relieving Options
					<b>0</b>					Relieving*
					<b>1</b>					Non-Relieving
						<b>0 0 0</b>				

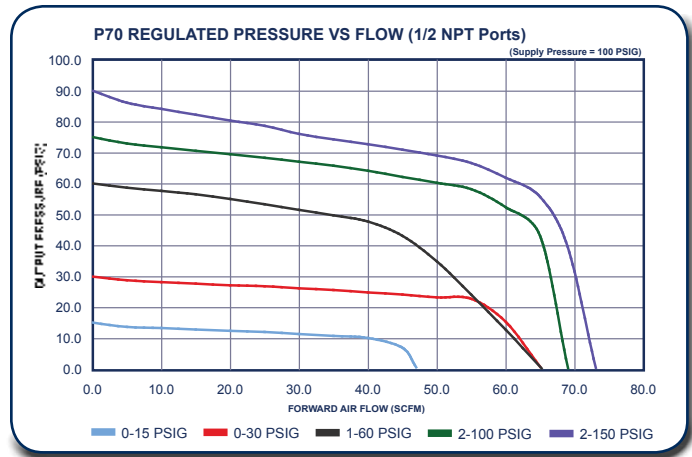
\* Relieving version will have no constant bleed.

## Materials of Construction

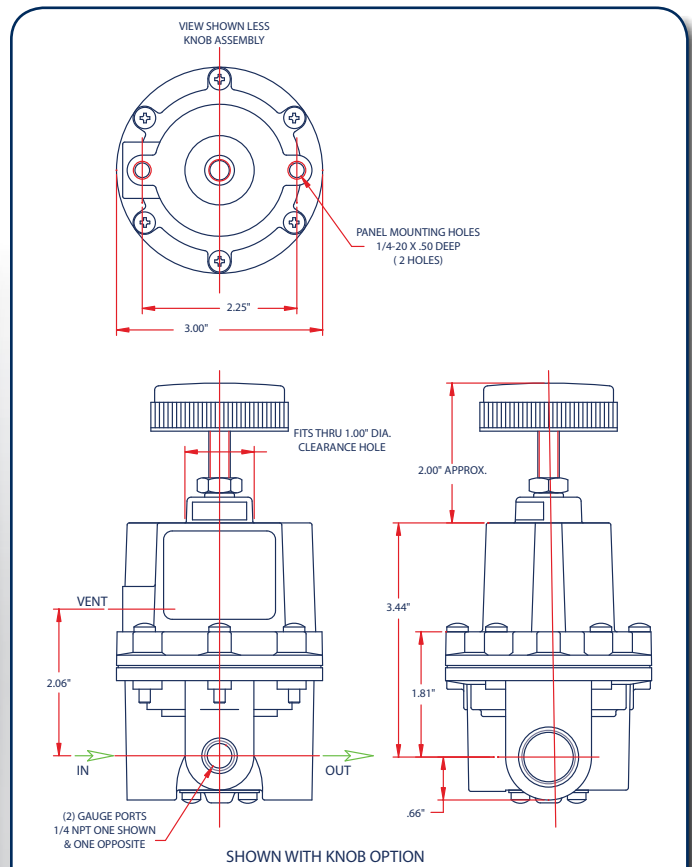
Body	Die Cast Aluminum
Adjusting Screw	P70 - Zinc Plated Steel
	P70 NACE - 316 Stainless Steel
Trim	Plated Steel, Brass, Acetal Resin
Knob	Phenolic Plastic (option)
Spring:	Music Wire
Diaphragm Material	P70 - Buna-N Elastomer with Polyester Fabric
	P70 NACE - Fluorocarbon with Dacron Fabric

# P70 Flow Data

Outlet Pressure Range	Outlet Pressure Setting		Inlet Pressure		Air Capacity (SCFH)	
	PSIG	BAR	PSIG	BAR	20% Offset	MAX
0 to 15 PSIG (0 to 1 BAR)	5	0.3	10	0.7	140	570
			15	1.0	150	690
			25	1.7	185	960
			50	3.5	300	1500
			100	6.9	360	2700
	10	0.7	15	1.0	330	690
			25	1.7	492	930
			50	3.5	750	1560
			100	6.9	1260	2700
			125	8.6	1680	3300
	15	1.0	25	1.7	570	960
			50	3.5	900	1620
			100	6.9	1680	2820
			125	8.6	2100	3480
			150	10.3	2700	4500
0 to 30 PSIG (0 to 2.1 BAR)	5	0.3	15	1.0	110	840
			50	3.5	250	1800
			100	6.9	345	3300
			125	8.6	400	3600
			150	10.3	450	4500
	15	1.0	50	3.5	1140	1920
			100	6.9	1800	3900
			125	8.6	2160	4500
			35	2.4	1320	1740
			50	3.5	1800	2280
	25	1.7	100	6.9	2820	3900
			125	8.6	3300	4800
			40	2.8	1500	1800
			50	3.5	1560	2100
			100	6.9	3240	3900
30	2.1	125	8.6	3960	4800	
		30	2.1	600	1080	
		50	3.5	960	1620	
		100	6.9	1680	2820	
		125	8.6	2280	3480	
1 to 60 PSIG (0.07 to 4.1 BAR)	20	1.4	40	2.8	870	1440
			50	3.5	1110	1620
			100	6.9	1980	3060
			125	8.6	2700	3780
			150	10.3	3000	4500
	30	2.1	50	3.5	1050	1800
			100	6.9	2100	3300
			125	8.6	2700	4080
			70	4.8	1560	2700
			100	6.9	2400	3720
	40	2.8	125	8.6	3000	4500
			50	3.5	1260	2100
			100	6.9	2280	3960
			125	8.6	2820	4800
			70	4.8	1800	3000
60	4.2	100	6.9	2700	4050	
		125	8.6	3360	4920	
		100	6.9	3000	4140	
		125	8.6	3900	5040	
		110	7.6	3300	4500	
2 to 100 PSIG (0.14 to 6.9 BAR)	80	5.5	125	8.6	4020	5100
			60	4.2	870	1440
			100	6.9	1620	2700
			125	8.6	2160	3600
			150	10.3	2700	4500
2 to 150 PSIG (0.14 to 10.3 BAR)	50	3.5	60	4.1	870	1440
			100	6.9	1620	2700
			125	8.6	2160	3600
			85	5.9	1800	3780
			100	6.9	2250	4380
	75	5.2	125	8.6	2760	5280
			110	7.6	3060	4800
			125	8.6	3660	5280
			125	8.6	3660	5280
			110	7.6	3060	4800

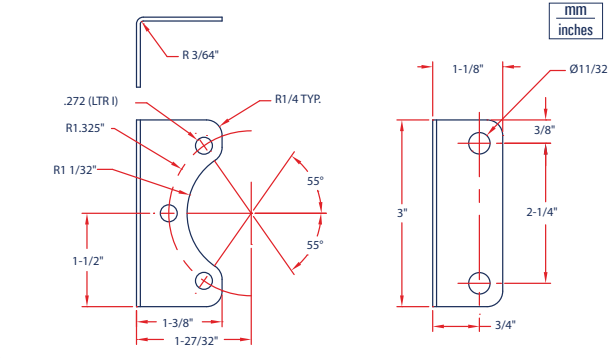


## P70 Dimensions



## Optional Mounting Bracket

Part Number 607-000-047



# 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**

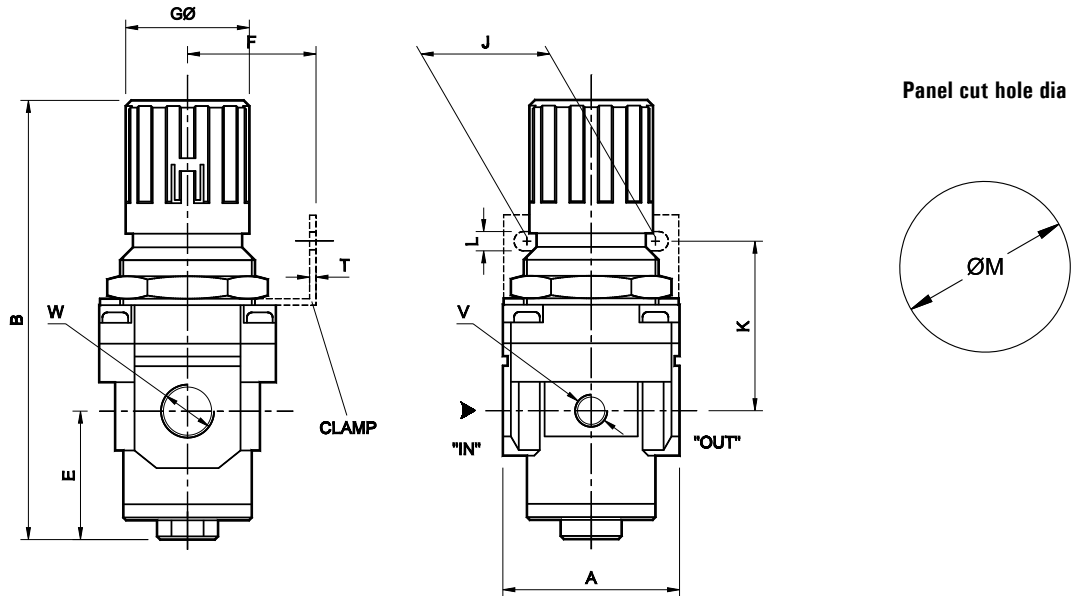
**MA17**

<b>Filters</b>				
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)
<b>Regulators</b>				
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
<b>Filter-Regulators</b>				
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

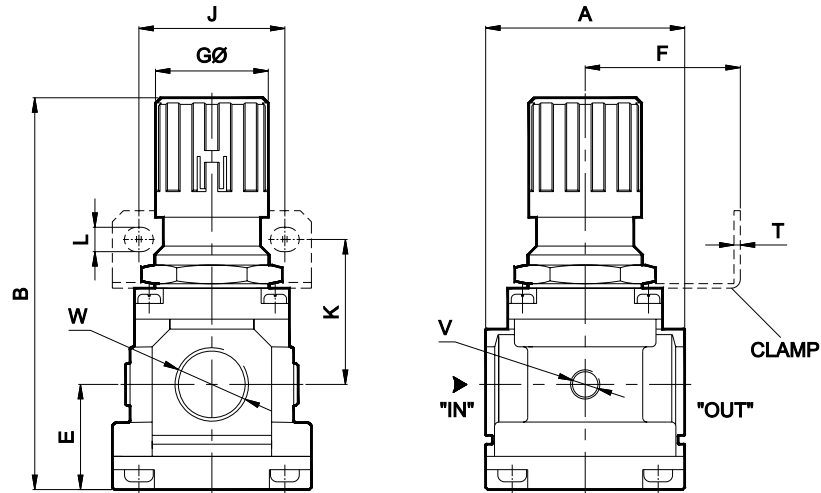
\* Metal Bowls have a higher temp. range; (41°–140° F / 5°–60° C)

# Regulator - Series MA

## Model MA13R, MA14R, MA15R



## Model MA17R

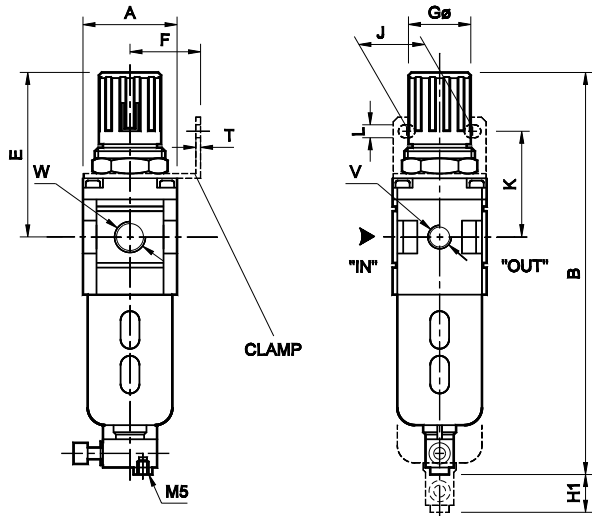


MODEL	W	V		A	B	E	F	GØ	J	K	L	T	ØM
<b>MA13</b>	NPT 1/8 (G1/8) NPT 1/4 (G1/4)	NPT 1/8 (G1/8)	Inch (mm)	SQ 1.575 (40)	3.189 (81)	0.512 (13)	1.181 (30)	1.102 (28)	1.102 (28)	1.771 (45)	0.216 (5.5)	0.079 (2)	1.22 (31)
<b>MA14</b>	NPT 1/4 (G1/4) NPT 3/8 (G3/8)	NPT 1/8 (G1/8)	Inch (mm)	SQ 2.165 (55)	5.315 (135)	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)
<b>MA15</b>	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)
<b>MA17</b>	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)
<b>MA17</b>	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)

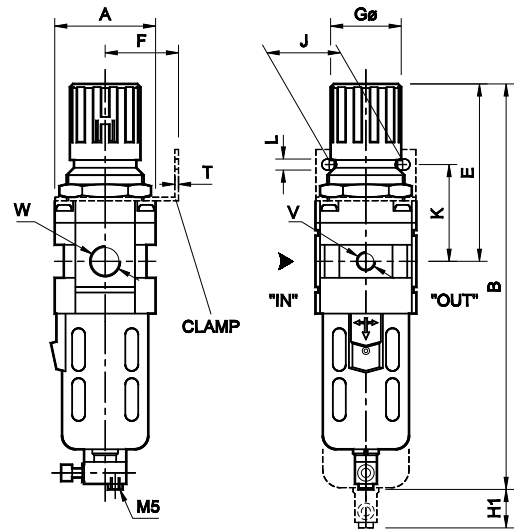
For Details of Clamp see optional accessories

# Filter Regulator Combination - Series MA

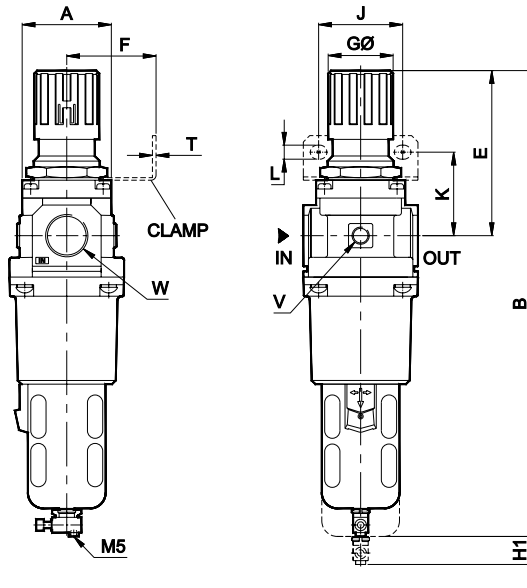
### Model MA13FR



### Model MA14FR, MA15FR



### Model MA17FR

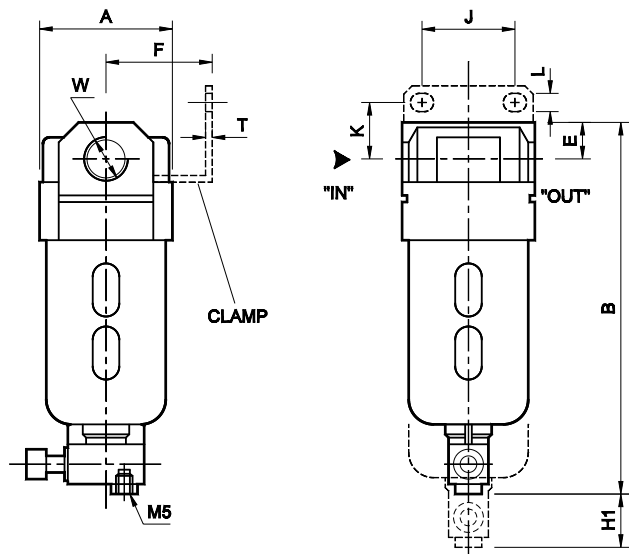


MODEL	W	V		A	B	E	F	K	GØ	J	L	T	H1
MA13	NPT 1/8 (G1/8) NPT 1/4 (G1/4)	NPT 1/8 (G1/8)	Inch (mm)	SQ 1.575 (40)	6.69 (170)	2.68 (68)	1.181 (30)	1.771 (45)	1.102 (28)	1.102 (28)	0.216 (5.5)	0.079 (2)	1.968 (50)
MA14	NPT 1/4 (G1/4) NPT 3/8 (G3/8)	NPT 1/8 (G1/8)	Inch (mm)	SQ 2.165 (55)	8.66 (220)	3.74 (95)	1.574 (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)

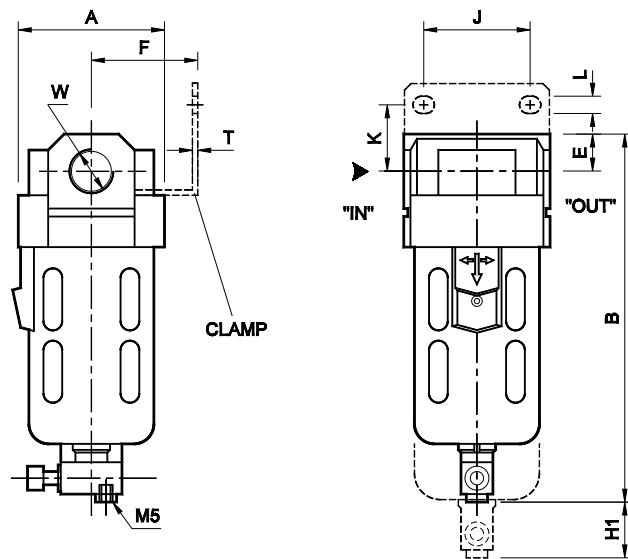
For Details of Clamp see optional accessories

# Filter - Series MA

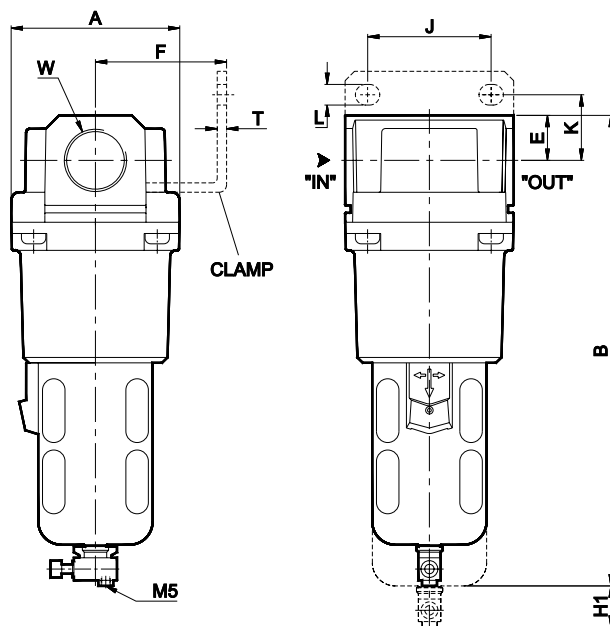
## Model MA13F



## 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)

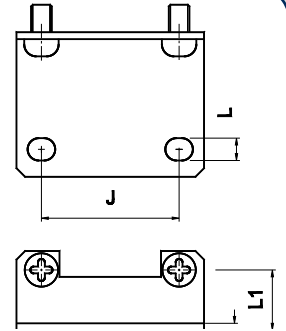
For Details of Clamp see optional accessories

# Accessories - Clamps

## Clamp for filter, Lubricator



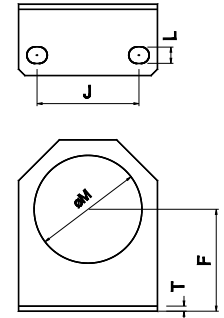
MODEL		J	L	L1	T	ORDERING NO.
MA13	Inch	1.102	0.216	0.551	0.079	MA13FB
	mm	28	5.5	14	2	
MA14	Inch	1.575	0.256	0.69	0.079	MA14FB
	mm	40	6.5	17.5	2	
MA15	Inch	2.165	0.335	0.87	0.079	MA15FB
	mm	55	8.5	22	2	
MA17	Inch	2.60	0.43	1.30	0.20	MA17FB
	mm	66	11	33	5	



## 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	

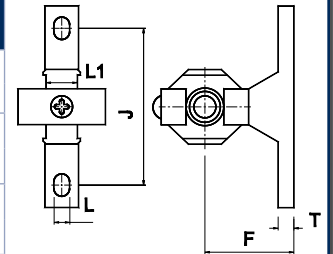


# Accessories - for Modular Construction

## Wall Mounting Bracket



MODEL		L1	J	L	F	T	ORDERING NO.
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  
**Example:** Wall Mounted Bracket for 3/8 Filer, Regulator, Lubricator Series F14, R14, L14 : Ordering no: A2W02

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 4,000 PSIG while the Aluminum version is 2,150 PSIG.

The P350 filter can be found in Tab 5.

