

M1R & M2R

- Modular design for service & interchangeability
- Featuring Bellofram rolling diaphragms
- Miniature (M1) & Standard (M2) sizes
- Non-rising adjustment knob with push-pull lock ring feature
- Small package size and light weight construction
- Competitively priced

M1R

The Type M1R Miniature Air Regulator is a compact, low cost regulator, which operates in output pressure ranges up to 120 PSIG, with a maximum supply pressure of 145 PSIG. The Type M1R is available in 1/8 and 1/4 NPT port sizes. With a flow of up to 40 SCFM and low droop, the M1R provides the features of a large regulator in a small package.

M2R

The Type M2R Air Regulator is a mid-sized version of the M1R Miniature Air Regulator. Like the M1R this is a low cost regulator with output ranges up to 120 PSIG with a maximum supply pressure of 145 PSIG. The M2R is available in 1/4, 3/8, or 1/2 NPT port size. The Type M2R can provide flow rates to 90 SCFM.

Applications

- Instrumentation
- Control Panels
- Actuation
- Compressed Air
- Low Flow and Pressure



M1

M2

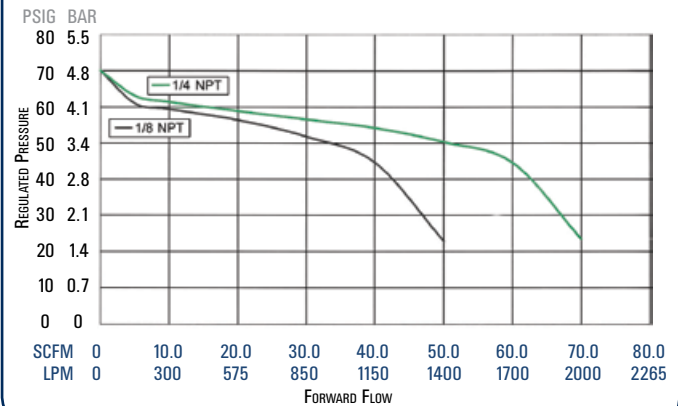
Filters				
Port Size	1/8, 1/4 NPT		1/4, 3/8, 1/2 NPT	
Filtration (micron)	5μ, 25μ, 50μ		5μ, 25μ, 50μ	
Maximum Supply Pressure	1.0 MPa 10 BAR 145 PSI		1.0 MPa 10 BAR 145 PSI	
Temperature Range	41°–140°F / 5–60°C		41°–140°F / 5–60°C	
Drain	Manual / Semi-Auto		Manual / Semi-Auto / Auto	
Bowl Capacity	0.75 inch ³		2.75 inch ³	
Flow (based on 100 PSI inlet pressure with 50 micron filter)	55, 85 SCFM		120, 120, 120 SCFM	
Regulators				
Effect of Supply Pressure variation (25 psig) on Outlet Pressure	< 0.2 PSIG		< 0.2 PSIG	
	13.8 mBAR		13.8 mBAR	
Exhaust Capacity (5 psig above 20 psig set point)	< 0.25 SCFM		< 0.25 SCFM	
	< 7 LPM		< 7 LPM	
Maximum Supply Pressure	145 PSIG		145 PSIG	
	10 BAR		10 BAR	
Flow Capacity at 100 PSIG (6.9 BAR) supply and 70 PSIG (4.8 BAR) outlet	40, 60 SCFM		90, 120, 120 SCFM	
Output Pressure Ranges	0-10 PSIG	0-0.69 BAR	0-10 PSIG	0-0.69 BAR
	0-30 PSIG	0-2.1 BAR	0-30 PSIG	0-2.1 BAR
	0-60 PSIG	0-4.1 BAR	0-60 PSIG	0-4.1 BAR
	0-120 PSIG	0-8.3 BAR	0-120 PSIG	0-8.3 BAR
Total Air Consumption @ Maximum Output	0.3 SCFH		0.3 SCFH	
	0.14 LPM		0.14 LPM	
Port Size	1/8, 1/4 NPT		1/4, 3/8, 1/2 NPT	
Mounting Options	Pipe, Panel or Bracket		Pipe, Panel or Bracket	
Filter-Regulators				
Port Size	1/8, 1/4 NPT		1/4, 3/8, 1/2 NPT	
Filtration (micron)	5μ, 25μ, 50μ		5μ, 25μ, 50μ	
Maximum Supply Pressure	1.0 MPa		1.0 MPa	
	10 BAR		10 BAR	
	145 PSIG		145 PSIG	
Temperature Range	41–140°F / 5–60°C		41–140°F / 5–60°C	
Drain	Manual / Semi-Auto		Manual / Semi-Auto / Auto	
Bowl Capacity	0.75 inch ³		2.75 inch ³	
Regulator Output Range	0-10, 0-30, 0-60, 0-120 PSI		0-10, 0-30, 0-60, 0-120 PSI	
Flow (based on 100 PSIG supply/70 PSIG out)	40, 60 SCFM		90, 120, 120 SCFM	

M1 & M2 Part Matrix

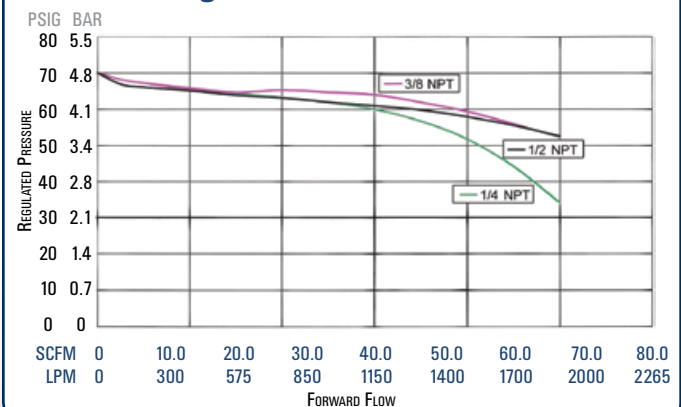
	↑	↑	↑	↑	↑	Size
M1						Miniature Series
M2						Standard Series
						Description
	F					Filter
	R					Regulator
	FR					Filter Regulator
						Port Size
		1N				1/8 NPT (M1 only)
		2N				1/4 NPT
		3N				3/8 NPT (M2 only)
		4N				1/2 NPT (M2 only)
						Pressure Ranges
		A				0-10 PSIG, Optional
		L				0-30 PSIG, Optional
		M				0-60 PSIG, Optional
		H				0-120 PSIG, Standard
		-				Omit for Filters
						Filters
		C				50 Micron Filter, Standard
		B				25 Micron Filter
		F				5 Micron Filter
		-				Omit for Regulators
						Drain
		M				Manual Drain, Standard
		S				Semi-Automatic Drain
		A				Auto Drain (M2 only)
		-				Omit for Regulators

Note: Individual regulators, FRs, Filters come complete with bracket.

M1: Regulated Pressure VS. Flow



M2: Regulated Pressure VS. Flow

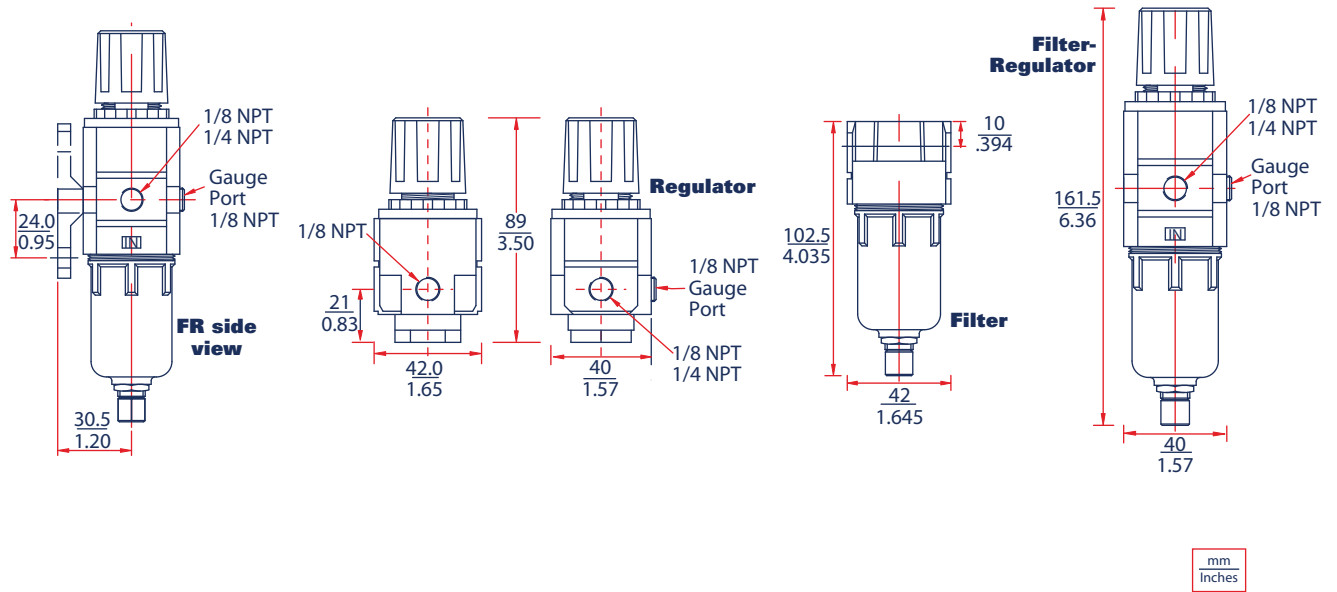


Replacement Parts

Description	Model Number
	M1K
Standard Size Connector Kit	M2K
	M1FB
Standard Size Filter Bracket	M2FB
Miniature Size Regulator or Filter Regulator Bracket	M1RB
Standard Size Regulator or Filter Regulator Bracket	M2RB

Description	Model Number
	M1FK05
Miniature 25 micron Filter Element	M1FK25
Miniature 50 micron Filter Element	M1FK50
Standard 5 micron Filter Element	M2FK05
Standard 25 micron Filter Element	M2FK25
Standard 50 micron Filter Element	M2FK50
	M1DM
Miniature Bowl / Semi-Automatic Drain Assembly	M1DSA
Standard Bowl / Manual Drain Assembly	M2DM
Standard Bowl / Semi-Automatic Drain Assembly	M2DSA
Standard Bowl / Automatic Drain Assembly	M2DA

M1



M2

