

Clippard

M-MAR-1 Series Miniature Pressure Regulators

Relieving & Non-Relieving Versions



When Clippard introduced a miniature regulator in 1962, the M-MAR-1 became very popular as a **simple, robust, and cost-effective** regulator in a small package with **exceptionally long life**. As regulator applications continue to increase, Clippard is meeting the demand with a variety of new models, options and improvements.

Regulators are offered in either relieving or non-relieving versions. The relieving design maintains a constant pressure output even when downstream conditions change, while non-relieving regulators do not automatically compensate for changes in downstream flow or pressure. There is no vent to atmosphere, as in a relieving type regulator, and the output pressure can increase due to a downstream event. Non-relieving versions can accommodate compatible liquid applications.

Medium: Air, Water* or Liquid*

Input Pressure: 21 bar max.

Air Flow: 85 l/min @ 3.5 bar; 140 l/min @ 7 bar

Temperature Range: 0 to 110°C

Mounting: M12x0.75 thread. Nuts and lockwashers furnished

Materials: Brass body, Nitrile seals (FKM optional "-V"), stainless steel stem and spring

Adjustment: By means of a knob with micro-adjustment (40 pitch thread). Screwdriver slot and plastic adjustment versions also available.

1C and 1CP Models: As plunger is depressed, pressure increases proportionally to the travel; when plunger is released the input is closed and the output pressure is exhausted to atmosphere. 5.5 mm plunger travel.

* Non-Relieving models only

New Mounting Configurations



NEW Cartridge Mount Option

NEW M5 Manifold Mount Style

NEW R1/8 Mounted Option with Swivel Output

Adjustment Options



**Standard
Knurled
Knob**



**NEW
Screwdriver
Slot**



**Large
Plastic
Knob**

Order Information

Inlet	Outlet	Base Part No.
M5 Female	M5 Female	<u>M-MAR-1</u>
R1/8 Male	M5 Female	<u>M-MAR-1P</u>
M5 Male	Manifold	<u>M-MAR-1M</u>
M5 Female	M5 Female	<u>M-MAR-1C</u>
R1/8 Male	M5 Female	<u>M-MAR-1CP</u>
Cartridge	Cartridge	<u>M-MAR-1R</u>
R1/8 Male	G1/8 Female	<u>M-MAR-1BP</u>

FKM Seals and Electroless Nickel Plating also available

Example Part No.: M-MAR-1BPF-5

Options



Knob

(blank) Knurled Knob
K Plastic Knob
F Screwdriver Slot

Plunger release standard
on 1C and 1CP models



Type

(blank) Relieving
NR Non-Relieving

NR not available on C
and CP models



Max. Pressure Range

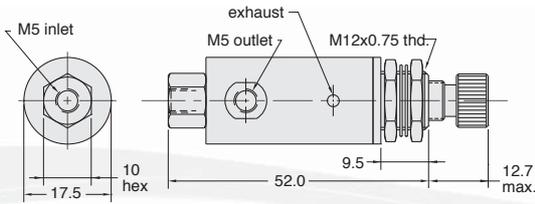
(blank) 0.7 - 6.9 bar
-2 0.7 - 1.4 bar
-3 0.7 - 2.1 bar
-4 0.7 - 2.8 bar
-5 0.7 - 3.4 bar
-6 0.7 - 4.1 bar
-7 0.7 - 4.8 bar

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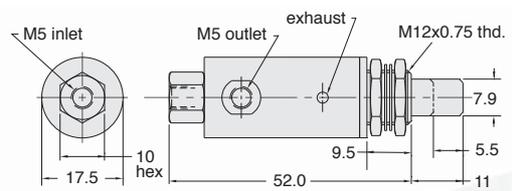
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Technical Data Bulletin 11.14

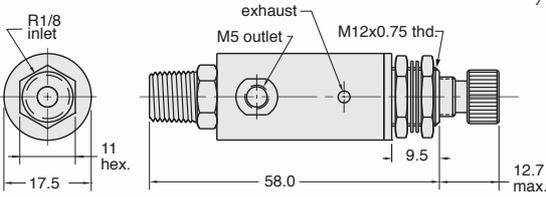
M-MAR-1



M-MAR-1C

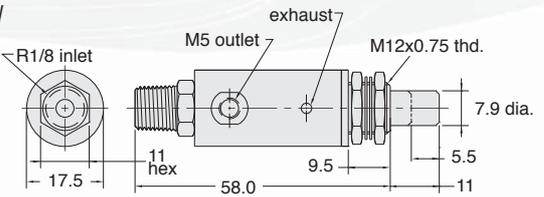


M-MAR-1P

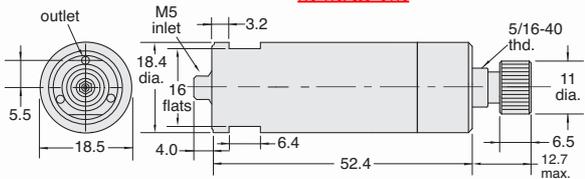


All models illustrated with Knurled Knob adjustment

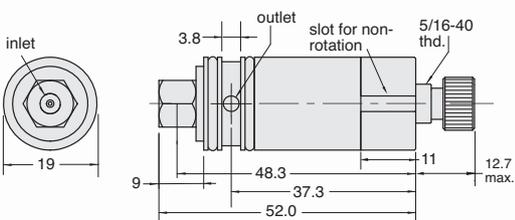
M-MAR-1CP



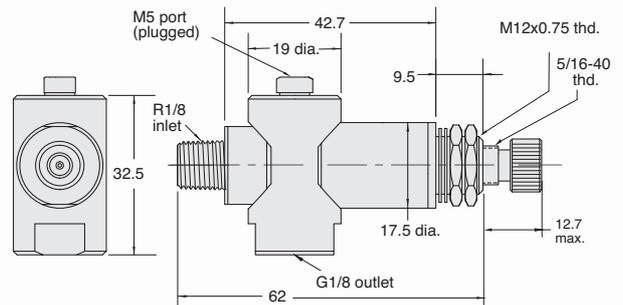
M-MAR-1M



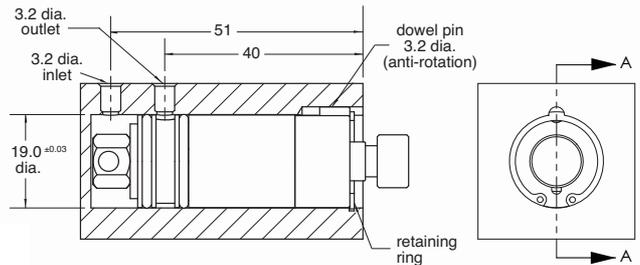
M-MAR-1R



M-MAR-1BP



Cartridge Bore Dimensions



CUSTOMer solutions

Custom Regulators

Special Configurations & Assemblies

If you need a product that fits your application perfectly, Clippard has the capability to design or modify one of its products to suit your exact needs. We understand that a standard catalog product may be close but not be exactly what you need. We have the ability and capacity to give you what designed tens of thousands of special variations, modifications or completely special regulators and other products.

Call today with your unique application!



- Robust, Compact & Reliable
- Multiple Medias
- Manifold & Cartridge Style Mounting
- Preset to Pressure
- Pre-Assembled & Tested

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