

M-500

PRESSURE DROP ACTIVATED TRAP SEAL PRIMER

REPLACEABLE STAINLESS STEEL FILTER SCREEN



3 P.S.I PRESSURE DROP

Only a three p.s.i. line pressure drop is required to activate the primer, compared to five or ten p.s.i. by others. Lower water voume fixtures and faucets has resulted in lower line pressure drops. A three p.s.i. performance point ensures reliable water delivery to maintain the trap seal.

NO PRECHARGE

MIFAB's trap seal primers can be disassembled in the field for easy cleaning and repair, without risk of losing a precharge.

VIEW HOLES

Four view holes permit easy inspection of water delivery. The holes are across from each other, enabling light at the opposite end to illuminate the performance of the primer.

SEDIMENT FILTER

A replacement stainless steel sediment filter prevents line debris from entering the primer. This can be replaced after wear and build up of debris to ensure maximum life and performance of the primer.

NO ADJUSTMENTS (except for M3-500-NPB)

The replaceable and repairable cartridge tubes inside of the body are factory engineered to deliver enough water to service three, six or ten floor drain traps without adjustment. This eliminates confusion during field installation.

The M-500 Series of trap seal primers are tested and third party listed to the A.S.S.E. 1018 Standard.

FUNCTION AND DESCRIPTION: MIFAB's M-500 Series of pressure activated trap seal primers (MR-500-NPB, M1-500-NPB and M2-500-NPB, M3-500-NPB) can be connected to any cold water line, and will be automatically activated when a valve or faucet, that is on the line, is opened. A pressure drop of three p.s.i. will activate all of the trap seal primers. MIFAB's M-500 Series of trap seal primers can be disassembled in the field. Their unique design permits filter replacement without affecting the performance of the primer. The "O" ring seals are tested for reliability at a temperature range of -40 degrees to 450 degrees F. The M-500 Series of trap seal primers do not require adjustment. The opening range for all of MIFAB's M-500 Series of trap seal primers is 20 to 80 p.s.i. All three models are listed with I.A.P.M.O. and C.S.A. and are tested and certified to the A.S.S.E. Standard 1018 and are so marked. U.S. Patent # 6,152,164.



*The wetted surface of the -NPB Series of trap seal primers contacted by consumable water contains less than one quarter of one percent (0.25%) of I ead by weight.

	M-500 SERIES				
MODEL NO.	Α	В	PIPE FLATS	DRAINS SERVED	WATER OUTPUT
MR-500-NPB	4-1/8"	1-1/4"	1-1/8"	6	1/2 ounce
M1-500-NPB	4-1/8"	1-1/4"	1-1/8"	10	1 ounce
M2-500-NPB	4-1/8"	1-1/4"	1-1/8"	3	1/4 ounce
M3-500-NPB	4-1/8"	1-1/4"	1-1/8"	10	1 ounce
MR-500-SS (Stainless Steel)	4-1/8"	1-1/4"	1-1/8"	6	1/2 ounce

OPTIONAL VARIATIONS

-RC REPLACEMENT CARTRIDGE
-RF REPLACEMENT FILTER SCREEN

CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Job Name:	Page No:
Section No:	Contractor:
Schedule No:	Purchase Order No:

MIFAB® reserves the right to make changes in material and design without formal notice and obligation.

USA: 1-800-465-2736 www.mifab.com CAN: 1-800-387-3880

TRAP SEAL PRIMER TROUBLESHOOTING

Following are some things to trouble shoot when it comes to our M-500-NPB Series of Trap Seal Primers (M1-500-NPB, M2-500-NPB, M3-500-NPB):

1) WHAT IS THE LINE PRESSURE FOR THE INSTALLATION?

The M-500-NPB Series of trap seal primers will work within a line pressure range of 35-80 psi. Do not subject the trap seal primer to pressure in excess of 80 psi. The trap seal primer must be installed on a cold fresh water line of $1\frac{1}{2}$ diameter or less.

2) HOW FAR AWAY IS THE TRAP PRIMER FROM THE SOURCE OF THE PRESSURE DROP?

Anything farther away than 20 feet is an issue, as the farther the primer is away from the source of the pressure drop, the less likely it will sense it and work.

3) WHAT IS THE PRESSURE DROP WHERE THE PRIMER IS? MIFAB's M-500-NPB Series of primers will work with as little as 3 psi in pressure drop. With today's low flow and consumption faucets, there is less pressure drop being created when the faucets and toilets are used. Therefore, it is recommended to install the trap seal primer as close to the low flow fixture as

4) WATER HAMMER ARRESTORS ON THE LINE CAN ALSO AFFECT PRESSURE DROP IN THE LINE.

It would be best to get a pressure reading where the trap primer is installed. The M-500-NPB series needs a fast, sharp pressure drop to activate. The long pipe run to the trap primer and the water hammer arrestor may not be allowing the trap primer to function properly.

5) LOOK AT THE GAUGE FLUCTUATION

Is it a quick and sharp pressure drop? Or did it gradually drop? The trap primers need a quick pressure drop to activate. A slow gradual pressure drop may not be enough to activate the M-500-NPB. That is why we state that they should be as close to the pressure drop source as possible. The M1-500-NPB has the most buoyant cartridge and should perform the best. If the trap primer looked good and was filled with water then it is the rate of the pressure drop that is causing the issue.

6) WATER HEATERS

Do not install the trap seal primer on a water heater line due to insufficient pressure drop.

7) NOT WORKING

In some cases, the installation conditions cannot deliver the required 3 psi pressure drop to activate MIFAB's MR-500-NPB, M1-500-NPB and / or M2-500-NPB trap seal primers. In such cases, MIFAB® recommends the use of the M3-500-NPB (page 4) adjustable trap seal primer which does not require a pressure drop to activate or the MI-100 (page 8) Series of electronic trap seal primers which also do not require a pressure drop and are electronically programmed to deliver a specific amount of water at specific time intervals.

Also refer to the copy in the Trap Seal Primer section (Pages 1-4).

M-500-NPB SERIES INSTALLATION INSTRUCTIONS

Use a 1 1/8" open end wrench to install the M-500-NPB Series of trap seal primers to the line by using the flats on the top of the trap seal primer. Water lines must be flushed before installing MIFAB's MR-500-NPB Series of trap seal primers. The leading cause of trap seal primer performance problems is interference from foreign debris. The trap seal primers should be cycled at least six times to reduce problems of interference from foreign debris. The following steps are highly recommended:

- Ensure that all flux and other debris is removed from supply line to the primer.
- Use only teflon tape around threads, NEVER use pipe dope.
- Do not solder fittings directly onto the inlet or outlet of the primer, as the primer uses a PE (polyethylene) cartridge.

Failure to follow these instructions will negatively affect performance of the product. MIFAB's primers have a unique design which allows the primer to be taken apart and cleaned before re-assembly. Do this in the event of excess water discharge.

Trap seal primers should be mounted one foot above the finished floor for every twenty feet of floor drain trap make-up water line. For easy access to the trap seal primer, install a union connection above it. Install a line shut off valve upstream of the trap seal primer in order to shut off the water supply when performing maintenance on the trap seal primer.

INSPECTION INSTRUCTIONS

After installing and pre-cycling the trap seal primer, use any of the four holes to view water discharge from the orifice. A light can be placed opposite the viewing hole to improve clarity in this inspection.

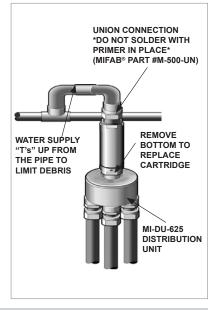
MAINTENANCE INSTRUCTIONS

In order to replace the filter screen, remove the trap seal primer by using an open end wrench on the top set of flats. Grasp the top of the filter screen with fingers, squeeze and remove the filter. Insert the new filter screen by squeezing and pushing it firmly down into the top of the trap seal primer. Re-install the trap seal primer using the top set of flats. In regions that experience heavy residual deposits such as calcium in the water supply, MIFAB's M-500-NPB Series of trap seal primers can be field refurbished by removing the bottom end of the primer, and replacing the cartridge.

Go to www.mifab.com for more information on maintenance of trap seal primers.

"The MIFAB® MR-500-NPB is a well proven product. We have sold many for many years and I don't recall any ever coming back or a customer being unsatisfied. The distribution boxes are a well thought out item also. Good job MIFAB®!"

- Rick Sharp, Sales Manager, Lion Plumbing Supply, Miami, FL



CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Design and dimensions are subject to modification. Prices do not include applicable taxes.

Visit www.mifab.com for the most recent product information.

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