



## MVD INLET ORIFICE ACCELERATOR SELECTION CHART AND INSTALLATION INSTRUCTIONS

Congratulations and thank you very much for your purchase of our newly redesigned MVD manifold system. The most important change to the MVD has been the addition of the INLET ORIFICE ACCELERATOR BUSHING. This bushing has allowed us to eliminate the need of having to custom build each manifold to fit each application, so you may plug any number of outlets you wish. You now only have to choose between two 16 outlet manifold sizes, large or small, depending on your spacing and it will be capable of handling most if not all of your desired application rates with excellent results. The key to this is the INLET ORIFICE ACCELERATOR BUSHING. By installing the accelerator bushing in the inlet of the MVD at the lower ranges we “accelerate” the ammonia inside the manifold giving us excellent distribution at low and high rates. Below is a chart that will assist you in selecting the proper orifice for your application rate if needed.

First we need to determine which manifold you have. Locate the rate range stamp on the top side of the ring. It should be either **LG** or **SM**.

Secondly we need to determine your lbs N per outlet.

To determine your pounds of N per outlet use the following formula:

**Tool bar width in feet X Speed X lbs. N per acre X .1212 = Total lbs N per hour.**

**Then taking your Total lbs N per hour and dividing it by your number of outlets will get you pounds of N per outlet.** For example let's say you purchased an A-MVD-16A201 manifold and you have 37.5 ft. bar with 15 knives traveling at 6 MPH and applying 150 Lbs of N per acre. The formula would be used as follows:

**37.5 ft bar X 6 mph X 150 lbs N X .1212 = 4090 lbs N per hour**

Then take your lbs N per hour and divide it by your number of knives **4090 / 15 = 272 lbs N per outlet**

Once you have determined your lbs. of N per outlet find the orifice accelerator bushing that correlates with the desired range of N per outlet in the chart below

**THIS CHART IS FOR 100 LB TANK PRESSURES  
FOR 50 LB TANK PRESSURES REDUCE RATE RANGES BY 25 PERCENT.**

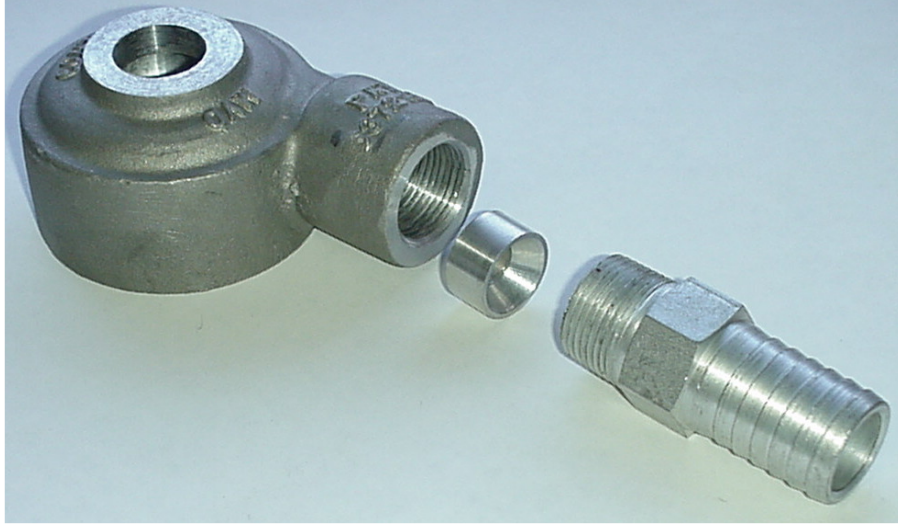
Rate stamp	ORIFICE #1	ORIFICE #2	ORIFICE #3	NO ORIFICE NEEDED
SM	20 – 70	70 – 100	N/A	100 – 150
LG	N/A	N/A	130 – 250	250 – UP

Note: The orifices accelerator bushings are stamped on the back side with a number 1, 2, or 3

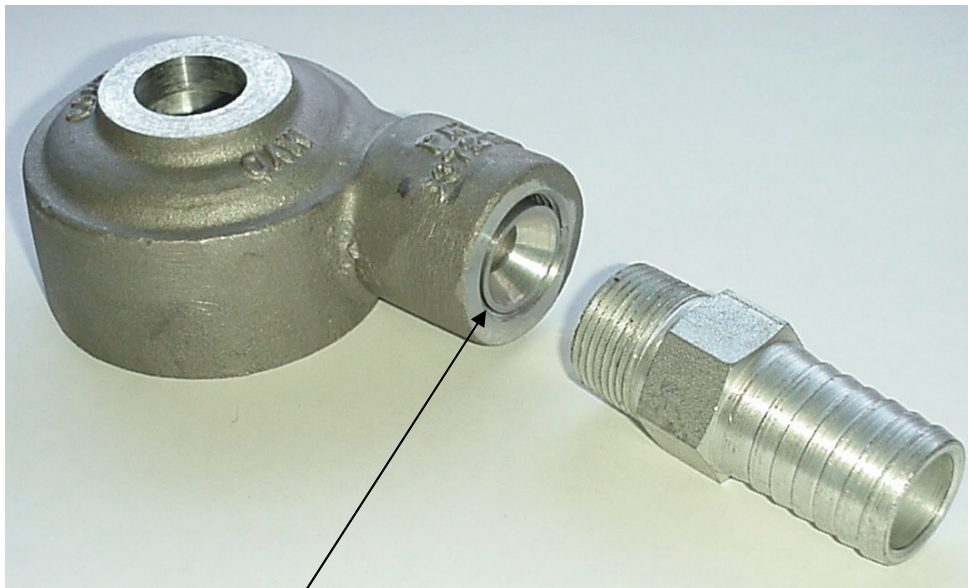
PLEASE SEE THE FOLLOWING PAGE FOR INSTALLATION INSTRUCTIONS

**130 Yorktown Dallas, TX 75208      800-537-5642      214-761-9519      214-741-6081**

To install the orifice accelerator bushing you need to remove the inlet hose barb as shown in the photo below.



Then insert the bushing as shown in the photo below with the angle portion of the bushing facing the hose barb and replace the inlet hose barb and tighten.



Note direction of accelerator bushing

**\*NOTE\* YOU MAY PLUG ANY NUMBER OF OUTLETS BY REMOVING THE HOSE BARB AND INSTALLING A 1/8" PIPE PLUG. WHEN PLUGGING ANY UNUSED OUTLETS PLEASE SPACE THEM AS EVENLY AS POSSIBLE.**

**IF YOU HAVE ANY QUESTIONS PLEASE CONTACT US AT  
800-537-5642**