



**High Pressure
Equipment
Company**

**Assembly Instructions for Micro Control
Metering Valve**

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Micro Control Metering Valve

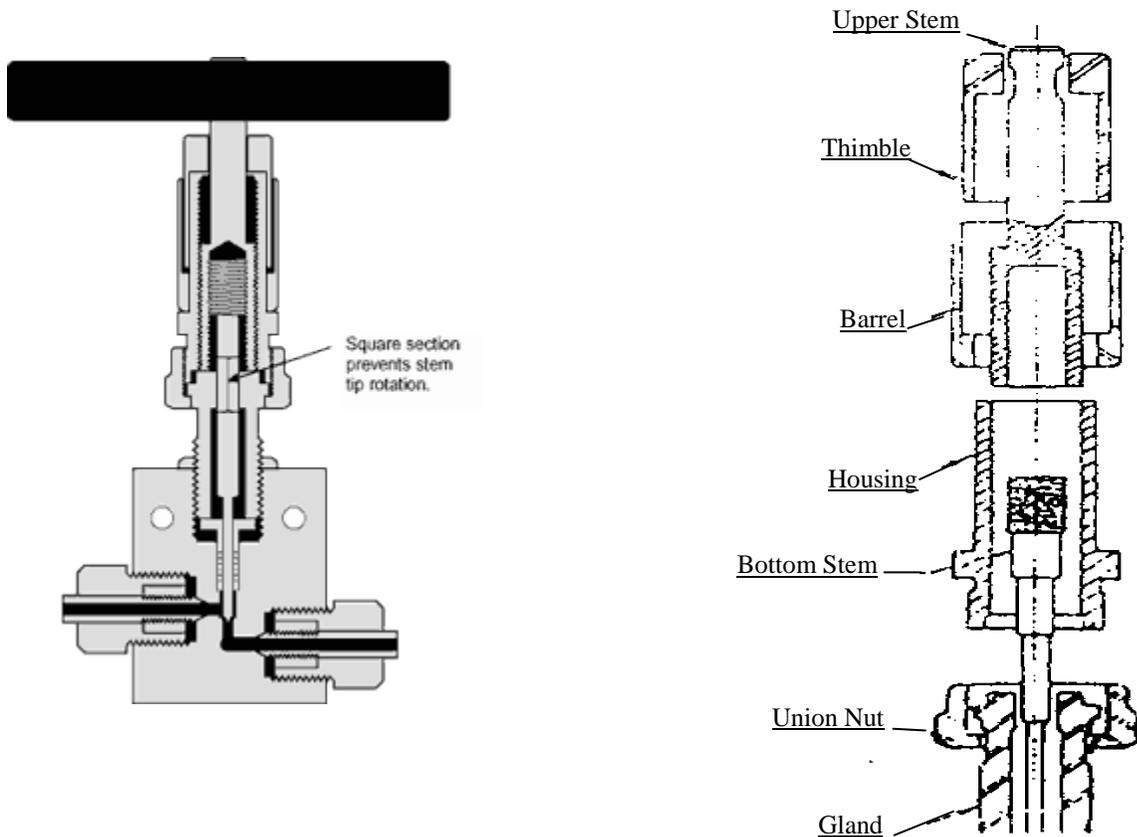
Description:

The Micro Control Metering Valve assembly is available for valves in a variety of connection sizes and pressure ranges. This unique stem design operates on the principle of a right-hand threaded component operating in an opposite direction of motion to a left-hand threaded component.

As the pitch sizes of these threads are different from each other, a very fine and precise stem travel is made possible. This provides exceptional control that is not possible with ordinary fine pitched stem designs.

Each complete revolution of the stem provides 0.005" stem travel. The vernier indicator allows readings in increments of one-tenth of a revolution (0.0005" stem travel).

The non-rotating lower section stem is ground to a 9 degree included angle to insure maximum control. While this valve may be turned to the fully off (closed) position, it is always preferable to provide a separate on-off valve in the system to protect the precise control of the metering valve.



Micro Control Assembly Instructions

1. Insert packing washers and packing into valve body.
2. Assemble union nut and lock nut onto packing gland and loosely crew packing gland into stuffing box.
3. Insert bottom stem into valve making sure it is touching the seat.
4. Tighten the packing gland and lock nut
5. Rotate upper stem onto bottom stem until it is approximately 3/32 above packing gland. Press upper stem downward to make sure the lower section is still in contact with the seat and that at least 3/32 clearance remains between the upper section stem and the packing gland.
6. Rotate the housing down over upper section stem while holding upper section stem to prevent it from rotating. Housing should seat against the gland nut, but do not continue to rotate the housing on the gland nut or it will draw the lower section stem upward.
7. Tighten the union nut onto the housing.
8. Place the barrel and thimble over housing and tighten the set screws on the outer barrel only. Assemble valve handle onto the stem.
9. Test valve on oil or gas to locate the correct seating position of stem and tighten set screws in thimble while located in the "0" setting. Make sure the barrel and thimble are in proper alignment and not cocked to one side.