

V5011P, V5013P TWO-WAY AND THREE-WAY BSPT THREADED GLOBE VALVES

Location

Select a location where the valve, linkage (if used), and actuator to be used are within the appropriate ambient pressure and temperature ratings.

Leave sufficient clearance above the valve to accommodate installation of the actuator and allow room for servicing the valve body. (The valve body should be completely installed in the pipe line before the actuator and linkage are installed.)

When selecting a location for the valve, consider actuator mounting restrictions. Most Modutrol IV Motors require that shafts be mounted horizontally.

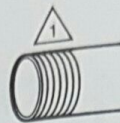
Mounting

The preferred mounting position of the valve is with the stem vertical. For steam applications, mount with the stem at a 45 degree angle. Do not mount the valve with the stem more than 90 degrees from the vertical (pointing lower than horizontal). Scale and foreign material can collect and can score the stem and cause packing leakage. Protect the stem from damage due to bending or scratching.

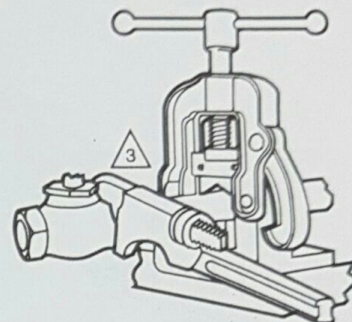
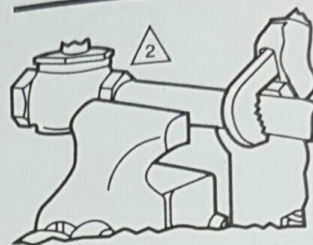
V5011P, V5013P screwed body threads conform to British Standard Taper Pipe Threads (BSPT).

Align the pipes squarely with the valve at each end connection. If the pipes are forced into the valve, the body can become twisted and improper seating can result. Apply pipe dope sparingly. Be careful to prevent pipe debris such as pipe chips, scale, etc., from entering the piping because this material can lodge in the seat and prevent proper closing.

Refer to Fig. 1 for valve pipe sizes and thread lengths. Fig. 1 also shows two effective methods of holding the valve and pipe when attaching it. The valve will not function properly if twisted or squeezed during installation.



Pipe Size		Effective length of threads	
In inch	In mm	In inch	In mm
1	DN25	11/16	17.5
1-1/4	DN32	11/16	17.5
1-1/2	DN40	11/16	17.5
2	DN50	3/4	19.1



- 1 USE PROPERLY REAMED AND CLEANED PIPE AND MODERATE AMOUNT OF DOPE (LEAVE TWO THREADS BARE).
- 2 USE VISE GRIPS WITH THE HEX END NEXT TO THE PIPE (DO NOT TWIST OR SQUEEZE VALVE BODY).
- 3 USE VISE TO HOLD PIPE SECURELY TO PREVENT TURNING. USE PARALLEL-JAW WRENCH TO GRIP VALVE HEX FLATS NEXT TO PIPE.

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Fig. 1. Installing valve with threaded connections.

CHECKOUT

Before installing linkage (if used) and actuator, make sure that valve stem operates freely. Impaired stem operation can indicate that the body was twisted or that the stem was bent. Either of these conditions may require valve replacement.

Check valve body and connections for leaks. After installing linkage and actuator, check the operation according to installation information provided with these controls. Operate the system through one complete cycle to be sure the valve controls properly.