



KEYSTONE SLURRY CONTROL VALVES

FIGURE 2000

Installation and commissioning instructions for Figure 2000 slurry control valves

STORAGE INSTRUCTIONS

To protect disc edges during storage or installation/removal, ensure disc is in the closed position. The valve faces should be adequately protected against damage and coated with corrosion inhibitor even when stored under cover.

FLANGE AND PIPE COMPATIBILITY

Emerson valves are suitable for installation between most international standard flange systems of AS 2129/ASME 150 rating. Refer valve literature sheet for standard drillings. Weld neck flanges (flange ID approximates valve bore) are recommended to ensure maximum valve performance. However, slip-on flanges may be used.

CAUTION

Do not weld near the valve, as this will result in serious damage to the valve.

INSTALLATION

1. Ensure that the flanges are clean, undamaged and compatible with the valve.
2. Spread the flanges to allow sufficient clearance for the valve.
Do not use the valve as a crow bar.
3. Loosely fit two bolts at the bottom of the flanges to bear the weight of the valve.
4. Close the valve so that the disc edge is within the body (about 5° open).
5. Insert the valve between the flanges.
6. Loosely fit the remainder of the flange bolts.
7. Center the valve and ensure the flanges are properly positioned.
8. Hand tighten all the flange bolts.
9. Slowly open the valve fully and check for adequate disc clearance. (The disc is in line with the parallel flats or keyway in the stem).
10. Cross-tighten all the flange bolts.

ACTUATOR MOUNTING INSTRUCTIONS

The F79U pneumatic actuator is mounted directly to the valve top plate with four studs, nuts and washers. The actuator is normally installed parallel to the pipeline.

1. Ensure that the valve and actuator are in the fully closed position (the drive shaft keyway perpendicular to the actuator piston-cylinder axis). The valve shaft flats should be parallel to the disc and the keyway in line with the disc.
2. Check that the actuator mounting studs are tightly installed in the actuator housing. (On models with two mounting bolt circles, check that the mounting studs correspond to the valve top plate mounting holes).
3. Install the correct boss (if required) and mount actuator on the valve.
4. Install a lockwasher and nut on each mounting stud and tighten.
5. Connect an appropriate air supply to the actuator, this unit normally requires a 550 kPa clean, dry air supply.
7. The F79U pneumatic actuator is factory lubricated and requires no maintenance.

SAFETY PRECAUTIONS

Whenever a valve is being installed or removed from the pipeline, ensure the line is not pressurized and any hazardous medium is drained away.

GENERAL

Keystone butterfly valves are bi-directional and will control flow in either direction of flow. In most horizontal pipe installations it is recommended that the valve be installed with its shaft horizontal and the lower disc edge opening downstream, particularly on slurry or sedimentary duties.

Do not use flange gaskets or sealing compounds. The Keystone butterfly seat-face design eliminates the need for gaskets.

MAINTENANCE

Routine maintenance or lubrication are not required.



