



# MEGTEC Poppet Valves

RTO/RCO



MEGTEC's poppet valve design contains many features which enhance the performance of your oxidizer. Six Sigma Quality procedures were utilized in the design and testing of the MEGTEC poppet valves. MEGTEC has approximately 250 horizontal valve assemblies already in service.

- ➔ The MEGTEC poppet valve is manufactured as a complete module. The valve assembly is constructed as one complete rigid structure. Seats are mechanically fastened together and the seat assembly is mechanically fastened to the actuator structure. The valve is subjected to 30 Critical to Quality (CTQ's) checks to ensure each and every valve operates as designed.
- ➔ The disk assembly is designed to reduce stresses in the disk caused by the deflecting of the disk during seating.
- ➔ The disk assembly travels 15 inches from inlet to outlet seat, the cylinder moves 16 inches to improve overall removal efficiency.
- ➔ The disk assembly is manufactured from P and O carbon steel plate. The sealing connection between the seat and disk is a knife edge type seal. This type of seating action is effective against condensate or particulate build-up on the disk or seating surface.
- ➔ All shafting is solid carbon with dense chrome plating steel so flammable particulate or condensate cannot build-up inside the shaft as it would in a hollow shaft.



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- ➔ The shaft has an inner and outlet seal to reduce the amount of fugitive emission leaking from the housing.
- ➔ Air tight access doors are provided for maintenance of poppet valves. These doors are designed to allow for insulation and cladding when required.
- ➔ All maintenance requirements with detailed written procedures are supplied with the valves.
- ➔ Multiple valve sizes available to keep inlet and outlet velocities low, reducing pressure drop and overall operating costs.
- ➔ This valve design has been successfully retrofitted into competitor's oxidizers.
- ➔ MEGTEC has also completed life cycle testing of our horizontal design. This testing was used to determine the required maintenance schedule which will help to minimize customers downtime.

Technical Bulletin

For further information, availability, please contact your nearest MEGTEC office by visiting [www.megtec.com](http://www.megtec.com) and click on parts and upgrades or email to [info@megtec.com](mailto:info@megtec.com).