

Specification - Hartman Model 90  
150 psi and 300 psi Rubber Seated Ball Valve  
AWWA C507

All rubber seated ball valves shall conform to the design and material requirements of this Standard, with the following additional requirements.

The ferrous materials of construction of the valve body, end adapters, and ball shall be ductile iron.

The valve shafts shall be A564 grade 630 stainless steel, and have unsplit chevron seals on both shaft ends to eliminate hydrostatic imbalance. The unsplit chevron seals shall be provided with grease fittings.

The operating mechanism shall not be close coupled to the valve body, and space shall be provided between the valve body and the operating mechanism to repack the valve shaft seals.

Adjustable thrust bearings, outside of the chevron seals, shall be provided.

Provision shall be incorporated to allow the valve plug to be locked in either the open or closed position with the actuator removed.

Rubber seals shall be located in the body outlet adapters, and shall provide bubble tight shutoff at all differential pressure up to a pressure 150% of the engineer's design pressure for the valve.

The spherically machined 304 or 316 stainless steel seats on the ball shall provide 3 degrees of arc sealing against the rubber body seats, and shall be field adjustable and replaceable.

The valves shall be a product of a valve manufacturer engaged in the design and manufacture of a rubber seated ball valve to AWWA C-507 for over 25 Years.

The valve shall be warranted for five years from date of delivery.

After contract is awarded, and prior to the manufacture of the valve(s), a complete set of manufacturing drawings for the valve(s) to be installed, shall be submitted to the Engineer for review and comment, and the delivered to the customer for future use over the life of the valves.

If throttling is a requirement, the compression molded rubber seals shall incorporate circumferential restraint of the rubber seal to eliminate any possibility of the rubber seal blowing out when the valve is partially open under conditions of high velocity and high differential pressure.

Flange type and ratings shall be as determined by the engineer.

Exterior and interior coatings shall be as determined by the Engineer.

Motor, cylinder or manual actuation shall conform to application AWWA Standards and shall be determined by the Engineer Valve shall be Hartman Model 90 – Texas Representative – Valve and Equipment Consultants, Inc.  
Phone: 281-324-1500.