

AWWA C507 Ball Valves for Pump Control Service

(Complete One Sheet for Each Set of Identical Valves)

Project Name: _____ Location: _____

Engineer Name: _____ Firm Name: _____ Date: _____

Phone: _____ E-mail: _____ GA Representative: _____

Line Fluid: _____ Other (Describe): _____

Type of Pump: _____ Other (Describe): _____

Type of Drive: ☐ Constant Speed ☐ Variable Frequency ☐ Soft Start/Stop

Pump Discharge Size: _____ Design Flow per Pump: _____ USGPM Normal Pumping Pressure: _____ ft.

Pump Suction Pressure (if any): _____ ft. Pump Shutoff Pressure: _____ ft. System Static Pressure⁽¹⁾: _____ ft.

Ball Valve Type⁽²⁾: _____

Ball Valve Size: _____ Number Required: _____ AWWA C507 Pressure Class⁽³⁾: _____

Body and Cover Material: _____

Installation: _____

Type of Actuator: ☐ Water Cylinder Using Line Pressure (Clean Water Only)

☐ Water Cylinder Using Separate Water Pressure @ _____ PSI Min _____ PSI Max

☐ Oil Cylinder Using Oil @ _____ PSI Min _____ PSI Max

☐ Air/Oil Cylinder⁽⁴⁾ Using Air @ _____ PSI Min _____ PSI Max

☐ AC Electric Motor⁽⁵⁾ _____ VAC _____ PH _____ HZ NEMA _____ Rated

☐ DC Electric Motor _____ VDC NEMA _____ Rated

Operating Speed: Normal Opening Adjustable^(6,8) from _____ Seconds Min to _____ Seconds Max

Normal Closing Adjustable^(6,8) from _____ Seconds Min to _____ Seconds Max

Emergency Closing Adjustable^(7,8) from _____ Seconds Min⁽⁵⁾ to _____ Seconds Max

Options: Manual Operator: ☐ Yes ☐ No Model 7700A Pump Director: ☐ Yes ☐ No

NEMA 4 SPDT Pressure Switch with Isolating Valve _____ (Included with Pump Director)

Coatings: Internal Coating: ☐ Standard NSF-61 Epoxy ☐ Other (Describe) _____

External Coating: ☐ Standard Epoxy Primer Coat ☐ Other (Describe) _____

- (1) Pressure on downstream side of ball valve when no pumps in this pump station are operating.
- (2) Most pump control applications need only a single seat on the pump side to prevent reverse flow when the pump is off. A double seated valve is only needed if there is a possibility that suction pressure could exceed downstream system pressure.
- (3) Maximum Working Pressure in PSI per AWWA C507
- (4) Includes "opposed" oil cylinder with self-contained speed control system
- (5) AC electric motor actuator will not close the valve upon loss of electrical power to actuator unless UPS is provided
- (6) Adjustable normal opening and closing time can be provided only with cylinder or AC electric motor actuator with pulse feature. Pulse feature has limitations, consult factory.
- (7) Separately adjustable emergency closing time can be provided only with cylinder actuator. DC motor with battery back-up or AC electric motor actuator with UPS closes valve at same speed whether "normal" or "emergency." Instead of UPS or battery back-up, a check valve can be installed in series with ball valve to prevent backflow on power outage but this overrides the energy savings of the ball valve.
- (8) Minimum cannot be zero, practical *minimum* normal open/close is 30 seconds; practical *minimum* emergency close is 5 seconds 6" to 12" and 10 seconds in larger sizes. Consult factory for recommendations and limitations.