

# *San Antonio Water System Material Standard Specifications*

## SPECIFICATIONS FOR CHECK VALVES,

### DUAL-PLATE WAFER STYLE

#### REVISED DECEMBER 2011

#### 1. SCOPE

This specification covers check valve of the water tight, wafer style body with flangeless bodies in sizes of 2 inch through 48 inch.

#### 2. GENERAL REQUIREMENTS

- a) The manufacturers on our approved manufacturer list shall manufacture valves furnished under this specification.
- b) Valves shall be A.N.S.I. class 150 lb. (unless otherwise noted).
- c) The double door check valve shall be compact wafer design, to fit between flanges.
- d) The check valve doors shall be spring loaded, NORMALLY closed, by means of one or more heavy duty stainless steel torsion springs, flow from the pump shall cause the doors to open and upon pump shut down, the torsion spring will shut the doors before reverse flow starts and at a point of zero velocity for non-slam closure. The valve spring shall be a standard torque spring specifically designed for this style valve.
- e) The valve body will be short face-to-face, dimension to ANSI standards.
- f) Seating shall be resilient and water tight; the seating element shall be buna-n-molded to the body casting.
- g) Valves 5" and larger shall be fitted with a lifting eye bolt for installation purposes.
- h) Studs and nuts shall be included. They shall be grade B7 with quantity two (2) 2H nuts.
- i) The approved products must be certified by a manufacturer's registered professional engineer that they meet this specification and the referenced A.S.T.M. Standards.

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Body	All Accepted and Approved	Ductile Iron ASTM A536 Cast Steel ASTM A216 WCB Cast Iron ASTM A126 GR.B Ductile Iron ASTM A536
Doors	Both Accepted and Approved	Cast Steel ASTM A216 WCB Al. Bronze ASTM B148 C95200

- j) Sealing Element Buna-N
- k) Torsion Spring T316 Stainless Steel
- l) Hinge Shaft T316 Stainless Steel
- m) Stop Shaft - T316 Stainless Steel
- n) Exterior Paint - Epoxy Primer

**3. SUBMITTAL REQUIREMENTS**

The bidders shall submit with the Purchasing material specification bid three sets of certified drawings showing the principal dimensions, general construction and material specification for each valve proposed

Please refer to the bid documents for additional product requirements. Submittals for construction contracts will be specified separately.

**APPROVED MANUFACTURERS LIST**

Crane Duo Check II Style G  
Gulf Wafer Check  
APCO Style 9000

**Previous Specification**

JANRUARY 2000  
DECEMBER 2011