

DeZURIK ANSI/AWWA BUTTERFLY VALVES (BAW)
Class 25A/75B/150B
24-144" (600-3600mm) FLANGED END
24-48" (600-1200mm) MECHANICAL JOINT END
SUGGESTED SPECIFICATION

APPLICATION DATA 43.01-2

Page 1

January 2018

Supersedes 43.01-2

Dated July 2012



ANSI/AWWA C504 Butterfly valves shall be model BAW as manufactured by DeZURIK or pre-approved equal.

Butterfly valves 24-72" (600-1800mm) shall meet or exceed the latest revision of ANSI/AWWA Standard C504 and ANSI/AWWA Standard C516 for 78-144" (2000-3600mm). Valves shall meet or exceed the requirements of this specification. All valves shall comply with the requirements of the ANSI/AWWA class specified by customer or if the ANSI AWWA class is not specified, the valve shall meet the requirements of ANSI/AWWA Class 150B. When customer specified, valves shall meet NSF/ANSI 61/372.

Valve bodies shall be of cast iron per ASTM A126 Class B or ductile iron ASTM A536 Grade 65-45-12. Flanged end valves shall be of the short body design. Sizes 24-72" (600-800mm) shall have Class 125 flanged ends faced and drilled per ASME B16.1 standard for cast iron flanges. Sizes 78-144" (2000-3600mm) shall be drilled per ANSI/AWWA C507 Class D. Mechanical joint end valves shall meet the requirements of ANSI/AWWA C111/ANSI A21.11.

Discs shall be offset to provide an uninterrupted 360 degree seating edge and shall be ductile iron per ASTM A536, Grade 65-45-12 or 316 stainless steel ASTM A743. The disc seating edge shall be solid 316 stainless steel. Sprayed mating seating surfaces are not acceptable. The disc shall be securely attached to the valve shaft using 304 stainless steel taper pins. Discs structures containing hollow cavities are not acceptable.

Valve shaft shall be of type 304 stainless steel. Valve shaft seals shall be self-compensating V-type packing with a minimum of four sealing rings. One-piece molded shaft seals and o-ring shaft seals are not acceptable.

Seat shall be of Acrylonitrile-Butadiene (NBR) for water, or as required for other services, and shall be retained within a dovetail groove in the valve body and locked in place by an epoxy compound wedge. Compression between the seat and disc edge shall be adjustable from both the upstream and downstream side of the valve disc and the seat shall be field adjustable and replaceable without disassembly of the disc and shaft. Seats with unidirectional adjustment, seats retained in the valve body by the use of fasteners and/or retaining rings, and seats retained on the valve disc are not acceptable.

Valve shaft bearings shall be PTFE lined with a non-metallic fiberglass composite backing and shall be permanently lubricated.

Coatings - Unless otherwise specified by customer, exterior and interior metallic surfaces of each valve shall be painted per the latest revision of ANSI/AWWA C504 or C516.

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Page 2

January 2018

Actuators shall be sized to customer specified operating conditions. If actual operating conditions are not provided within customer specification, per ANSI/AWWA C504, the valve actuator shall be sized to operate the valve at the rated working conditions of the valve. Each valve and valve actuator shall be assembled, adjusted, and tested as a unit per the latest revision of AWWA C504, by the valve manufacturer.

Actuators with handwheel, chainwheel, and buried service nut input shall conform in all respects to ANSI/AWWA C504.

Two Year Warranty shall be provided for all valves and actuators.