

**DeZURIK ANSI/AWWA BUTTERFLY VALVES (BAW)
Class 250B
20-54" (500-1400mm) FLANGED END &
24-48" (600-1200mm) MECHANICAL JOINT END
SUGGESTED SPECIFICATION**

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Supersedes July 2012



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

Butterfly valves 20-54" (500-1400mm) flanged end and 24-48" (600-1200mm) mechanical joint end shall meet or exceed the latest revision of ANSI/AWWA Standard C504 and shall meet or exceed the requirements of this specification. Valves shall have a working pressure of 250 psi (1720 kPa). When customer specified, valves shall meet NSF/ANSI 61/372.

Valve bodies shall be of ductile iron per ASTM A536 Grade 65-45-12. Flanged end valves shall be of the short body design with Class 250 flanged ends faced and drilled per ASME B16.1 standard for cast iron flanges. Mechanical Joint end valves shall meet the requirements of ANSI/AWWA C111/ANSI 21.11.

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 17-4 PH stainless steel taper pins. Disc structures containing hollow cavities are not acceptable.

Valve shafts shall be of ASTM A564 Type 630 17-4 PH 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 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, exterior and interior metallic surfaces of each valve shall be painted per the latest revision of ANSI/AWWA C504.

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Actuators shall be sized to customer specified operating conditions. If actual operating conditions are not provided within customer specification, per 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.

Pneumatic and hydraulic cylinder actuators shall be double acting, stationary mounted, with all working parts totally protected within weatherproof enclosures. Actuators must be in total conformance to AWWA C540, when specified.

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