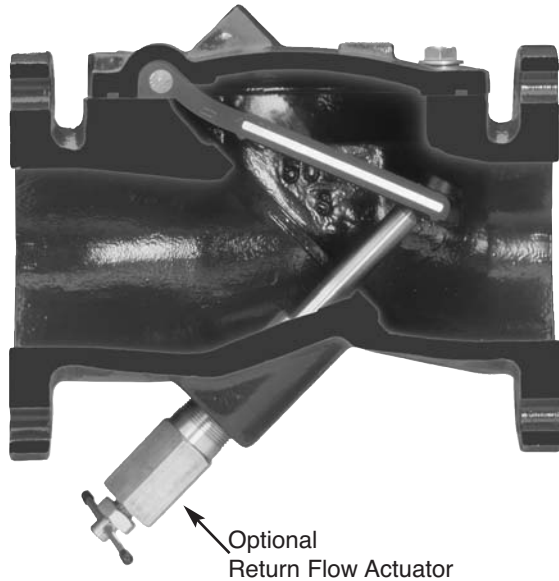




Model 584

Flex-Check Valve™



- Full Pipe Size Flow Area
- Drip Tight Seating
- Non-Slam Closure
- Fusion Bonded Epoxy NSF-61
- Optional Return Flow Actuator

The Cla-Val Model 584 Flex-Check Valve is designed for long service life and maintenance free check valve operation compared to traditional swing check valves. It has a full-flow area body with integral seat at 45° angle to reduce head loss. This minimizes disc travel to 35° degrees for improved no-slam check action and for reliable vertical up flow operation even on slurry applications. Body and Cover are fusion bonded NSF-61 epoxy coated for long service life on potable and non-potable systems. Unique one-piece steel and nylon reinforced Buna-N rubber disc assembly flexes to eliminate traditional metal hinge problems. During system flowing conditions the disc flexes up to the open position allowing unrestricted flow through the valve. When system reverse flow conditions occur the disc flexes down to the closed position for drop-tight seal preventing reverse flow. The flex-disc reliability is test-proven to over one million cycles. The optional Return Flow Actuator offers manual opening for pump priming, back flushing, draining lines, or system testing needs and is easy to field install.

Cla-Val Flex-Check Valve™ Specifications

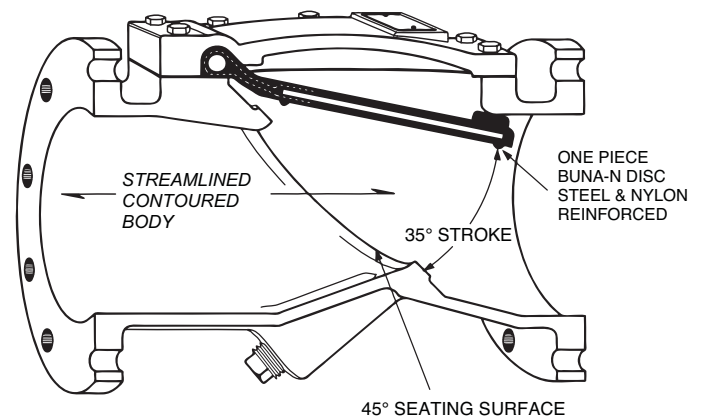
The check valve shall be of the Flex-Check Valve™ full body flanged type, with a domed access cover and only one moving part - the flexible valve disc.

The valve body shall have full flow equal to nominal pipe diameter at any point through the valve. The seating surface shall be on a 45° angle to minimize disc travel and shall include a port for installation of a screw type return flow actuator for manually activated return flow capabilities. The top access port of the body shall be full size, allowing removal of the disc without removal of the valve from the pipeline. The cover shall be domed to create a flushing action around the disc when valve is open. The valve body and cover shall be ASTM A536 Grade 65-45-12, Class B Ductile Iron coated and lined with an ANSI/NSF61 approved fusion bonded epoxy coating. The Model 584 Flex-Check Valve™ shall be designed, manufactured, and tested in accordance with ANSI/AWWA Standard C-508.

The disc shall be one-piece construction, precision molded with an integral O-ring type sealing surface and contain steel and nylon reinforcements in the central disc area and in the flex support area.

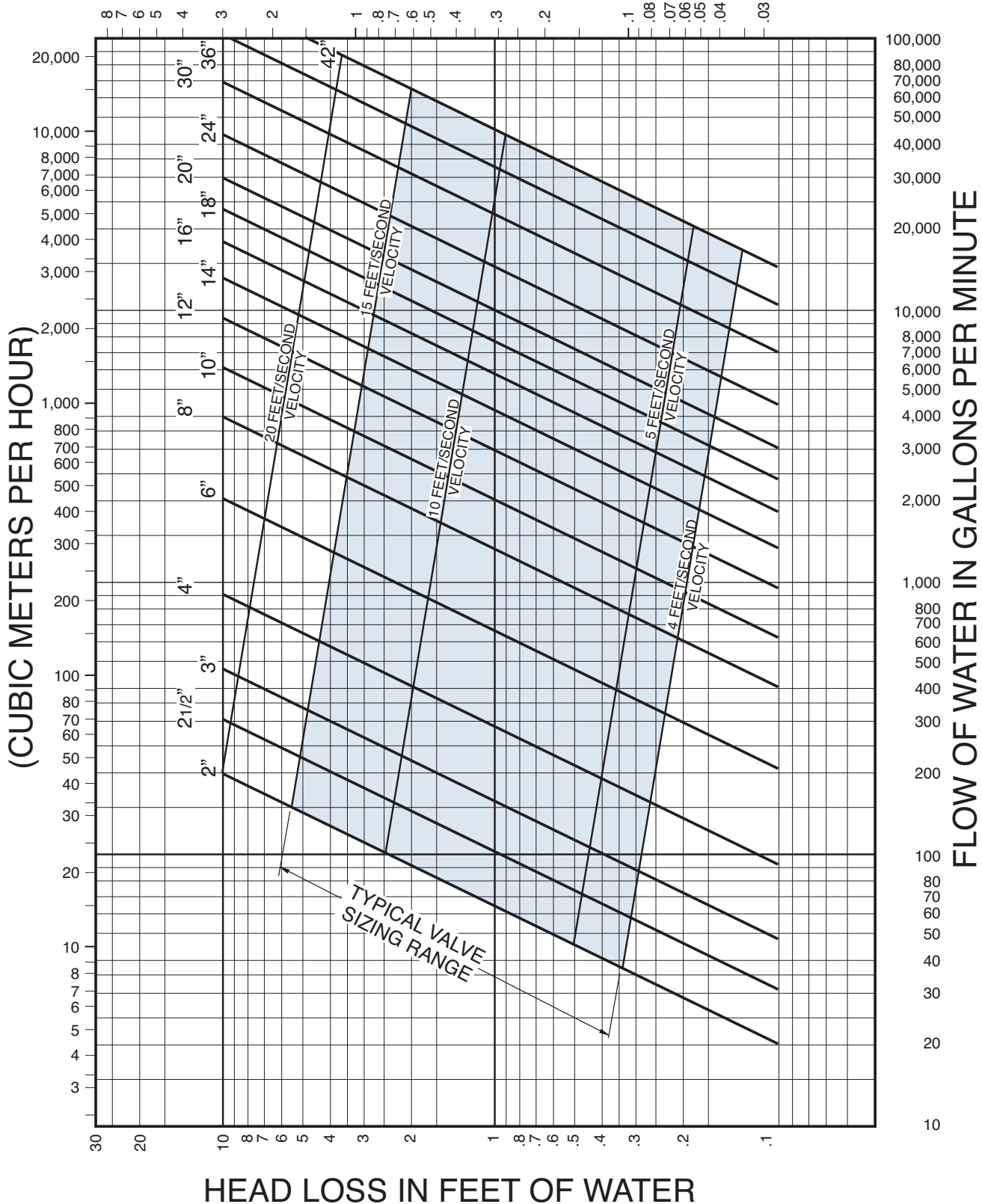
The non-slam closing characteristic shall be provided through a short 35° disc stroke and disc return action. The disc shall be Buna-N® (NBR), ASTM D20000-BG.

This valve shall be a Cla-Val Model 584 Flex-Check Valve™ as manufactured by Cla-Val, Newport Beach, CA 92659-0325.



584 Flex-Check Valve Head Loss Chart

(METERS OF WATER)



SIZE	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	30	36	42
Cv	95	155	225	440	1,040	1,900	3,050	4,600	6,600	8,700	11,200	14,200	21,000	33,500	50,000	68,000