

**SPECIFIERS**  
**CHECK VALVE CHECK LIST**  
**VAL-MATIC® SWING-FLEX® CHECK VALVE VS. BALL CHECK VALVES**

FEATURE	VAL-MATIC® SWING FLEX®	BALL CHECK VALVE
Lower Head Loss	X	
Non-Slam Closure	Yes	No <sup>1</sup>
Backflow Capability	Yes	No
Clear Flow Way	Yes	Yes
Number of Wear Parts	One	One
Low Maintenance	Yes	No <sup>2</sup>
Open / Closed Indication	Yes	No
SCADA Compatible	Yes	No
Positive Shut-Off	Yes	No <sup>3</sup>
Competitively Priced	Yes	Yes
Independent 1,000,000 Cycle Test	Yes	No
Twenty-five year Disc Warranty <sup>4</sup>	Yes	No
Water / Wastewater Service	Yes	Yes
Sludge Service	Yes	Yes
Abrasive Service	Yes	Yes
Corrosive Service	Yes	Yes
Vertical Flow-Up Capability	Yes	Yes

1. During pump shut down, the slow return speed of the ball, coupled with the long distance it must travel to seat, will allow the flow to reverse direction. When the ball finally seats the sudden stopping of the reverse flow can cause a substantial shock (water hammer) and potential damage to the system. The Swing-Flex® has a short disc stroke and quick return Memory-Flex® action.
2. During flow conditions the ball is bounced, slammed and rubbed against the body walls causing it to be scuffed, nicked and prematurely worn out. The Swing-Flex® disc is hinged and never makes contact with the body walls. It has been independently cycle tested 1,000,000 times with no signs of wear to the disc, seat or body.
3. As a result of damage to the ball during flow conditions (see footnote #2), positive seating cannot be assured.
4. The Val-Matic® warranty and its remedies are available for 25 years, covering the flex portion of the disc.

For more information on the Swing-Flex® Check Valve see Val-Matic® bulletin 500.

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Revised 4-7-98

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DATE 10-17-91

**VAL-MATIC®**

VALVE AND MANUFACTURING CORP.

DRWG. NO.

**SS-912**