

SILENT CHECK VALVES SERIES 700 & 900

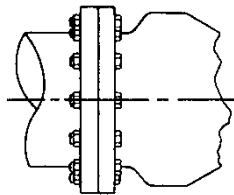
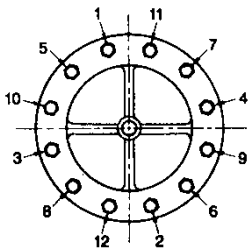
OPERATION, INSTALLATION AND MAINTENANCE INSTRUCTIONS

The Metraflex Silent Check Valves are fully automatic valves and require no regular maintenance.

OPERATION: The Valves are designed to prevent reverse flow automatically. On pump start-up, the flow of water forces the disc open, allowing the passage of fluid through an area equal to pipe size. On pump shut-down, the special spring closes the disc before a flow reversal takes place. This type of closure which prevents flow reversal is the factor which allows silent operation and prevents water hammer normally associated with valve shut-off.

INSTALLATION: Valves can be installed in any position, i.e. horizontally or vertical with flow up or down (for valves 20" and larger, contact factory for down flow situations). The flow arrow should be pointed in the direction of flow when the system is in operation. ANSI Class 125 and Class 250 Silent Check Valves that are furnished with flat faced flanges should be mated to flat faced companion flanges. A full face or ring gasket that has been lubricated with a gasket compound must be installed between the companion flange and valve to affect a seal. Proper centering of the ring gasket is important to prevent internal leakage. **CAUTION: Damage to valve and internal leakage can result if valve's inlet is mated to specialty flanges or connectors having full or partial rubber facings.**

PROPER BOLTING OF GLANGED GLOBE STYLE VALVES CROSS-OVER FLANGE BOLT TIGHTENING METHOD:




The valve and adjacent piping must be supported and aligned to prevent cantilevered stress being transferred to the valve's flanges when installing the flange bolts. Apply a little thread lubricant to the flange bolt thread and install the flange bolts. Once all the flange bolts are inserted around the flange bolt circle, tighten them hand tight. The torquing of the flange bolts should then be done in several graduated steps, using the number sequence shown at the left, to load the bolts evenly and eliminate concentrated stresses which could fracture or crack the valve's flange.

MAINTENANCE: No regular maintenance is required; however, if the valve must be serviced, it should be removed from the line by closing the discharge valve and bleeding off the pressure. This can be achieved by loosening the discharge flange first and then the inlet. This procedure will prevent damage to the internal trim.

Once the valve is removed from the line, all parts can be checked for wear and damage from foreign matter. Replacement parts can be ordered.

NOTE: While in service, never attempt to inspect the seating of the valve by removing the piping from the valve inlet. This will result in damage to the valve's internal seating mechanism.

CUSTOMER _____ PROJECT _____ ENGINEER _____ ARCHITECT _____ PRO. OR P.O. NO. _____							
	DESCRIPTION: Silent Check Valve Series 700 & 900 Operation, Installation & Maintenance Instructions						
	<table style="width: 100%; border: none;"> <tr> <td style="border: none; width: 33%;">DRAWING BY:</td> <td style="border: none; width: 33%;">DATE:</td> <td style="border: none; width: 33%;">DRAWING NO.</td> </tr> <tr> <td style="border: none;">JT</td> <td style="border: none;">08-09-06</td> <td style="border: none;">SLNT CHK VLV-OIM</td> </tr> </table>	DRAWING BY:	DATE:	DRAWING NO.	JT	08-09-06	SLNT CHK VLV-OIM
DRAWING BY:	DATE:	DRAWING NO.					
JT	08-09-06	SLNT CHK VLV-OIM					