



## Metraflex Series CVXXK Split Disk Check Valves

### OPERATION, INSTALLATION AND MAINTENANCE INSTRUCTIONS

**General:** Metraflex Series CVXXK Wafer style split disk check valves are used to prevent backflow, while also minimizing the effects of water hammer due to the reversal of fluid flow.

#### **Application:**

1. The valve can be installed either horizontally with the disk pin in the vertical orientation, or vertically with up flow. The flow arrow must point in the direction of flow when the system is in operation.
2. Damage to the valve or internal leakage may result if pipe flanges other than those conforming to ANSI B16.5 are used.
3. Split disk check valves are designed for fluid applications. They are not designed for use in applications that include particulate matter or suspended solids.
4. Installing valve with three to four diameters of straight pipe from the pump is recommended to prevent turbulent flow streams through the valve, which can cause vibration and wear. If the valve is installed with less than 10 pipe diameters Metraflex recommends the installation of a Vane Flex.
5. Check valve must be installed with one pipe diameter of pipe between the discharge side when installing on a butterfly valve.
6. To avoid flutter and premature wear, flow velocity must be a minimum of 4 feet / second.

#### **Installation:**

1. Inspect valve for shipping damage, ensure all parts are intact.
2. 1/16" thick full face gasket is recommended, centering the gasket is important to prevent internal valve leakage.
3. Bolt diameter to be in accordance with ANSI B16.5, Table 7 for 150 lb. Flanges and Table 8 for 300 lb. Flanges
4. Do not lift valve by the trim
5. Flow arrow must point in the direction of flow when system is operating.
6. The valve and adjacent piping must be supported and aligned to prevent stress from being transferred to the valve's flanges.

**Testing:** Valve may be one-time pressure tested to 1-1/2 times the product's maximum operating pressure. Do not exceed maximum pressure or temperature during operation.

#### **Precautions:**

1. Do not use for sewage or other applications with particulate matter.
2. Do not use for steam or other gaseous applications.

**Storage:** Store valves with flow arrows pointing upwards

**Maintenance:** Silent Check Valves have no serviceable parts and do not require maintenance. Metraflex recommends periodic inspection.

