



The quality name



# **INSTALLATION AND MAINTENANCE MANUAL**

**FOR**

**WAFER STYLE SWING CHECK VALVES**

***MODEL#: C-9000***

Trueline Valve Corporation 20201 Clark Graham, Baie D'Urfé, Québec, CANADA H9X 3T5

T. 514-457-5777      F. 514-457-6163      TF. 1-800-667-4819

Website: [www.trueline.ca](http://www.trueline.ca)      Email: [trueline.sales@trueline.ca](mailto:trueline.sales@trueline.ca)



## Table of Contents

<b>Product Description.....</b>	<b>1</b>
<b>General Applications .....</b>	<b>1</b>
<b>Installation Instructions .....</b>	<b>1</b>
<b>Maintenance Instructions .....</b>	<b>2</b>
<b>Precautions.....</b>	<b>2</b>



## Product Description

Wafer style tilting disc check valve consist of one piece integral cast body with conical shaped inside to allow easy flow of fluid with solid concentration. The disc is mounted inside the body with a hinge pins (shaft). The shaft is manufactured in two parts and the construction of the valve is closed by welded cap on one of the sides.

The check valve can be supplied with a stainless steel spring on the shaft (an accessory) which will help during closing operation and increase closing speed.

Our check valves are designed to open when a pressure of less than 1 psig is applied across the face of the disc. These valves are provided for installation inside the bolt circle and between the standard flanges, using flat faced Asbestos gasket or

Some of highlighted features of this valve are:

- Easy Assembling
- No maintenance cost
- No spare parts needed
- Minimum Pressure Drop
- Minimum Leakage with Metal to Metal Seat

## General Applications

These valves are designed for a wide range of applications and are suitable for liquids with a solid concentration of maximum 5%. Some of applications are:

- Pulp and Paper Mills
- Sewage or Waste Water Treatment Plants
- Chemical Plants
- Food and Beverage

## Installation Instructions

The valve is inserted between two companion flanges with gasket on the contact faces. Please make sure that flow arrow on the body correspond to direction of flow



Studs are installed, which will span the valve, and tightened in the same manner as any flange connection. The face to face dimension of this valve is as per manufacturer's standard, therefore, please make sure that stud length is adequate for tightening.

The valve outside diameter is designed to locate the valve in the same centerline as the companion flanges when mounted inside the studs. The pipeline flanges must be parallel and have the same pressure class as the valve.

The normal installation of check valve is for horizontal flow with the shaft in the horizontal upper position, or for vertical flow with flow direction upward.

There must be no obstruction in the flange or pipe bore as this would prevent the valve from opening fully.

## **Maintenance Instructions**

This valve needs no periodic maintenance.

## **Precautions**

- The valve must be installed in the correct line size between flanges of the correct class.
- The valve material of constructions must be compatible with the fluids being handled.
- Pressures and temperatures must be kept within the limits specified by appropriate ANSI standards
- The valve must be installed with the arrow pointing in the correct direction.
- The valve must be installed in correct location in the pipeline. The disc must not open into or against pipe components such as valves, elbows or tees.
- Flow rate must be within acceptable limits. Too high a rate may cause extreme pressure drops and erosion of the components. Too low a flow may cause the disc assembly to oscillate and cause wear which may lead to premature failure of the internals.
- Care should be taken in handling the valve. Mishandling may cause damage of the sealing components or damage to the externals.