



Installation, Operating and Maintenance Instructions:

ETG-ODSPV

Hygienic/Sanitary Plain Weld End

Spring Check Valve

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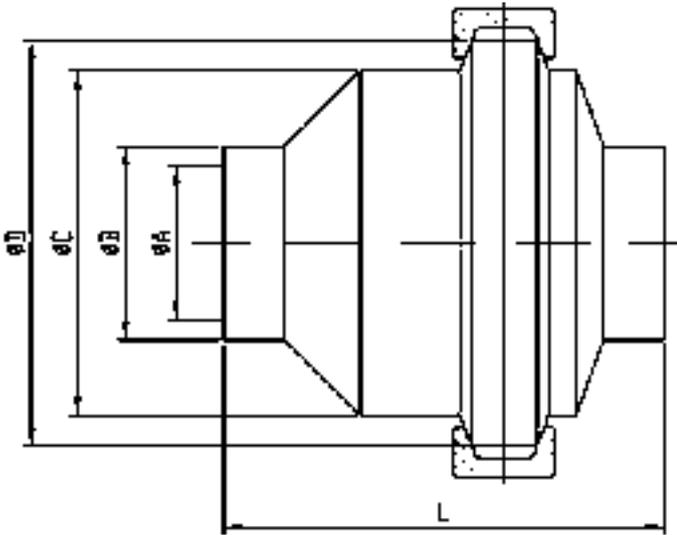
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Valve Information

ETG-ODSPV

Hygienic/Sanitary Plain Weld End
Spring Check Valve



Item	Part	Material	Qty.
1	Body	AISI 316	1
2	Body Cap	AISI 316	1
3	Gasket	EPDM	1
4	Bush Guide	AISI 316	1
5	Spring	AISI 316	1
6	Seat	EPDM	1
7	Stem	AISI 316	1
8	Body Clamp	AISI 304	1

SIZE	ϕd	ϕD	$\phi D1$	L	Kgs
1"	22.4	25.4	64	77.5	82.5
1-1/2"	35.1	38.1	64	77.5	81.5
2"	47.8	50.8	75	91	91.5
2-1/2"	59.5	63.5	90.5	106	95.5
3"	72.2	76.2	104	119	100.5
4"	97.6	101.6	128	145	110

- 316L Stainless Steel Body Construction.
- EPDM Body and Seat gasket.
- 10 bar pressure rated.
- -20 / + 130 deg C Temp rated.
- Plain Butt Weld End connections to BS4825 Imperial.
- Clamp together body.
- Spring Cracking Pressure - 0.5 Bar/g

This valve is designed primarily for use on Food and Dairy applications. The clamp together body construction allows easy access for cleaning and maintenance.

The valve comes with Plain O/D Imperial Weld Ends to BS4825 as standard. RJT, IDF, SMS, DIN and Clamp Ends are optional extras.

1/2" & 3/4" sizes are available on special order. Please ask our sales office for details.

Available size range: 1" - 4"

Introduction

G.C. Supplies offers a wide range of valves, designed and assembled to handle and drive fluids in industrial procedures.

The compatibility of materials used to build the valves (see technical specifications) and the application of valves to the different industrial processes is at the user's risk. Valves will have an optimal behaviour when working conditions do not exceed the recommended pressure and temperature limits for which they have been designed.

Transport and Storage Conditions

Visual Inspection It is important to conduct a visual inspection to check for any damage on the product that could have occurred during transport, unloading or placement. If you notice any kind of anomaly upon receiving the goods, please contact GC Supplies in order to resolve the issue.

Storage During storage it is recommended to keep valves in a dry and clean environment within the included protective wrapping to avoid damage or dirt accumulation. The protective wrap should not be removed until the valve is ready to be installed.

Before installing and/or manipulating these elements, read these instructions carefully. If you fail to understand any of their content, please contact G.C. Supplies.

Installation Instructions

Preparation Firstly, separate the valve from the valve wrapping. Serious problems may arise with the installation of a valve into an unclean pipe, make sure the pipe is not dirty before installing it.

Plan beforehand enough space for future maintenance operations. Check correct performance of the valve by pushing the Disc in the direction of the flow and making sure it goes back to the original position once it is released. If this is not the case, check if there are foreign particles inside the valve and repeat the whole operation. If the disc does not slide smoothly, valve must not be installed.

It is recommended to perform this task under qualified professional surveillance.

Assembling

- a) Before you weld the valve, disassemble it as indicated in the 'Disassembling' section below.
- b) Weld the connections to the connecting pipes. All components must be assembled in a dry and clean environment.
- c) When cold, clean/dress the weld surfaces and then assemble the valve as indicated:
 - Put the Seat in the Disc.
 - Put the Spring in the Stem and later in the Bush Guide.
 - Put the Stem assembly inside of the Body.
 - Put the Gasket in the Body.
 - Put the Body Cover on the Gasket
 - Put the Quick Locking joining the two parts.
 - Adjusting the Quick Locking handle.

Design of this type of valve means that it can only be placed in vertical position (upwards flow).

Valves do not have to support pipe's efforts so it is advisable to anticipate a good alignment and parallelism of such pipe.

Operating Instructions

Usage

Before starting the equipment, you have to read the Valve Information and never exceed the limit values.

Never touch the valve and/or pipes in contact with surrounding fluid when the in operation - it is likely injuries such as burns could occur.

Check valves provide a leak proof lock when adjusted to the pressure and temperature for which they have been designed for.

- Operation in extreme temperature conditions exceeding the limits the valve is designed to withstand may damage internal and external parts, and it might be potentially hazardous for the operating or maintenance personnel.

- Operation in extreme pressure conditions exceeding the limits the valve is designed to withstand may cause a malfunction and the spontaneous breakage of parts and, therefore, might be potentially hazardous for the operating or maintenance personnel.

Maintenance Instructions

Check valves with a metal sealing are designed so that they do not need any lubrication and/or periodical maintenance during their life cycle. However, periodical checks will be useful to extend the service life of the valve and reduce installation problems:

Reparation Instructions

Disassembling

Before removing the valve from the pipe for cleaning or substitution, make sure the line has been closed and depressurised, since the wrong handling might cause a serious accident as well as serious damage to the equipment.

- a) Loosen and remove the Quick Locking.
- b) Separate the Body Cap from the Body.
- c) Remove the Gasket.
- d) Remove the Bush Guide.
- e) Remove the Spring and Disc with the Seat.
- f) Remove the Seat from the Disc.

Reassembling

Before proceeding to reassemble the valve, make sure that reparation kit and/or pieces to be used are appropriate. When it is reassembled, maintaining cleanliness is essential for a long life cycle.

- a) Put the Seat in the Disc.
- b) Put the Spring in the Stem and later in the Bush Guide.
- c) Put the Stem assembly inside of the Body.
- d) Put the Gasket in the Body.
- e) Put the Body Cover on the Gasket
- f) Put the Quick Locking joining the two parts.
- g) Adjusting the Quick Locking handle.

Hygiene and Safety

The fluids that go through the valve can be corrosive, toxic, flammable or pollutant. They can also be found at very high or low temperatures. When operating valves, you must follow the operation instructions.

It is recommended that you:

- Protect your eyes.
- Wear gloves and appropriate working clothes.
- Wear safety footwear.
- Wear a helmet.
- Have running water to hand.
- Have an extinguisher to hand when work with flammable fluids.

Before removing a valve from a pipe, check always if the line is completely cold, drained and depressurised.

Any type of repair or maintenance should be performed in a well ventilated area.