

# **Installation, Operating and Maintenance**

## **Instructions for Wafer Spring Check valves**

### **Fig ETG WPSCV40**

#### **1. Application**

The valve is suitable to be used as one-way go through and non-return device on pipeline systems.

#### **2. Features**

2.1 The valve is designed as a metal to metal seal, which can be used at high temperatures. The corrosive-resistant performance is excellent.

2.2 The valve is connected by wafer flanged ends to slot in between flanges, the assembly length is minimal.

2.3 The valve offers stable performance and can be used for a long period.

#### **3. Standards**

3.1 Flange End: DIN PN16/25/40, ANSI 150/300#

3.2 Face to Face: DIN3202-K4

3.3 Test according to EN12226-1, API598

#### **4. Performance Specification**

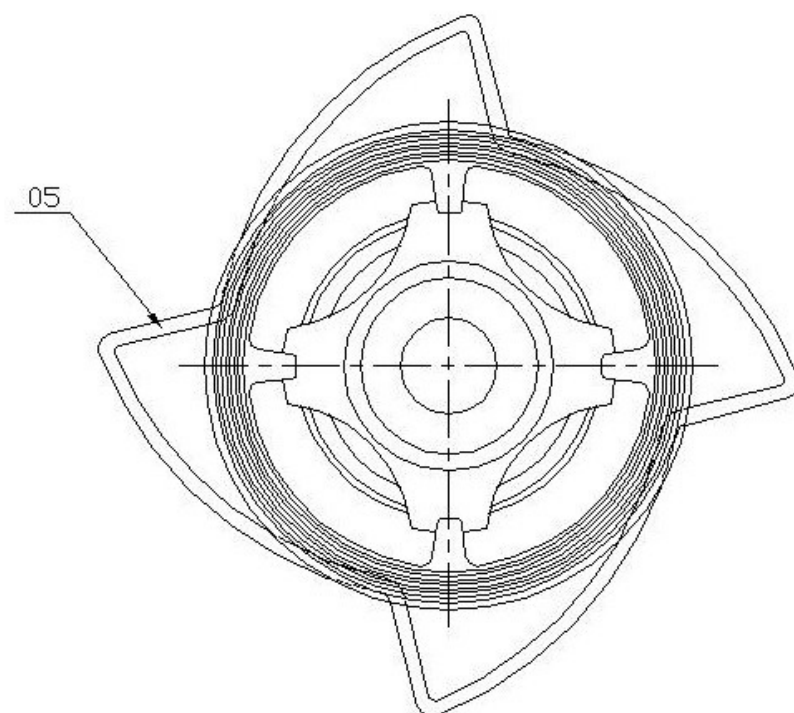
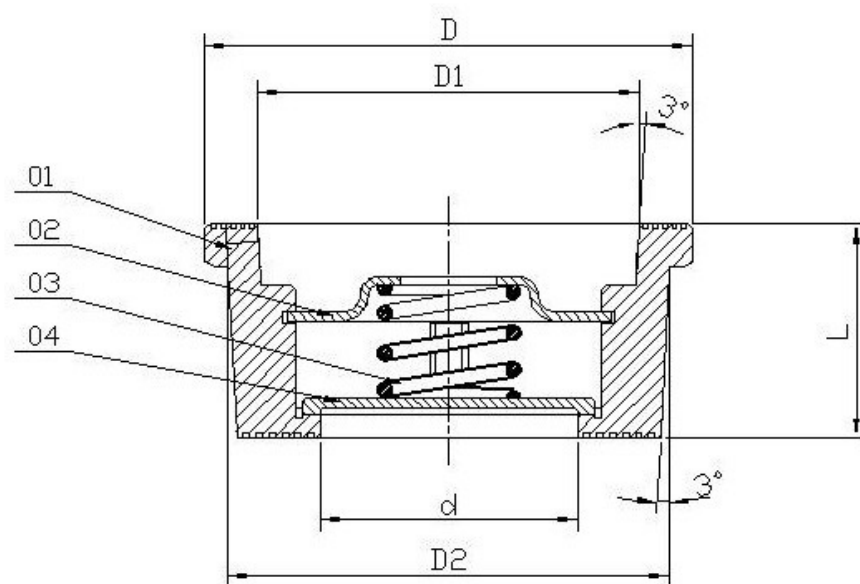
4.1 Size: DN15~ DN200

4.2 Pressure rating: PN40(DN15-DN100), PN25(DN125-DN200)

4.3 Working temperature: -180°C~ 350°C

#### **5. Material of main parts**

Please check suitability of product media before installation, eg. Corrosive data, temperature ratings, pressure ratings, etc.



ITEM	PART	MATERIAL	QTY.
01	Body	CF8M	1
02	Spring Cover	SS316	1
03	Spring	SS316	1
04	Disc	CF8M	1
05	Centering Ring	SS304	1

## 6. Installation

6.1 Check the interior channels of the pipe and valve before assembly. If the interior channels are not clean, flush them with clean water before installation of the valve.

6.2 Use the valves at correct pressures and temperatures according to the rates shown.

6.3 Install the valve using the correct flanges within the piping system. Gaskets should be used between the valve and flanges to ensure no leakage. Turn the Centering Ring to adjust the position of the valve to ensure that the outer circle of valve is concentric with the flange bolting whilst installing.

6.4 Please observe the directional arrow cast into the valve body. This shows the direction in which the media flow is expected to run. The reverse is non-return. Install the valves correctly in order to avoid damage to the valve and any other connecting products.

## 7. Maintenance

### 7.1 Dis-assembly

7.1.1 Loosen and remove the bolts in order to take out the valve from the pipework.

7.1.2 Bend the two stopping edges of the spring cover straight and take out the spring cover, spring and disc.

7.2 Clean all metal parts with clean water and using a soft brush. Check all parts, especially the sealing surfaces, for any signs of wear or damage. Replace parts if necessary.

7.3 Assembly of the valves is the reverse of the above.