

## STAINLESS STEEL PISTON CHECK VALVE FEMALE BSP

Stainless steel piston check valve female BSP for water, chemical and pharmaceutical industries, petrochemical industries, hydraulic installation, compressed air.

Stainless steel type with PTFE gaskets. All positions.

Full bore, weak head loss.

Compatible with explosive atmosphere, ATEX Zone 1&21 and Zone 2&22.

Check valve in accordance with the regulation (EC) N° 1935-2004 on request.

Metal/metal tightness (leakage rate according to API 598 standard)



**Size :** DN1/4" to DN3"

**Connection :** Female BSP

**Min Temperature :** -20°C

**Max Temperature :** +200°C

**Max Pressure :** 50 Bars

**Specifications :** Piston type

All positions

Full bore, weak head loss

In accordance with the regulation EC 1935-2004 on request

**Materials :** Stainless steel EN 1.4408

## STAINLESS STEEL PISTON CHECK VALVE FEMALE BSP

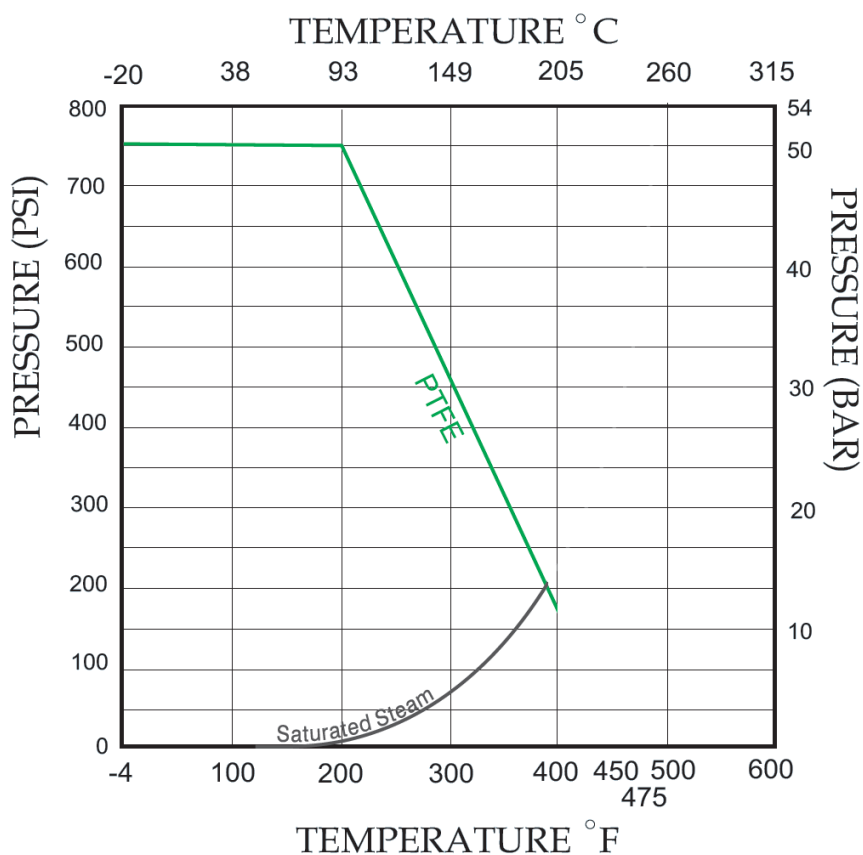
### SPECIFICATIONS :

- Piston type
- All positions (respect the flow direction indicated by the arrow)
- Short length
- PTFE seat

### USE :

- Chemical and pharmaceutical industries, petrochemical industries, hydraulic installation, compressed air, potable water
- Min Temperature Ts : - 20°C
- Max Temperature Ts :+ 200°C
- Max Pressure Ps : 50 bars ( see graph under )
- Steam : 13 bars max

### PRESSURE / TEMPERATURE GRAPH :

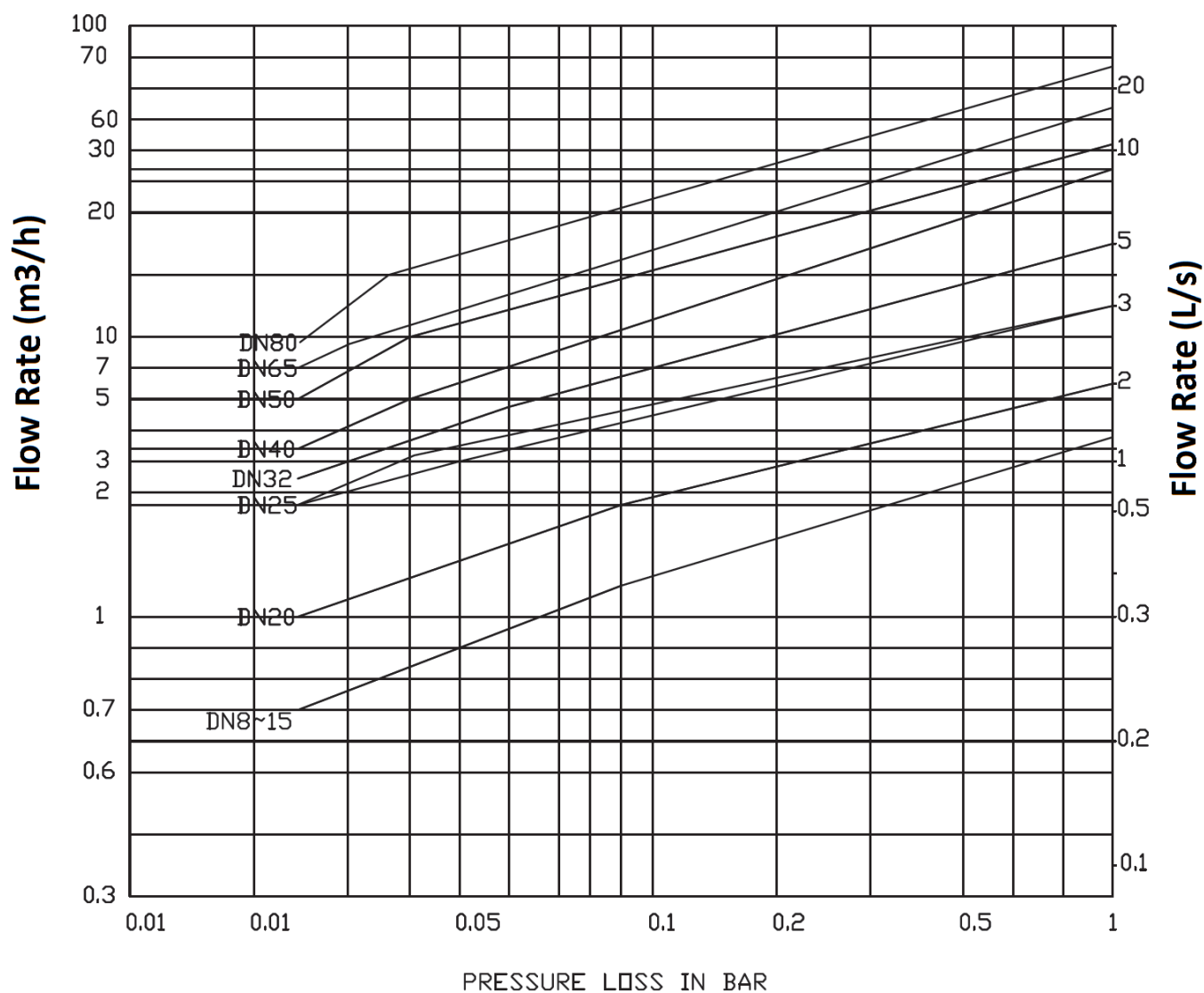


### FLOW COEFFICIENT Kvs ( M3 / h ) :

| DN           | 1/4" | 3/8" | 1/2" | 3/4" | 1"   | 1 1/4" | 1 1/2" | 2"   | 2 1/2" | 3"   |
|--------------|------|------|------|------|------|--------|--------|------|--------|------|
| Kvs ( m3/h ) | 1.3  | 1.3  | 1.5  | 3    | 5.45 | 8      | 12.08  | 18.8 | 30     | 88.9 |

**STAINLESS STEEL PISTON CHECK VALVE FEMALE BSP**

**HEAD LOSS GRAPH :**



**STAINLESS STEEL PISTON CHECK VALVE FEMALE BSP**

**OPENING PRESSURE ( in mbar ) :**

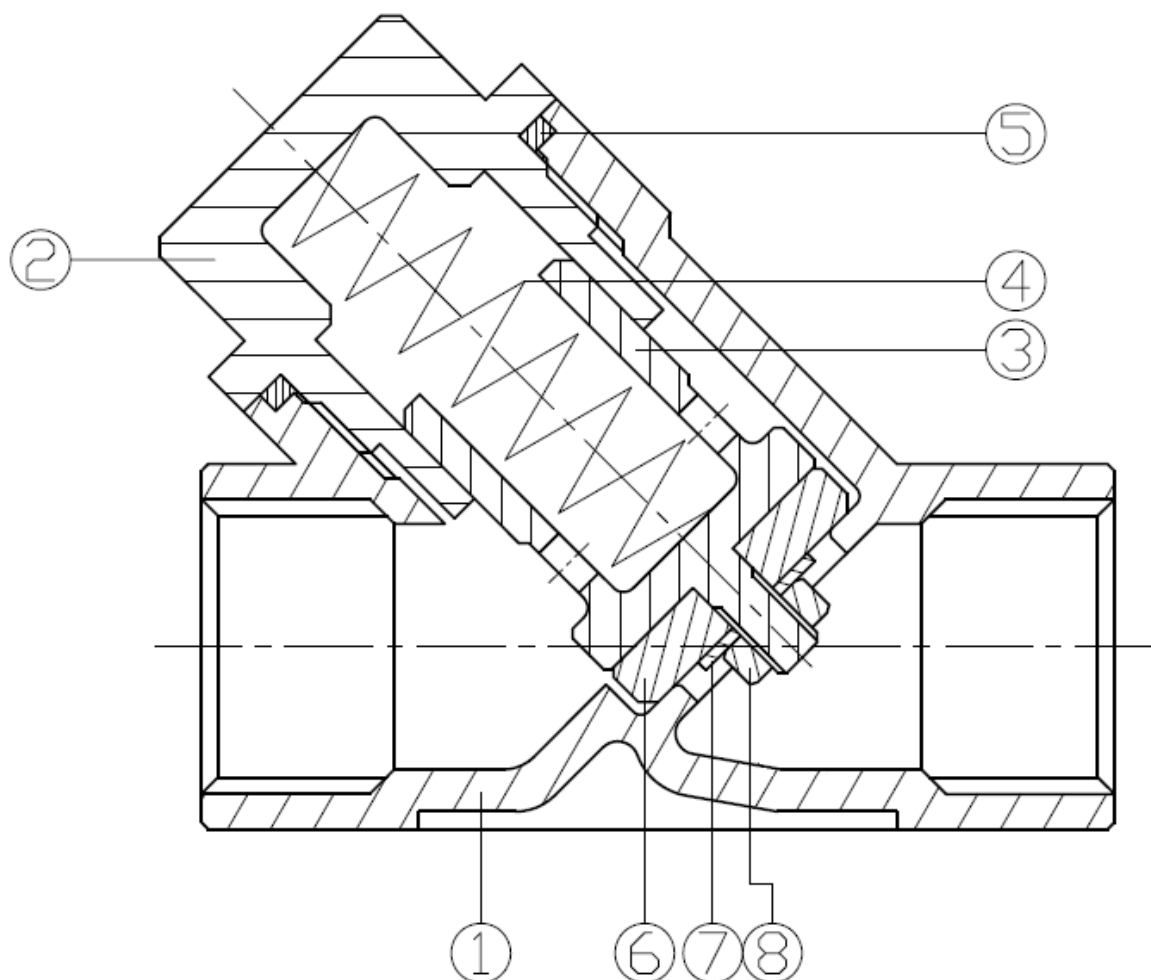
| DN    | Opening Pressure (mbar) |
|-------|-------------------------|
| 1/4"  | 29                      |
| 3/8"  | 29                      |
| 1/2"  | 29                      |
| 3/4"  | 29                      |
| 1"    | 31                      |
| 1"1/4 | 31                      |
| 1"1/2 | 32                      |
| 2"    | 35                      |
| 2"1/2 | 40                      |
| 3"    | 50                      |

**RANGE :**

- Female / female threaded BSP cylindrical piston check valve **Ref. 325** from DN 1/4" to DN 3"

**STAINLESS STEEL PISTON CHECK VALVE FEMALE BSP**

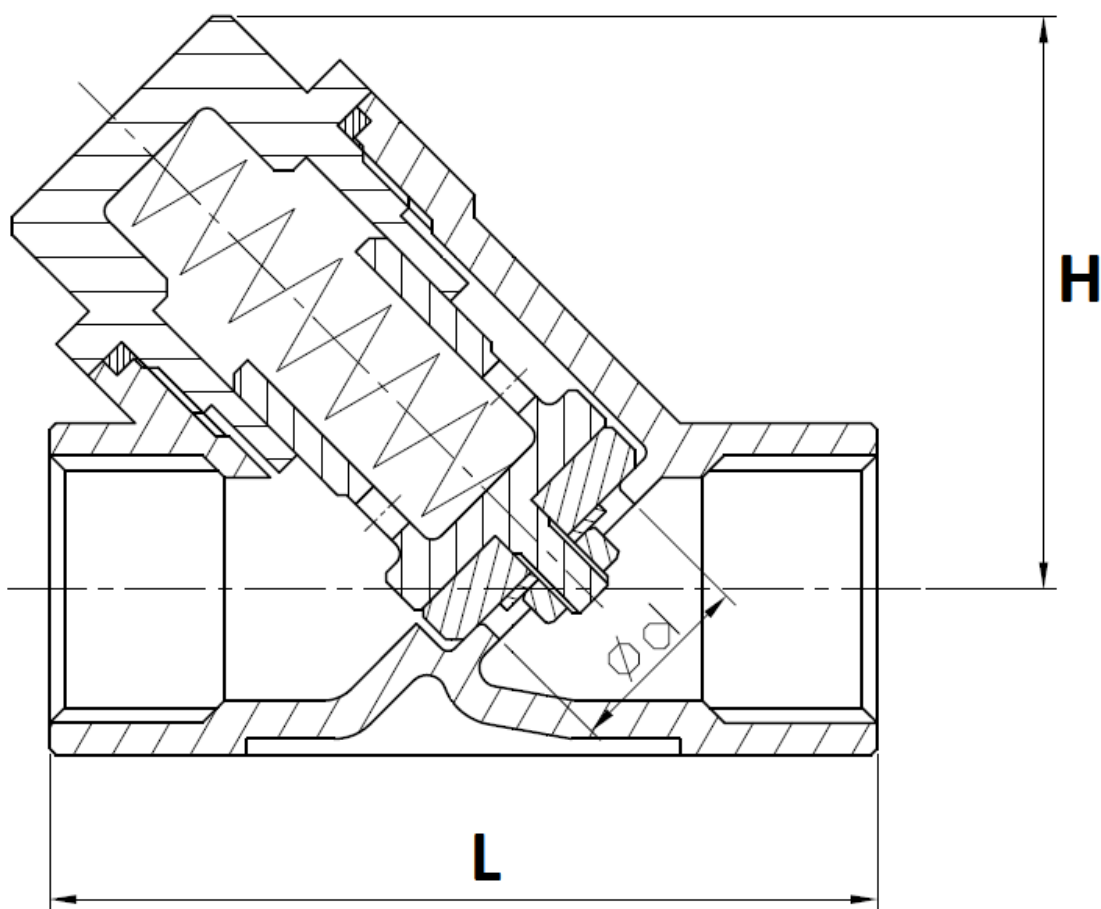
**MATERIALS :**



| Item | Designation   | Materials |
|------|---------------|-----------|
| 1    | Body          | EN 1.4408 |
| 2    | Bonnet        |           |
| 3    | Piston        |           |
| 4    | Spring        | AISI 316  |
| 5    | Bonnet gasket | PTFE      |
| 6    | Seat          |           |
| 7    | Washer        | AISI 316  |
| 8    | Nut           |           |

**STAINLESS STEEL PISTON CHECK VALVE FEMALE BSP**

**SIZE ( in mm ) :**



| DN          | 1/4"   | 3/8"   | 1/2"   | 3/4"   | 1"     | 1"1/4  | 1"1/2  | 2"     | 2"1/2  | 3"     |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ø d         | 10     | 10     | 15     | 20     | 25     | 32     | 38     | 51     | 65     | 76     |
| H           | 40     | 40     | 40     | 46     | 55     | 66     | 75     | 92     | 120    | 133    |
| L           | 57     | 57     | 61     | 70     | 86     | 100    | 111    | 138    | 170    | 195    |
| Weight (Kg) | 0.3    | 0.28   | 0.22   | 0.33   | 0.68   | 1.1    | 1.58   | 2.58   | 3.9    | 6      |
| Ref.        | 325002 | 325003 | 325004 | 325005 | 325006 | 325007 | 325008 | 325009 | 325010 | 325011 |

**STAINLESS STEEL PISTON CHECK VALVE FEMALE BSP****STANDARDS :**

- Manufacturer certified ISO 9001 : 2015
- DIRECTIVE 2014/68/EU : For liquids and gas of Group 1
  - DN1/4"-1" : Article 4, §3 (SEP), no CE marking
  - DN1"1/4-3" : Risk Category II, CE 0035 marking
- Certificate 3.1 on request
- Pressure tests according to API 598, table 6
- BSP threaded cylindrical ends according to ISO 228-1
- ATEX Group II Category 2 G/2D Zone 1 & 21 Zone 2 & 22 ( optional marking )
- Check valve in accordance with the regulation **(EC) N° 1935-2004 on request**

**ADVICE :** Our opinion and our advice are not guaranteed and SFERACO shall not be liable for the consequences of damages.  
The customer must check the right choice of the products with the real service conditions.