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20 Bushes Lane  
Elmwood Park, NJ 07407

## Model FTV-05

### In-Line Foot Valve Soft Seated



- All Stainless Steel standard.
- 1/2"-3" NPT THD
- Adjustable opening pressures from 0.5 PSI (~0.03 Barg) to 3 PSI (~0.2 Barg) or factory set to 1.5 psig (0.1 barg)

### Features

- **Body:** Standard materials are 303SS & 316 Stainless Steel
- **Piston:** 303SS & 316 Stainless Steel
- **Spring:** 303SS & 316 Stainless Steel
- **Lock nut:** 303SS & 316 Stainless Steel
- **Elastomeric seal:** Bubble-tight seal is achieved with soft elastomers such as Buna, Viton, and EPDM and Kalrez.
- **Tamper-proof construction-**This valve is not externally adjustable & requires removal of the valve to change the pressure setting after the system is depressurized.
- **Adjustable pressure-setting valve** can be factory-set or adjusted in the field. Spare springs can't change in the field to achieve a different pressure range. Standard set pressure is 1.5 psig (0.10 barg), but can be customized

### Applications

This is an In-Line poppet type foot valve, allowing flow to pass through a pipe line only in one direction. When flow reverses, the poppet will close and prevent flow in the opposite direction. Observe the maximum working pressure listed for each model. Select metal and seat materials from pricing pages. This valve is normally used for liquids, air, or gases. These unit will strain large debris in your process and protect the pump.

# Options

Scroll down below to click on a valve size for pricing and then click on the spring range to see which options are available for that size. After selecting your options you may then print out a price, e-mail it (without having to contact the factory), and then when you are ready, proceed to order.

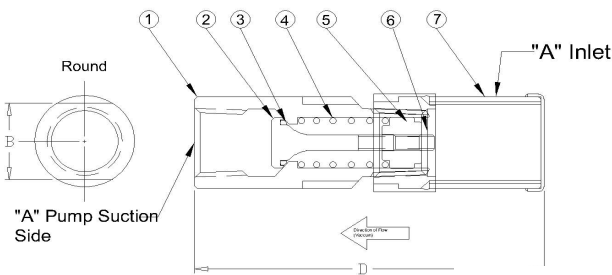
When ordering don't forget to state your desired crack set pressure if you expect the valve to open at some other pressure than the default setting. There is no extra charge for this. This pressure will be showed on the nameplate. **If the set pressure is not specified, the valve will be set at 1.5 psig (0.10 barg)**

# Principle of Operation

This is a poppet (piston) and spring type foot valve where the spring constantly opposes the pressure acting against the poppet which seals off the inlet port. The desired cracking or opening pressure is achieved by compressing the spring until the spring force is adequate to balance the pressure force acting against the poppet. Although the valve is set for a specific cracking pressure at the factory, it can be adjusted in the field by removing the valve from the piping system. It is not externally adjustable. Setting the correct cracking pressure in the field may require several tries, and requires measurement with a pressure gauge to verify. In order to make the pressure adjustment, the valve needs to be unscrewed from its mounting position with pressure removed from the line. Increasing the spring pressure increases the crack pressure and vice versa. A small nut driver, screwdriver or needle nose pliers may be used to make pressure adjustments. However, ordering the valve to the correct cracking pressure would minimize or eliminate the need for making pressure adjustments in the field.

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## Typical illustration FTV-05



## Material List and Specification

#	Item	Materials
1	Body	Stainless Steel
2	Poppet	Stainless Steel
3	Seal	Viton
4	Spring	Stainless Steel
5	Guide	Stainless Steel
6	Nut	Stainless Steel
7	Perf BASKET	Stainless Steel

Size A	Shape	Matl.	B-Flats (in)	B-Flats (mm)	D (in)	Flow Cv
1/2"	Round	Stainless St.	15/16	24	3-7/8"	1.83
3/4"	Round	Stainless St.	1 1/8	28	4-7/8"	2.29
1"	Round	Stainless St.	1 3/8	35	5-1/4"	6.3
1 1/4"	Round	Stainless St.	1 3/4	44	6 1/4"	7.1
1 1/2"	Round	Stainless St.	2 1/4	57	6-3/4"	8.25
2"	Round	Stainless St.	2 5/8	67	7-1/2"	24.9
2 1/2"	Round	Stainless St.	3	76	8-1/4"	45
3"	Round	Stainless St.	4	100	8-1/2"	50

Note: Dimensions are approximate and are subject to change without notice. Request certified dimensions before final product installation.

## 1/2" FTV05-05t

**Rated Pressure 300 psi ~20 bar rating**

Multiple Spring Ranges from:0.5- psig (0.034- barg) Select spring from pricing page

## 3/4" FTV05-07t

**Rated Pressure 300 psi ~20 bar rating**

Multiple Spring Ranges from:0.5- psig (0.034- barg) Select spring from pricing page

## 1"FTV05-10T

**Rated Pressure 300 psi ~20 bar rating**

Multiple Spring Ranges from:0.5- psig (0.034- barg) Select spring from pricing page

## 1 1/4"FTV05-12t

**Rated Pressure 300 psi ~20 bar rating**

Multiple Spring Ranges from:0.5- psig (0.034- barg) Select spring from pricing page

## 1 1/2" FTV05-15t

**Rated Pressure 300 psi ~20 bar rating**

Multiple Spring Ranges from:0.5- psig (0.034- barg) Select spring from pricing page

## 2"FTV05-20t

**Rated Pressure 300 psi ~20 bar rating**

Multiple Spring Ranges from:0.5- psig (0.034- barg) Select spring from pricing page

## 2 1/2" FTV05-20t

**Rated Pressure 300 psi ~20 bar rating**

Multiple Spring Ranges from:0.5- psig (0.034- barg) Select spring from pricing page

## 3"FTV05-20t

**Rated Pressure 300 psi ~20 bar rating**

Multiple Spring Ranges from:0.5- psig (0.034- barg) Select spring from pricing page