

# Aseptic back-pressure valve GD

## Functionality

Aseptic back-pressure valves are used to regulate a pre-defined pressure in aseptic processing plants (constant-pressure valve.) The desired product pressure is reached by supplying compressed air to the pneumatic actuator. A welded stainless steel folding bellow is used to hermetically seal the valve spindle from outside contamination. This special design and the durable valve seat seal made of Tefasep® enables optimum process security. Back-pressure valves are commonly used in pasteurization and sterilization plants.

## Use

- Valves are designed for use in the food, dairy and beverage, pharmaceutical, chemical, and cosmetics industries
- Used as a safe, reliable, and robust flow control device in aseptic production and bottling plants
- The modular valve design allows integration into diverse process applications
- Operating temperatures up to +150°C (+302°F), optionally increased up to +240°C (+464°F)
- CIP (Cleaning-In-Place) and SIP (Sterilizing-In-Place) capable, up to +160°C (+320°F)
- Suitable for applications with caustic or toxic products

## Design Characteristics

- Modular design, consisting of the three main components: housing, internal assembly, and actuator
- The actuator and internal assembly are connected to the housing with a three-piece clamp
- Low-maintenance, service-friendly, and hygienic design
- All product contact surfaces are made of AISI 316L stainless steel (materials certificate available upon request) with a surface finish of 0.8 µm Ra that meets all common hygienic standards
- Complete actuator made of stainless steel
- Customer-specific materials and surface finishes available upon request
- Valve connections can be provided with aseptic flanges, screw connections, or clamps
- The valve is designed for a standard back-pressure of 6 bar (87 psi) by default. Available in all nominal diameters
- Designs for other back-pressures are available

## Valve Housing

The housing is available with either two or three port connections. The valves are produced with standard butt-weld connections by default.

## Internal Assembly

The internal assembly is available with or without a shrunk-on or screwed-on valve seat seal. In addition to the standard sealing material Tefasep®, other materials options such as PTFE and EPDM are available.

## Actuator

Aseptic back-pressures valves are equipped with an air-closing / air-opening (LL) pneumatic actuator.

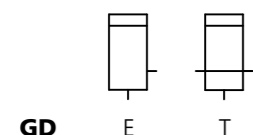
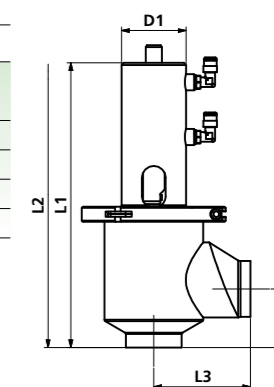
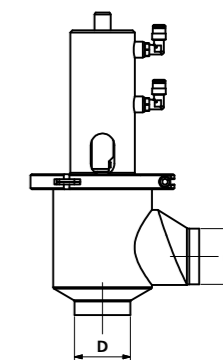
## Dimensions of the pipe connections (acc. to DIN 11866)

DN	15	25	40	50	65	80	100	125
DIN 11866 A (DIN 11850)								
Dim. Ø x s (mm)	19x1.5	29x1.5	41x1.5	53x1.5	70x2	85x2	104x2	129x2
DIN 11866 B (ISO)								
Dim. Ø x s (mm)	21.3x1.6	33.7x2	48.3x2	60.3x2	76.1x2	88.9x2.3	114.3x2.3	139.7x2.6
	¾"	1"	1½"	2"	2½"	3"	4"	
DIN 11866 C (OD)								
Dim. Ø x s (mm)	19.05x1.65	25.4x1.65	38.1x1.65	50.8x1.65	63.5x1.65	76.2x1.65	101.6x2.11	
Dim. Ø x s (inch)	0.75x0.065	1.0x0.065	1.5x0.065	2.0x0.065	2.5x0.065	3.0x0.065	4.0x0.083	

## Dimensions of the aseptic back-pressure valve GD

DN	15	25	40	50	65	80	100	125
D1	60	60	60	60	86	86	106	144
L1	218	230	245	265	323	348	401	544.5
L2	320	350	380	410	460	530	580	840
L3	40	60	75	90	90	100	135	170
L4	29.5	38.5	44.5	54.5	63	75.5	90	106

Other nominal diameters available upon request



Aseptic back-pressure valve with pneumatic actuator