

Zero Dead Leg Valve

Cast stainless steel body,
pneumatically operated



Description

Series 45 pneumatically operated Zero Dead Leg (ZDL) valve has a flow-optimized stainless steel body, a diaphragm, and actuator. The stainless steel body is available with various surface finish. The diaphragm is both a switch as well as a sealing element for the media. It is easily replaceable. An actuator is provided for the protection of diaphragm and for opening and closing actuation of valve. Two inlet ports allow media to continuously flow in the loop. Due to this special feature, dead legs are virtually eliminated at inlet port and when the valve is opened one can get clear uncontaminated media free from bacterial growth or other contaminants. The outlet valve can also be used as drain port during sterilization.

Main Features

- Compact design with zero dead leg
- Top entry design
- Optimum security against microbial growth
- CIP/SIP capable and crevice free
- Zero dead leg and self-draining capabilities
- Fully Autoclavable
- Various internal surface finish available each with less than 0.40 Ra

Dimensions

Zero dead leg valve, cast stainless steel body, pneumatically operated

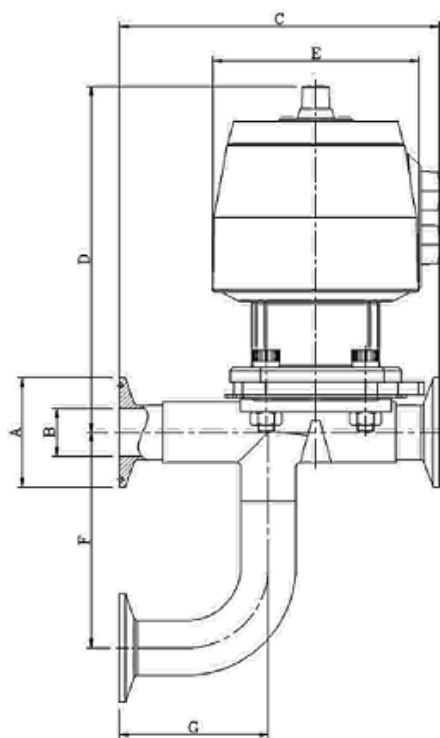


Figure 45- Body with V-band (Hygienic) Clamp Connector

Figure 45- Body with V-band (Hygienic) Clamp Connector							
Connection Size	Flange OD	Pipe ID	Face to face length	Max. Valve Height From Pipe Center	Outside Diameter of Actuator	Inlet Ports Center to Center	Loop Inlet Port Center to face
	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]
1"	50.40	22.10	148.0	162.2	96.00	100.0	69.0
1 ½"	50.40	34.80	182.0	235.4	151.0	100.0	82.6
2"	63.90	47.50	220.0	242.1	151.0	155.0	107.4

Notes:

1. Dimensions and tolerances for end connections and face-to-face length are as per ASME BPE.
2. All other dimensions are approximate and subject to change without prior notice.
3. Dimensions for valves with butt-weld end connections will be provided on request.

Technical Data

Processing medium

Neutral gases and liquids, high purity, sterile, aggressive or abrasive fluids

Temperature

Media temperature		Sterilization temperature		Ambient Temperature
EPDM	-10°C to 75°C	EPDM	Briefly up to 130°C	Up to 90°C
PTFE	-10°C to 90°C	PTFE	Briefly up to 150°C	

Valve body material

MOC – Wetted (Contact)	MOC – Non-wetted (Non- contact)
Stainless Steel 316L	Polyamide or ASTM A351 CF8 (SS 304)

End connection

V-band (Hygienic) Clamp	ASME BPE (EN ISO 1127/ISO 4200 and BS 4825 are available on request)
Butt-Weld	

Data Order

Conn. Size	
10	1"
15	1 ½"
20	2"

Type of Diaphragm	
EPDM	E
PTFE	P

Actuator Type	
Normally Open (NO)	O
Normally Closed (NC)	C
Doubled Actuating	A

Connection Type	
ASME BPE	A
BS 4825	B
EN ISO 1127 / ISO 4200	E ¹

Certificate	
ISO 9001	9

Type of End Connection	
Butt Weld	B
V- Band (hygienic) Clamp	T

Surface Finish	
Mechanical Polish	M
Electro Polish	E

Bonnet & handle Material of Construction	
ASTM A351 GR CF8	C
Polyamide	P

Order Example	LE	45	A	10	E	O	E	T	9
Leistung									
Series #									
Conn. Type									
Conn. Size									
Type of diaphragm									
Actuator type									
Surface finish									
Type of end conn.									
Certificate									

Notes:

1. EN ISO 1127/ISO 4200 offers standards for butt-weld end connections only.
2. Valves with end connection sizes according to EN ISO 1127/ISO 4200 and BS 4825 are available on request

Contact: info@titangroupsupply.com

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For further diaphragm valves, gaskets, compatible actuators & accessories and other products, please contact us for pricing.