

Zero Dead Leg Valve**Cast stainless steel body, pneumatically operated**

- 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



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.

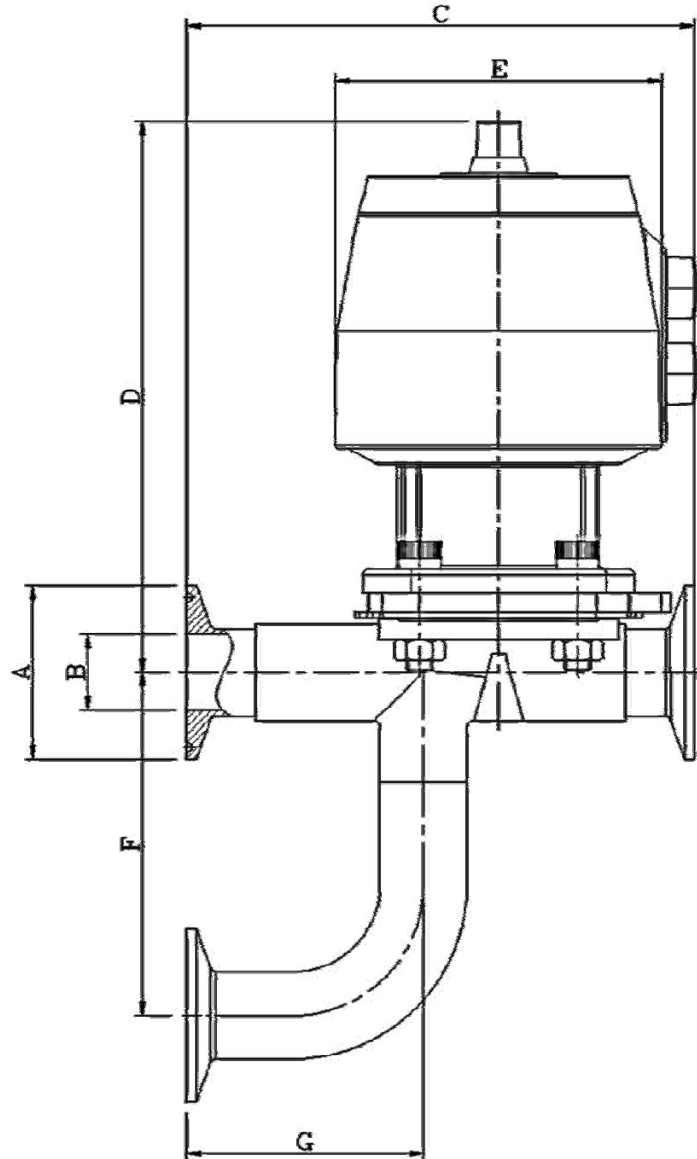
An actuator is provided for the protection of diaphragm and for opening and closing actuation of valve.

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.

Technical Data

| | | |
|--|---|-----------------------|
| Connection Size | 1", 1½", 2" | |
| Rated Air Pressure | 6 Bar(g) | |
| MOC – Wetted (Contact) | ASTM A351 CF3M (SS 316L) | |
| MOC – Non-wetted (Non- contact) | Polyamide or ASTM A351 CF8 (SS 304) | |
| Seal material | EPDM, PTFE | |
| Media | Neutral gases and liquids, high purity, sterile, aggressive or abrasive fluids | |
| Viscosity | Up to viscous | |
| Surface finish | Mechanical or Electro Polish | |
| Media temperature | EPDM | -10°C to +75 °C |
| | PTFE | -10°C to +90 °C |
| Ambient temperature | Up to +90 °C | |
| Sterilization temperature | EPDM | Briefly up to +130 °C |
| | PTFE | Briefly up to +150 °C |
| End connections | ASME BPE • V-band (Hygienic) Clamp • Butt-Weld - EN ISO 1127/ISO 4200 and BS 4825 are available on request | |
| Installation | With both inlet ports in upright position | |

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



Dimensions for end connections according to ASME BPE connection type

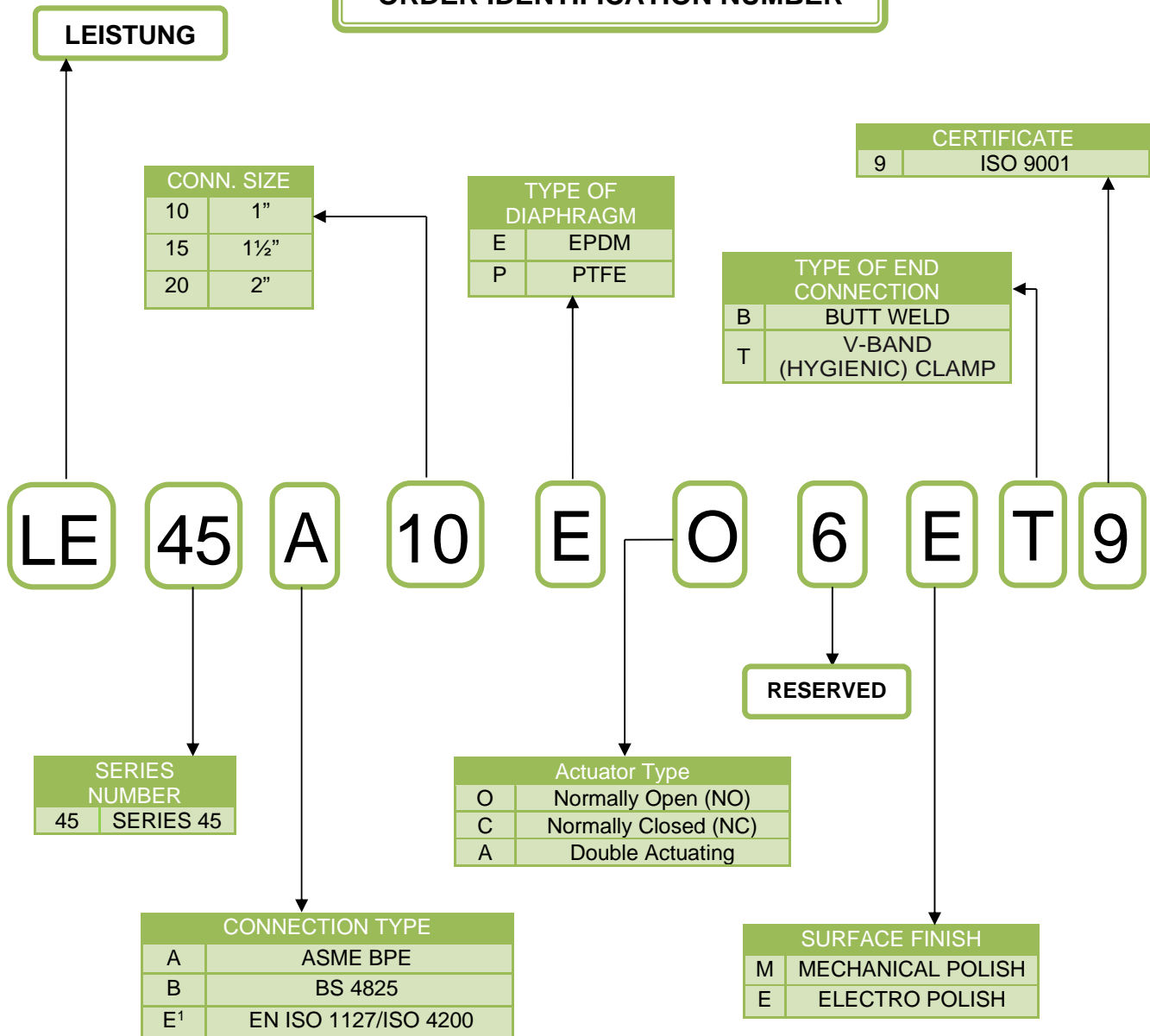
| Body with V-band (Hygienic) Clamp Connector | | | | | | | |
|---|-----------|---------|---------------------|------------------------------------|------------------------------|------------------------------|--------------------------------|
| Connection Size | Flange OD | Pipe ID | Face to Face Length | Max. Valve Height from Pipe Center | Outside Diameter of Actuator | Inlet Ports Center to Center | Loop Inlet Port Center to Face |
| | A | B | C | D | E | F | G |
| | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |
| 1" | 50.40 | 22.10 | 148.0 | 192.0 | 120.5 | 100.0 | 69.0 |
| 1½" | 50.40 | 34.80 | 182.2 | 226.4 | 150.6 | 100.0 | 82.6 |
| 2" | 63.90 | 47.50 | 220.0 | 242.8 | 150.6 | 155.0 | 107.9 |

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.

Ordering Chart

ORDER IDENTIFICATION NUMBER



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.

In case of special application conditions, please e-mail at: rnd@leistung.in
 The technical specifications are subject to change without notice.