

## 2-Way Diaphragm Valve, Forged stainless steel body, manually operated

- Cavity free and self-draining
- Hermetical separation of fluids from the operating mechanism by diaphragm
- Fully machined from SS 316L bar-stock– no welded components
- Fully Autoclavable
- Full traceability as per EN 10204 3.1 and ASME BPE
- Various internal surface finish available each with less than 0.40 Ra



Series 20 manually operated diaphragm valve has a flow-optimized stainless steel body, a diaphragm, a bonnet and manual handle. 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.

The bonnet is provided for the protection of diaphragm and handle-mechanism.

Flow can be continually adjusted with proper positioning of the handle. Position indicator is provided at top of the handle.

This valve is designed for zero dead leg and can be mounted to be self-draining. This allows high flow capacity and variety of applications.

Technical Data	
<b>Connection Size</b>	½" - 3"
<b>MOC – Wetted (Contact)</b>	Stainless Steel 316L
<b>MOC – Non-wetted (Non- contact)</b>	Polyamide or ASTM A351 CF8 (SS 304)
<b>Seal material</b>	EPDM, PTFE
<b>Media</b>	Neutral gases and liquids, high purity, sterile, aggressive or abrasive fluids
<b>Viscosity</b>	Up to viscous
<b>Surface finish</b>	Mechanical or Electro Polish
<b>Media temperature</b>	EPDM -10°C to +75 °C
	PTFE -10°C to +90 °C
<b>Ambient temperature</b>	Up to +90 °C
<b>Sterilization temperature</b>	EPDM Briefly up to +130 °C
	PTFE Briefly up to +150 °C
<b>End connections</b>	ASME BPE - EN ISO 1127/ISO 4200 and BS 4825 are available on request
<b>Installation</b>	As required, preferably with handle in upright position
<b>Installation for Self-draining mounting</b>	Tilted 10° to 35° to the horizontal and inclined 3° to 5° to the direction of flow
<b>Options</b>	Locking function available with polyamide bonnet

**2-Way diaphragm valve, forged stainless steel body, manually operated  
Body with Butt-weld End**

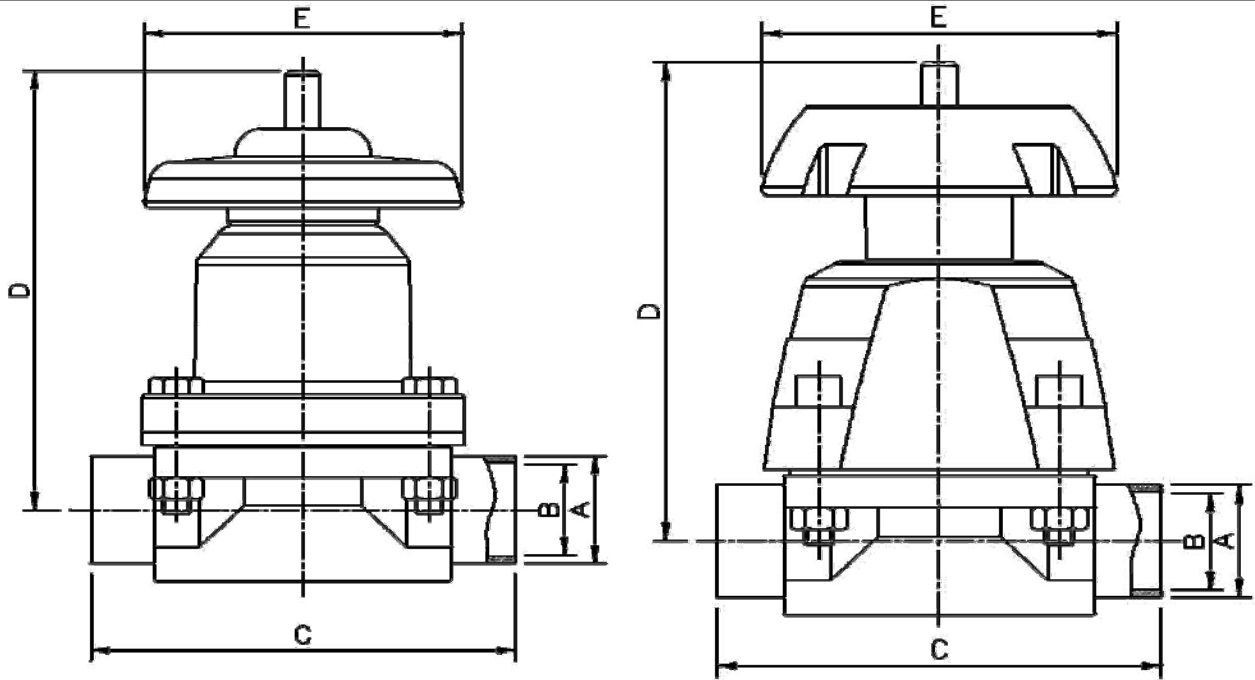


Figure 201

Figure 202

**Dimensions for end connections according to ASME BPE connection type**

<b>Bonnet and Handle - Stainless Steel (Refer Figure 201)</b>					
Connection Size	Pipe OD	Pipe ID	Face to Face Length	Max. Valve Height from Pipe Center	Outside Diameter of Handle
	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
1/2" Mini*	12.70	7.75	71.0	67.4	40.0
1/2" Regular	12.70	9.40	84.0	80.1	80.5
3/4"	19.05	15.75	96.0	92.0	80.5
1"	25.40	22.10	108.0	105.0	89.7
1 1/2"	38.10	34.80	130.9	134.9	115.8
2"	50.80	47.50	154.1	157.1	152.5
2 1/2"	63.50	60.20	154.0	164.3	152.5
3"	76.20	72.90	154.0	170.6	152.5

<b>Bonnet and Handle - Polyamide (Refer Figure 202)</b>					
Connection Size	Pipe OD	Pipe ID	Face to Face Length	Max. Valve Height from Pipe Center	Outside Diameter of Handle
	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
1/2" Mini*	12.70	7.75	71.0	67.4	40.0
1/2" Regular	12.70	9.40	84.0	85.0	80.8
3/4"	19.05	15.75	96.0	99.3	80.8
1"	25.40	22.10	108.0	110.5	94.0
1 1/2"	38.10	34.80	130.9	127.7	118.2
2"	50.80	47.50	154.1	165.1	149.7
2 1/2"	63.50	60.20	154.0	172.3	149.7
3"	76.20	72.90	154.0	178.6	149.7

\* - No position indicator available for this valve

**2-Way diaphragm valve, forged stainless steel body, manually operated  
Body with V-band (Hygienic) Clamp Connector**

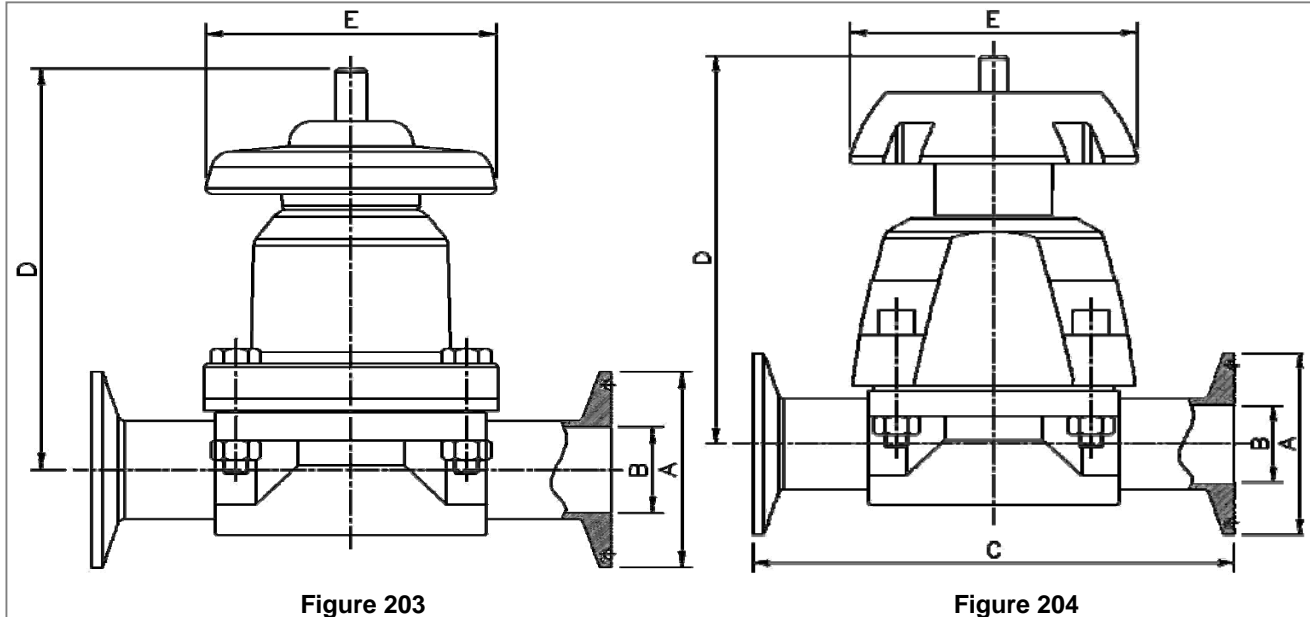


Figure 203

Figure 204

**Dimensions for end connections according to ASME BPE connection type**

<b>Bonnet and Handle - Stainless Steel (Refer Figure 203)</b>					
Connection Size	Flange OD	Pipe ID	Face to Face Length	Max. Valve Height from Pipe Center	Outside Diameter of Handle
	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
½" Mini*	25.00	7.75	96.4	67.4	40.0
½" Regular	25.00	9.40	109.5	80.1	80.5
¾"	25.00	15.75	121.4	92.0	80.5
1"	50.40	22.10	133.4	105.0	89.7
1½"	50.40	34.80	156.5	134.9	115.8
2"	63.90	47.50	179.5	157.1	152.5
2½"	77.40	60.20	179.5	162.1	152.5
3"	90.90	72.90	179.5	168.0	152.5

\* - No position indicator available for this valve

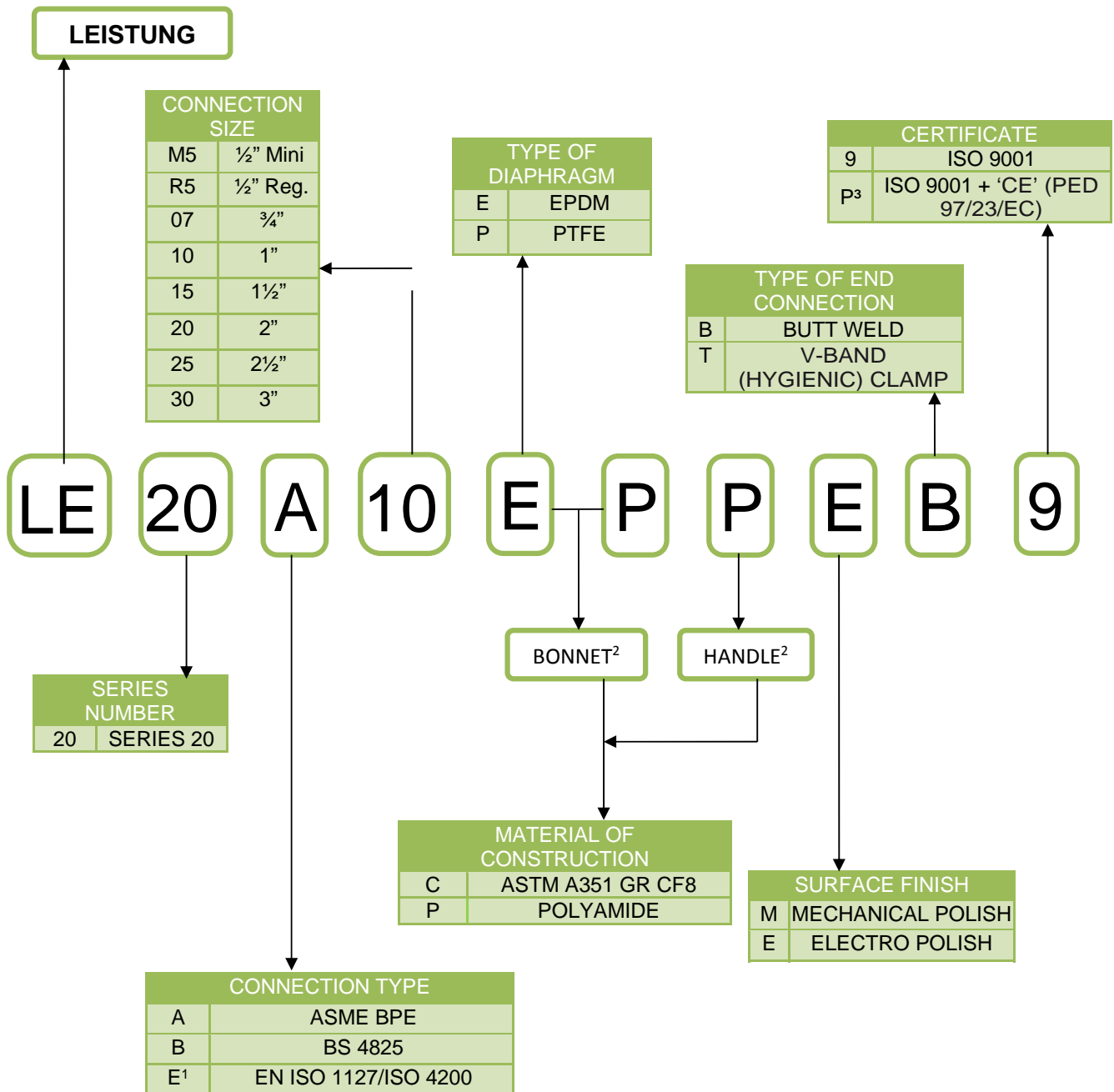
<b>Bonnet and Handle - Polyamide (Refer Figure 204)</b>					
Connection Size	Flange OD	Pipe ID	Face to Face Length	Max. Valve Height from Pipe Center	Outside Diameter of Handle
	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
½" Mini*	25.00	7.75	96.4	67.4	40.0
½" Regular	25.00	9.40	109.5	85.0	80.8
¾"	25.00	15.75	121.4	99.3	80.8
1"	50.40	22.10	133.4	110.5	94.0
1½"	50.40	34.80	156.5	127.7	118.2
2"	63.90	47.50	179.5	165.1	149.7
2½"	77.40	60.20	179.5	170.0	149.7
3"	90.90	72.90	179.5	176.0	149.7

**Notes:**

- For V-band (Hygienic) clamp connections, clamp connector will be welded to the valve body with butt-weld end. Internal finish will be provided as per customer's request.
- Dimensions and tolerances for end connection and face-to-face length are as per ASME BPE.
- All other dimensions are approximate and subject to change without prior notice.
- Dimensions for valves with stainless steel bonnet and polyamide handle will be provided on request.

Ordering Chart

**ORDER IDENTIFICATION NUMBER**



Note:

- 1 – EN ISO 1127/ISO 4200 offers standards for butt-weld end connections only.
- 2 – Combination of polyamide bonnet and steel handle (LE20XXXXPCXXX) is not available.
- 3 – 'CE'-marking is applicable for valves with connection sizes 1½", 2", 2½" and 3" only.
- 4 – 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](mailto:rnd@leistung.in)  
 The technical specifications are subject to change without notice.