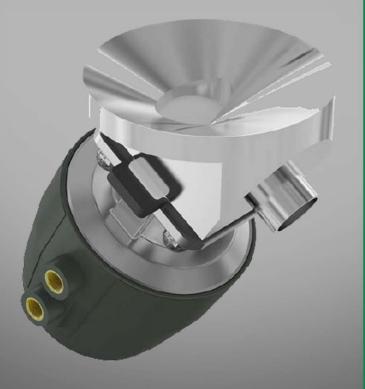


# **Tank Bottom Valve**

Machined stainless steel body, Pneumatically operated



## Description

Series 55 pneumatically operated tank bottom valve has a body with attached welding neck and an inlet ports, a diaphragm seal and actuator. Tank bottom valves are normally used as outlet valves and are welded into the lowest point of the tank bottom enabling the tank to be self drained and cleaned or sterilized. The most important design feature of the valve is that the weir is as close as possible to the internal contour of the tank. This enables the diaphragm seal to effectively become a continuation of the surface of the tank bottom with no dead leg. 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. Modified versions of the tank bottom valves are designed for installation in the tank walls.

## Main Features

- Compact design for space restricted applications
- Simplified welding with provision of welding neck
- Optimized flow geometry
- Hermetical separation of fluids from the operating mechanism by diaphragm
- Fully machined from SS 316L bar-stock
- 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

Tank bottom valve, stainless steel body machined from bar-stock, pneumatically operated

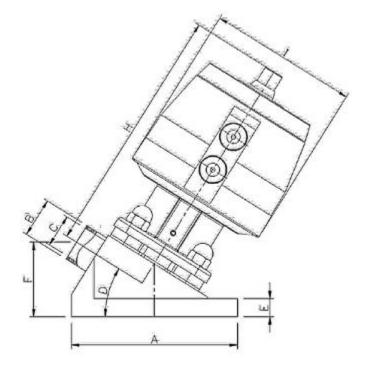


Figure 50-1 Bonnet and Handle - Stainless Steel

Figure 50 -1 Body	/ and Handle -	– Stainlass Staal
Inguic JU I Dou		Junicas Steel

Tigure 50 T body and Handre Stanless Steel										
Conn.	nn. Body OD Pipe OD		Pipe ID	Port Angle from Body	Thickness of Body	Port Center to Body Face Distance		Max. Valve Length	Outside Diameter	
Size	,	·	·	Face	Welding Neck	Vertical	Horizontal	from Port Center	of Handle	
				5 (0)						
	A [mm]	B [mm]	C [mm]	D (°)	E [mm]	F [mm]	G[mm]	H [mm]	l [mm]	
1/2"	65.0	12.70	9.40	32	7.0	34.30	36.60	114.6	68.0	
3/4"	65.0	19.05	15.75	32	7.0	31.70	38.30	117.7	68.0	
1″	107.0	25.40	22.10	32	11.8	48.0	50.10	161.4	96.0	
1 ½"	140.0	38.10	34.80	35	16.0	69.0	62.80	234.3	151.0	
2″	140.0	50.80	47.50	35	16.0	63.40	66.74	214.1	151.0	
2 ½"	174.5	63.50	60.20	35	20.0	72.10	80.30	267.7	180.0	
3″	188.6	76.20	72.90	35	20.0	67.20	83.70	273.7	180.0	

#### 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 v-band (hygienic) clamp connections will be provided on request.

# **Technical Data**

## **Processing medium**

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

Temperatu	re								
Med	ia temperature	Steriliz	ation 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)									
Stainle	ess Steel 316L	Polyamide or <i>i</i>	ASTM A351 CF8 (SS 304)						
End connection									
V-band (Hygienic) Clamp ASME BPE									

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

## Data Order

Connection Size			Type of Diaphragm					Certificate			
05	1/2" Mini		EPDM E					ISO 9001			
7	3/4"		PTFE P								
10	1″										
15	1 1⁄2″			Actuator	Туре		Conne	ction Ty	ре		
20	2″		Norm	ally Ope	n (NO)		ASME	А			
25	2 1⁄2″		Normally Closed (NC) C					BS 4825 B <sup>2</sup>			
30	3″	C	Doubled Actuator (DA) A					EN ISO 1127			
						/ ISO 4	4200	E <sup>2</sup>			
Type of End Connection					Surface Finish						
	Butt Weld B				Mechan	Polish	Μ				
V- Band (hygienic) Clamp <sup>3</sup>			Т		Electro Polish			Е			

<sup>&</sup>lt;sup>1</sup> Valves with end connection sizes according to EN ISO 1127/ISO 4200 and BS 4825 are available on request

<sup>&</sup>lt;sup>2</sup> EN ISO 1127/ISO 4200 offers standards for butt-weld end connections only.

<sup>&</sup>lt;sup>3</sup> 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 request.

Order Example	LE	15	А	10	Е	0	6	Е	Т	9
Leistung										
Series #										
Conn. Type										
Conn. Size										
Type of diaphragm										
Actuator type										
Reserves										
Surface finish										
Type of end conn.										
Certificate										

Contact: info@titangroupsupply.com https://www.titangroupsupply.com/ Tel: 1-800-820-0092 Fax: 1-416-849-0116

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