

Tank-bottom valves

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Features and benefits

- Optimized radial diaphragm design, eliminates entrapment for easy cleaning
- Simple, Tri-Clamp assembly makes maintenance 80 % faster
- Truly flush mount design with no gaskets, bolts or seams
- Integrated travel stops
- No readjustment or retightening
- Up to three ports for CIP/SIP or flushing while closed



Performance

Tank-bottom valve flow rates	
Flow rates	
Size inches	LPM (GPM)*
0.5	10.2 (2.7)
1.0	59.8 (15.8)
1.5	180.0 (48.0)
2.0	272.0 (72.0)
2.5	340.7 (90.0)
3.0	643.0 (170.0)
4.0	1143.0 (302.0)

*Flow rates based on water at 1 psi (0.07 bar) at ambient

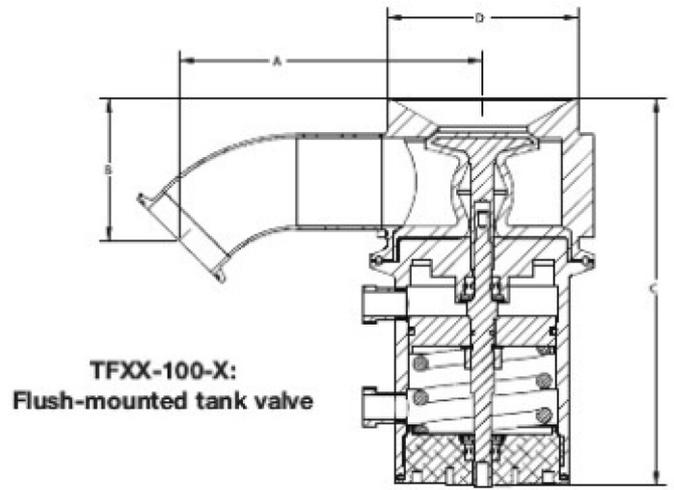
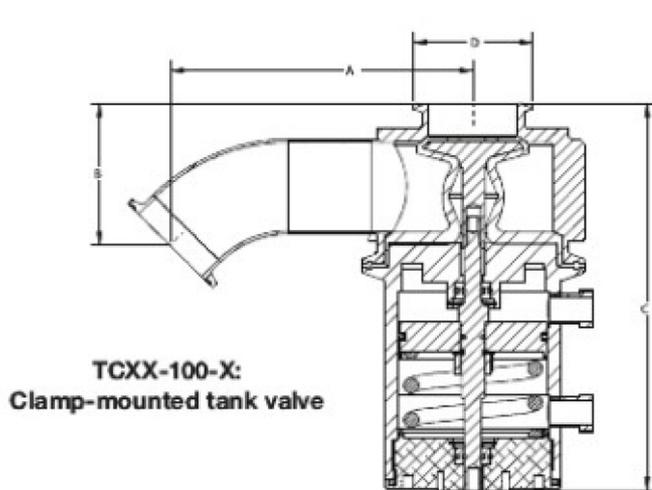
Technical specifications

	Tank-bottom valves
Mounting type	Flush
Flow rate	10.2 - 1,143 l/m
Flow rate	2.7 - 302 USGPM
Sizes	0.5", 1.0", 1.5", 2.0", 2.5", 3.0", 4.0"
Outlet connections	Hygienic clamp, Tube end
Max. operating pressure	10 bar (150 psi)
Operating temperature	-51 °C to 177 °C (-60 °F to 350 °F)
Compatible actuators	Fail closed, Fail open, Manual, Pneumatic
Compatible diaphragms	EPDM, Silicone, Silicone plus, Viton
Surface finish options	Electropolished, Max 10 micro-inch Ra (0.25 µm Ra), Max 15 micro-inch Ra (0.375 µm Ra), Max 20 micro-inch Ra (0.5 µm Ra)
Certification and compliance	ISO 9001
Standards	ASME BPE, CE-PED
Weight	0.3 - 31.1 kg (0.6 - 68.6 lbs)

Materials of construction

	Tank-bottom valves
Material	Hastelloy C22, Hastelloy C276, Stainless steel 316L, Stainless steel AL-6XN

Tank-bottom valves dimensions



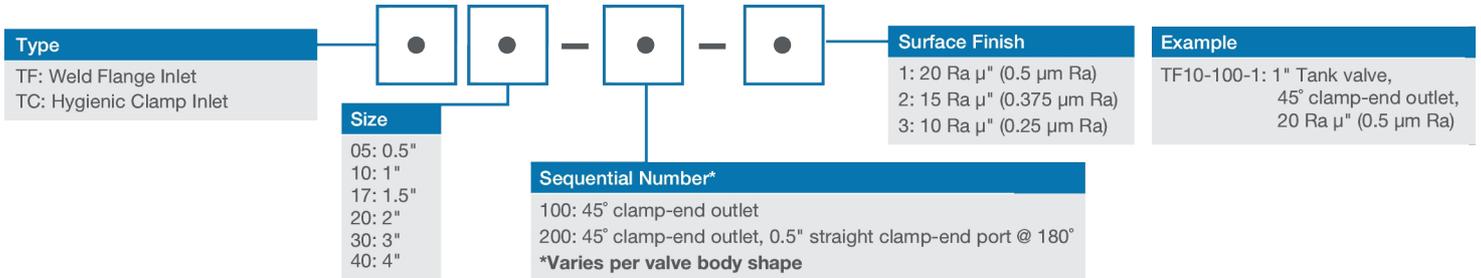
TCXX-100-X: Clamp-mounted tank valve					
Size inches	A	B	C - with pneumatic actuator	C - with manual actuator	D
	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)
0.5	N/A	N/A	N/A	N/A	N/A
1.0	113.0 (4.4)	52.0 (2.1)	173.0 (6.8)	148.0 (5.8)	50.0 (2.0)
1.5	132.0 (5.2)	64.0 (2.5)	187.0 (7.4)	146.0 (5.8)	50.0 (2.0)
2.0	162.0 (6.4)	76.0 (3.0)	208.0 (8.2)	186.0 (7.3)	64.0 (2.5)
2.5	N/A	N/A	N/A	N/A	N/A
3.0	200.0 (7.9)	100.0 (4.0)	271.0 (10.7)	212.0 (8.3)	91.0 (3.6)
4.0	243.0 (9.6)	146.0 (5.7)	381.0 (15.0)	284.0 (11.2)	119.0 (4.7)

TFXX-100-X: Flush-mounted tank valve					
Size inches	A	B	C - with pneumatic actuator	C - with manual actuator	D
	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)
0.5	87.0 (3.4)	56.0 (2.2)	129.0 (5.1)	108.0 (4.3)	50.0 (2.0)
1.0	113.0 (4.4)	52.0 (2.1)	173.0 (6.8)	148.0 (5.8)	76.0 (3.0)
1.5	132.0 (5.2)	64.0 (2.5)	187.0 (7.4)	146.0 (5.8)	76.0 (3.0)
2.0	162.0 (6.4)	76.0 (3.0)	208.0 (8.2)	186.0 (7.3)	102.0 (4.0)
2.5	192.0 (7.5)	101.0 (4.0)	271.0 (10.7)	212.0 (8.3)	125.0 (4.9)
3.0	200.0 (7.9)	100.0 (4.0)	271.0 (10.7)	212.0 (8.3)	125.0 (4.9)
4.0	243.0 (9.6)	146.0 (5.7)	381.0 (15.0)	284.0 (11.2)	178.0 (7.0)

Weights

Weights						
Size	Valve Body		Total Weight with Manual Actuator		Total Weight with pneumatic actuator	
inches	kg	lb	kg	lb	kg	lb
0.5	0.3	0.6	1.2	2.7	1.1	2.4
1.0	1.6	3.6	3.5	7.8	3.9	8.7
1.5	1.8	3.9	3.2	7.1	4.4	9.7
2.0	7.4	16.4	10.0	23.0	11.2	24.7
2.5	17.5	38.6	21.0	45.6	28.3	62.3
3.0	17.5	38.6	21.0	45.6	28.3	62.3
4.0	31.1	68.6	38.0	83.8	54.9	121.0

Product codes



Size	Model code	Description
0.5	TF05-100	Radial valve , 0.5" Flush Tank, EN 1.4435 body/316L fitting(s), Fits 0.375" thick or less head, 0.5" 45° clamp-end outlet, flush diaphragm, (unground weld(s), weld is polished to match interior finish), x micro-inch Ra surface finish, electropolished and passivated, includes body/actuator clamp
1.0	TF10-100	Radial valve ,1" Flush Tank, EN 1.4435 body/316L fitting(s), Fits 0.375" thick or less head, 1" 45° clamp-end outlet, flush diaphragm, (unground weld(s), weld is polished to match interior finish), x micro-inch Ra surface finish, electropolished and passivated, includes body/actuator clamp
1.5	TF17-100	Radial valve , 1.5" Flush Tank, EN 1.4435 body/316L fitting(s), Fits 0.375" thick or less head, 1.5" 45° clamp-end outlet, flush diaphragm, (unground weld(s), weld is polished to match interior finish), x micro-inch Ra surface finish, electropolished and passivated, includes body/actuator clamp
2.0	TF20-100	Radial valve , 2" Flush Tank, EN 1.4435 body/316L fitting(s), Fits 0.375" thick or less head, 2" 45° clamp-end outlet, flush diaphragm, (unground weld(s), weld is polished to match interior finish), x micro-inch Ra surface finish, electropolished and passivated, includes body/actuator clamp
2.5	TF25-100	Radial valve , 3" Flush Tank, EN 1.4435 body/316L fitting(s), Fits 0.375" thick or less head, 2.5" 45° clamp-end outlet, flush diaphragm, (unground weld(s), weld is polished to match interior finish), x micro-inch Ra surface finish, electropolished and passivated, includes body/actuator clamp
3.0	TF30-100	Radial valve , 3" Flush Tank, EN 1.4435 body/316L fitting(s), Fits 0.375" thick or less head, 3" 45° clamp-end outlet, flush diaphragm, (unground weld(s), weld is polished to match interior finish), x micro-inch Ra surface finish, electropolished and passivated, includes body/actuator clamp
4.0	TF40-100	Radial valve , 4" Flush Tank, EN 1.4435 body/316L fitting(s), Fits 0.375" thick or less head, 4" 45° clamp-end outlet, flush diaphragm, (unground weld(s), weld is polished to match interior finish), x micro-inch Ra surface finish, electropolished and passivated, includes body/actuator clamp

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