

DT 64/65 Series Thermodynamic Disc Traps



The DT64/65 Series is a line of compact, lightweight thermodynamic disc traps designed to efficiently discharge condensate on applications with working pressures to 600 psi. These simple, yet rugged, traps will provide economical long-term performance on drip leg, tracing, and process services.

- **Easy in-line inspection and maintenance** — simple one-piece thermodynamic cartridge can be inspected, removed, or replaced without removing the steam trap from the line.
- **Single moving part** — simple, yet effective design utilizes just one moving part for minimal maintenance and long operating life.
- **High capacities** — optimized porting configuration provides for higher flow capacities than found with other cartridge designs.
- **Rugged design** — withstands the effects of water hammer, vibration, and corrosive environments.

Bestobell DT64/65 Steam Traps

Description

The DT64 is a lightweight stainless steel steam trap for use on steam mains, tracing, and process services with working pressures up to 600 psi. The DT65 features a carbon steel body for easy installation when welding is required, and also includes a built-in strainer. Both models feature a one-piece thermodynamic cartridge that efficiently discharges air and condensate while preventing steam loss. The simple design allows the cartridge to be inspected, removed, or replaced while the trap remains in-line.

Specifications

Line Sizes: 3/8" (DT64 only), 1/2", 3/4", 1"

End Connections: threaded (NPT), BSPT, BSPP, socket weld, or flanged

Materials:

- Body: *DT64* ~ Stainless Steel (ASTM A351, CF8M); *DT65* ~ forged Carbon Steel, ASTM A105
- Cap: *DT64* ~ Stainless Steel (ASTM A479, Type 316); *DT65* ~ forged Stainless Steel (AISI 304)
- Disc & Cartridge (DT64 & 65): Stainless Steel
- Seat Seal (DT64): EPDM
- Strainer (DT65 only): Stainless Steel

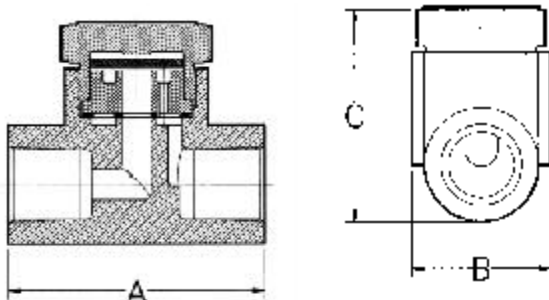
Maximum Operating Pressure: *DT64* ~ 600 psi (41 bar); *DT65* ~ 580 psi (40 bar)

Maximum Operating Temperature: *DT64* ~ 500°F (260°C); *DT65* ~ 752°F (400°C)

Mounting: any position except upside down; self-draining when mounted vertically downward

Dimensions

DT64



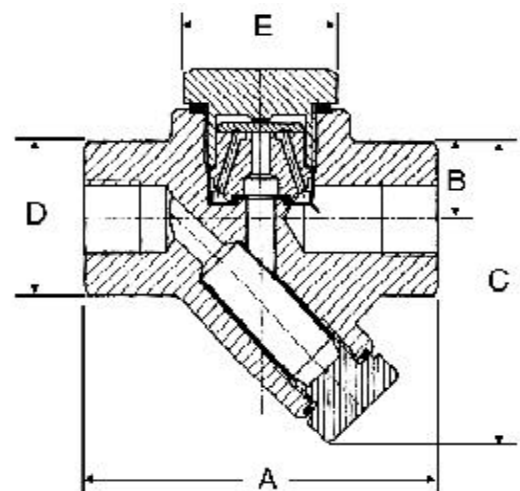
Size	A	B	C	Weight
3/8" (10 mm)	2.69" (68,3 mm)	2.53" (64,3 mm)	2.38" (60,5 mm)	1.5 lbs (0,68 kg)
1/2" (15 mm)	2.69" (68,3 mm)	2.53" (64,3 mm)	2.38" (60,5 mm)	1.4 lbs (0,63 kg)
3/4" (20 mm)	2.81" (71,4 mm)	1.91" (48,5 mm)	2.75" (69,9 mm)	2.2 lbs (1 kg)
1" (25 mm)	2.81" (71,4 mm)	1.91" (48,5 mm)	2.75" (69,9 mm)	2.2 lbs (1 kg)

Capacity Chart

ΔP		DT64				DT65	
		3/8", 1/2" sizes		3/4", 1" sizes		1/2", 3/4", 1"	
PSIG	Barg	lbs/hr	kg/hr	lbs/hr	kg/hr	lbs/hr	kg/hr
4	0,27	108	49	243	110	—	—
10	0,69	114	51	282	128	260	117
20	1,37	120	54	336	152	440	199
30	2,07	129	59	384	174	540	244
50	3,45	147	67	486	220	680	308
75	5,17	183	83	600	272	800	363
100	6,9	222	100	696	315	910	412
150	10,3	300	136	870	394	1100	499
200	13,8	366	166	1002	454	1250	567
250	17,2	420	190	1140	517	1400	635
300	20,7	474	215	1260	571	1500	680
350	24,1	528	240	1350	612	1600	725
400	27,6	576	260	1458	661	1700	771
450	31,0	630	285	1560	707	1800	816
500	34,5	660	299	1650	748	—	—
550	37,9	696	315	1740	789	—	—
600	41,4	750	340	1830	830	—	—

- Notes: 1. Capacities are continuous discharge capacities at 0 back pressure.
2. Apply safety factor as required by your specific application.

DT65



Size	A	B	C	D	E	Weight
1/2" (15 mm)	3.75" (95 mm)	1.6" (40 mm)	3.9" (99 mm)	1.7" (42 mm)	1.88" (48 mm)	2.5 lbs (1,2 kg)
3/4" (20 mm)	3.75" (95 mm)	1.6" (40 mm)	3.9" (99 mm)	1.7" (42 mm)	1.88" (48 mm)	2.5 lbs (1,2 kg)
1" (25 mm)	5.5" (139 mm)	1.6" (40 mm)	3.9" (99 mm)	1.7" (42 mm)	1.88" (48 mm)	3.2 lbs (1,5 kg)