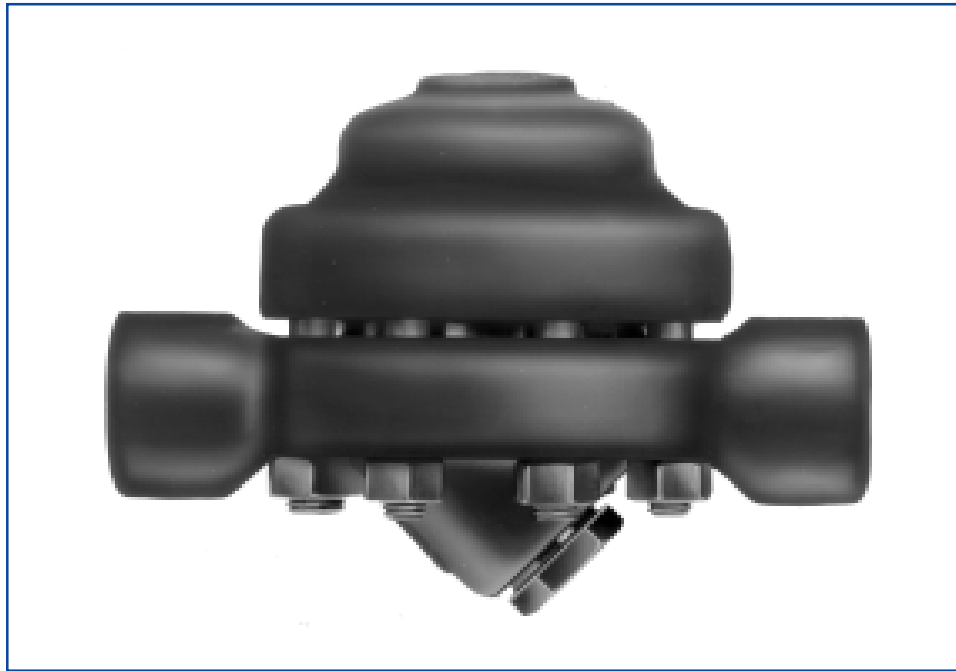


## Models DM40-DM64-D100

### Steam Traps for High Pressure Services

---



---

For high pressure applications, these rugged steam traps provide fast start-up and high performance on steam main driplegs and high pressure process applications with up to 900 psi differential pressure.

- **Single blade element** — offers long-term, trouble-free service because it's not prone to dirt build-up as encountered with many other bimetal designs.
- **Stainless Steel internals** — highly resistant to fatigue and corrosion and completely renewable.
- **Built-in strainer and check valve** — Y-type strainer is included to protect trap from dirt; integral check valve prevents backflow during shutdown.
- **Modulating discharge** — automatically adjusts to operating pressure and load, overcoming problems associated with cyclic discharge.
- **Continuous air and CO<sub>2</sub> venting** — maximizes heat transfer while minimizing corrosion.
- **Fast start-up capabilities** — due to high cold discharge capacities.

# Bestobell Models DM40 - DM64 - DM100

## Specifications

**Line Sizes:** 1/2", 3/4", 1"

**Maximum Differential Pressure:** DM40: 450 psi (31 bar); DM64: 600 psi (41 bar); DM100: 900 psi (62 bar)

**Maximum Body Pressure:** DM40: 750 psig\* (52 bar); DM64: 1500 psig (103 bar); DM100: 1500 psig (103 bar)

\*750 psig with high temperature boltage; 650 psig with standard bolts

**Maximum Body Temperature:** DM40: 750°F (399°C); DM64: 750°F (399°C); DM100: 750°F (399°C) [Carbon Steel body], 1000°F (538°C) [Chrome-Moly body]

**End Connections:** threaded 9NPT), BSPT, BSPP, socket weld, butt weld, or raised face flanges (ANSI 300, 600 for DM40; ANSI 600, 900 for DM64; ANSI 600, 900, 1500 for DM100). DIN flanges also available.

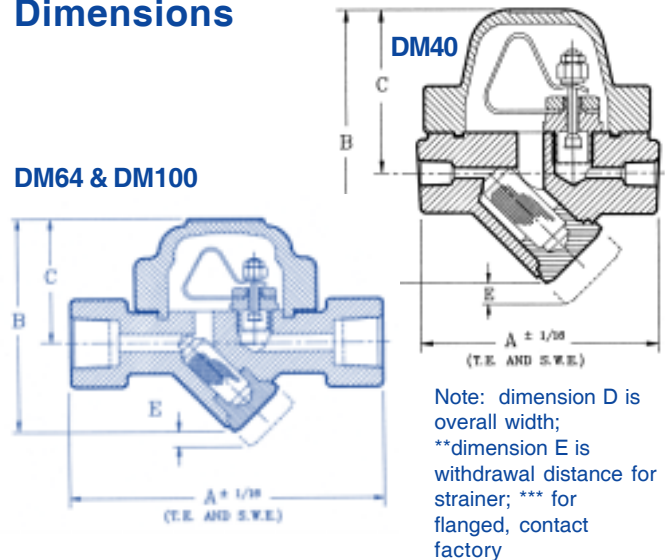
### Materials:

- Body & Cover: DM40 & DM64: forged Carbon Steel; DM100: forged Carbon Steel (A105) or Chrome-Moly (F11)
- Valve Seat & Cone: DM40: hardened Stainless Steel; DM64 & DM100: Stainless Steel/Stellite
- Bimetal: Stainless Steel
- Strainer: Stainless Steel
- Nuts & Bolts: DM40: Steel; DM64/DM100: forged Steel
- Gasket: flexible Graphite

**Options:** double threaded strainer cap (DTC) for blowdown valve attachment; selection of blowdown valves

**Mounting:** from horizontal to vertical (see *Installation & Maintenance Instructions*). Self-draining and freeze-resistant when mounted in vertical position.

## Dimensions



Inches, Pounds						
DM40	A	B	C	D	E	WT.
1/2", 3/4"	4"	6"	3-5/8"	4"	2-5/8"	8.4#
1"	5"	6-3/4"	3-5/8"	4"	3-1/4"	9.9#
DM64	A	B	C	D	E	WT.
1/2" - 1"	7"	6"	4"	4-3/8"	3-1/4"	13.5#
DM100	A	B	C	D	E	WT.
1/2" - 1"	8-1/2"	6"	4"	5-3/8"	3-1/4"	21#
mm, kg						
DM40	A	B	C	D	E	WT.
1/2", 3/4"	102	152	92	102	67	3,8 kg
1"	127	172	92	102	83	4,5 kg
DM64	A	B	C	D	E	WT.
1/2" - 1"	178	152	102	111	83	6,1 kg
DM100	A	B	C	D	E	WT.
1/2" - 1"	216	152	102	137	83	9,5 kg

## Capacity Charts: Condensate Capacity at Differential Pressure

DM40		Consider "25" Series in this range				
Size	Differential Pressure, psi (bar)	250 (17,2)	300 (20,7)	350 (24,1)	400 (27,6)	450 (31,0)
1/2", 3/4"	Cold Start-Up, lbs/hr	4500	5500	6500	7000	7500
	Hot Running, lbs/hr	500	700	750	850	950
	Cold Start-Up, Kg/hr	2041	2495	2948	3175	3402
	Hot Running Load, Kg/hr	227	318	340	386	431
1"	Cold Start-Up, lbs/hr	7500	9000	11000	12000	12500
	Hot Running, lbs/hr	800	1000	1200	1300	1300
	Cold Start-Up, Kg/hr	3402	4082	4990	5443	5670
	Hot Running Load, kg/hr	363	454	544	590	590

DM64		Consider "25" Series in this range			
Size	Differential Pressure, psi (bar)	350 (24,1)	450 (31,0)	500 (34,5)	600 (41,4)
1/2", 3/4" & 1"	Cold Start-Up, lbs/hr	4000	5000	5250	5500
	Hot Running, lbs/hr	500	600	650	700
	Cold Start-Up, Kg/hr	1814	2268	2381	2495
	Hot Running Load, Kg/hr	227	272	295	318

DM100		Consider DM64 Series in this pressure range			
Size	Differential Pressure, psi (bar)	450 (31,0)	600 (41,4)	750 (51,7)	900 (62,1)
1/2", 3/4" & 1"	Cold Start-Up, lbs/hr	4500	5500	6100	6300
	Hot Running, lbs/hr	550	700	750	770
	Cold Start-Up, Kg/hr	2041	2495	2767	2858
	Hot Running Load, Kg/hr	250	318	340	349

Note: flow rates based on discharge to atmospheric pressure, valid for back pressures up to 20% of inlet pressure. Higher back pressures require reset of control element to obtain these capacities. Consult factory for details.