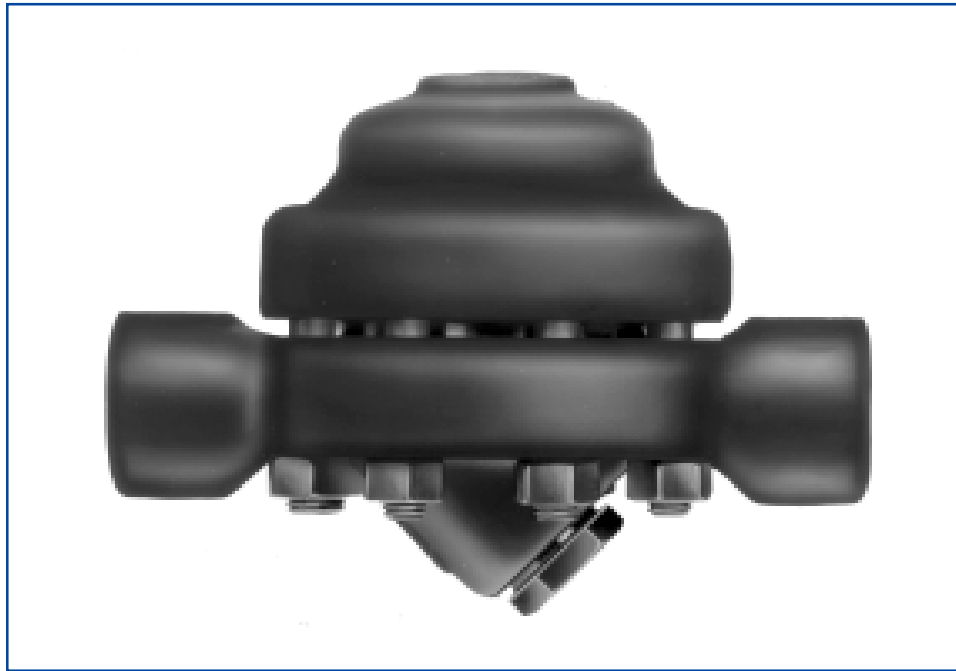


Models DM40-DM64-DM100

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 CO₂ 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)

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.

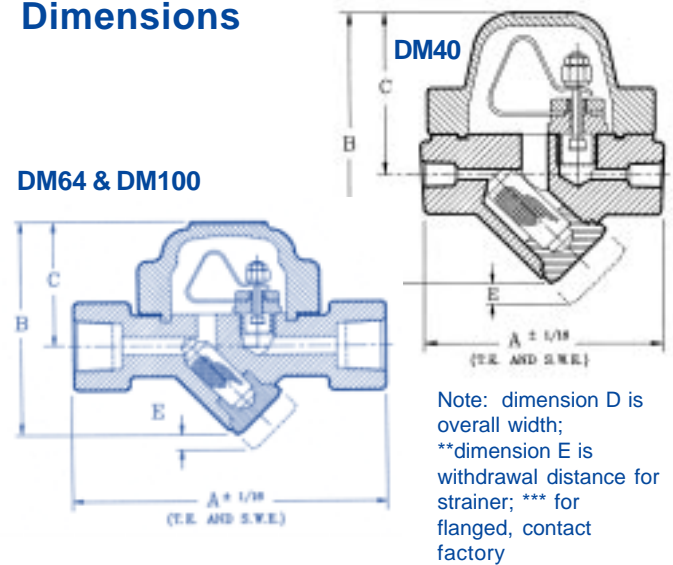
Materials:

- 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.