Models M10-GM10 Steam Traps

For process and space heating services

Designed to handle the varying loads of process applications and provide fast start-up and modulating discharge with no live steam loss on services with up to 120 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 —** leads to longer service life since materials are highly resistant to fatigue and corrosion.
- **Integral strainer and check valve —** strainer protects trap from dirt while 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_2 venting —** maximizes heat transfer while minimizing corrosion.
- **Fast start-up capabilities —** due to high cold discharge capacities.

BESTOBELL STEAM
Steam Traps and Steam Specialties

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Bestobell Models M10-GM10 Steam Traps

Specifications

Maximum Differential Pressure: 120 psig (8,3 bar)

Maximum Body Pressure: 750 psig (52 bar)

Maximum Body Temperature: 650°F (343°C)

Line Sizes:
- Model M10: 3/8", 1/2", 3/4"
- Model GM10: 1/2", 3/4", 1", 1-1/2", 2"

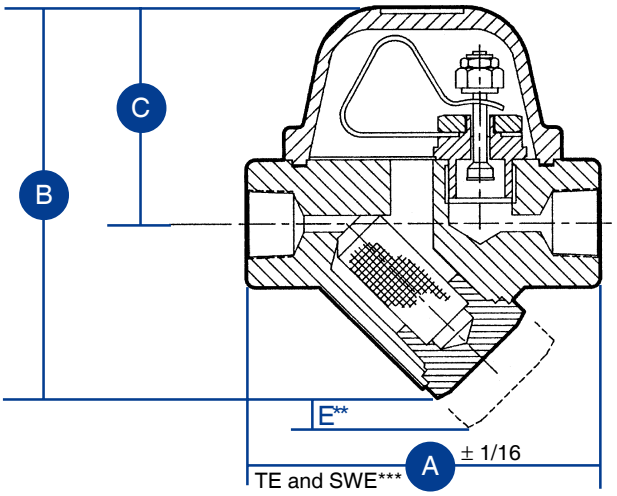
End Connections: threaded (NPT), BSPT, BSPP, socket weld, raised face flanges (ANSI 150, 300, or DIN)

Materials:
- Body & Cover: forged Carbon Steel
- Valve Seat & Cone: Stainless Steel
- Bimetal: Stainless Steel
- Strainer: Stainless Steel
- Nuts & Bolts: 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



Model M10						
3/8 - 3/4"	A	B	C	D	E	WT.
Inches	4	5	3-1/4	3-1/8	2-1/4	5.5 lbs
mm	102	127	83	79	57	2.5 kg
Model GM10						
1/2 - 3/4"	A	B	C	D	E	WT.
Inches	4	5	3-1/4	3-1/8	2-1/4	5.5 lbs
mm	102	127	83	79	57	2.5 kg
1"	A	B	C	D	E	WT.
Inches	5	6-3/4	3-5/8	4	3-1/4	9.9 lbs
mm	127	171	92	102	83	4.5 kg
1-1/2, 2"	A	B	C	D	E	WT.
Inches	7-1/8	9-1/2	5-7/8	6	4-3/8	33#
mm	181	241	149	152	111	15 kg

Notes: dimension D is overall width; **dimension E is withdrawal distance for strainer; *** dimensions shown are for threaded or socket weld ends; for flanged ends, contact factory for dimensions.

Capacity Charts: Condensate Capacity at Differential Pressure

Model M10		Consider Model 3A			Consider Model 6A								
Size	Differential Pressure, psi (bar)	10 (0,69)	20 (1,38)	30 (2,07)	40 (2,76)	50 (3,45)	60 (4,14)	70 (4,83)	80 (5,52)	90 (6,21)	100 (6,90)	110 (7,59)	120 (8,28)
3/8", 1/2", 3/4"	Cold start-up, lbs/hr	1000	1700	2100	2700	3000	3200	3500	3800	4000	4100	4200	4300
	Hot running load, lbs/hr	300	350	400	400	400	400	400	400	400	400	400	400
	Cold start-up, Kg/hr	453	771	952	1224	1361	1451	1587	1723	1814	1859	1905	1950
	Hot running load, Kg/hr	136	158	181	181	181	181	181	181	181	181	181	181

Model GM10		Consider Model GM3 or GM6 in this range.					
Size	Differential Pressure, psi (bar)	20 (1,38)	40 (2,76)	60 (4,14)	80 (5,52)	100 (6,89)	120 (8,27)
3/8", 1/2", 3/4"	Cold start-up, lbs/hr	2800	3800	4600	5400	6000	6600
	*Hot (Process), lbs/hr	460	550	630	700	750	780
	Cold start-up, Kg/hr	1270	1723	2086	2449	2721	2993
	*Hot (Process), Kg/hr	208	249	285	317	340	353
1"	Cold start-up, lbs/hr	5600	7600	9300	10600	11700	12500
	Hot (Process), lbs/hr	810	1070	1280	1470	1630	1750
	Cold start-up, Kg/hr	2540	3447	4218	4808	5307	5670
	Hot (Process), Kg/hr	367	485	580	666	739	793
1-1/2" & 2"	Cold start-up, lbs/hr	13000	18000	22500	26000	29000	32000
	Hot (Process), lbs/hr	1350	1750	2100	2400	2600	2800
	Cold start-up, Kg/hr	5896	8164	10206	11793	13154	14515
	Hot (Process), Kg/hr	612	793	952	1088	1179	1270

* For smaller capacity loads in this size range, consider Bestobell Model M10.

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.