Models M16-GM16 Steam Traps

For process and space heating services

A series of steam traps incorporating integral check valves and Y-type strainers for energy efficient operation on services up to 200 psi. Designed to handle the varying loads of process applications and provide fast start-up and modulating discharge with no live steam loss.

- **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.

BESTOBELL STEAM
Steam Traps and Steam Specialties

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Bestobell Models M16-GM16 Steam Traps

Specifications

Maximum Differential Pressure: 200 psig (13,8 bar)

Maximum Body Pressure: 750 psig (52 bar)

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

Line Sizes:
- Model M16: 1/2”, 3/4”, 1”, 1-1/2”, 2”
- Model GM16: 1/2”, 3/4”

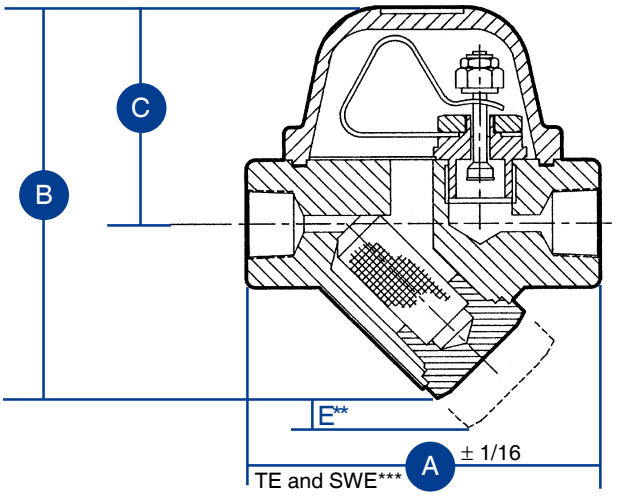
End Connections: threaded NPT, BSPT, BSPP, SW, raised face flanges (ANSI 150, 300, 600, DIN)

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 M16						
1/2 - 3/4"	A	B	C	D	E	WT.
Inches	4	6	3-5/8	4	2-5/8	8.4 lbs
mm	102	152	92	102	67	3.8 kg
1"	A	B	C	D	E	WT.
Inches	5	6-3/4	3-5/8	4	3-1/2	9.9 lbs
mm	127	171	92	102	89	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
Model GM16						
1/2", 3/4"	A	B	C	D	E	WT.
Inches	4	6	3-5/8	4	2-5/8	8.4 lbs
mm	102	152	92	102	67	3.8 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 M16	Consider "10" Series traps in this range.				
Size	Differential Pressure, psi (bar)	50 (3,45)	100 (6,90)	150 (10,34)	200 (13,79)
1/2", 3/4"	Cold start-up, lbs/hr	3600	5000	6000	6300
	Hot (Dripleg), lbs/hr	150	180	200	200
	Cold start-up, Kg/hr	1632	2268	2721	2857
	Hot (Dripleg), Kg/hr	68,0	81,6	90,7	90,7
1"	Cold start-up, lbs/hr	6000	8000	9000	10000
	Hot (Process), lbs/hr	1200	1500	1700	1800
	Cold start-up, Kg/hr	2721	3628	4082	4536
	Hot (Process), Kg/hr	544	680	771	816
1-1/2" & 2"	Cold start-up, lbs/hr	12000	18000	23000	30000
	Hot (Process), lbs/hr	1700	2200	2800	3300
	Cold start-up, Kg/hr	5443	8164	10432	13608
	Hot (Process), Kg/hr	771	997	1270	1496

Model GM16	Consider GM10 in this pressure range.				
Size	Differential Pressure, psi (bar)	50 (3,45)	100 (6,90)	150 (10,34)	200 (13,79)
1/2", 3/4"	Cold start-up, lbs/hr	6000	8000	9000	10000
	Hot Running Load, lbs/hr	700	950	1200	1400
	Cold start-up, Kg/hr	2721	3628	4082	4536
	Hot Running Load, Kg/hr	317	430	544	635

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.