

## Models 6A/GM6 Steam Traps

For process and space heating applications

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**Bestobell's 6A/GM6 steam traps are designed for low condensate capacity needs, yet incorporate a forged steel body and "Y" type strainer. The 6A/GM6 traps accommodate the larger varying loads and pressures typical of process and heating applications with differential pressures up to 70 psi (4,8 bar).**

- **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.
- **No loss of live steam** — utilizes thermostatic and thermodynamic forces for steam-tight shutoff for greater energy efficiency and extended seat life.

# Bestobell Models 6A - GM6 Steam Traps

## Specifications

**Maximum Differential Pressure:** 70 psi (4,8 bar)

**Maximum Body Pressure:** 750 psig (52 bar)

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

### Line Sizes:

- Model 6A: 3/8", 1/2" & 3/4" (10, 15, 20 mm)
- Model GM6: 1/2", 3/4", 1", 1-1/4", 1-1/2" (15, 20, 25, 32, 40 mm). See separate literature on 2" GM3/GM6.

**End Connections:** threaded (NPT), BSPT, BSPP, socket weld, ANSI 150/300 raised face flanged; BS, DIN and JIS flanged

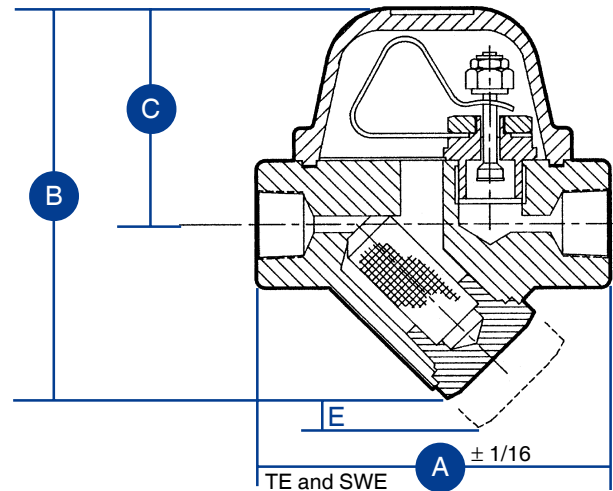
### Materials:

- 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 (DTSC) 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 6A						
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
Model GM6						
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
1-1/4" & 1-1/2"	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.

## Capacity Charts: Condensate Capacity at Differential Pressure

Model 6A		For smaller loads, consider Model DM6						
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)
3/8", 1/2", 3/4"	Cold Start-Up, lbs/hr	1200	1900	2500	2900	3300	3800	4000
	Hot, lbs/hr	130	160	190	200	210	220	230
	Cold Start-Up, Kg/hr	544	861	1134	1315	1496	1723	1814
	Hot, Kg/hr	58	72	86	90	95	99	104
Model GM6		Consider GM3 in this range						
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)
1/2" & 3/4"	Cold Start-Up, lbs/hr	1800	3000	3800	4650	5200	5800	6200
	Hot, lbs/hr	580	700	760	820	860	880	900
	Cold Start-Up, Kg/hr	816	1360	1723	2109	2358	2630	2812
	Hot, Kg/hr	263	317	344	371	390	399	408
1"	Cold Start-Up, lbs/hr	3500	6400	8100	8900	9400	9600	9800
	Hot, lbs/hr	1100	1340	1520	1590	1650	1700	1750
	Cold Start-Up, Kg/hr	1587	2903	3674	4037	4263	4354	4445
	Hot, lbs/hr	498	607	689	721	748	771	793
1-1/4" & 1-1/2"	Cold Start-Up, lbs/hr	8000	14000	18000	21000	23000	25000	26000
	Hot, lbs/hr	3100	3350	3550	3700	3800	3850	3900
	Cold Start-Up, Kg/hr	3628	6350	8164	9525	10432	11340	11793
	Hot, lbs/hr	1406	1519	1610	1678	1723	1746	1769

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.