

Models 3A/GM3 Steam Traps

For process and space heating applications



Designed for fast start-up and modulating discharge with no live steam loss on services up to 30 psig. Ideal where a forged body with “Y” type strainer is required to handle light condensate loads including low pressure dripleg.

- **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 3A - GM3 Steam Traps

Specifications

Maximum Differential Pressure: 30 psi (2,07 bar)

Maximum Body Pressure: 750 psig (52 bar)

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

Line Sizes:

- Model 3A: 3/8", 1/2" & 3/4" (10, 15, 20 mm)
- Model GM3: 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 raised face flanged; BS, DIN and JIS flanged

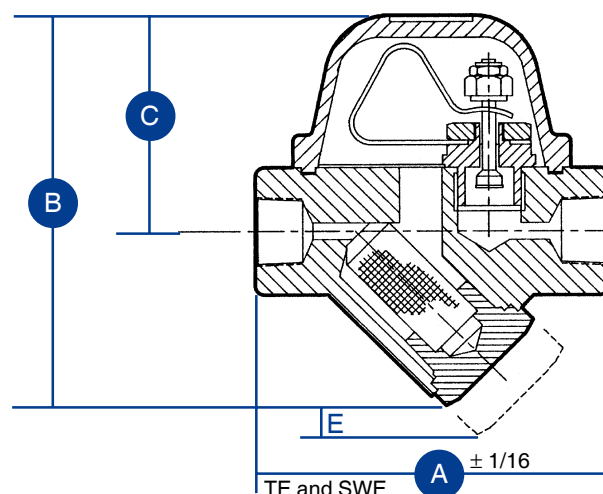
Materials:

- 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 3A						
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 GM3						
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 3A		For smaller loads, consider Model DM6						
Size	Differential Pressure, psi (bar)	2 (0,14)	5 (0,34)	10 (0,69)	15 (1,03)	20 (1,38)	25 (1,72)	30 (2,07)
3/8", 1/2", 3/4"	Cold Start-Up, lbs/hr	500	1000	1800	2200	2600	2900	3000
	Hot, lbs/hr	175	200	200	200	200	200	200
	Cold Start-Up, Kg/hr	226	453	816	997	1179	1315	1360
	Hot, Kg/hr	79	90	90	90	90	90	90
Model GM3		* For smaller loads in this range, consider Model 3A						
Size	Differential Pressure, psi (bar)	2 (0,14)	5 (0,34)	10 (0,69)	15 (1,03)	20 (1,38)	25 (1,72)	30 (2,07)
1/2" & 3/4"	Cold Start-Up, lbs/hr	1000	1700	2100	2500	2900	3000	3200
	Hot, lbs/hr	500	700	750	750	750	750	750
	Cold Start-Up, Kg/hr	453	771	952	1134	1315	1360	1451
	Hot, Kg/hr	226	317	340	340	340	340	340
1"	Cold Start-Up, lbs/hr	1800	3200	5100	6900	8000	8900	9000
	Hot, lbs/hr	700	950	1300	1600	1700	1800	2000
	Cold Start-Up, Kg/hr	816	1451	2313	3129	3628	4037	4082
	Hot, lbs/hr	317	430	589	725	771	816	907
1-1/4" & 1-1/2"	Cold Start-Up, lbs/hr	4000	7000	10000	13000	16000	18000	20000
	Hot, lbs/hr	2400	2800	3200	3700	3900	4000	4100
	Cold Start-Up, Kg/hr	1814	3175	4536	5896	7257	8164	9072
	Hot, lbs/hr	1088	1270	1451	1678	1723	1814	1859

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.