

Delta Element Steam Traps

Models

6A

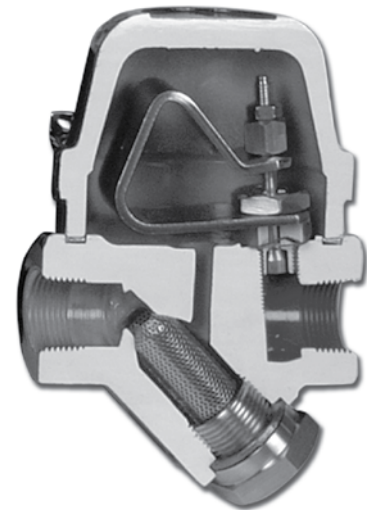
GM6

CRN: Canadian Registration Number Available

FOR PROCESS AND HEATING SYSTEMS

A series of steam traps designed for low condensate capacity needs, yet incorporate a forged carbon steel body and "Y" type strainer. The 6A/GM6 utilizes thermostatic and thermodynamic forces for steam-tight shutoff for greater energy efficiency and extended seat life, with no live steam loss.

- **Maximum operating differential pressure:** 70 psig / 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** – leads to longer service life since materials are highly resistant to fatigue and corrosion
- **Modulating discharge** – automatically adjusts to operating pressure and load, overcoming problems associated with cyclic discharge
- **Integral strainer and check valve** – strainer protects trap from dirt while check valve prevents backflow during shutdown
- **Continuous air and CO2 venting** – maximizes heat transfer while minimizing corrosion



ORDERING SCHEMATIC

MODEL				6	7	8	
M	0	0	6	A	1	1	0

MODEL				6	7	8	
G	M	0	0	6	4	1	0

6	SIZE
1	3/8" (6A)
2	1/2" (All)
3	3/4" (All)
4	1" (GM6)
5	1-1/4" (GM6)
6	1-1/2" (GM6)

7	CONNECTIONS
1	NPT
2	FSW
3	150# Flange
4	300# Flange
8	BSPT
9	BSPP

8	SPECIALITIES
0	None
1	DTC
3	Integral Blowdown



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FOR PROCESS AND HEATING SYSTEMS
SPECIFICATIONS

Maximum Differential Pressure: 70 PSIG (4,8 bar)

Maximum Operating Pressure: 750 PSIG (52 bar)

Maximum Body Temperature: 750°F (399°C)

MATERIALS

Body & Cover: Forged Carbon Steel

Valve Seat & Cone: Stainless Steel

Bi-Metal: Stainless Steel

Strainer: Stainless Steel

Bolts: Steel

Gasket: Flexible Graphite

Options: Double Threaded Strainer Cap (DTC) for blowdown valve attachment; selection of integral blowdown valves

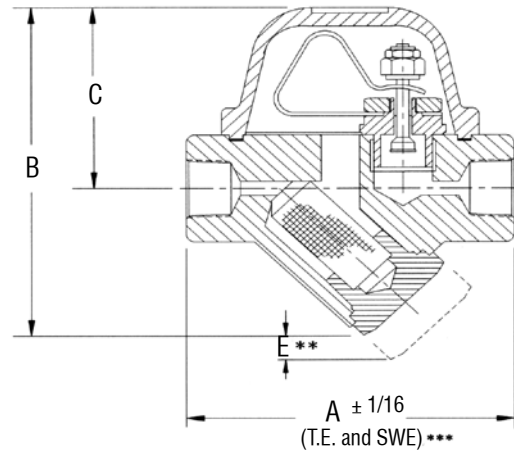
Mounting: From horizontal to vertical (see Installation & Maintenance Instructions). Self-Draining and freeze-resistant when mounted in vertical position.

Line Sizes:

Model 6A: 1/2", 3/4", 1", 1-1/2"

Model GM6: 3/8", 1/2", 3/4"

End Connections: Threaded NPT, BSPT, BSPP, SW, Raised Face Flanges (ANSI 150, 300, 600, DIN)



Model 6A						
1/2"-3/4"	A	B	C	D	E	Wt
inches	4	6	3.625	4	2.625	8.4 lbs
mm	102	152	92	102	67	3.8 kgs
1"	A	B	C	D	E	Wt
inches	5	6.75	3.625	4	3.50	9.9 lbs
mm	127	171	92	102	89	4.5 kgs
1-1/4", 1-1/2"	A	B	C	D	E	Wt
inches	7.125	9.50	5.875	6	4.375	33 lbs
mm	181	241	149	152	67	15 kgs
Model GM6						
3/8", 1/2", 3/4"	A	B	C	D	E	Wt
inches	4	5	3.25	3.125	2.25	5.5 lbs
mm	102	127	83	80	57	2.5 kgs

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

CAPACITY CHARTS: CONDENSATE CAPACITY AT DIFFERENTIAL PRESSURE

Model GM6		For smaller loads to 30 psid, consider Model 3A						
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"	Cold start-up, lbs/hr	1800	3000	3800	4650	5200	5800	6200
	Hot (Dripleg), lbs/hr	580	700	760	820	860	880	900
3/4"	Cold start-up, Kg/hr	813	1360	1723	2109	2358	2630	2812
	Hot (Dripleg), Kg/hr	263	317	344	371	390	399	408
1"	Cold start-up, lbs/hr	3500	6400	8100	8900	9400	9600	9800
	Hot (Dripleg), lbs/hr	1100	1340	1520	1590	1650	1700	1750
	Cold start-up, Kg/hr	1587	2903	3674	4037	4263	4354	4445
	Hot (Dripleg), Kg/hr	498	607	689	721	748	771	793
1-1/2" & 2"	Cold start-up, lbs/hr	8000	14000	18000	21000	23000	25000	26000
	Hot (Dripleg), lbs/hr	3100	3350	3550	3700	3800	3850	3900
	Cold start-up, Kg/hr	3628	6350	8164	9525	10432	11340	11793
	Hot (Dripleg), Kg/hr	1406	1519	1610	1678	1723	1746	1769
Model 6A		Consider "GM10" Series traps 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)
3/8"	Cold start-up, lbs/hr	1200	1900	2500	2900	3300	3800	4000
	Hot (Dripleg), lbs/hr	130	160	190	200	210	220	230
1/2"	Cold start-up, Kg/hr	544	861	1134	1315	1496	1723	1814
	Hot (Dripleg), Kg/hr	58	72	86	90	95	99	104

Note: Flow rates are based on discharge to atmospheric pressure, valid for back pressure up to 20% of inlet pressure. Higher back pressure requires reset of control element to obtain these capacities. Consult factory for details.