

For Steam Heating Applications

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Series G, GH, MG, MGH

Thermostatic Radiator Steam Traps

Sizes ½" – 1" (15 – 25mm)

For operating pressures up to 65psi (4.5 bars)

Series G, GH, MG, MGH Thermostatic Radiator Steam Traps are designed to remove condensate, air and non-condensable gases from heating systems, while still sensitive enough to close tightly in the presence of steam. The balanced pressure duplex phosphor bronze diaphragm is a highly sensitive modulating unit thermally programmed to provide accurate steam conserving operation. Available in a choice of various body patterns including angle, straightway, left hand corner, right hand corner, vertical and vertical double union.

Features

- Rugged brass construction with union inlet. Duplex phosphor bronze diaphragm sensitive within 3°F
- Hardened stainless steel valve
- Stainless steel valve seat
- Diaphragm and seat both replaceable
- Uniform operation within pressure range
- Superior operation under highest vacuum
- Each trap factory tested
- Standard patterns in ½", ¾", and 1" (15, 20, 25mm)

Applications

Model G and GH – 25" HG vacuum to 25psi

- Low pressure and vacuum heating
- Convectors
- Unit Ventilators
- Radiators
- Fin pipes
- Drip points
- Air vents

Model MG and MGH – 25" HG vacuum to 65psi

- Medium pressure heating equipment
- Process equipment
- Sterilizers
- Autoclaves
- Tracer lines
- Cooking equipment

Specifications

The thermostatic/radiator steam trap shall be installed as indicated on the plans. The steam trap shall have a operating pressure of up to 65psi. The trap body shall be manufactured out of rugged brass, the diaphragm shall be of duplex phosphor bronze type with hardened stainless steel valve, the seat shall be stainless steel. The steam trap shall be a Watts Regulator Company Series G, GH, MG, MGH.



1GAP

Operation

The Series G, GH, MG, MGH's Balanced Pressure-Duplex Phosphor Diaphragm is a highly sensitive modulation unit thermally programmed to provide accurate steam conserving operation at all pressure temperature points within its range of operation.

A special liquid, hermetically vacuum-sealed, is employed in a unique duplex design. The volatile characteristics of this liquid, with a lower boiling point than that of water, create a higher internal pressure for a given steam temperature. This pressure/temperature relationship causes the duplex diaphragm to expand uniformly, closing the orifice opening in a replaceable stainless steel seat with a self-centering corrosion-resistant and hardened stainless steel diaphragm valve. In the presence of lower temperature condensate and/or non-condensate gases, the stainless steel valve is withdrawn by the internal condensing of the duplex diaphragm liquid, allowing full discharge of any condensate of noncondensables. The diaphragm quickly recycles closed in the presence of steam.

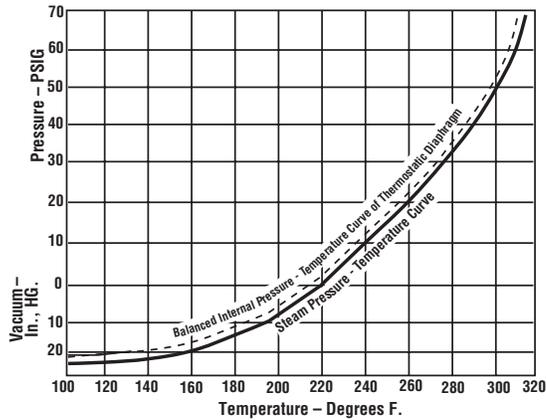
WATTS®
REGULATOR

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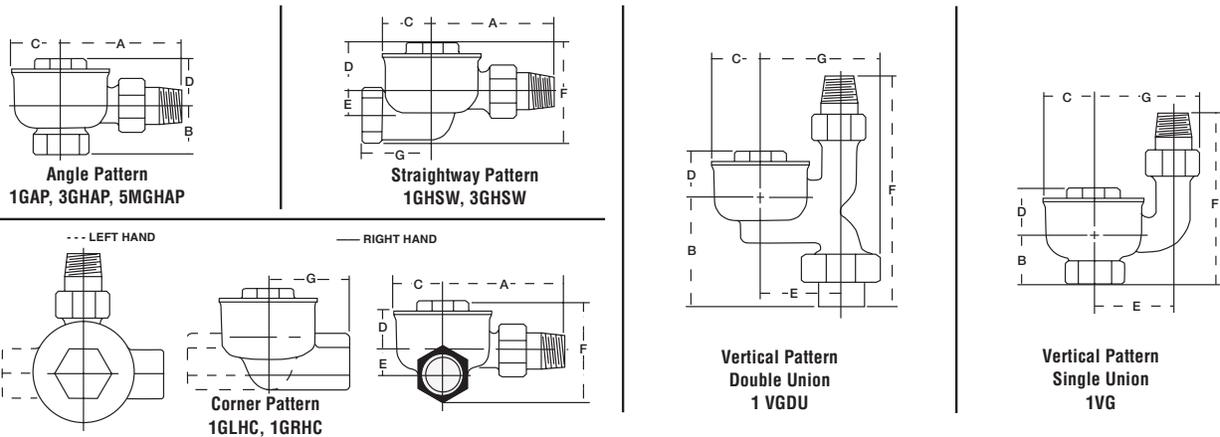
Maximum Trap Capacities - Pounds condensate per hour, MBH, and square feet EDR

Model	Tapping (NPT)	Pressure Differential (psi)	¼	½	1	1½	2	5	10	15	25	50	65
1G 1 MG	½"	Lbs. Cond. Per Hour*	21.0	29.7	40.9	49.6	58.4	92.4	133.6	162.5	212.0	309.2	357.3
3GH 3MGH	¾"	Lbs. Cond. Per Hour*	40.8	56.9	81.8	99.3	115.5	182.3	264.7	330.2	436.8	618.4	858.7
5MGH	1"	Lbs. Cond. Per Hour*	71.8	101.5	143.8	173.7	201.2	319.7	463.9	584.0	688.7	789.5	820.0

* Ratings are in accordance with the recommended standards adopted by the Steam Heating Equipment Manufacturers Association. Select trap directly from table for the lowest differential that may exist in the system. Traps may be applied directly and no safety factor need be applied.



Dimensions — Weights



MODEL	PATTERNS	TAPPING		DIMENSIONS										WEIGHT		
		Inlet	Outlet	Male Tailpiece A		B	C	D		E		F	G		lbs.	kgs.
		in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm		
1GAP-1MGAP	Angle	½ 15	½ 15	2⅞ 73	1⅛ 29	1¾ 35	1⅜ 35	1⅜ 35	—	—	—	—	—	—	1.2	.54
1GRHC-1GLHC	Corner	½ 15	½ 15	2⅞ 73	—	1¾ 35	1⅜ 35	⅞ 14	2⅝ 67	1⅝ 41	—	—	—	1.4	.64	
1GSW-1MGSW	Straightway	½ 15	½ 15	2⅞ 73	—	1¾ 35	1⅜ 35	⅞ 14	2⅝ 67	1⅝ 41	—	—	—	1.2	.54	
1VG	Vert. S.U.	½ 15	½ 15	—	1⅛ 29	1¾ 35	1⅜ 35	1⅜ 48	4	102	2⅝ 67	—	—	1.4	.64	
1VGDU	Vert. D.U.	½ 15	½ 15	—	2⅞ 65	1¾ 35	1⅜ 35	1⅜ 48	5⅝ 137	2⅝ 70	—	—	—	1.7	.77	
3GH-3MGH	Angle	¾ 20	¾ 20	3⅞ 79	1⅜ 35	1¾ 35	1⅜ 41	—	—	—	—	—	—	1.5	.68	
3GH-3MGH	Straight	¾ 20	¾ 20	3⅞ 79	—	1¾ 35	1⅜ 40	⅜ 10	2¾ 70	1⅝ 48	—	—	—	1.5	.68	
5MGH	Angle	1 25	1 25	3⅞ 92	1½ 38	1½ 38	1⅞ 43	—	—	—	—	—	—	2.5	1.13	



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