

For Steam Main Drip and Process Applications

Job Name _____
 Job Location _____
 Engineer _____
 Approval _____

Contractor _____
 Approval _____
 Contractor's P.O. No. _____
 Representative _____

Series G, MG

Float & Thermostatic Steam Traps

Sizes: 3/4" – 2" (20 – 50mm)

For operating pressures up to 50psi (3.5 bars)

Series G, MG Float & Thermostatic Steam Traps are designed for use on modulating process equipment and as main distribution line drip traps. Series G, MG Float & Thermostatic steam traps feature a straight through design for fast simple installation. Stainless steel valve head and seats provide long service life.

G, MG series steam traps have excellent air venting capability and discharge condensate at near to steam temperature so the steam space remains free of condensate providing improved steam system efficiency.

Features

- Fail safe — In case of float failure, trap will discharge condensate and air; no unit freeze-up
- Air vent parts — accessible without disturbing piping
- Inlet baffle — breaks up water hammer; prevents damage to parts
- Snap action valve — no wire-drawing or valve chatter
- Two moving parts — no levers, hinges or pins to corrode or jam
- Straight-through connections — saves installation time, labor, space, headroom
- Stainless steel valve head and seats
- Seamless copper float — no seams to develop leaks
- Uniform operations — not affected by changes in load or pressures
- Condensate valve rotates — ensures even wear, longer valve and seat life

Applications

- Steam coils
- Unit heaters
- Drip points
- Heat exchangers
- Water heaters
- Absorption machines
- Unit ventilators
- Air handlers
- Make-up air coils
- Re-heat coils
- Jacketed kettles



Specifications

The float & thermostatic steam trap shall be installed as indicated on the plans. The trap body and cover shall be manufactured out of cast iron, the diaphragm cover shall be forged brass, the diaphragm shall be duplex phosphor bronze type with stainless valve cone, the condensate valve and seats shall be hardened stainless steel and the float shall be manufactured out of seamless copper. The trap shall have straight through pipe connections, the air vent shall be serviced without breaking pipe connections and should be an open float design. The steam trap shall be a Watts Regulator Company Series G, MG, float and thermostatic type.

Models

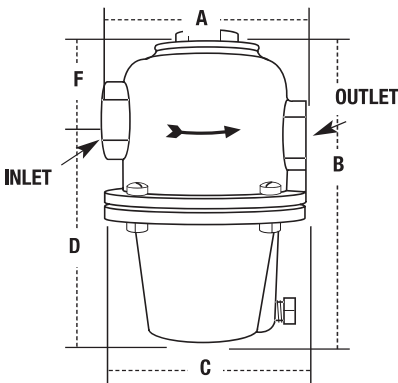
- Model G-15 — 25" Hg to 15psi (1.05 bars)
- Model MG-30 — 25" Hg to 30psi (2.1 bars)
- Model MG-50 — 25" Hg to 50psi (3.5 bars)



Materials:

- Body and Cover: Cast iron (Class 125)
- Diaphragm Cover: Forged brass
- Diaphragm: Duplex phosphor bronze type with stainless steel valve cone
- Condensate Valve: Hardened stainless steel
- Seats: Hardened stainless steel
- Float: Seamless copper
- Finish: Rust preventive enamel

Dimensions — Weights



MODEL	TAPPING (NPT)				DIMENSIONS								WEIGHT	
			A		B		C		D		F			
	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>n.</i>	<i>mm</i>	<i>lbs.</i>	<i>kgs.</i>
6G-15	¾	20	4½	114	6½	165	4½	114	4 ¹⁵ / ₁₆	125	1⅞	48	6	152
7G-15	1	25	5½	140	7½	191	5½	140	5⅝	143	2 ¹ / ₁₆	52	9	229
8G-15	1¼	32	5½	140	8	203	6	152	5½	140	2	51	12	305
91G-15	1½	40	7⅝	194	11¾	298	8 ⁹ / ₁₆	217	9 ¹ / ₁₆	230	2⅜ ₁₆	71	39	991
101G-15	2	50	9 ⁵ / ₁₆	237	13 ¹³ / ₁₆	351	10⅝	263	10 ¹⁵ / ₁₆	278	2⅝	60	59	1499
111G-15	2	50	10⅝	264	15¼	387	11⅝	295	11⅞	302	2¾	70	85	2159
7MG-30	1	25	5½	140	7½	191	5½	140	5⅝	143	2 ¹ / ₁₆	52	9	229
8MG-30	1¼	32	5½	140	8	203	6	152	5½	140	2	51	12	305
91MG-30	1½	40	7⅝	194	11¾	298	8 ⁹ / ₁₆	217	9 ¹ / ₁₆	230	2⅜ ₁₆	71	39	991
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7MG-50	1	25	5½	140	7½	191	5½	140	5⅝	143	2 ¹ / ₁₆	52	9	229
8MG-50	1¼	32	5½	140	8	203	6	152	5½	140	2	51	12	305
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Maximum Trap Capacities

Pounds Condensate Per Hour, MBH, and Square Feet EDR

Size	Model	Valve Seat Orifice Diameter	Pressure Differential Lat. Ht. Value	¼	½	1	2	5	10	15	20	30	50
				969.8	969.3	968	966	961	952	945	939	929	912
¾	6G-15	**Capacities According to Recommended Shema Standards	Lbs. Cond./Hr.	70	100	140	200	210	220	230	The basic capacity ratings are expressed in pounds condensate per hour at various pressure differentials. For ease of trap selection the tables also give the heating value in MBH of the steam condensed. This is arrived at by multiplying the condensate rating by the appropriate Latent Heat Value and dividing by 1,000 to determine MBH. Capacities are also expressed in square feet Equivalent Direct Radiation. This is determined by dividing the heating capacity in BTU/Hr. (MBH x 1,000) by 240 BTU/Hr./Square Foot Equivalent Direct Radiation. Example: Select a trap for a Unit Heater with a heating capacity of 170 MBH operating on a 5 psi line. A 2 to 1 capacity factor is desired. MBH rating for selection purposes = $2 \times 170 = 340$ MBH. Read down 5 psi column and select the smallest trap whose MBH rating exceeds 340 MBH. The 1" 7G has a capacity of 505 MBH, or 525 pounds of condensate per hour on 2,104 square feet Equivalent Direct Radiation. 1" 7G is the correct trap for this application.		
			MBH	68	97	136	193	202	209	217			
			EDR	282	404	566	804	841	870	904			
1	7G-15		Lbs. Cond./Hr.	175	250	350	500	525	550	575			
			MBH	170	242	339	483	505	524	543			
			EDR	708	1008	1413	2012	2104	2183	2263			
1¼	8G-15		Lbs. Cond./Hr.	425	600	850	1200	1260	1320	1280			
			MBH	412	582	823	1159	1211	1257	1304			
			EDR	1717	2423	3428	4830	5045	5236	5434			
1½	91G-15		Lbs. Cond./Hr.	850	1200	1700	2400	2520	2640	2760			
			MBH	824	1163	1646	2318	2422	2513	2608			
			EDR	3435	4847	6857	9660	10091	10472	10868			
2	101G-15		Lbs. Cond./Hr.	1775	2500	3550	5000	5250	5500	5750			
			MBH	1721	2423	3436	4830	5045	5236	5434			
			EDR	7172	10096	14318	20125	21021	21817	22641			
2	111MG-15		Lbs. Cond./Hr.	2200	2900	3920	5200	7600	10100	12000			
			MBH	2133	2811	3795	5023	7304	9615	11340			
1	7MG-30	1/8	Lbs. Cond./Hr.	95	127	170	228	335	445	530	600	700	
			MBH	92	123	165	220	322	424	501	563	650	
1¼	8MG-30	5/32	Lbs. Cond./Hr.	156	210	280	375	550	740	870	980	1160	
			MBH	151	204	271	362	529	704	822	920	1078	
1½	91MG-30	19/64	Lbs. Cond./Hr.	525	700	940	1250	1850	2450	2930	3300	3900	
			MBH	509	679	910	1208	1778	2332	2769	3099	3623	
2	101MG-30	11/32	Lbs. Cond./Hr.	670	890	1180	1580	2340	3120	3700	4150	4900	
			MBH	650	863	1142	1526	2249	2970	3497	3897	4552	
2	111MG-30	15/32	Lbs. Cond./Hr.	1300	1750	2340	3120	4600	6100	7200	8200	9700	
			MBH	1261	1696	2265	3014	4421	5807	6804	7700	9011	
¾	6MG-50	3/32	Lbs. Cond./Hr.	52	69	92	122	180	240	285	320	380	470
			MBH	50	67	89	118	173	228	269	300	353	429
1	7MG-50	7/64	Lbs. Cond./Hr.	81	108	143	190	280	375	440	500	590	730
			MBH	79	105	138	184	269	357	416	470	548	666
1¼	8MG-50	1/8	Lbs. Cond./Hr.	102	138	182	245	355	475	565	630	750	920
			MBH	99	134	176	237	341	452	534	591	697	839
1½	91MG-50	15/64	Lbs. Cond./Hr.	360	480	640	860	1260	1680	2000	2250	2670	3300
			MBH	349	465	620	831	1211	1599	1890	2113	2480	3010
2	101MG-50	9/32	Lbs. Cond./Hr.	460	610	820	1100	1600	2140	2520	2841	3350	4150
			MBH	446	591	794	1063	1538	2037	2381	2667	3112	3785
2	111MG-50	21/64	Lbs. Cond./Hr.	630	850	1140	1520	2220	2950	3500	3950	4700	5800
			MBH	611	824	1104	1468	2133	2808	3308	3709	4366	5290

Note: The condensate capacities for GF or MGF traps are the same as shown for G or MG float and thermostatic traps and selection should be made in the same manner.

**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.

For Technical Assistance Call Your Authorized Watts Agent.

			Telephone #	Fax #
	HEADQUARTERS: Watts Regulator Company	815 Chestnut St., North Andover, MA 01845-6098 U.S.A.	978 688-1811	978 794-1848
North East	Edwards, Platt & Deely, Inc.	271 Royal Ave., Hawthorne, NJ 07506	973 427-2898	973 427-4246
	Edwards, Platt & Deely, Inc.	368 Wyandanch Ave., North Babylon, NY 11703	631 253-0600	631 253-0303
	W. P. Haney Co., Inc.	51 Norfolk Ave., South Easton, MA 02375	508 238-2030	508 238-8353
Mid Atlantic	J. B. O'Connor Company, Inc.	P.O. Box 12927, Pittsburgh, PA 15241	724 745-5300	724 745-7420
	RMI	Glenfield Bus. Ctr., 2535 Mechanicsville Tpk., Richmond, VA 23223	804 643-7355	804 643-7380
	The Joyce Agency, Inc.	8442 Alban Rd., Springfield, VA 22150	703 866-3111	703 866-2332
	Vernon Bitzer Associates, Inc.	980 Thomas Drive, Warminster, PA 18974	215 443-7500	215 443-7573
	WMS Sales, Inc. (Main office)	9580 County Rd., Clarence Center, NY 14032	716 741-9575	716 741-4810
South East	Billingsley & Associates, Inc.	2728 Crestview Ave., Kenner, LA 70062-4829	504 602-8100	504 602-8106
	Billingsley & Associates, Inc.	478 Cheyenne Lane, Madison, MS 39110	601 856-7565	601 856-8390
	Francisco J. Ortiz & Co., Inc.	Charlyn Industrial Pk., Road 190 KM1.9 - Lot #8, Carolina, Puerto Rico 00983	787 769-0085	787 750-5120
	Mid-America Marketing, Inc.	203 Industrial Drive, Birmingham, AL 35211	205 879-3469	205 870-5027
	Mid-America Marketing, Inc.	1364 Foster Avenue, Nashville, TN 37210	615 259-9944	615 259-5111
	Mid-America Marketing, Inc.	5466 Old Hwy. 78, Memphis, TN 38118	901 795-0045	901 795-0394
	Smith & Stevenson Co., Inc.	4935 Chastain Ave., Charlotte, NC 28217	704 525-3388	704 525-6749
	Target Marketing Enterprises, Inc.	118 West Grant St., Building M, Orlando, FL 32806	407 245-7838	407 245-7833
	Watts	2861-B Bankers Industrial Drive, Atlanta, GA 30360	770 209-3310	770 447-4583
North Central	Aspinall Associates, Inc.	6840 Hillsdale Court, Indianapolis, IN 46250	317 849-5757	317 845-7967
	Dave Watson Associates	1325 West Beecher, Adrian, MI 49221	517 263-8988	517 263-2328
	Disney McLane & Associates	428 McGregor Ave., Cincinnati, OH 45206	800 542-1682	877 476-1682
	BWA Company	17610 S. Waterloo Rd., Cleveland, OH 44119	216 486-1010	216 486-2860
	Mid-Continent Marketing Services Ltd.	1724 Armitage Ct., Addison, IL 60101	630 953-1211	630 953-1067
	Soderholm & Associates, Inc.	7150 143rd Ave. N.W., Anoka, MN 55303	763 427-9635	763 427-5665
	Stickler & Associates	333 North 121 St., Milwaukee, WI 53226	414 771-0400	414 771-3607
South Central	Hugh M. Cunningham, Inc.	13755 Benchmark, Dallas, TX 75234	972 888-3808	972 888-3838
	Mack McClain & Associates	11132 South Towne Square, Suite 202, St. Louis, MO 63123	314 894-8188	314 894-8388
	Mack McClain & Associates, Inc.	1450 NE 69th Place, Ste. 56 Ankeny, IA 50021	515 288-0184	515 288-5049
	Mack McClain & Associates, Inc.	15090 West 116th St., Olathe, KS 66062	913 339-6677	913 339-9518
	OK! Sales, Inc.	2200 Blue Creek Dr., Norman, OK 73026	405 360-6161	405 360-0092
	Phoenix Marketing, Ltd.	2416 Candelaria N.E., Albuquerque, NM 87107	505 883-7100	505 883-7101
Western	Delco Sales, Inc.	1930 Raymer Ave., Fullerton, CA 92833	714 888-2444	714 888-2448
	Delco Sales, Inc.	111 Sand Island Access Rd., Unit I-10, Honolulu, HI 96819	808 842-7900	808 842-9625
	Fanning & Associates, Inc.	6765 Franklin St., Denver, CO 80229-7111	303 289-4191	303 286-9069
	Hollabaugh Brothers & Associates	6915 South 194th St., Kent, WA 98032	253 867-5040	253 867-5055
	Hollabaugh Brothers & Associates	3028 S.E. 17th Ave., Portland, OR 97202	503 238-0313	503 235-2824
	P I R Sales, Inc.	3050 North San Marcos Place, Chandler, AZ 85225	480 892-6000	480 892-6096
	Preferred Sales	31177 Wiegman Road, Hayward, CA 94544	510 487-9755	510 476-1595
	R. E. Fitzpatrick Sales, Inc.	4109 West Nike Dr. (8250 South), West Jordan, UT 84088	801 282-0700	801 282-0600
Canada	Watts Industries (Canada) Inc.	5435 North Service Road, Burlington, Ontario L7L 5H7	905 332-4090	905 332-7068
	(Watts Regulator Co. Division)			
	Con-Cur West Marketing, Inc.	#109-42 Fawcett Rd., Coquitlam, British Columbia V3K 6X9	604 540-5088	604 540-5084
	D.C. Sales, Ltd.	10-6130 4th St. S.E., Calgary, Alberta T2H 2A6	403 253-6808	403 259-8331
	D.C. Sales, Ltd.	11420 142 Street, Edmonton, Alberta T5M 1V1	780 496-9495	780 496-9621
	GTA Sales Team.	Greater Toronto Area	888 208-8927	888 479-2887
	Hydro-Mechanical Sales, Ltd.	3700 Joseph Howe Dr., Ste. 1 Halifax, Nova Scotia B3L 4H7	902 443-2274	902 443-2275
	Hydro-Mechanical Sales, Ltd.	297 Collishaw St., Ste. 7 (shipping) Moncton, New Brunswick E1C 9R2	506 859-1107	506 859-2424
	Hydro-Mechanical Sales, Ltd.	85 Tolt Rd., St. Phillips, Newfoundland A1B 3M7	709 895-0090	709 895-0091
	Le Groupe B.G.T., Inc.	23 du Buisson, Pont Rouge, Quebec G3H 1X9	418 873-2800	418 873-2505
	Le Groupe B.G.T., Inc.	86 des Entreprises #208, Boisbriand, Quebec J7G 2T3	450 434-9010	450 434-9848
	Mar-Win Agencies, Ltd.	1333 Clifton St., Winnipeg, Manitoba R3E 2V1	204 775-8194	204 786-8016
	Northern Mechanical Sales	P.O. Box 280 (mailing) 163 Pine St. (shipping), Garson, Ontario P3L 1S6	705 693-2715	705 693-4394
	Palser Enterprises, Ltd.	1885 Blue Heron Dr., #4, London, Ontario N6H 5L9	519 471-9382	519 471-1049
	RAM Mechanical Marketing	1301 Winnipeg St., Regina, Saskatchewan S4R 1K2	306 525-1986	306 525-0809
	RAM Mechanical Marketing	510 Ave M South, Saskatoon, Saskatchewan S7M 2K9	306 244-6622	306 244-0807
	Walmar Mechanical Sales	24 Gurdwara Rd., Nepean, Ontario K2E 8B5	613 225-9774	613 225-0673
0426	EXPORT Hdqtrs.: Watts Regulator Co.	815 Chestnut St., North Andover, MA 01845-6098 U.S.A.	978 688-1811	978 794-1848



Watts USA website: www.wattsreg.com
Watts Canada website: www.wattscanada.ca

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