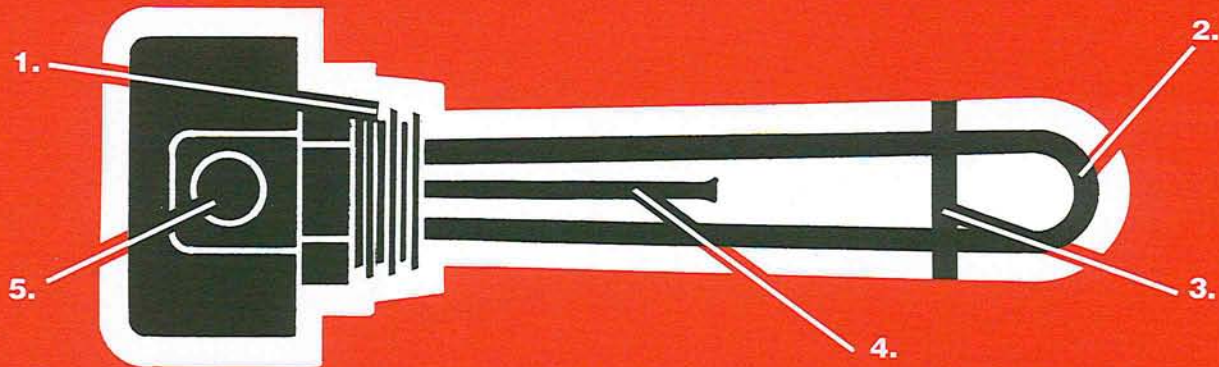


SCREW PLUG IMMERSION HEATERS



1. BRASS STEEL OR STAINLESS PLUGS IN 1", 1 1/4", 2" and 2 1/2" NPT SIZES.
2. INCOLOY SHEATHED ELEMENT STANDARD. STEEL, COPPER AND STAINLESS AVAILABLE.
3. ELEMENT SPACER SUPPORT ON MULTIPLE ELEMENT UNITS OVER 18" INSERT LENGTH.

4. THERMOWELL
5. NEMA 1 TERMINAL HOUSING STANDARD WITH MOISTURE AND EXPLOSION RESISTANT ENCLOSURES AVAILABLE.

FEATURES

- STAINLESS STEEL OR BRASS SCREW PLUG
- 1" TO 2.5" NPT
- HAIRPIN SHAPED INCOLOY ELEMENTS
- 80/20 NICKEL CHROME RESISTANCE WIRES
- HIGH PURITY MAGNESIUM OXIDE FILLERS
- WELDED OR BRAZED CONSTRUCTION
- THERMOSTATS AVAILABLE IN HOUSING
- NEMA 1 HOUSING STANDARD
- NEMA 4/7 HOUSING OPTIONAL

APPLICATIONS

- TANK HEATING OF LIQUIDS
- AIR HEATING
- DIRECT HEATING OF LIQUIDS
- FREEZE PROTECTION

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SCREW PLUG IMMERSION HEATERS

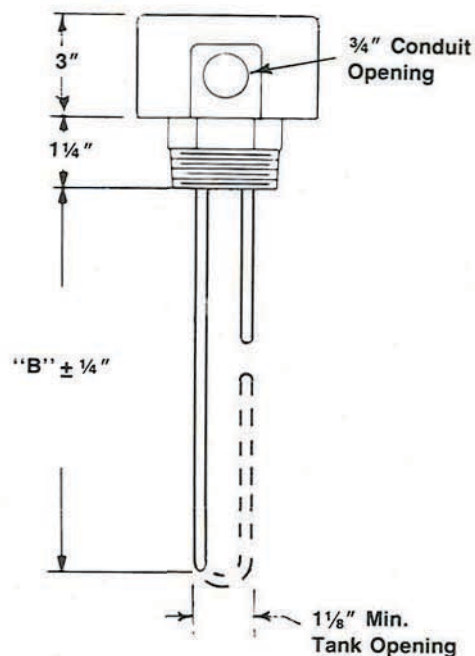
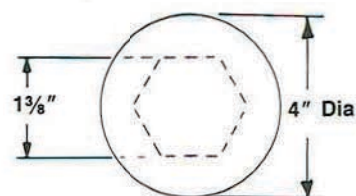
1" NPT (1) .315 dia. element

60-86 WATTS/SQ. INCH
WATER SOLUTIONS

INSERT LENGTH "B"			BRASS PLUG	STAINLESS PLUG	NT. WT. LBS.
	WATTS	VOLTS	MODEL NUMBER	MODEL NUMBER	
6½"	500	120 240	HB1-500-1 HB1-500-2	HU1-500-1 HU1-500-2	1.5
	750	120 240	HB1-750-1 HB1-750-2	HU1-750-1 HU1-750-2	1.5
	1000	120 240	HB1-1000-1 HB1-1000-2	HU1-1000-1 HU1-1000-2	1.5
9¼"	1500	120 240	HB1-1500-1 HB1-1500-2	HU1-1500-1 HU1-1500-2	1.5
12¼"	2000	120 240	HB1-2000-1 HB1-2000-2	HU1-2000-1 HU1-2000-2	2
13¾"	2500	120 240	HB1-2500-1 HB1-2500-2	HU1-2500-1 HU1-2500-2	2
15¾"	3000	120 240	HB1-3000-1 HB1-3000-2	HU1-3000-1 HU1-3000-2	2
16¾"	4000	240	HB1-4000-2	HU1-4000-2	2

23 WATTS/SQ. INCH
OILS, MILD CORROSIVES

INSERT LENGTH "B"			STEEL PLUG	STAINLESS PLUG	NT. WT. LBS.
	WATTS	VOLTS	MODEL NUMBER	MODEL NUMBER	
6½"	250	120 240	MR1-250-1 MR1-250-2	MU1-250-1 MU1-250-2	1.5
9½"	375	120 240	MR1-375-1 MR1-375-2	MU1-375-1 MU1-375-2	1.5
12½"	500	120 240	MR1-500-1 MR1-500-2	MU1-500-1 MU1-500-2	2
13½"	750	120 240	MR1-750-1 MR1-750-2	MU1-750-1 MU1-750-2	2
16¾"	1000	120 240	MR1-1000-1 MR1-1000-2	MU1-1000-1 MU1-1000-2	2
23¾"	1500	120 240	MR1-1500-1 MR1-1500-2	MU1-1500-1 MU1-1500-2	2.5



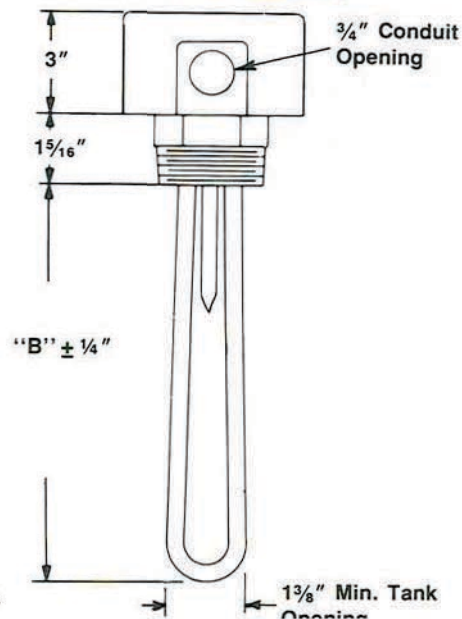
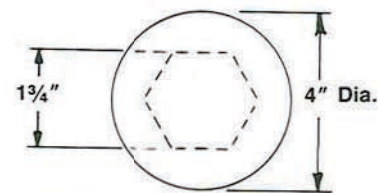
1¼" NPT (2) .315 dia. elements

60-86 WATTS/SQ. INCH
WATER SOLUTIONS

INSERT LENGTH "B"			BRASS PLUG	STAINLESS PLUG	NT. WT. LBS.
	WATTS	VOLTS	MODEL NUMBER	MODEL NUMBER	
6½"	500	120/240	HD2-500-1/2	HQ2-500-1/2	4
	750	120/240	HD2-750-1/2	HQ2-750-1/2	4
	1000	120/240	HD2-1000-1/2	HQ2-1000-1/2	4
	1500	120/240	HD2-1500-1/2	HQ2-1500-1/2	4
	2000	120/240	HD2-2000-1/2	HQ2-2000-1/2	4
8½"	2500	120/240	HD2-2500-1/2	HQ2-2500-1/2	5
9½"	3000	120/240	HD2-3000-1/2	HQ2-3000-1/2	5
12½"	4000	240	HD2-4000-2	HQ2-4000-2	5
22½"	5000	240	HD2-5000-2	HQ2-5000-2	5
26½"	6000	240	HD2-6000-2	HQ2-6000-2	5

23 WATTS/SQ. INCH
OILS, MILD CORROSIVES

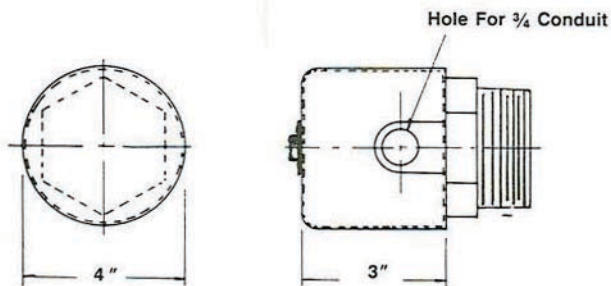
INSERT LENGTH "B"			STEEL PLUG	STAINLESS PLUG	NT. WT. LBS.
	WATTS	VOLTS*	MODEL NUMBER	MODEL NUMBER	
6¼"	500	120/240	MN2-500-1/2	MQ2-500-1/2	4
9¼"	750	120/240	MN2-750-1/2	MQ2-750-1/2	5
12¼"	1000	120/240	MN2-1000-1/2	MQ2-1000-1/2	5
19½"	1500	120/240	MN2-1500-1/2	MQ2-1500-1/2	6
25½"	2000	120/240	MN2-2000-1/2	MQ2-2000-1/2	7
36½"	3000	120/240	MN2-3000-1/2	MQ2-3000-1/2	8



SCREW PLUG IMMERSION HEATERS

OPTIONS FOR 1" & 1 1/4" SCREW PLUGS

NEMA I with Thermostat

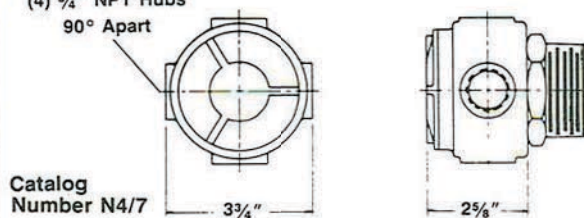


RANGE	THERMOWELL LENGTH	NO. POLES	CATALOG NUMBER
30-110°F	4 1/2"	1	N1T1
60-250°F	4 1/2"	1	N1T2
175-550°F	14"	1	N1T3

NEMA 4/7

Moisture/Explosion Resistant Housing

(4) 3/4" NPT Hubs
90° Apart

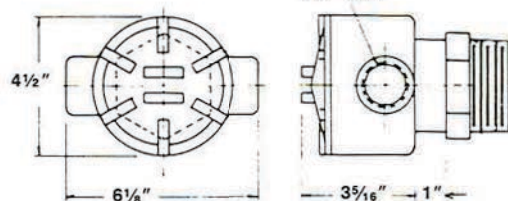


Catalog Number N4/7

NEMA 4/7

Moisture/Explosion Resistant Housing with Thermostat

1 1/4" NPT



RANGE	NO. POLES	CATALOG NUMBER
30-110°F	1	N4/7T1
60-250°F	1	N4/7T2
175-550°F	1	N4/7T3

2" NPT 2 Elements Single Phase

48 WATTS/SQ. INCH
WATER SOLUTIONS

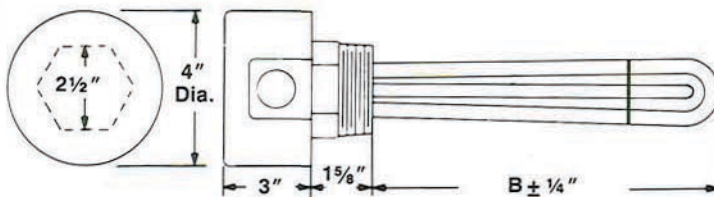
INSERT LENGTH "B"	KW		VOLTS	BRASS PLUG	STAINLESS PLUG	NT. WT. LBS.
				MODEL NUMBER	MODEL NUMBER	
8 1/4"	2	240	480	HC2-2-2	HG2-20-2	7
				HC2-2-4	HG2-20-4	
9 3/4"	2.5	240	480	HC2-25-2	HG2-25-2	7
				HC2-25-4	HG2-25-4	
12 1/4"	3	240	480	HC2-3-2	HG2-30-2	7
				HC2-3-4	HG2-30-4	
17 1/2"	4	240	480	HC2-4-2	HG2-40-2	8
				HC2-4-4	HG2-40-4	
19 1/4"	5	240	480	HC2-5-2	HG2-50-2	8
				HC2-5-4	HG2-50-4	
24 3/4"	6	240	480	HC2-6-2	HG2-60-2	9
				HC2-6-4	HG2-60-4	
32 1/4"	8	240	480	HC2-8-2	HG2-80-2	9
				HC2-8-4	HG2-80-4	
40 1/4"	10	240	480	HC2-10-2	HG2-100-2	11
				HC2-10-4	HG2-100-4	
47 1/2"	12	240	480	HC2-12-2	HG2-120-2	11
				HC2-12-4	HG2-120-4	

23 WATTS/SQ. INCH
OILS, MILD CORROSIVES

STEEL PLUG

STAINLESS PLUG

INSERT LENGTH "B"	KW		VOLTS	STEEL PLUG	STAINLESS PLUG	NT. WT. LBS.
				MODEL NUMBER	MODEL NUMBER	
12"	1.5	240	480	MF2-15-2	MG2-15-2	7
				MF2-15-4	MG2-15-4	
17 1/2"	2	240	480	MF2-2-2	MG2-2-2	8
				MF2-2-4	MG2-2-4	
19 3/4"	2.5	240	480	MF2-25-2	MG2-25-2	8
				MF2-25-4	MG2-25-4	
24 3/4"	3	240	480	MF2-3-2	MG2-3-2	9
				MF2-3-4	MG2-3-4	
32 1/2"	4	240	480	MF2-4-2	MG2-4-2	9
				MF2-4-4	MG2-4-4	
40 1/4"	5	240	480	MF2-5-2	MG2-5-2	11
				MF2-5-4	MG2-5-4	
47 1/2"	6	240	480	MF2-6-2	MG2-6-2	11
				MF2-6-4	MG2-6-4	



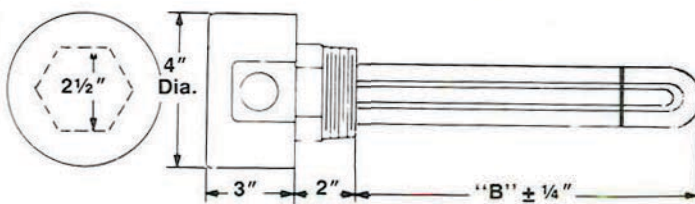
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SCREW PLUG IMMERSION HEATERS

2" NPT 3 Elements Three Phase

48 WATTS/SQ. INCH WATER SOLUTIONS			BRASS PLUG	STAINLESS PLUG	NT. WT. LBS.
INSERT LENGTH "B"	KW	VOLTS	MODEL NUMBER	MODEL NUMBER	
8 1/4"	3	240 480	HC3-3-3 HC3-3-5	HG3-3-3 HG3-3-5	8
9 3/4"	3.75	240 480	HC3-37-3 HC3-37-5	HG3-37-3 HG3-37-5	9
12 1/4"	4.5	240 480	HC3-45-3 HC3-45-5	HG3-45-3 HG3-45-5	9
17 1/2"	6	240 480	HC3-6-3 HC3-6-5	HG3-6-3 HG3-6-5	9
19 1/4"	7.5	240 480	HC3-75-3 HC3-75-5	HG3-75-3 HG3-75-5	10
24 3/4"	9	240 480	HC3-9-3 HC3-9-5	HG3-9-3 HG3-9-5	10
32 1/2"	12	240 480	HC3-12-3 HC3-12-5	HG3-12-3 HG3-12-5	12
40 1/4"	15	240 480	HC3-15-3 HC3-15-5	HG3-15-3 HG3-15-5	13
47 1/2"	18	240 480	HC3-18-3 HC3-18-5	HG3-18-3 HG3-18-5	15
51 1/2"	20	240 480	HC3-20-3 HC3-20-5	HG3-20-3 HG3-20-5	16

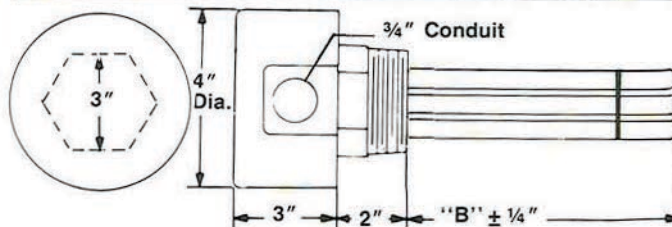
23 WATTS/SQ. INCH OILS, MILD CORROSIVES			STEEL PLUG	STAINLESS PLUG	NT. WT. LBS.
INSERT LENGTH "B"	KW	VOLTS	MODEL NUMBER	MODEL NUMBER	
11 7/8"	2.25	240 480	MF3-22-3 MF3-22-5	MG3-22-3 MG3-22-5	9
17 1/2"	3	240 480	MF3-3-3 MF3-3-5	MG3-3-3 MG3-3-5	9
19 3/4"	3.75	240 480	MF3-37-3 MF3-37-5	MG3-37-3 MG3-37-5	10
24 3/4"	4.5	240 480	MF3-45-3 MF3-45-5	MG3-45-3 MG3-45-5	10
32 1/2"	6	240 480	MF3-6-3 MF3-6-5	MG3-6-3 MG3-6-5	12
40 1/4"	7.5	240 480	MF3-75-3 MF3-75-5	MG3-75-3 MG3-75-5	13
47 1/2"	9	240 480	MF3-9-3 MF3-9-5	MG3-9-3 MG3-9-5	15
51 1/2"	10	240 480	MF3-10-3 MF3-10-5	MG3-10-3 MG3-10-5	16



2 1/2" NPT 3 Elements Three Phase

48 WATTS/SQ. INCH WATER SOLUTIONS			BRASS PLUG	STAINLESS PLUG	NT. WT. LBS.
INSERT LENGTH "B"	KW	VOLTS	MODEL NUMBER	MODEL NUMBER	
8"	3	240 480	HH3-3-3 HH3-3-5	HJ3-3-3 HJ3-3-5	8
9 1/2"	3.75	240 480	HH3-37-3 HH3-37-5	HJ3-37-3 HJ3-37-5	9
12"	4.5	240 480	HH3-45-3 HH3-45-5	HJ3-45-3 HJ3-45-5	9
17"	6	240 480	HH3-6-3 HH3-6-5	HJ3-6-3 HJ3-6-5	9
19"	7.5	240 480	HH3-75-3 HH3-75-5	HJ3-75-3 HJ3-75-5	9
24 1/4"	9	240 480	HH3-9-3 HH3-9-5	HJ3-9-3 HJ3-9-5	10
32"	12	240 480	HH3-12-3 HH3-12-5	HJ3-12-3 HJ3-12-5	12
39 3/4"	15	240 480	HH3-15-3 HH3-15-5	HJ3-15-3 HJ3-15-5	13
47"	18	240 480	HH3-18-3 HH3-18-5	HJ3-18-3 HJ3-18-5	15
51"	20	240 480	HH3-20-3 HH3-20-5	HJ3-20-3 HJ3-20-5	16

23 WATTS/SQ. INCH OILS, MILD CORROSIVES			STEEL PLUG	STAINLESS PLUG	NT. WT. LBS.
INSERT LENGTH "B"	KW	VOLTS	MODEL NUMBER	MODEL NUMBER	
11 3/4"	2.25	240 480	MP3-22-3 MP3-22-5	MJ3-22-3 MJ3-22-5	9
17"	3	240 480	MP3-3-3 MP3-3-5	MJ3-3-3 MJ3-3-5	9
19"	3.75	240 480	MP3-37-3 MP3-37-5	MJ3-37-3 MJ3-37-5	9
24 1/4"	4.5	240 480	MP3-45-3 MP3-45-5	MJ3-45-3 MJ3-45-5	10
32"	6	240 480	MP3-6-3 MP3-6-5	MJ3-6-3 MJ3-6-5	12
39 3/4"	7.5	240 480	MP3-75-3 MP3-75-5	MJ3-75-3 MJ3-75-5	13
47"	9	240 480	MP3-9-3 MP3-9-5	MJ3-9-3 MJ3-9-5	15
51"	10	240 480	MP3-10-3 MP3-10-5	MJ3-10-3 MJ3-10-5	16

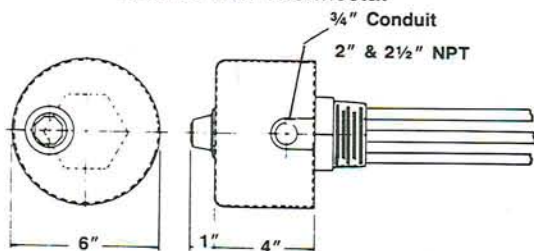


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SCREW PLUG IMMERSION HEATERS

OPTIONS FOR 2" & 2½" SCREW PLUGS

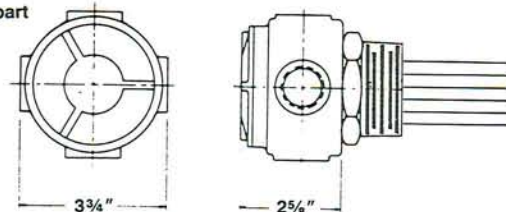
NEMA I with Thermostat



RANGE	NO. POLES	RATING	CAT. NO.
0-100°F	2	25 Amp @ 277V	N1T4
60-250°F	2	25 Amp @ 277V	N1T5
150-550°F	2	25 Amp @ 277V	N1T6

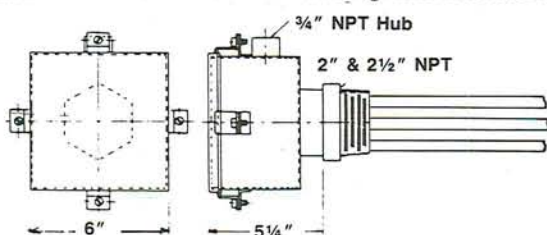
NEMA 4/7 Moisture/Explosion Resistant Housing

(4) ¾" NPT Hubs
90° Apart



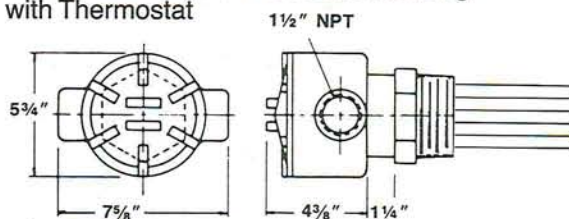
Catalog Number N4/7

NEMA 4 Moisture Resistant Housing with Thermostat



RANGE	NO. POLES	RATING	CAT. NO.
0-100°F	2	25 Amp @ 277V	N4T4
60-250°F	2	25 Amp @ 277V	N4T5
150-550°F	2	25 Amp @ 277V	N4T6

NEMA 4/7 Explosion Resistant Housing with Thermostat



RANGE	NO. POLES	RATING	CAT. NO.
0-100°F	2	25 Amp @ 277V	N7T4
60-250°F	2	25 Amp @ 277V	N7T5
150-550°F	2	25 Amp @ 277V	N7T6

HOW TO ORDER SCREW PLUG IMMERSION HEATERS

1. Order by part number, if known
2. Quantity
3. Screw plug size: Material and pressure rating
4. Kilowatt and voltage
5. Optional features: Terminal housing, thermocouples
6. Control device and temperature range