

STEEL ELEMENT PIPE PLUG IMMERSION HEATERS

- Low Watt Density
- Steel Pipe Plug

For Medium Weight Oil Heating

For medium viscosity oils, gear oils, fuel oil and other materials where low watt density heating is required.

- See Watt Density and Operating Temperature Guideline (23T)
- See Corrosion Resistance of Sheath Materials (24T)

2" NPT—TWO ELEMENTS				FIG. 13			FIG. 14			FIG. 15			FIG. 16	
KILO-WATTS	VOLTS	WATT/SQ. IN.	B IMM. LENGTH	A TOTAL LENGTH	CATALOG NUMBER	C TOTAL LENGTH	CATALOG NUMBER	D TOTAL LENGTH	CATALOG NUMBER	E TOTAL LENGTH	CATALOG NUMBER			
2	240	14	25	29%	KB-2-0174-M1	29 ¹ / ₁₆	KB-2-0174-M7	31%	KB-2T2-0174-M1	33 ¹ / ₁₆	KB-2T2-0174-M7			
2	480	14			KB-2-0175-M1		KB-2-0175-M7		KB-2T2-0175-M1		KB-2T2-0175-M7			
2.66	240	14	33	37%	KB-2-0176-M1	37 ¹ / ₁₆	KB-2-0176-M7	39%	KB-2T2-0176-M1	41 ¹ / ₁₆	KB-2T2-0176-M7			
2.66	480	14			KB-2-0177-M1		KB-2-0177-M7		KB-2T2-0177-M1		KB-2T2-0177-M7			
3.33	240	14	40 ¹ / ₂	45%	KB-2-0178-M1	44 ¹ / ₁₆	KB-2-0178-M7	47%	KB-2T2-0178-M1	48 ¹ / ₁₆	KB-2T2-0178-M7			
3.33	480	14			KB-2-0179-M1		KB-2-0179-M7		KB-2T2-0179-M1		KB-2T2-0179-M7			
4	240	14	48	52%	KB-2-0180-M1	52 ¹ / ₁₆	KB-2-0180-M7	54%	KB-2T2-0180-M1	56 ¹ / ₁₆	KB-2T2-0180-M7			
4	480	14			KB-2-0181-M1		KB-2-0181-M7		KB-2T2-0181-M1		KB-2T2-0181-M7			
5	240	15	57 ¹ / ₂	62%	KB-2-0182-M1	61 ¹ / ₁₆	KB-2-0182-M7	64%	KB-2T2-0182-M1	65 ¹ / ₁₆	KB-2T2-0182-M7			
5	480	15			KB-2-0183-M1		KB-2-0183-M7		KB-2T2-0183-M1		KB-2T2-0183-M7			
6	240	15	68 ¹ / ₂	73%	KB-2-0184-M1	72 ¹ / ₁₆	KB-2-0184-M7	75%	KB-2T2-0184-M1	76 ¹ / ₁₆	KB-2T2-0184-M7			
6	480	15			KB-2-0185-M1		KB-2-0185-M7		KB-2T2-0185-M1		KB-2T2-0185-M7			

2" NPT—THREE ELEMENTS				FIG. 17			FIG. 18			FIG. 19			FIG. 20	
KILO-WATTS	VOLTS	WATT/SQ. IN.	PHASE	B IMM. LENGTH	A TOTAL LENGTH	CATALOG NUMBER	C TOTAL LENGTH	CATALOG NUMBER	D TOTAL LENGTH	CATALOG NUMBER	E TOTAL LENGTH	CATALOG NUMBER		
3	240	14	1	25	29%	KB-3-0214-M1	29 ¹ / ₁₆	KB-3-0214-M7	31%	KB-3T2-0214-M1	33 ¹ / ₁₆	KB-3T2-0214-M7		
		14	3			KB-3-0215-M1		KB-3-0215-M7		KB-3T2-0215-M1		KB-3T2-0215-M7		
3	480	14	1	33	37%	KB-3-0216-M1	37 ¹ / ₁₆	KB-3-0216-M7	39%	KB-3T2-0216-M1	41 ¹ / ₁₆	KB-3T2-0216-M7		
		14	3			KB-3-0217-M1		KB-3-0217-M7		KB-3T2-0217-M1		KB-3T2-0217-M7		
4	240	15	1	40 ¹ / ₂	45%	KB-3-0218-M1	44 ¹ / ₁₆	KB-3-0218-M7	47%	KB-3T2-0218-M1	48 ¹ / ₁₆	KB-3T2-0218-M7		
		15	3			KB-3-0219-M1		KB-3-0219-M7		KB-3T2-0219-M1		KB-3T2-0219-M7		
4	480	15	1	48	52%	KB-3-0220-M1	52 ¹ / ₁₆	KB-3-0220-M7	54%	KB-3T2-0220-M1	56 ¹ / ₁₆	KB-3T2-0220-M7		
		15	3			KB-3-0221-M1		KB-3-0221-M7		KB-3T2-0221-M1		KB-3T2-0221-M7		
5	240	15	1	57 ¹ / ₂	62%	KB-3-0222-M1	61 ¹ / ₁₆	KB-3-0222-M7	64%	KB-3T2-0222-M1	65 ¹ / ₁₆	KB-3T2-0222-M7		
		15	3			KB-3-0223-M1		KB-3-0223-M7		KB-3T2-0223-M1		KB-3T2-0223-M7		
5	480	15	1	68 ¹ / ₂	73%	KB-3-0224-M1	72 ¹ / ₁₆	KB-3-0224-M7	75%	KB-3T2-0224-M1	76 ¹ / ₁₆	KB-3T2-0224-M7		
		15	3			KB-3-0225-M1		KB-3-0225-M7		KB-3T2-0225-M1		KB-3T2-0225-M7		
6	240	14	1	33	37%	KB-3-0226-M1	37 ¹ / ₁₆	KB-3-0226-M7	39%	KB-3T2-0226-M1	41 ¹ / ₁₆	KB-3T2-0226-M7		
		14	3			KB-3-0227-M1		KB-3-0227-M7		KB-3T2-0227-M1		KB-3T2-0227-M7		
6	480	14	1	40 ¹ / ₂	45%	KB-3-0228-M1	44 ¹ / ₁₆	KB-3-0228-M7	47%	KB-3T2-0228-M1	48 ¹ / ₁₆	KB-3T2-0228-M7		
		14	3			KB-3-0229-M1		KB-3-0229-M7		KB-3T2-0229-M1		KB-3T2-0229-M7		
7.5	240	15	1	48	52%	KB-3-0230-M1	52 ¹ / ₁₆	KB-3-0230-M7	54%	KB-3T2-0230-M1*	56 ¹ / ₁₆	KB-3T2-0230-M7*		
		15	3			KB-3-0231-M1		KB-3-0231-M7		KB-3T2-0231-M1		KB-3T2-0231-M7		
7.5	480	15	1	57 ¹ / ₂	62%	KB-3-0232-M1	61 ¹ / ₁₆	KB-3-0232-M7	64%	KB-3T2-0232-M1	65 ¹ / ₁₆	KB-3T2-0232-M7		
		15	3			KB-3-0233-M1		KB-3-0233-M7		KB-3T2-0233-M1		KB-3T2-0233-M7		
9	240	15	1	68 ¹ / ₂	73%	KB-3-0234-M1	72 ¹ / ₁₆	KB-3-0234-M7	75%	KB-3T2-0234-M1*	76 ¹ / ₁₆	KB-3T2-0234-M7*		
		15	3			KB-3-0235-M1		KB-3-0235-M7		KB-3T2-0235-M1		KB-3T2-0235-M7		
9	480	15	1	33	37%	KB-3-0236-M1	37 ¹ / ₁₆	KB-3-0236-M7	39%	KB-3T2-0236-M1	41 ¹ / ₁₆	KB-3T2-0236-M7		
		15	3			KB-3-0237-M1		KB-3-0237-M7		KB-3T2-0237-M1		KB-3T2-0237-M7		

*requires use of external contactor

2 1/2" NPT—THREE ELEMENTS				FIG. 21			FIG. 22			FIG. 23			FIG. 24	
KILO-WATTS	VOLTS	WATT/SQ. IN.	PHASE	B IMM. LENGTH	A TOTAL LENGTH	CATALOG NUMBER	C TOTAL LENGTH	CATALOG NUMBER	D TOTAL LENGTH	CATALOG NUMBER	E TOTAL LENGTH	CATALOG NUMBER		
3	240	14	1	24%	29%	KQ-3-0180-M1	28 ¹ / ₁₆	KQ-3-0180-M7	31%	KQ-3T2-0180-M1	33 ¹ / ₁₆	KQ-3T2-0180-M7		
		14	3			KQ-3-0181-M1		KQ-3-0181-M7		KQ-3T2-0181-M1		KQ-3T2-0181-M7		
3	480	14	1	32 ¹ / ₂	37%	KQ-3-0182-M1	36%	KQ-3-0182-M7	39%	KQ-3T2-0182-M1	40%	KQ-3T2-0182-M7		
		14	3			KQ-3-0183-M1		KQ-3-0183-M7		KQ-3T2-0183-M1		KQ-3T2-0183-M7		
4	240	14	1	40	45%	KQ-3-0184-M1	44 ¹ / ₁₆	KQ-3-0184-M7	48%	KQ-3T2-0184-M1	49%	KQ-3T2-0184-M7		
		14	3			KQ-3-0185-M1		KQ-3-0185-M7		KQ-3T2-0185-M1		KQ-3T2-0185-M7		
4	480	14	1	48	52%	KQ-3-0186-M1	52 ¹ / ₁₆	KQ-3-0186-M7	54%	KQ-3T2-0186-M1	56 ¹ / ₁₆	KQ-3T2-0186-M7		
		14	3			KQ-3-0187-M1		KQ-3-0187-M7		KQ-3T2-0187-M1		KQ-3T2-0187-M7		
5	240	14	1	57 ¹ / ₂	62%	KQ-3-0188-M1	61 ¹ / ₁₆	KQ-3-0188-M7	64%	KQ-3T2-0188-M1	65 ¹ / ₁₆	KQ-3T2-0188-M7		
		14	3			KQ-3-0189-M1		KQ-3-0189-M7		KQ-3T2-0189-M1		KQ-3T2-0189-M7		
5	480	14	1	68 ¹ / ₂	73%	KQ-3-0190-M1	72 ¹ / ₁₆	KQ-3-0190-M7	75%	KQ-3T2-0190-M1	76 ¹ / ₁₆	KQ-3T2-0190-M7		
		14	3			KQ-3-0191-M1		KQ-3-0191-M7		KQ-3T2-0191-M1		KQ-3T2-0191-M7		

STEEL ELEMENTS— low watt density

2½" NPT—THREE ELEMENTS (Ct'd)				FIG. 21		FIG. 22		FIG. 23		FIG. 24		
KILO-WATTS	VOLTS	WATT/SQ. IN.	PHASE	B IMM. LENGTH	A TOTAL LENGTH	CATALOG NUMBER	C TOTAL LENGTH	CATALOG NUMBER	D TOTAL LENGTH	CATALOG NUMBER	E TOTAL LENGTH	CATALOG NUMBER
6	240	14	1	47%	52%	KQ-3-0192-M1	51%	KQ-3-0192-M7	54%	KQ-3T2-0192-M1	55%	KQ-3T2-0192-M7
		14	3			KQ-3-0193-M1		KQ-3-0193-M7		KQ-3T2-0193-M1		KQ-3T2-0193-M7
6	480	14	1			KQ-3-0194-M1		KQ-3-0194-M7		KQ-3T2-0194-M1		KQ-3T2-0194-M7
		14	3			KQ-3-0195-M1		KQ-3-0195-M7		KQ-3T2-0195-M1		KQ-3T2-0195-M7
7.5	240	15	1	57	62	KQ-3-0196-M1	61%	KQ-3-0196-M7	65%	KQ-3T2-0196-M1	66%	KQ-3T2-0196-M7
		15	3			KQ-3-0197-M1		KQ-3-0197-M7		KQ-3T2-0197-M1		KQ-3T2-0197-M7
7.5	480	15	1			KQ-3-0198-M1		KQ-3-0198-M7		KQ-3T2-0198-M1		KQ-3T2-0198-M7
		15	3			KQ-3-0199-M1		KQ-3-0199-M7		KQ-3T2-0199-M1		KQ-3T2-0199-M7
9	240	15	1	68	73	KQ-3-0200-M1	72%	KQ-3-0200-M7	76%	KQ-3T2-0200-M1	77%	KQ-3T2-0200-M7
		15	3			KQ-3-0201-M1		KQ-3-0201-M7		KQ-3T2-0201-M1		KQ-3T2-0201-M7
9	480	15	1			KQ-3-0202-M1		KQ-3-0202-M7		KQ-3T2-0202-M1		KQ-3T2-0202-M7
		15	3			KQ-3-0203-M1		KQ-3-0203-M7		KQ-3T2-0203-M1		KQ-3T2-0203-M7