

**Self Regulating Low Temperature (SRL):**

- Self regulating, energy efficient
- 16 AWG buss wire
- Circuit lengths to 660 feet
- Process temperature maintenance to 150F (65C)
- Maximum continuous exposure temperature, power off, 185F (85C)
- Industrial freeze protection applications
- Field splicing without disrupting heat output
- 3, 5, 8 and 10 W/ft.
- 120 and 208-277V
- Approximate size 3/8"W x 1/8"H
- Minimum bend radius 1 1/8"
- For use on metal or plastic pipes

**Description:**

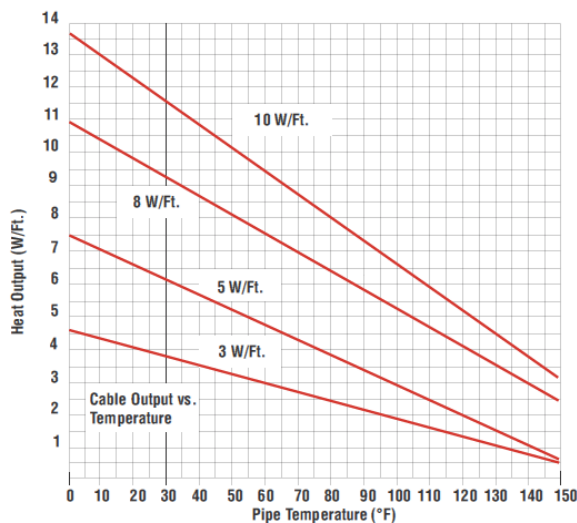
SRL self regulating heat cable provides safe, reliable heat tracing for freeze protection of pipes, valves, tanks and similar applications. Constructed of industrial grade 16 AWG buss wire with a tinned copper braid and optional over-jacketing, SRL ensures operating integrity in Div. 2 hazardous environments as well as certain corrosive industrial environments. SRL heating cable has a maximum maintenance temperature rating of 185F (65C).

**Features:**

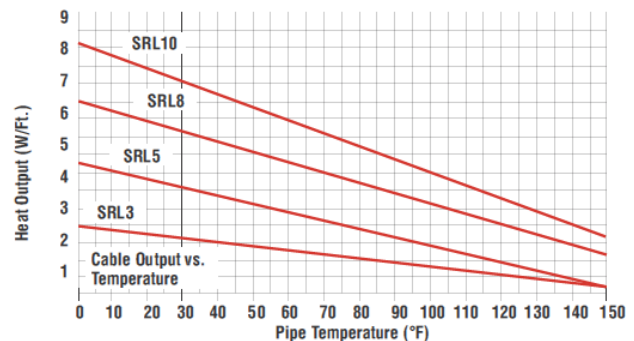
- Energy Efficient, self regulating SRL uses less energy when less heat is required
- Easy to install
- Field splices can be performed easily in minutes with no scrap or wasted cold sections
- SRL features lower installed cost than steam tracing
- SRL can be single overlapped without burnout
- Termination, splice, tee and end seal kits reduce installation time
- Because SRL is self regulating, over temperature conditions are minimized



**Thermal Output Ratings On Insulated Metal Pipe:**



**Thermal Output Ratings On Plastic Pipe With Aluminum Tape:**



**Output Wattage At Alternate Voltages (W/Ft.)**

| Model | 208V | % Change In Output | 220V | % Change In Output | 277V | % Change In Output |
|-------|------|--------------------|------|--------------------|------|--------------------|
| SRL3  | 2.4  | -20                | 2.6  | -13                | 3.4  | +15                |
| SRL5  | 4.1  | -18                | 4.5  | -10                | 5.6  | +13                |
| SRL8  | 6.88 | -14                | 7.28 | -9                 | 8.96 | +12                |
| SRL10 | 8.7  | -13                | 9.2  | -8                 | 11.1 | +10                |

**Circuit Breaker Selection (Max. Circuit Lengths In Ft.)**

**50F Start-Up (Ft.)**

| Cable Rating | 10A | 15A | 20A | 25A  | 30A | 40A |
|--------------|-----|-----|-----|------|-----|-----|
| SRL3-1C      | 205 | 305 | 360 | NR   | NR  | NR  |
| SRL3-2C      | 400 | 600 | 660 | NR   | NR  | NR  |
| SRL5-1C      | 125 | 185 | 250 | 270  | NR  | NR  |
| SRL5-2C      | 250 | 375 | 505 | 540  | NR  | NR  |
| SRL8-1C      | 100 | 150 | 200 | 215  | NR  | NR  |
| SRL8-2C      | 185 | 285 | 375 | 4520 | NR  | NR  |
| SRL10-1C     | 60  | 95  | 130 | 160  | 180 | NR  |
| SRL10-2C     | 100 | 160 | 210 | 260  | 315 | 360 |

**0F Start-Up (Ft.)**

| Cable Rating | 10A | 15A | 20A | 25A | 30A | 40A |
|--------------|-----|-----|-----|-----|-----|-----|
| SRL3-1C      | 135 | 200 | 270 | 330 | 360 | NR  |
| SRL3-2C      | 275 | 415 | 555 | 660 | NR  | NR  |
| SRL5-1C      | 90  | 135 | 180 | 225 | 270 | NR  |
| SRL5-2C      | 180 | 270 | 360 | 450 | 540 | NR  |
| SRL8-1C      | 70  | 110 | 145 | 180 | 215 | NR  |
| SRL8-2C      | 135 | 200 | 265 | 335 | 395 | 420 |
| SRL10-1C     | 50  | 80  | 105 | 130 | 155 | 180 |
| SRL10-2C     | 80  | 125 | 170 | 210 | 255 | 340 |

-20F Start-Up (Ft.)

| Cable Rating | 10A | 15A | 20A | 25A | 30A | 40A |
|--------------|-----|-----|-----|-----|-----|-----|
| SRL3-1C      | 120 | 185 | 245 | 300 | 360 | NR  |
| SRL3-2C      | 245 | 370 | 495 | 600 | 660 | NR  |
| SRL5-1C      | 80  | 120 | 160 | 205 | 245 | 270 |
| SRL5-2C      | 160 | 245 | 325 | 405 | 490 | 540 |
| SRL8-1C      | 65  | 100 | 130 | 165 | 200 | 210 |
| SRL8-2C      | 120 | 175 | 235 | 300 | 350 | 420 |
| SRL10-1C     | 45  | 70  | 95  | 120 | 140 | 180 |
| SRL10-2C     | 75  | 120 | 160 | 195 | 240 | 320 |

NR= Not Required

\*\*Thermal Magnetic circuit breakers are recommended since magnetic circuit breaks could “nuisance trip” at low temperature\*\*

**Ordering Information:**

| Output (W/Ft.) | Volts   | Model     | PCN    | Wt./1000' (Lbs.) |
|----------------|---------|-----------|--------|------------------|
| 3 @ 50F        | 120     | SRL3-1C   | 382678 | 53               |
|                |         | SRL3-1CT  | 383400 | 66               |
|                |         | SRL3-1CR  | 382731 | 64               |
| 3 @ 50F        | 208-277 | SRL3-2C   | 382686 | 53               |
|                |         | SRL3-2CT  | 383419 | 66               |
|                |         | SRL3-2CR  | 382740 | 64               |
| 5 @ 50F        | 120     | SRL5-1C   | 382694 | 53               |
|                |         | SRL5-1CT  | 383443 | 66               |
|                |         | SRL5-1CR  | 382758 | 64               |
| 5 @ 50F        | 208-277 | SRL5-2C   | 382707 | 53               |
|                |         | SRL5-2CT  | 383451 | 66               |
|                |         | SRL5-2CR  | 382766 | 64               |
| 8 @ 50F        | 120     | SRL8-1C   | 382555 | 53               |
|                |         | SRL8-1CT  | 388460 | 66               |
|                |         | SRL8-1CR  | 382598 | 64               |
| 8 @ 50F        | 208-277 | SRL8-2C   | 382563 | 53               |
|                |         | SRL8-2CT  | 383478 | 66               |
|                |         | SRL8-2CR  | 382600 | 64               |
| 10 @ 50F       | 120     | SRL10-1C  | 382820 | 53               |
|                |         | SRL10-1CT | 383486 | 66               |
|                |         | SRL10-1CR | 382846 | 64               |
| 10 @ 50F       | 208-277 | SRL10-2C  | 382838 | 53               |
|                |         | SRL10-2CT | 383494 | 66               |
|                |         | SRL10-2CR | 382854 | 64               |

| Accessories                                                   | DL   | EL          |
|---------------------------------------------------------------|------|-------------|
| Power Connection: Heat trace to electrical service connection | RTPC | RT-JBC-1    |
| Splice & Tee:                                                 | RTST | RT-RST      |
| End Seal: For terminating cable                               | RTES | RT-RES      |
| Thermostat: Ambient air sensing thermostat                    | RTAS | B-100/B-121 |
| Thermostat: Line sensing mechanical thermostat                | RTBC | E-100/E-121 |
| Thermostat: Line sensing electronic thermostat                | RTSS | N/A         |

**Model Self-Regulating Low Temperature**

**SRL** Self-Regulating, Low Temperature Heating Cable

**Code Output (W/Ft.)**

- 3** Three
- 5** Five
- 8** Eight
- 10** Ten

**Code Voltage**

- 1** 120
- 2** 208 - 277

**Code Braid and Overcoat Options**

- C** Tin-Plated copper metallic braid for additional protection and ground path
- CT** Fluoropolymer corrosion resistant overjacket over braid for hostile/corrosive environments
- CR** TPR overjacket over braid for protection against certain inorganic chemical solutions

**SRL 5 1 C Typical Model Number**

**Self Regulating  
Medium  
Temperature  
(SRM/E):**

- Self regulating, energy efficient
- 14 AWG buss wire
- Circuit lengths to 780 feet
- Process temperature maintenance to 302F (150C)
- Maximum continuous exposure temperature, power off, 420F (215C)
- Industrial freeze protection applications
- Steam cleanable on process equipment up to 300 PSIG
- 3, 5, 8, 10, 15 and 20 W/ft.
- 120 and 208-277V
- Approximate size 1/2"W x 1/4"H
- Minimum bend radius 1 1/2"
- For use on metallic pipes only

**Description:**

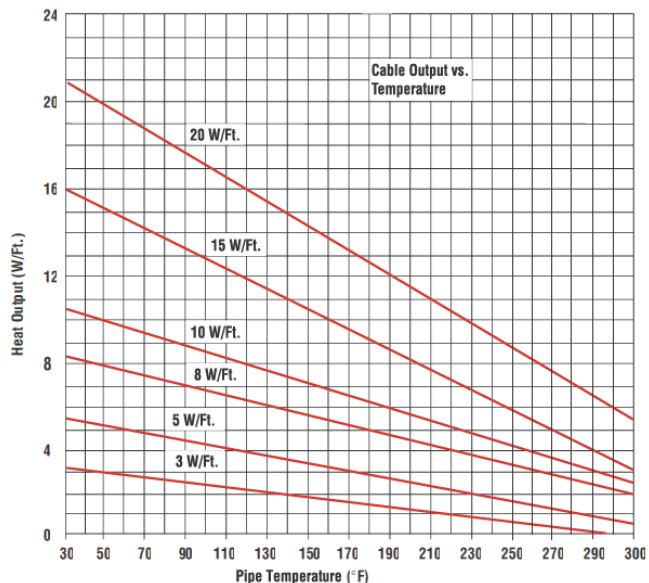
SRM/E self regulating heat cable provides safe, reliable heat tracing for freeze protection of pipes, valves, tanks and similar applications. Constructed of industrial grade 14 AWG buss wire with metal braid and optional over-jacketing, SRM/E ensures operating integrity in most hostile industrial environments. The 420F (215C) maximum exposure temperature rating allows steam cleaning of process equipment with up to 300 PSIG steam.

**Features:**

- Energy Efficient, self regulating SRM/E uses less energy when less heat is required
- Easy to install
- Field splices can be performed easily in minutes with no scrap or wasted cold sections
- SRM/E features lower installed cost than steam tracing
- SRM/E can be single overlapped without burnout
- Termination, splice, tee and end seal kits reduce installation time
- Because SRL is self regulating, over temperature conditions are minimized



**Thermal Output Ratings On Insulated Metal Pipe:**



**Output Wattage At Alternate Voltages (W/Ft.)**

| Model   | 208V  | % Change In Output | 220V  | % Change In Output | 277V  | % Change In Output |
|---------|-------|--------------------|-------|--------------------|-------|--------------------|
| SRM/E3  | 2.31  | -23                | 2.55  | -15                | 3.90  | +23                |
| SRM/E5  | 3.85  | -23                | 4.25  | -15                | 6.45  | +23                |
| SRM/E8  | 6.4   | -20                | 6.88  | -14                | 10.24 | +22                |
| SRM/E10 | 8.3   | -17                | 8.80  | -12                | 12.50 | +20                |
| SRM/E15 | 12.75 | -15                | 13.50 | -10                | 18.45 | +19                |
| SRM/E20 | 17.6  | -12                | 18.40 | -8                 | 24.40 | +19                |

**Circuit Breaker Selection (Max. Circuit Lengths In Ft.)**

**50F Start-Up (Ft.)**

| Cable Rating | 15A | 20A | 30A | 40A | 50A |
|--------------|-----|-----|-----|-----|-----|
| SRM/E3-1     | 285 | 385 | NR  | NR  | NR  |
| SRM/E3-2     | 575 | 770 | 780 | NR  | NR  |
| SRM/E5-1     | 180 | 240 | 360 | 375 | NR  |
| SRM/E5-2     | 360 | 480 | 720 | 750 | NR  |
| SRM/E8-1     | 145 | 190 | 285 | 325 | NR  |
| SRM/E8-2     | 285 | 380 | 575 | 650 | NR  |
| SRM/E10-1    | 95  | 125 | 190 | 250 | NR  |
| SRM/E10-2    | 190 | 255 | 385 | 490 | NR  |
| SRM/E15-1    | 70  | 95  | 145 | 190 | 210 |
| SRM/E15-2    | 145 | 190 | 290 | 385 | 420 |
| SRM/E20-1    | 60  | 75  | 115 | 155 | 160 |
| SRM/E20-2    | 115 | 155 | 230 | 305 | 350 |

**0F Start-Up (Ft.)**

| Cable Rating | 15A | 20A | 30A | 40A | 50A |
|--------------|-----|-----|-----|-----|-----|
| SRM/E3-1     | 275 | 375 | 385 | NR  | NR  |
| SRM/E3-2     | 540 | 750 | 780 | NR  | NR  |
| SRM/E5-1     | 165 | 220 | 330 | 375 | NR  |
| SRM/E5-2     | 325 | 430 | 645 | 750 | NR  |
| SRM/E8-1     | 135 | 175 | 265 | 325 | NR  |
| SRM/E8-2     | 255 | 345 | 520 | 650 | NR  |
| SRM/E10-1    | 90  | 110 | 175 | 250 | NR  |
| SRM/E10-2    | 165 | 225 | 345 | 490 | NR  |
| SRM/E15-1    | 65  | 85  | 125 | 165 | 210 |
| SRM/E15-2    | 120 | 175 | 270 | 360 | 420 |
| SRM/E20-1    | 50  | 65  | 105 | 140 | 160 |
| SRM/E20-2    | 100 | 135 | 200 | 270 | 350 |

**-20F Start-Up (Ft.)**

| Cable Rating | 15A | 20A | 30A | 40A | 50A |
|--------------|-----|-----|-----|-----|-----|
| SRM/E3-1     | 265 | 365 | 385 | NR  | NR  |
| SRM/E3-2     | 525 | 740 | 780 | NR  | NR  |
| SRM/E5-1     | 155 | 210 | 310 | 375 | NR  |
| SRM/E5-2     | 310 | 415 | 620 | 750 | NR  |
| SRM/E8-1     | 130 | 165 | 250 | 325 | NR  |
| SRM/E8-2     | 245 | 335 | 490 | 650 | NR  |
| SRM/E10-1    | 85  | 100 | 170 | 245 | 250 |
| SRM/E10-2    | 155 | 215 | 330 | 470 | 490 |
| SRM/E15-1    | 60  | 80  | 120 | 150 | 210 |
| SRM/E15-2    | 115 | 165 | 260 | 340 | 420 |
| SRM/E20-1    | 45  | 65  | 100 | 135 | 160 |
| SRM/E20-2    | 90  | 130 | 195 | 255 | 335 |

NR= Not Required

\*\*Thermal Magnetic circuit breakers are recommended since magnetic circuit breaks could “nuisance trip” at low temperature\*\*

**Ordering Information:**

| Output (W/Ft.)                                                | Volts   | Model       | PCN         | Wt./1000' (Lbs.) |
|---------------------------------------------------------------|---------|-------------|-------------|------------------|
| 3 @ 50F                                                       | 120     | SRM/E3-1C   | 388025      | 80               |
|                                                               |         | SRM/E3-1CT  | 388033      | 100              |
| 3 @ 50F                                                       | 208-277 | SRM/E3-2C   | 385490      | 80               |
|                                                               |         | SRM/E3-2CT  | 388068      | 100              |
| 5 @ 50F                                                       | 120     | SRM/E5-1C   | 388084      | 80               |
|                                                               |         | SRM/E5-1CT  | 388092      | 100              |
| 5 @ 50F                                                       | 208-277 | SRM/E5-2C   | 388113      | 80               |
|                                                               |         | SRM/E5-2CT  | 388121      | 100              |
| 8 @ 50F                                                       | 120     | SRM/E8-1C   | 388148      | 80               |
|                                                               |         | SRM/E8-1CT  | 388156      | 100              |
| 8 @ 50F                                                       | 208-277 | SRM/E8-2C   | 388172      | 80               |
|                                                               |         | SRM/E8-2CT  | 388180      | 100              |
| 10 @ 50F                                                      | 120     | SRM/E10-1C  | 388201      | 80               |
|                                                               |         | SRM/E10-1CT | 388210      | 100              |
| 10 @ 50F                                                      | 208-277 | SRM/E10-2C  | 388236      | 80               |
|                                                               |         | SRM/E10-2CT | 388244      | 100              |
| 15 @ 50F                                                      | 120     | SRM/E15-1C  | 388260      | 80               |
|                                                               |         | SRM/E15-1CT | 388279      | 100              |
| 15 @ 50F                                                      | 208-277 | SRM/E15-2C  | 388308      | 80               |
|                                                               |         | SRM/E15-2CT | 388316      | 100              |
| 20 @ 50F                                                      | 120     | SRM/E20-1C  | 388332      | 80               |
|                                                               |         | SRM/E20-1CT | 388340      | 100              |
| 20 @ 50F                                                      | 208-277 | SRM/E20-2C  | 388367      | 80               |
|                                                               |         | SRM/E20-2CT | 388375      | 100              |
| Accessories                                                   |         | DL          | EL          |                  |
| Power Connection: Heat trace to electrical service connection |         | RTPC        | RT-JBC-1    |                  |
| Splice & Tee:                                                 |         | RTST        | RT-TST      |                  |
| End Seal: For terminating cable                               |         | RTES        | RT-TES      |                  |
| Thermostat: Ambient air sensing thermostat                    |         | RTAS        | B-100/B-121 |                  |
| Thermostat: Line sensing mechanical thermostat                |         | RTBC        | E-100/E-121 |                  |
| Thermostat: Line sensing electronic thermostat                |         | RTSS        | N/A         |                  |



| Model | Self-Regulating Medium Temperature                         |                                                                                            |    |
|-------|------------------------------------------------------------|--------------------------------------------------------------------------------------------|----|
| SRM/E | Self-Regulating, Medium Temperature Enhanced Heating Cable |                                                                                            |    |
|       | Code                                                       | Output (W/Ft.)                                                                             |    |
|       | 3                                                          | Three                                                                                      |    |
|       | 5                                                          | Five                                                                                       |    |
|       | 8                                                          | Eight                                                                                      |    |
|       | 10                                                         | Ten                                                                                        |    |
|       | 15                                                         | Fifteen                                                                                    |    |
|       | 20                                                         | Twenty                                                                                     |    |
|       | Code                                                       | Voltage                                                                                    |    |
|       | 1                                                          | 120                                                                                        |    |
|       | 2                                                          | 208 - 277                                                                                  |    |
|       | Code                                                       | Braid and Overcoat Options                                                                 |    |
|       | C                                                          | Tin-Plated copper metallic braid for additional protection and ground path                 |    |
|       | CT                                                         | Fluoropolymer corrosion resistant overjacket over braid for hostile/corrosive environments |    |
| SRM/E | 8                                                          | 8                                                                                          | CT |
|       | <b>Typical Model Number</b>                                |                                                                                            |    |

**Self Regulating Freeze Protection**

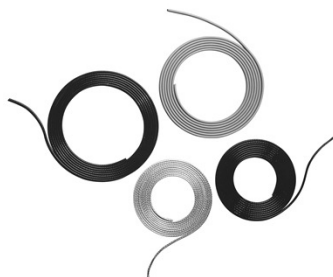
**(SRF):**

- Self regulating, energy efficient
- Designed for freeze protection
- Maximum exposure temperature 185F
- Cost effective for contractor/construction applications
- Industrial grade 16 AWG buss wire
- Standard braid and optional over jacket
- Continuous exposure temperature, power off, 185F (85C)

- Circuit lengths, up to 660 ft.
- 3, 5 and 8 W/Ft.
- 120, 208-277V
- Approximate size 3/8"W x 1/8"H
- Minimum bend radius 1 1/8"
- For use on metal and plastic pipes

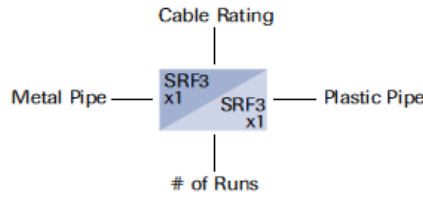
**Description:**

SRF cable is ideal for keeping metal and plastic pipes warm in commercial construction, institutional buildings and some industrial freeze protection applications. SRF cable is constructed of self regulating polymer core that varies it's output along it's entire length, saving energy and eliminating hot spots along the pipe. Parallel construction makes it easier to install then zone or series types of cable since it can be cut to length at any point on the pipe. It can be single overlapped without overheating the cable.



**Features:**

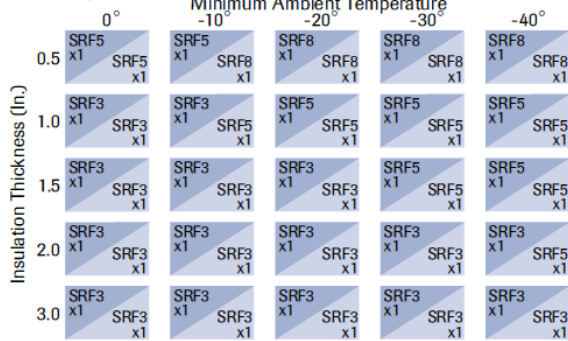
- Energy Efficient, self regulating SRF uses less energy when less heat is required
- Easy to install
- Field splices can be performed easily in minutes with no scrap or wasted cold sections
- SRF can be single overlapped without burnout
- Termination, splice, tee and end seal kits reduce installation time
- Because SRF is self regulating, over temperature conditions are minimized



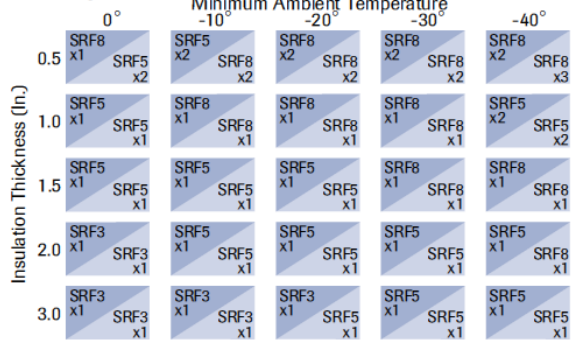
**Each block specifies cable rating and # of runs for metal pipe (dark) and plastic pipe (light).**

| Insulation Thickness (In.) | 0.50" Pipe |         |         |         |         | 1.00" Pipe |         |         |         |         | 0.75" Pipe |         |         |         |         | 1.25" Pipe |         |         |         |         |
|----------------------------|------------|---------|---------|---------|---------|------------|---------|---------|---------|---------|------------|---------|---------|---------|---------|------------|---------|---------|---------|---------|
|                            | 0°         | -10°    | -20°    | -30°    | -40°    | 0°         | -10°    | -20°    | -30°    | -40°    | 0°         | -10°    | -20°    | -30°    | -40°    | 0°         | -10°    | -20°    | -30°    | -40°    |
| 0.5                        | SRF3 x1    | SRF3 x1 | SRF3 x1 | SRF5 x1 | SRF5 x1 | SRF3 x1    | SRF5 x1 | SRF5 x1 | SRF5 x1 | SRF8 x1 | SRF3 x1    | SRF3 x1 | SRF5 x1 | SRF5 x1 | SRF5 x1 | SRF5 x1    | SRF5 x1 | SRF8 x1 | SRF8 x1 | SRF8 x1 |
| 1.0                        | SRF3 x1    | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF3 x1    | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF5 x1 | SRF3 x1    | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF3 x1    | SRF3 x1 | SRF3 x1 | SRF5 x1 | SRF5 x1 |
| 1.5                        | SRF3 x1    | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF3 x1    | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF3 x1    | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF3 x1    | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF5 x1 |
| 2.0                        | SRF3 x1    | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF3 x1    | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF3 x1    | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF3 x1    | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF3 x1 |
| 3.0                        | SRF3 x1    | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF3 x1    | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF3 x1    | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF3 x1    | SRF3 x1 | SRF3 x1 | SRF3 x1 | SRF3 x1 |

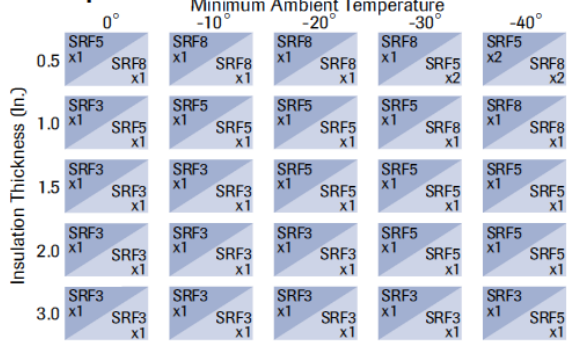
**1.50" Pipe**



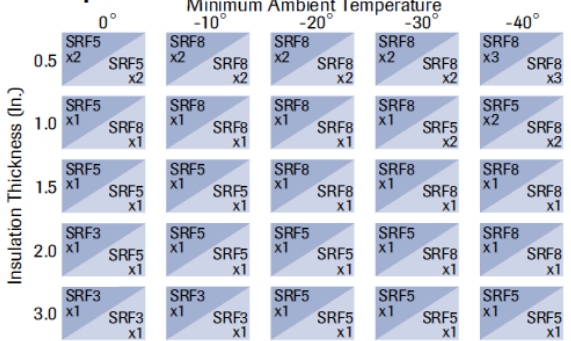
**3.50" Pipe**



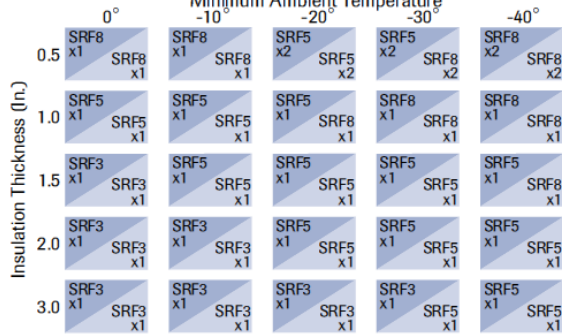
**2.00" Pipe**



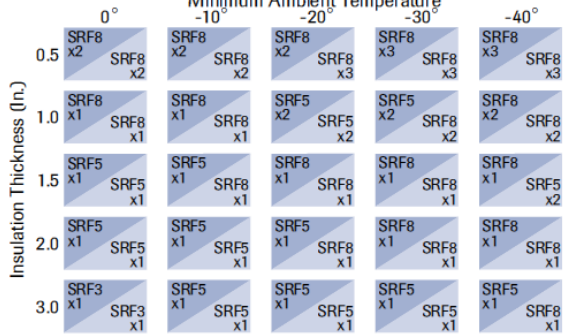
**4.00" Pipe**



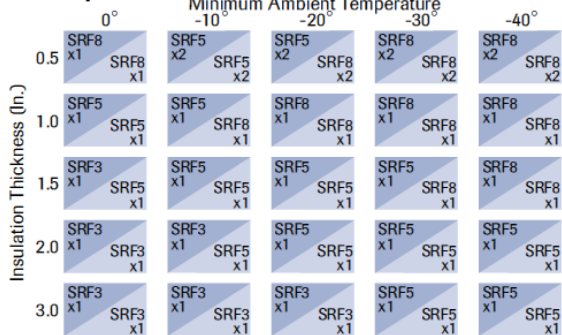
**2.50" Pipe**



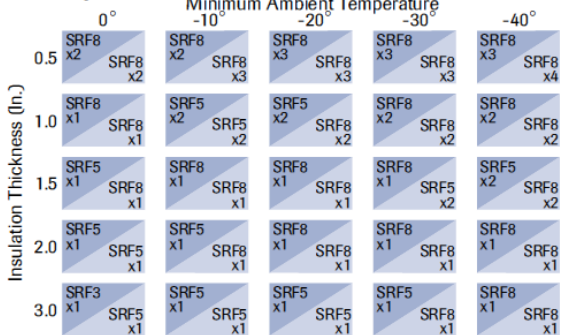
**5.00" Pipe**



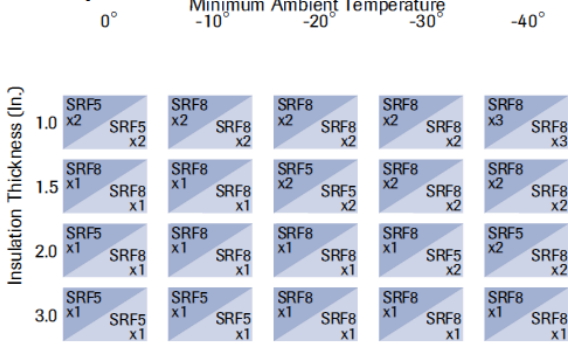
**3.00" Pipe**



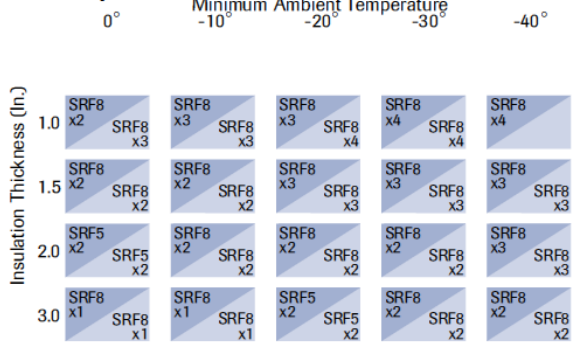
**6.00" Pipe**



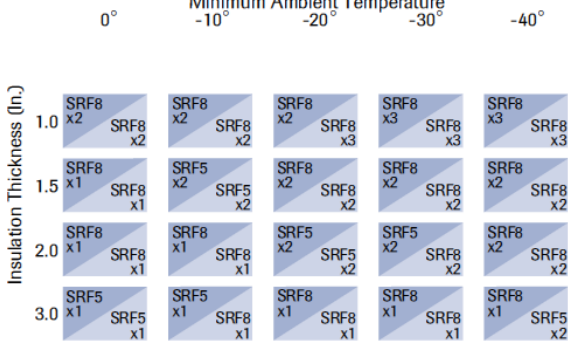
**8.00" Pipe**



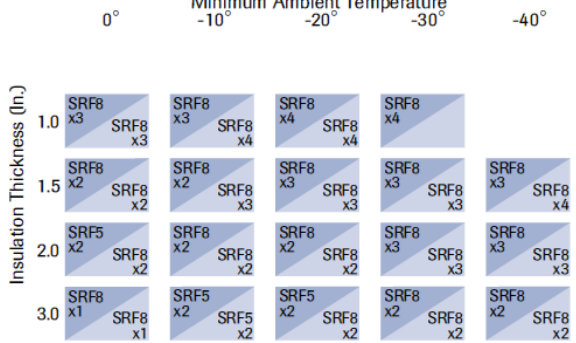
**16.00" Pipe**



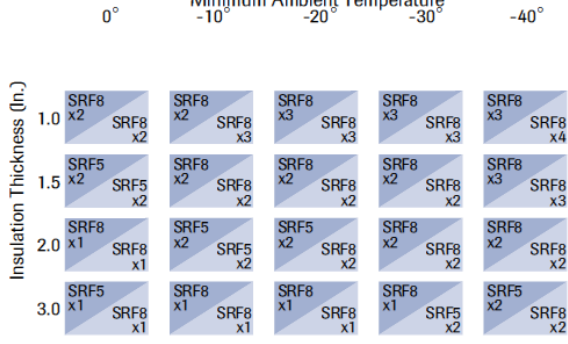
**10.00" Pipe**



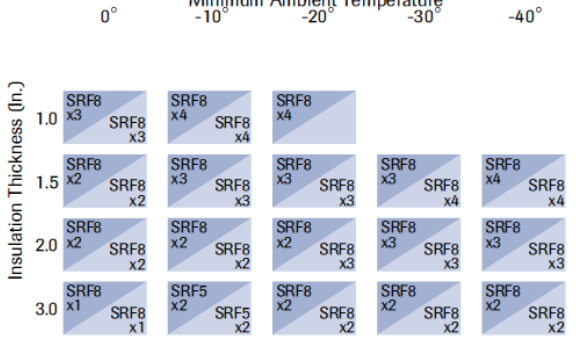
**18.00" Pipe**



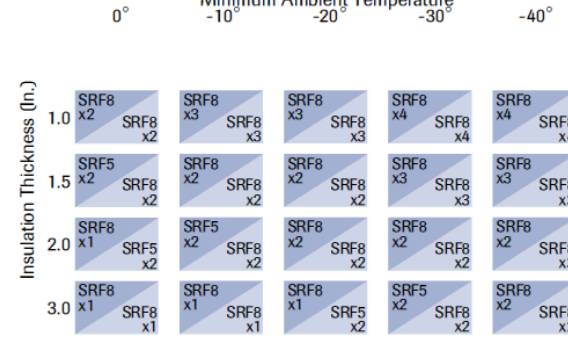
**12.00" Pipe**



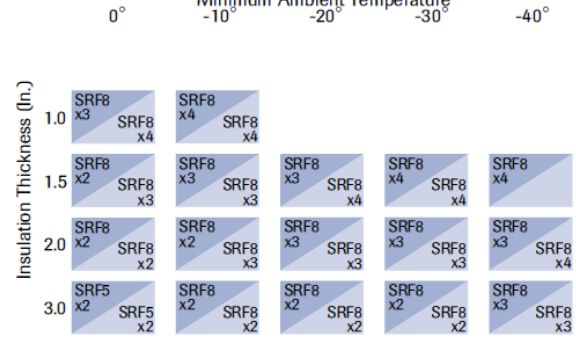
**20.00" Pipe**



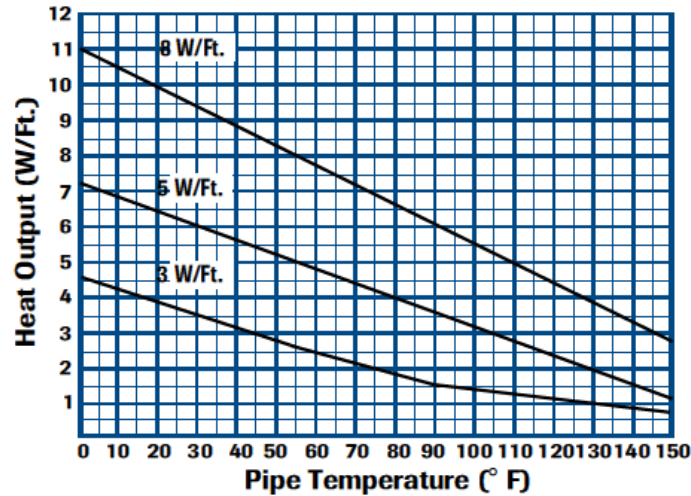
**14.00" Pipe**



**24.00" Pipe**



**Thermal Output Ratings On Uninsulated Metal Pipe:**



**Output Wattage At Alternate Voltages (W/Ft.)**

| Model | 208V | % Change In Output | 220V | % Change In Output | 277V | % Change In Output |
|-------|------|--------------------|------|--------------------|------|--------------------|
| SRF3  | 2.4  | -20                | 2.6  | -13                | 3.4  | +15                |
| SRF5  | 4.1  | -18                | 4.5  | -10                | 5.6  | +13                |
| SRF8  | 6.88 | -14                | 7.28 | -9                 | 8.96 | +12                |

**Circuit Breaker Selection (Max. Circuit Lengths In Ft.)**

**40F Start-Up (Ft.)**

| Cable Rating | 20A | 30A | 40A |
|--------------|-----|-----|-----|
| SRF3-1C      | 350 | 360 | NR  |
| SRF3-2C      | 660 | NR  | NR  |
| SRF5-1C      | 230 | 270 | NR  |
| SRF5-2C      | 450 | 540 | NR  |
| SRF8-1C      | 180 | 215 | NR  |
| SRF8-2C      | 330 | 420 | 420 |

**0F Start-Up (Ft.)**

| Cable Rating | 20A | 30A | 40A |
|--------------|-----|-----|-----|
| SRF3-1C      | 270 | 360 | NR  |
| SRF3-2C      | 555 | 660 | NR  |
| SRF5-1C      | 180 | 270 | NR  |
| SRF5-2C      | 360 | 540 | NR  |
| SRF8-1C      | 145 | 215 | NR  |
| SRF8-2C      | 265 | 395 | 420 |

NR= Not Required

\*\*Thermal Magnetic circuit breakers are recommended since magnetic circuit breaks could “nuisance trip” at low temperature\*\*

**Ordering Information:**

| Output (W/Ft.) | Volts   | Model   | PCN    | Wt./1000’ (Lbs.) |
|----------------|---------|---------|--------|------------------|
| 3 @ 50F        | 120     | SRF3-1C | 386943 | 53               |
| 3 @ 50F        | 208-277 | SRF3-2C | 386951 | 53               |
| 5 @ 50F        | 120     | SRF5-1C | 386960 | 53               |
| 5 @ 50F        | 208-277 | SRF5-2C | 386978 | 53               |
| 8 @ 50F        | 120     | SRF8-1C | 386986 | 53               |
| 8 @ 50F        | 208-277 | SRF8-2C | 386994 | 53               |

**With Optimal Overcoat (CR):**

| Output (W/Ft.) | Volts   | Model    | PCN    | Wt./1000’ (Lbs.) |
|----------------|---------|----------|--------|------------------|
| 3 @ 50F        | 120     | SRF3-1CR | 386100 | 64               |
| 3 @ 50F        | 208-277 | SRF3-2CR | 386118 | 64               |
| 5 @ 50F        | 120     | SRF5-1CR | 386142 | 64               |
| 5 @ 50F        | 208-277 | SRF5-2CR | 386150 | 64               |
| 8 @ 50F        | 120     | SRF8-1CR | 386062 | 64               |
| 8 @ 50F        | 208-277 | SRF8-2CR | 386070 | 64               |

| Accessories                                                   | DL   | EL          |
|---------------------------------------------------------------|------|-------------|
| Power Connection: Heat trace to electrical service connection | RTPC | RT-JBC-1    |
| Splice & Tee:                                                 | RTST | RT-RST      |
| End Seal: For terminating cable                               | RTES | RT-RES      |
| Thermostat: Ambient air sensing thermostat                    | RTAS | B-100/B-121 |
| Thermostat: Line sensing mechanical thermostat                | RTBC | E-100/E-121 |
| Thermostat: Line sensing electronic thermostat                | RTSS | N/A         |

**DL Integrated Connection**

**Accessories:**

- RTPC Power Connection Box
  - NEMA 4X
  - Cable entry up to 3 cables
  - 3/4" Conduit hub opening
- RTST Splice And Tee Box
  - NEMA 4X
  - Cable entry Up to 3 cables
  - Straight or tee connections
- RTES End Seal Fitting
  - NEMA 4X
  - Fits all pipe sizes
  - Feet for installing on flat surfaces
- Stainless steel hardware
- Corrosion and weather resistant
- Ryton construction

**RTPC**



**RTST**



**RTES**



**Description:**

The DL series installation accessories for heat tracing products represents the state of the art in heat tracing. Each model in the series is designed to satisfy the demands of a particular operation. These high quality models combine a variety of functions in a convenient, easy to use and economical package.

**Features:**

- Molded of durable plastic material
- High service temperature
- Corrosion resistant
- Integrated connection accessories and controls
- Thermal stability
- Non-flammable
- High strength and rigidity
- Liquid tighten design prevents moisture from reaching the electrical connections.
- All models are rated NEMA 4X

**RTPC Power Connection Kit Includes:**

- 1 Molded Junction Box
- 1 Base
- 1 Box With Conduit Opening
- 1 Lid
- 1 Three Position Terminal Block
- 1 Mounting Screw For Terminal Block
- 1 GRSR Self Regulating Cable Sealing Grommet
- 1 GRCW Constant Wattage Sealing Grommet

**RTPC-SL Power Connection w/Signal Light Kit Includes:**

- 1 Molded Junction Box
- 1 Base
- 1 Box With Conduit Opening
- 1 Lid With Signal Light Installed (LED Style)
- Specify SL1 (120V), SL2 (208-240V), SL3 (277V) operation
- 1 Three Position Terminal Block
- 1 GRSR Self Regulating Cable Sealing Grommet
- 1 GRCW Constant Wattage Sealing Grommet

| Model    | PCN    | Wt. (Lbs.) |
|----------|--------|------------|
| RTPC     | 384796 | 1          |
| RTPC-SL1 | XXXXXX | 2          |
| RTPC-SL2 | XXXXXX | 2          |
| RTPC-SL3 | XXXXXX | 2          |

**RTST Splice And Tee Kit Includes:**

- 1 Molded Junction Box
- 1 Base
- 1 Box
- 1 Lid
- 1 Three Position Terminal Block
- 1 Mounting Screw For Terminal Block
- 1 GRSR Self Regulating Cable Sealing Grommet
- 1 GRCW Constant Wattage Sealing Grommet

**RTST-SL Splice And Tee w/Signal Light Kit Includes:**

- 1 Molded Junction Box
- 1 Base
- 1 Box
- 1 Lid With Signal Light Installed (LED Style)
- Specify SL1 (120V), SL2 (208-240V), SL3 (277V) operation
- 1 Three Position Terminal Block
- 1 GRSR Self Regulating Cable Sealing Grommet
- 1 GRCW Constant Wattage Sealing Grommet

| Model    | Wt. (Lbs.) |
|----------|------------|
| RTST     | 1          |
| RTST-SL1 | 2          |
| RTST-SL2 | 2          |
| RTST-SL3 | 2          |



**RTES End Seal Kit Includes:**

- 1 End Cap
- 1 Pressure Plate
- 1 GRSR Self Regulating Cable Sealing Grommet
- 1 GRCW Constant Wattage Cable Sealing Grommet

| Model | PCN    | Wt. (Lbs.) |
|-------|--------|------------|
| RTES  | 384817 | 1          |

**EL Standard Connection**

**Accessories:**

- Junction box connection kits for SRL and SRF applications
- Cold lead connection kits for CSA certified installations
- Splice and tee kits for SRL and SRF applications
- End seal kits for SRL and SRF applications



**Description:**

Each model in the EL series installation accessories for rapid trace heating cable products is designed to satisfy the demands of a particular operation. These high quality models combine a variety of functions in a convenient, easy to use and economical package.

**Ordering Information:**

**Power Connection Kit**

| Model                | Used With                              |
|----------------------|----------------------------------------|
| RT-JBC-1<br>TR-JBC-2 | SRL-C, SRL-CR, CT,<br>SRF-C, CWM-C, CT |

**Splice And Tee Kit**

| Model            | Used With                          |
|------------------|------------------------------------|
| RT-RST<br>RT-TST | SRL-C, CRL-CR,<br>SRF-C, CWM-C, CT |



**Cable Attachments Ordering Information:**

**End Seal Kit**

| Model  | Used With                          |
|--------|------------------------------------|
| RT-RES | SRL-C, SRL-CR,<br>SRF-C, CWM-C, CT |



| Description          | Model | PCN    | Wt. (Lbs.) |
|----------------------|-------|--------|------------|
| Conduit Hub          | CCH-2 | 385650 | 1          |
| Fiberglass Tape      | FT-1  | 382520 | 1          |
| Fiberglass Tape      | FT-2  | 383611 | 1          |
| Aluminum Tape        | AT-1  | 383355 | 2          |
| Metal Pipe Strap Kit | PS-1  | 382352 | 1          |
|                      | PS-3  | 382360 | 1          |
|                      | PS-10 | 382379 | 1          |
| Caution Labels       | CL-1  | 382424 | 1          |

# STS Southeast Thermal Systems L.L.C. Heat Trace

## HL Hazardous Location

### Connection Kits:

- Power connection kit
- End seal kit
- Splice kit
- Tee kit

### Description:

The HL series connection system for heating cable products is specifically designed to comply with the requirements of Division 1 hazardous areas.

### Features:

- High strength aluminum alloy cast bodies
- Corrosion resistant
- Internally threaded junction box body with externally threaded cover
- Seal fitting applicable for use on vertical or horizontal conduit



### Ordering Information:

| Kit              | Description                   | Model | PCN    |
|------------------|-------------------------------|-------|--------|
| Power Connection | Electrical Service Connection | HL-PC | 382192 |
| End Seal         | Terminating 1 Cable           | HL-ES | 382221 |
| In Line Splice   | Splice 2 Cables               | HL-S  | 382205 |
| Tee Splice       | Splice 3 Cables               | HL-T  | 382213 |

### Cable Attachments Ordering Information:

| Description          | Model  | PCN    | Wt. (Lbs.) |
|----------------------|--------|--------|------------|
| Fiberglass Tape      | FT-1   | 382520 | 1          |
| Fiberglass Tape      | FT-2   | 383611 | 1          |
| Aluminum Tape        | AT-1   | 383355 | 2          |
| Nylon Tie            | CT-100 | 383283 | 1          |
| Metal Pipe Strap Kit | PS-1   | 382352 | 1          |
|                      | PS-3   | 382360 | 1          |
|                      | PS-10  | 382379 | 1          |
| Caution Labels       | CL-1   | 382424 | 1          |

### RBF Heat Trace or Pipe Sensor:

- Heat trace or pipe sensing application
- 316 Stainless steel sheath
- Moisture resistant heads

- 3/4" or 1/2" NPT threaded extension wire opening
- 4" to 8" Cold leg standard for varying insulation depths
- 1" to 3" pipe fitting standard
- 100 ohm RTD, ± .12% accuracy

- Standard thermocouple types J, K, T and E
- Fiberglass insulated RTD probe
- Standard underground thermocouple junction
- RTD or universal transmitter available

**Description:**

For measuring the surface temperature of process piping that is carrying products whose temperatures must be controlled to prevent freeze up, or to maintain a viscosity level so that the inner medium will flow. The thermocouple or RTD sensor element is made up with a 316 stainless steel sheath, and with stainless steel mounting pad. Cold legs are available in customer specified lengths to accommodate pipe insulation thickness.

**Ordering Information:**

| Model                       | PCN    |
|-----------------------------|--------|
| RBF185M-HT-0304-18RC-31SB/C | 317315 |
| RBF185M-HT-0304-18RE-31SB/C | 317323 |
| RBF185M-HT-0304-18RG-31SB/C | 317331 |
| RBF185M-HT-0304-18RC-71SB/C | 317340 |
| RBF185M-HT-0304-18RE-71SB/C | 317358 |
| RBF185M-HT-0304-18RG-71SB/C | 317366 |



| Model      | Sensor | Range (°F) |      |
|------------|--------|------------|------|
|            |        | Min        | Max  |
| RBF185M-HT | RTD    | -100       | 900  |
| J48U-HT    | Type J | 32         | 900  |
| K48U-HT    | Type K | 900        | 1800 |
| T48U-HT    | Type T | -300       | 500  |
| E48U-HT    | Type E | 32         | 1800 |

| Code | Sheath Leg Lengths |      |
|------|--------------------|------|
|      | Hot                | Cold |
| 0304 | 3"                 | 4"   |
| 0306 | 3"                 | 6"   |
| 0308 | 3"                 | 8"   |

| Code | Mounting Pads       |           |
|------|---------------------|-----------|
|      | Radius              | Pipe size |
| 18RD | Fits All Pipe Sizes |           |

| Code   | Connection Heads                              |
|--------|-----------------------------------------------|
|        | 31SB/C                                        |
| 49SB/C | Flip top aluminum. NEMA 4                     |
| 71SB/C | Explosion resistant cast iron/aluminum NEMA 4 |
| 81SB/C | Explosion resistant 316L SS. NEMA 4X          |
| 91SB/C | 316L stainless steel. NEMA 4X                 |

|            |      |      |        |
|------------|------|------|--------|
| RBF185M-HT | 0304 | 18RD | 31SB/C |
|------------|------|------|--------|

Mounting pads conform to pipe once pipe clamps