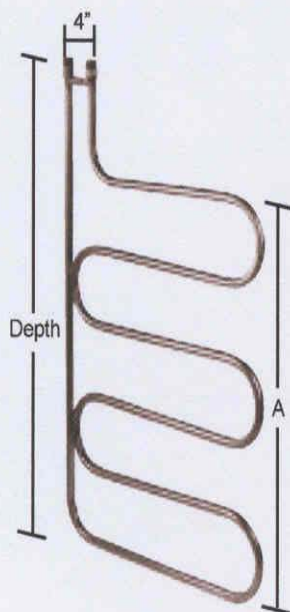


PRODUCT BULLETIN



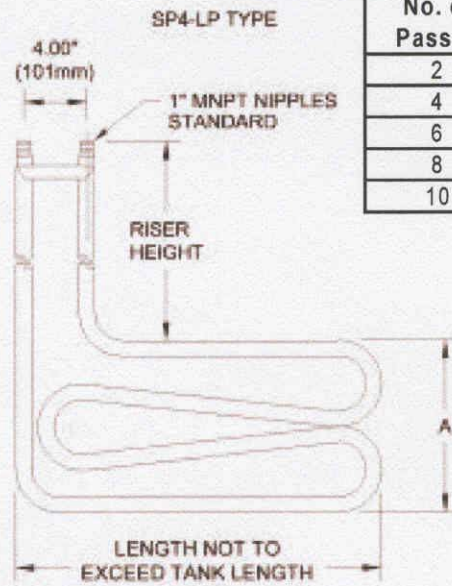
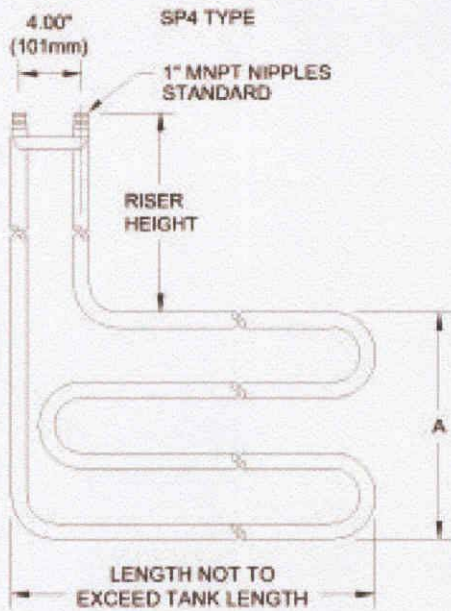
SP SERIES, SERPENTINE COILS							
EXCHANGE AREA	LENGTH	DEPTH	NO. OF PASSES	STEEL	316 SS	TITANIUM	SHIP WGT.
(Sq. Ft.)	In./(mm)	In./(mm)					Lbs./(kg)
2.75	24 (610)	36 (915)	4	SP4-24P	SP4-24S	SP4-24T	10 (4.5)
3.75	36 (915)	36 (915)	4	SP4-36P	SP4-36S	SP4-36T	12 (5.5)
4.75	48 (1220)	36 (915)	4	SP4-48P	SP4-48S	SP4-48T	14 (6.5)
5.75	60 (1525)	36 (915)	4	SP4-60P	SP4-60S	SP4-60T	16 (7.5)
7.25	78 (1980)	36 (915)	4	SP4-78P	SP4-78S	SP4-78T	20 (9)
8.75	96 (2440)	36 (915)	4	SP4-96P	SP4-96S	SP4-96T	24 (11)
3.75	20 (510)	48 (1220)	6	SP6-20P	SP6-20S	SP6-20T	12 (5.5)
5.00	30 (760)	48 (1220)	6	SP6-30P	SP6-30S	SP6-30T	14 (6.5)
6.25	40 (1015)	48 (1220)	6	SP6-40P	SP6-40S	SP6-40T	17 (8)
7.50	50 (1270)	48 (1220)	6	SP6-50P	SP6-50S	SP6-50T	20 (9)
8.75	60 (1525)	48 (1220)	6	SP6-60P	SP6-60S	SP6-60T	24 (11)
10.00	70 (1780)	48 (1220)	6	SP6-70P	SP6-70S	SP6-70T	27 (12.5)

Serpentine coil heaters offer lower cost per heating surface area. The design allows them to be installed in tanks with limited space. Bottom coils available. Hastelloy C and Zirconium coils available, consult factory. 1" diameter tubing with 1" MNPT fittings standard. 1/2", 5/8", 3/4" and 1 1/4" tubing available. PTFE sleeve for solution interface available.

Product Features and Benefits:

- ◆ **SUPERIOR CHEMICAL RESISTANCE:** Wide variety of materials available for use in heating or cooling applications for alkaline solutions, acid solutions, and rinse tanks. Check solution guide or consult with your chemical supplier for proper sheath material.
- ◆ **RUGGED CONSTRUCTION:** Heavy wall, 18-gauge metal tubing available in steel, 316 stainless steel and titanium.
- ◆ **OUTSTANDING PERFORMANCE:** One-inch thick, low profile design. Every inch of coil surface is active exchange area.
- ◆ **LEAK FREE OPERATION:** Single point connections. Greatly reduces the potential for leaks and simplifies installation. One-inch MNPT connections standard.
- ◆ **HIGH PRESSURE RATING:** 100 PSI working pressure (steam or water).
- ◆ **SIZES:** 2.75 square foot to 10 square foot of exchange area standard for 4-pass and 6-pass designs.
- ◆ **OPTIONS AVAILABLE (consult factory):**
 - Mounting hangers.
 - Special sizes in 2, 8 or 10-pass configurations.
 - Heavier gauge tubing.
 - Other riser lengths and configurations.
 - Zirconium, Hastelloy C, low carbon stainless, and other alloys available.
 - Fluoropolymer coatings for corrosion protection at solution/atmospheric interface.
 - Non-conductive isolator couplings.
 - L-shaped configurations for bottom heat applications.

DIMENSIONS



No. of Passes	"A" Standard	"A" Low Profile
2	8.5"	8.5"
4	23"	17"
6	37"	26"
8	52"	34"
10	60.5"	43"

METAL SERPENTINE COIL ORDERING INFORMATION

Series	No. of Passes	Coil Length	Material	Options	Riser Height & Misc.
SP = Serpentine	2	Length in inches (not to exceed tank length) Ex: -24 = 24"		X = misc options such as: -custom connections -custom riser configurations -Teflon covered risers -heavier gauge material -vertical passes -different tubing sizes	
	4				
	6				
	8				
	10				
				P = Steel S = 316 Stainless Steel T = Titanium H = Hastelloy C Z = Zirconium	
					no designator = 11" riser (standard) -R = custom riser height (specify height) Ex: -R30 = 30" riser height -BR = bottom style coil (specify riser height) -LP = low profile (see dimensional drawing)

ORDERING EXAMPLE:

SP448T-LP-R22

Serpentine coil, 4 passes, 48 inch length, titanium, low profile configuration, 22 inch riser.