



Blade Selection Guide

Blade selection is based on many factors including compatibility with the heat exchanger tube material, product fluid characteristics, processing temperatures, and cost. Metal blades provide the best scraping properties, which means theoretically better heat transfer. However, metal blades are usually the most expensive, must run on a hard chrome surface and must be properly sharpened to avoid damaging the heat transfer tube. Today, with the development of new high temperature and FDA compliant plastic materials, there are alternatives to metal blades. The blade selection guide below provides a wide range of our most popular blades. Many other options are also available. Please contact your SPX FLOW Sales Representative to learn which type is best suited for your application.

	MATERIAL	PART NUMBER	\$	TEMPERATURE LIMITATIONS	PRODUCT APPLICATIONS	COMMENTS
6" BLADES						
	410 Stainless	LL900127	\$\$	None	All processes High Viscosity (meat/fondant/ice crystallization)	-Hard metal -Moderate corrosion resistance -Sharpening cost high -Possible tube wear
	17-7 Stainless	LL900124	\$\$\$\$	None	All processes High Viscosity (meat/fondant)	-Soft metal -Corrosion resistance -Sharpening cost high -Possible tube wear
	410 SS Cutaway Style	LL125801	\$\$\$\$	None	All processes High Viscosity (meat/fondant)	-Hard metal -Moderate corrosion resistance -Sharpening cost high -Reduced power consumption and product accumulation
	Brass-Cutaway Style	LL918089	\$\$\$	None	Pet Food and Inedible Processes	-Soft metal with reduced power consumption and product accumulation
	Celcon	LL900129	\$	160° F (71° C)	Low viscosity, fats and oils cooling (margarine/shortening)	-Molded plastic -Low strength values
	PEEK	LL118683	\$\$	320° F (177° C)	Medium to high viscosity, most products	-Molded plastic, high tensile strength and elongation
	MD PEEK	LL118683 MD	\$\$\$	320° F (177° C)	Medium to high viscosity, most products	-Molded plastic, high tensile strength and elongation -Metal detectable molded plastic
	PEEK locking with holes	LL121856	\$\$\$	320° F (177° C)	High viscosity, gelatin cooling	-Relief holes provide lower tip pressure and current amperage -Molded plastic, high tensile strength and elongation
	410SS with holes	137467+	\$\$\$	None	High viscosity, caulk and plastics cooling	-Hard metal -Relief holes provide lower tip pressure and current amperage -High sharpening cost
7.5" BLADES						
	Celcon	LL900748	\$\$	160° F (71° C)	Low to medium viscosity, fats and oils cooling	-Machined from stock -Low strength value
	LD PEEK/PTFE	K7000-7243	\$\$	302° F (150° C)	Low to medium viscosity, sauces, purees, and dressings	-Molded plastic -Low friction values
13.75" and 24" BLADES						
	4x120 PEEK	LL119712	\$\$	320° F (177° C)	Medium viscosity, sauces, purees and dressings	-Molded plastic, high tensile strength and elongation -Special "knuckles" for blade positioning
	Votator II Thermutator Delrin	128675+ 128675M1 128675M2	\$\$\$	160° F (71° C)	Medium viscosity, heat sensitive products or fouling characteristics	-5.25" (133mm) shaft design -Low strength values -Low friction properties -Machined blade
	Votator II Thermutator MD	135144MD 135144MD1 135144MD2	\$\$\$\$	160° F (71° C)	Medium viscosity, heat sensitive products or fouling characteristics	-5.25" (133mm) shaft design -Low strength values -Low friction properties -Metal detectable -Machined blade
	Votator II Thermutator 410 SS	LL926752 LL926752M1 LL926752M2 133029+	\$\$\$\$\$	None	Medium to high viscosity, heat sensitive and abrasive products, licorice, cheese sauce, pudding, and banana puree	-Hard metal -5.25" (133mm) shaft design -Corrosion resistant -High sharpening cost



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