MagTraps



CESCO™ In-Line Magnetic Separators

MagTrap Models 110, 130, 135, 135AS, 135EC, 135UF, 145, and 170 for liquids, purees, and non-fragile solids

Applications

These magnetic separators are typically used when processing beverages and juices, batters, chopped foods, custards, pulped fruits and vegetables, jellies, minced meats, sauces and soups, syrups, and other products where they are placed in front of pumps, screens, or mills to protect equipment from damage, or in front of fillers to ensure product quality.

Description

Powerful, rare-earth, magnets in proprietary configurations capture and hold ferrous or work-hardened trash from nuts and bolts to stainless steel fines as small as 0.0001 inches in diameter from process and transfer lines. Separator bodies are machined from solid or low magnetic permeability centrifugal cast 316 Stainless Steel with food grade gaskets.

Mounting

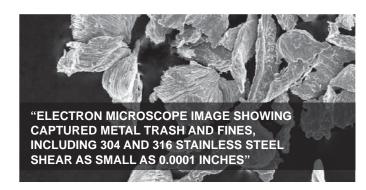
Units can be mounted in vertical, horizontal, or sloped positions without affecting capture and hold rate. For CIP (clean in place) systems, without a sump, all separators should be mounted vertically.

Connectors

MagTraps can be supplied with your choice of connectors – and with different inlet and outlet sizes. Tri-Clamps or weld-ends are the standard. To assure the correct weld-end match please specify both inside and outside diameters.

Operating Ranges 300° F. and 200PSI

Certified Sanitary USDA AMS NSF/ ANSI/ 3-A14159-1 2002









Specific Model and Sizing

Refer to Tables A, B, and C. Use Table "A" to select your application's product viscosity. Use Table B to match your application's product viscosity with pumping capacity to select model or line size. When operating at or close to a MagTrap's upper flow capacity we recommend moving up to the next size.

Table A. Product Viscosity

Class 1	Class 2	Class 3	Class 4
Fluids and Strained Products	Pulped Products	Viscous Products	Very Viscous Products
thin salad dressings, thin soups, warm jellies, clear broths, beverages, juices, light sauces	applesauce, pulped fruits and vegetables, custards, syrups, cranberries, hot preserves, baby foods	pumpkin filling, chopped foods, creamed cheese, frozen slush, heavy sauces, batters, heavy purees	nut butters, slow flowing products, cooled products, minced meat, thick batters, pet foods

Table B. Maximum Pressures in Pounds per Square Inch (Bar)
Maximum Flow Capacity in Gallons Per Minute (Liters Per Minute)

		MAXIMUM	MAXIMUM FLOW CAPACITY			
MODEL	LINE SIZE	PRESSURE	CLASS 1	CLASS 2	CLASS 3	CLASS 4
110	.5 - 1"	200 (13.8)	4 (15)	3 (11)	1.6 (6)	0.8 (3)
135	1.5" - 2"	200 (13.8)	95 (360)	67 (252)	38 (144)	19 (72)
	2.5" - 3"	180 (12.4)	187 (708)	131 (495)	75 (284)	37 (142)
	4"	180 (12.4)	252 (954)	176 (668)	101 (382)	50 (191)
130	6"	75 (5.2)	560 (2120)	392 (1484)	224 (848)	112 (424)
145	.75" - 1"	150 (10.3)	45 (170)	32 (119)	18 (68)	9 (34)
170	1.5" - 2.5"	750 (51.7)	75 (284)	53(199)	30 (114)	15 (57)

Table C. Food Grade L-ring Gaskets

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PROPERTY	EPDM(Std.)	BUNA-N	VITON					
Temperature Range	-50 to 400°F	-20 to 225°F	-15 to 400°F					
Acid resistance	fair	good	excellent					
Alkali resistance	good	fair	good					
Veg. Oil resistance	poor	excellent	excellent					
Steam, to 350°F	good	poor	poor					

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