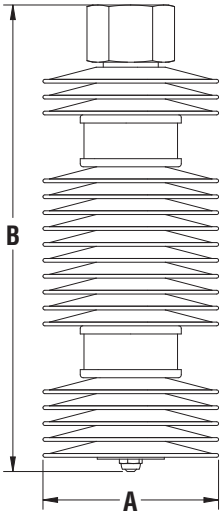
Magnetic Disc Sump Strainers

Model ML-G

Lenz Model ML-G Strainers add magnetic separation to the efficient straining action of the stacking disc design. Powerful Alnico magnets attract iron particles to the disc covers and away from the stainless screen. Oil passing through the center of the magnets gets a secondary cleaning action. The magnets are an integral part of the assembly, not just an add-on feature. Meets J.I.C. specifications calling for magnetism in hydraulic systems. Die cast aluminum pipe adapters effectively isolate Lenz Magnetic Disc Sump Strainers from steel intake piping. When the unit is disassembled, the iron particles simply drop off the disc covers. These units may be ordered with 100, 60, or 30 mesh wire screen. (See pg. 58a for mesh sizes)

ML-G Series



Dimensional Details

Model Numbers	GPM	Pipe Size NPT	Dimensions		Magnets No. & Dia.	Disc	Filter Area* (Sq. In.)
			A	B			
ML75G5	5	3/4"	3 3/4"	5"	1–2"	8	64"
ML75G8	8	3/4"	3 3/4"	6 1/2"	1–2"	12	96"
ML100G10	10	1"	3 3/4"	9 3/8"	2–2"	16	128"
ML125G20	20	1 1/4"	4 1/4"	11 1/4"	2–3"	21	214"
ML150G30	30	1 1/2"	5"	11 3/8"	2–3"	21	307"
ML150G50	50	1 1/2"	5"	13 7/8"	3–3"	25	365"
ML200G60	60	2"	6"	10 1/8"	2–3"	18	380"
ML200G75	75	2"	6"	11 5/8"	2–3"	22	464"
ML250G85	85	2 1/2"	6"	12 3/8"	2–3"	24	507"
ML250G100	100	2 1/2"	6"	14 7/8"	3–3"	28	591"

*NOTE: *area based on following: 8.0 sq. in. per 3 3/4" disc • 10.2 sq. in. per 4 1/4" disc • 14.6 sq. in. per 5" disc • 21.1 sq. in. per 6" disc*

Magnetic Compact Disc Strainer

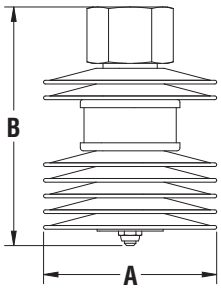
Model MD

Lenz Model M D Strainers combine magnetic separation and low profile disc construction. A cylindrical magnet mounted between discs makes a concentrated magnetic field through which all oil passes.

- Available on special order: 6" dia. discs which have 21.1 sq. in. screen area per disc, 3/4" or 1" NPT pipe size.

Model Number	Pipe Size NPT	A	B Height	Discs	Area Sq. In.	MAGNETIC NO. & DIA.
37MD1	3/8"	3 3/4"	2"	1	8"	1
37MD2	3/8"	3 3/4"	2 3/8"	2	16"	1
37MD3	3/8"	3 3/4"	2 3/4"	3	24"	1
50MD1	1/2"	3 3/4"	2 1/8"	1	8"	1
50MD2	1/2"	3 3/4"	2 1/2"	2	16"	1
50MD3	1/2"	3 3/4"	2 7/8"	3	24"	1
50MD5	1/2"	3 3/4"	3 5/8"	5	40"	1
75MD3	3/4"	3 3/4"	3 1/4"	3	24"	1
75MD4	3/4"	3 3/4"	3 5/8"	4	32"	1
75MD5	3/4"	3 3/4"	4"	5	40"	1
100MD6	1"	3 3/4"	4 5/8"	6	48"	1
100MD7	1"	3 3/4"	5"	7	56"	1

MD Series



See pg. 57a for view of screen

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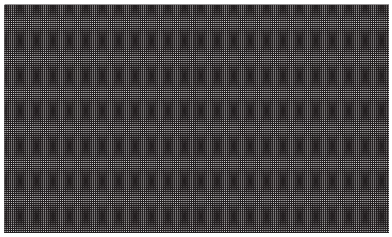
FILTERS – ACTUAL SIZE MESH

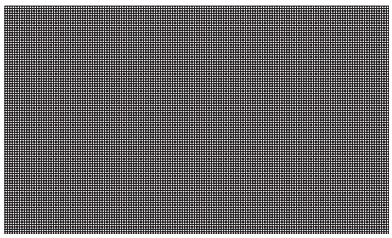
LENZ Cleanable Wire Cloth Filters are equipped with Stainless Steel Wire Cloth Elements. The filtering insert elements are available from a coarse 30 mesh up to a fine 200 mesh. To better illustrate mesh sizes, we have shown below the actual size mesh of the 100, 80, 60, 50, 40, and 30 mesh stainless steel wire screen. **The most common are 200, 100, 60, and 30 Stainless Steel Wire Mesh Screen. (100 Mesh LENZ Standard)**

200 Mesh
Wire diameter .0021
Width of opening .0029
Microns = 74
33.6% of open area

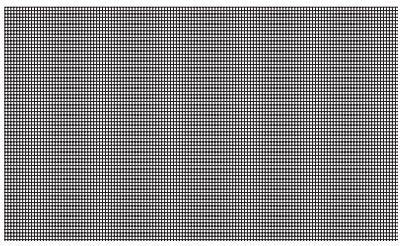
150 Mesh
Wire diameter .0026
Width of opening .0041
Microns = 105



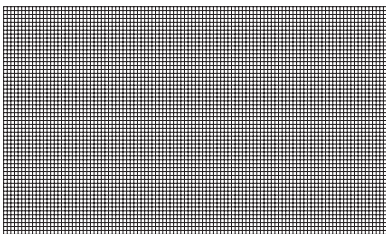
100 Mesh
Wire diameter .0045
Width of opening .0055 = 141 Microns
30.3% of open area



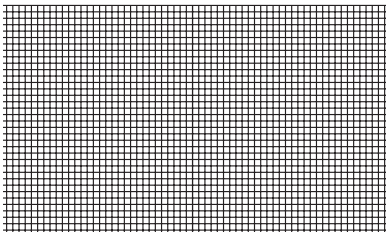
80 Mesh
Wire diameter .0055
Width of opening .0070 = 180 Microns



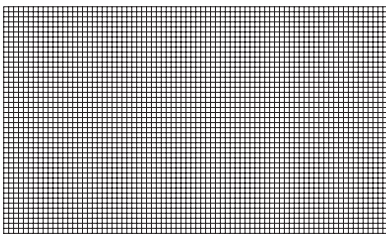
60 Mesh
Wire diameter .0065
Width of opening .0102 = 262 Microns
37.5% of open area



50 Mesh
Wire diameter .0080
Width of opening .0120 = 308 Microns



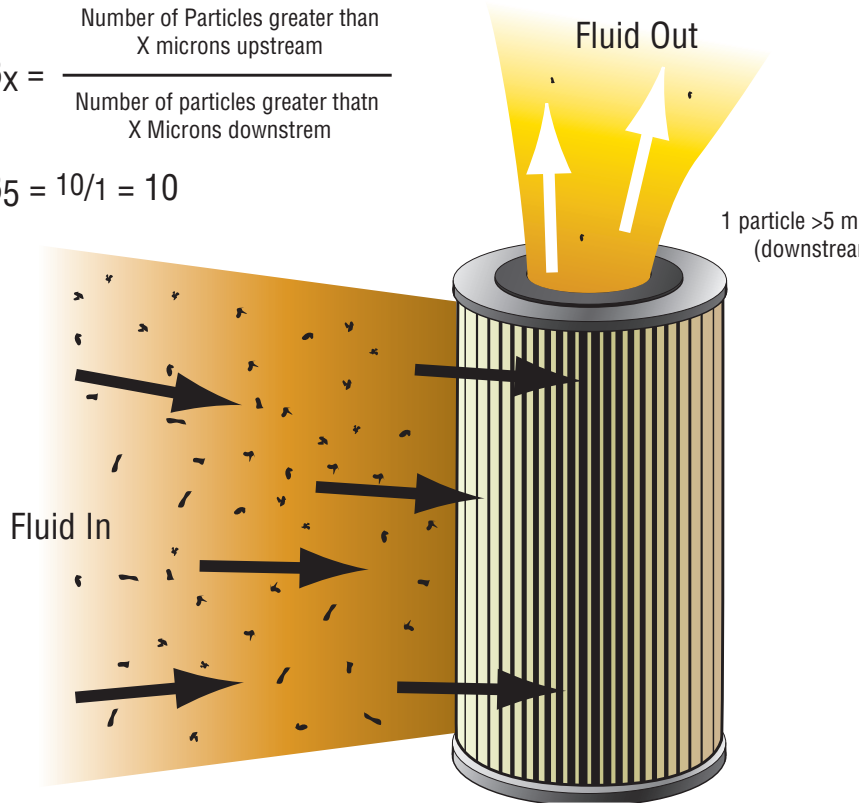
30 Mesh
Wire diameter .0120
Width of opening .0213 = 546 Microns
44.8% of open area



40 Mesh
Wire diameter .0100
Width of opening .0150 = 385 Microns
36% of open area

$$\beta_X = \frac{\text{Number of Particles greater than X microns upstream}}{\text{Number of particles greater thatn X Microns downstrem}}$$

$$\beta_5 = 10/1 = 10$$



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