



Sump Strainers

A49 Aluminum Nuts

Aluminum Hex Pipe Nut Coupling:
In a full range of NPT sizes, 3/8" thru 6". Welded on.

Steel Support Tube:
Provides rigidity, permits easy cleaning and better flow.

Pleated, Reusable Stainless Wire Cloth:
Keeps its shape and allows better flow. For use with hydraulic fluids, oils, coolants, cutting oils and lubricants. Excellent for mobile equipment. Easily cleaned. Choice of 30, 60, 100 or 200 mesh. See Ordering Code.

Plated Steel Cap End:
Epoxy-bonded for one-piece construction.

Trouble-Free Positive Protection:
No organic elements to deteriorate. These smooth, one-piece, epoxy-bonded units are carefully and compactly constructed with quality materials throughout. They assure trouble-free, positive protection for the entire system. Excellent for mobile equipment.

Easily Installed and Cleaned:
Easily removed and cleaned with gasoline and similar solvents.

OPTIONAL:
Bypass Valves
3 PSI/ 6" HG \pm 10% / 5 PSI/ 10" HG \pm 10%

Operating Temperature
15°F (-9°C) to 212°F (100°C)

Magnetic Bands
Optional magnets are available

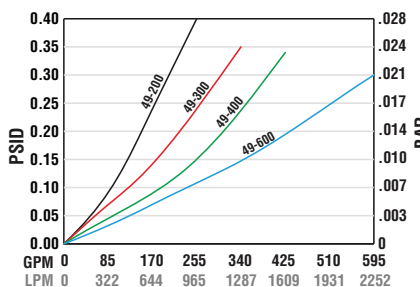
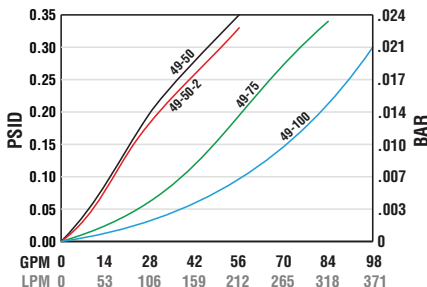
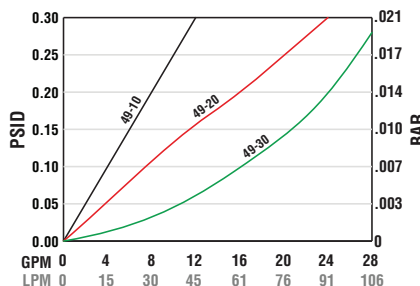
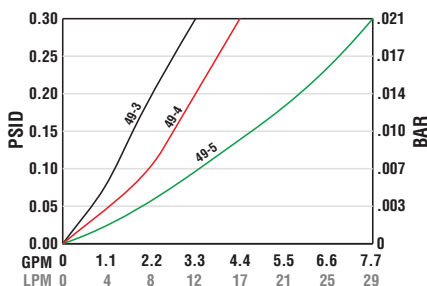


OPTIONAL
Built-in relief valve to prevent pump starvation
Add R3 or R5



A49-XX-XXX-MAG

49 Series Performance Graphs



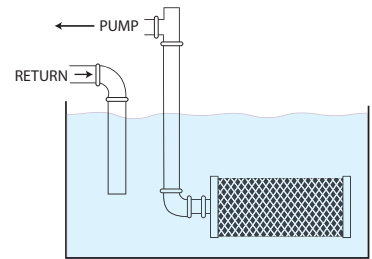
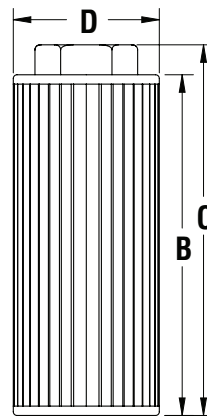
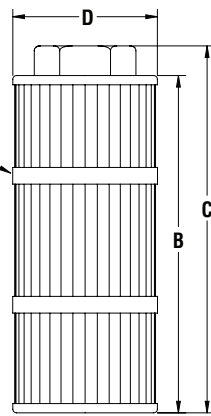
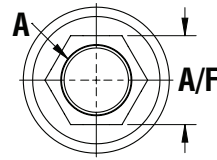
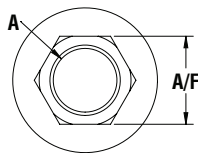
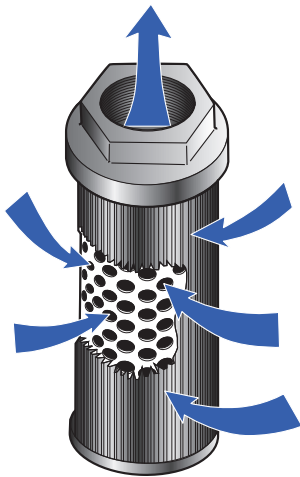
Temperature 100° F Viscosity 150 SUS
Average pressure drop through clean strainer

See Technical Bulletin TB.FIL17.708, TB.FIL19.708, or further information at (Technical Data – www.lenzinc.com)

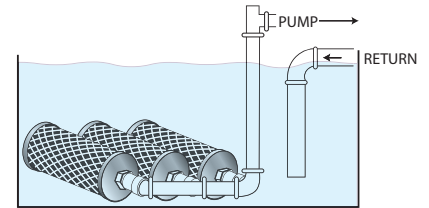
Strainer Ordering Code

A49 — 20 — R3 — 100 — MAG

Series	Flow	Size	Bypass	Mesh	Options
A49	2	1/4" NPT	Omit NO Bypass	100 100 Mesh (Standard)	Omit
	3	3/8" NPT	R3 3 PSI Bypass	30 30 Mesh	MAG Magnets
	5	1/2" NPT	R5 5 PSI Bypass	60 60 Mesh	
	8	3/4" NPT		200 200 Mesh	
	10	1" NPT			
	20	1 1/4" NPT			
	30	1 1/2" NPT			
	50	1 1/2" NPT			
	50-2	2" NPT			
	75	2 1/2" NPT			
	100	3" NPT			
	150	3" NPT			
	450	6" NPT			



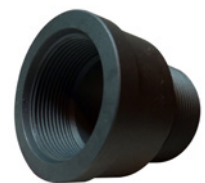
Typical Single Unit Installation



Typical Multiple Unit Installation

Dimensional Details

Flow Model	GPM / LPM	NPT Port	A	B	C	D	Hex A/F	Area in ² / (cm) ²	Optional Magnet	
									Quantity	Part#
A49-2	2 GPM 8 LPM	in mm	1/4	3.1 77	3.5 90	1.8 46	0.9 24	29 (187)	1	1.9-100
A49-3	3 GPM 11 LPM	in mm	3/8	3.1 77	3.5 90	1.8 46	0.9 24	29 (187)	1	1.9-100
A49-5	5 GPM 20 LPM	in mm	1/2	3.7 94	4.1 105	1.8 46	1.2 30	35 (226)	2	1.9-100
A49-8	8 GPM 30 LPM	in mm	3/4	3.7 94	4.3 109	2.5 64	1.4 35	63 (406)	2	2.5-100
A49-10	10 GPM 40 LPM	in mm	1	4.9 124	5.5 139	2.5 64	1.8 46	84 (542)	2	2.5-100
A49-20	20 GPM 80 LPM	in mm	1 1/4	4.9 125	5.5 139	3.4 86	2 51	144 (929)	2	3.2-100
A49-30	30 GPM 120 LPM	in mm	1 1/2	6.1 154	6.6 168	3.4 86	2.4 60	180 (1161)	2	3.2-100
A49-50	50 GPM 200 LPM	in mm	1 1/2	7.3 186	7.9 200	3.4 86	2.4 60	216 (1393)	2	32.-100
A49-50-2	50 GPM 200 LPM	in mm	2	9.6 245	10.2 260	3.9 100	2.8 70	315 (2032)	2	3.8-100
A49-75	75 GPM 285 LPM	in mm	2 1/2	7.3 186	8.31 211	5.91 150	3.54 90	432 (2787)	3	6-100
A49-100	100 GPM 380 LPM	in mm	3	9.7 247	10.7 272	5.9 150	3.9 100	570 (3677)	3	6-100
A49-150	150 GPM 600 LPM	in mm	3	12.6 320	13.6 345	5.9 150	3.9 100	750 (4838)	3	6-100
A49-450	450 GPM 1704 LPM	in mm	6	18 457	20 510.5	8.0 205	7 177.8	1840 (11870)	4	8-100



AN-WM Weld Adapter

See page 57a
up to 2" NPT

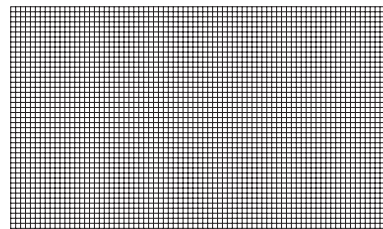
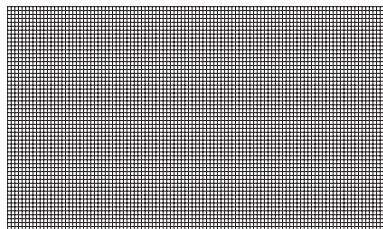


FILTERS – ACTUAL SIZE MESH

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

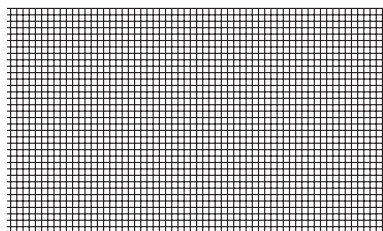
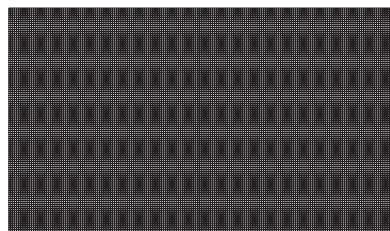
Wire diameter .0026
Width of opening .0041
Microns = 105

50 Mesh

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

40 Mesh

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

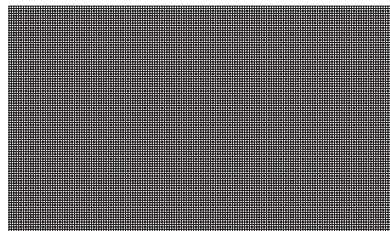


100 Mesh

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

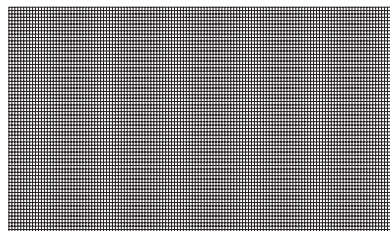
30 Mesh

Wire diameter .0120
Width of opening .0213 = 546 Microns
44.8% 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

$$\beta_x = \frac{\text{Number of Particles greater than X microns upstream}}{\text{Number of particles greater than X Microns downstream}}$$

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

