Sump Strainers - Water

WN-49-SS

Nylon Hex: NPT sizes, 2" thru 3".

Stainless 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 water, 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.

Nylon 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.

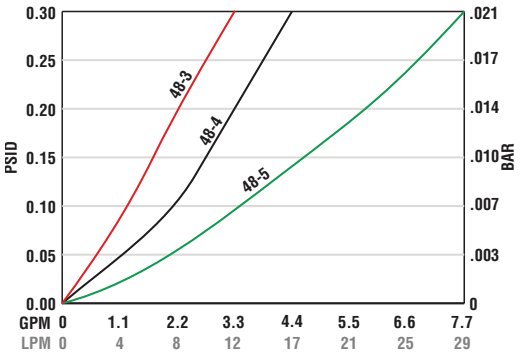
Easily Installed and Cleaned: Easily removed and cleaned with gasoline and similar solvents.

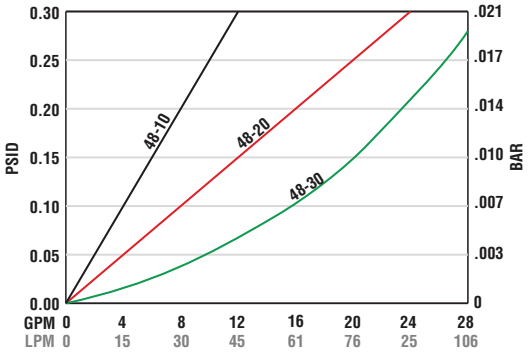
OPTIONAL: For other sizes Consult Factory (made to order).

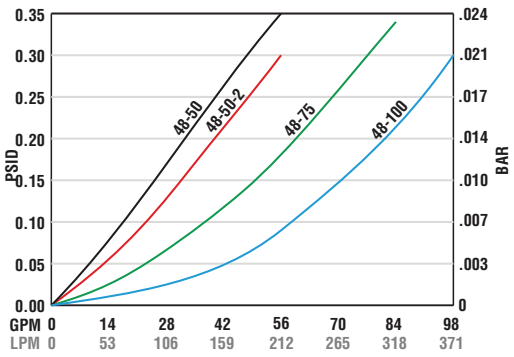
Optional Bypass Valves 3 PSI/ 6" HG ± 10% / 5 PSI/ 10" HG ± 10%

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

48 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)

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Strainer Ordering Code

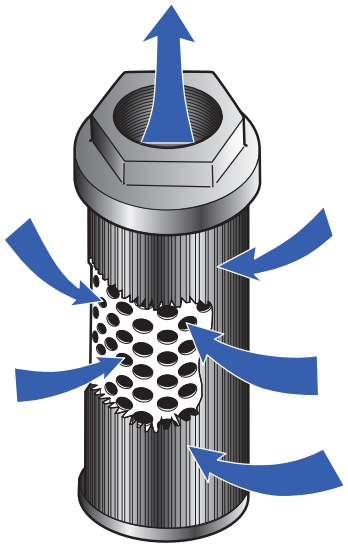
WN-49 — 50 — R3 — 100 — SS

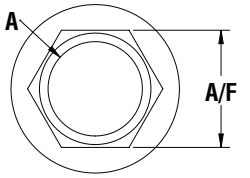
Series
WN-49
WN-48

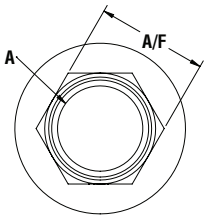
Flow	Size
50-2	2" NPT
75	2 1/2" NPT
100	3" NPT

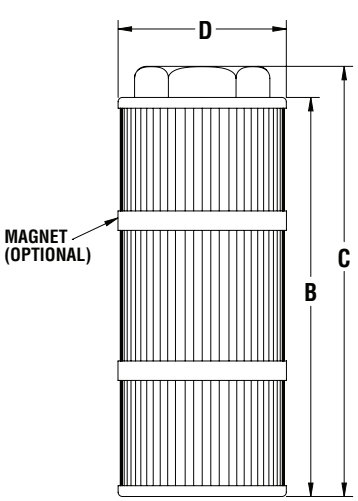
Bypass	
Omit	NO Bypass
R3	3 PSI Bypass
R5	5 PSI Bypass

Mesh	
100	100 Mesh (STANDARD)
30	30 Mesh
60	60 Mesh
200	200 Mesh

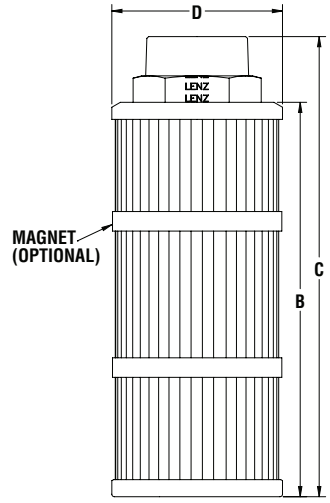




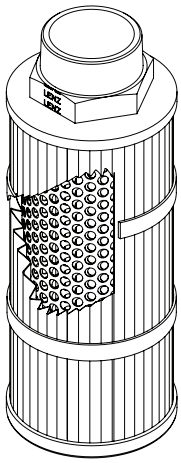


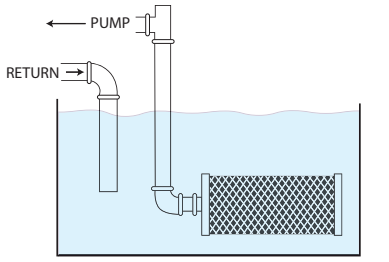


WN-49

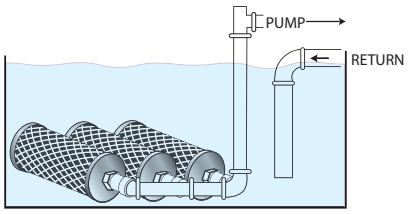


WN-48





Typical Single Unit Installation



Typical Multiple Unit Installation

WF-SS Weld Flange

See page 53a

Dimensional Details

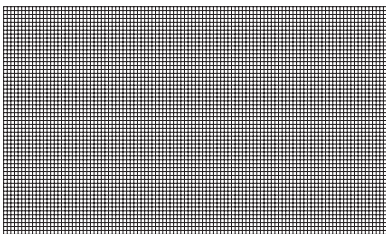
Model Nylon	Flow		A	B	C	D	Area in² (cm)²	A/F Hex	Optional Magnet	
									Quantity	Part#
WN-49-50-2	50 GPM 200 LPM	in mm	2"	8.6 219.5	10 254	4 102	340 (2193)	2.76 70	2	30-50
WN-49-75	75 GPM 285 LPM	in mm	2-1/2"	8.5 215.5	10.2 254	5.2 131	400 (2580)	3.35 85	3	5-100
WN-49-100	100 GPM 380 LPM	in mm	3"	10.1 256.5	11.8 300	5.2 131	500 (3225)	3.74 95	3	5-100
WN-48-50-2	50 GPM 200 LPM	in mm	2"	9.09 231.1	10.6 269.6	4.02 102	320 (2064)	2.6 65	2	30-50
WN-48-75	75 GPM 285 LPM	in mm	2-1/2"	9.09 231.1	10.9 276.6	5.2 131	370 (2387)	3.3 85	3	5-100
WN-48-100	100 GPM 380 LPM	in mm	3"	10.4 264.2	12.1 309.7	5.2 131	480 (3096)	3.9 100	3	5-100

FILTERS – ACTUAL SIZE MESH

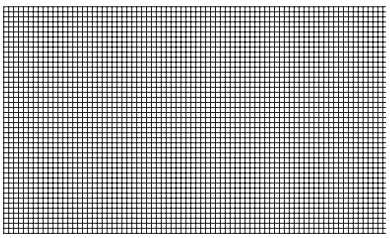
LENZ Cleanable Wire Cloth Filters are equipped with Stainless Steel Wire Cloth Elements. The filtering insert elements are available from a coarse 30 mesh up to a fine 200 mesh. To better illustrate mesh sizes, we have shown below the actual size mesh of the 100, 80, 60, 50, 40, and 30 mesh stainless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

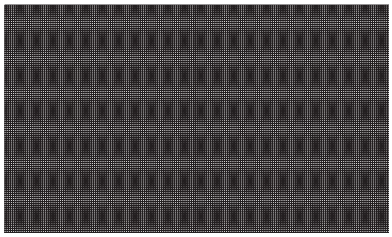
150 Mesh
Wire diameter .0026
Width of opening .0041
Microns = 105



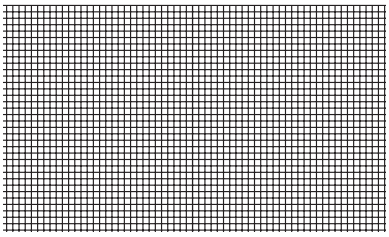
50 Mesh
Wire diameter .0080
Width of opening .0120 = 308 Microns



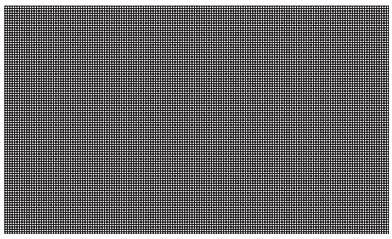
40 Mesh
Wire diameter .0100
Width of opening .0150 = 385 Microns
36% of open area



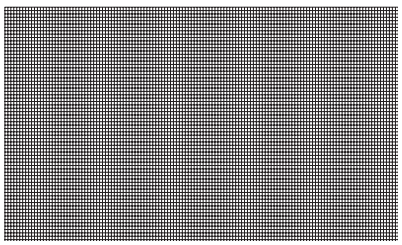
100 Mesh
Wire diameter .0045
Width of opening .0055 = 141 Microns
30.3% of open area



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



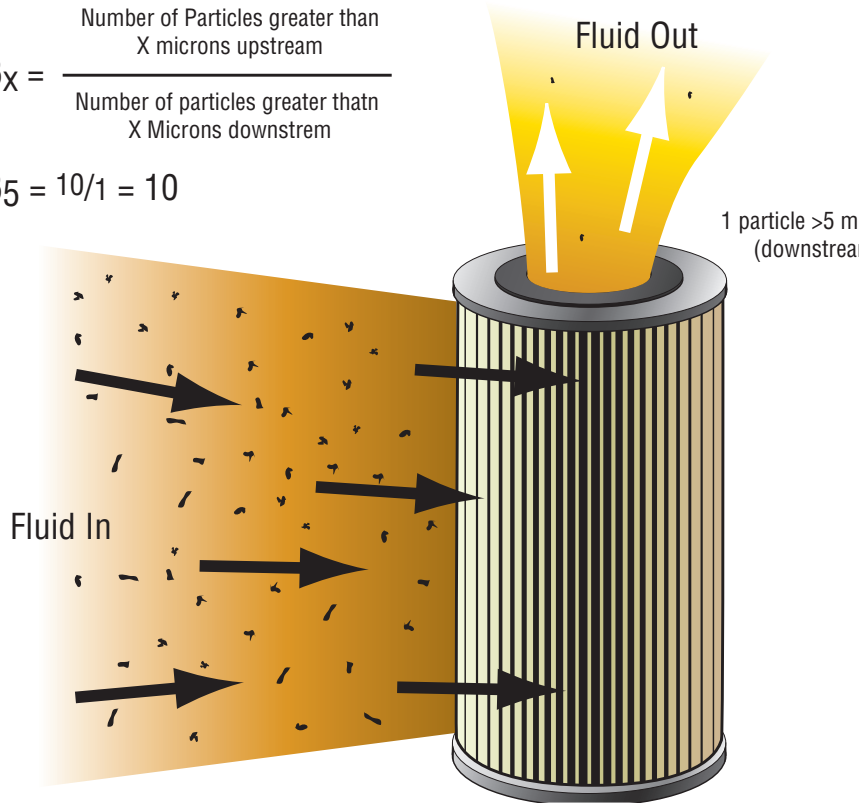
80 Mesh
Wire diameter .0055
Width of opening .0070 = 180 Microns



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

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

$$\beta_5 = {}^{10}/_{1} = 10$$



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