



# NOWATA FILTRATION



## “1L” SERIES

### cartridge filter vessels

Filters for: water flood operations, disposal systems, pollution control systems, glycol dehydrators, and industrial uses.

#### “1L” Series Features

- 1, 2, 3 or 4 Cartridge Models
- 200 PSI Working Pressure
- T-Handle Closure Nut
- Buna Shell Gasket
- All Cast Iron/Carbon or Stainless Steel Construction Available
- One Piece Body Construction
- 1” Internal Pipe Thread Connection
- 1/8” Internal Pipe Thread Drain Standard
- Gases or Fluid Filtration
- Water Flow Rates to 24 GPM
- Glycol Flow Rates to 15 GPM

#### General Information

The “1L” Series filters are available in 1, 2, 3 or 4 cartridge length models at a 200 psi working pressure. These low cost, high quality filters are designed for industrial and commercial service. These filters are ideal for many low pressure glycol and amine applications. The head mounts directly in the flow line. The filter may be mounted in any position. Fluid enters one side of the head, marked “IN”, and is channeled to the area around the cartridges. The fluid or gas passes through the cartridges into the center and out the other side of the head, marked “OUT”. The single piece body is sealed to the head by a fixed rigid center rod and T-handle closure nut. As the T-handle is

tightened, the body and cartridge are firmly sealed against the head and gasket. The T-handle, standard on the “1L” Series, is an option on many other brands. Each model has, as standard, a plugged 1/8” internal pipe thread drain in the bottom of the body.



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# Standard Construction for Liquid and Gas Filtration

## “1L” and “1LU” Series

The cast head has in line 1” internal pipe thread inlet and outlet connections. The tubular body and welded end closure are made of carbon or stainless steel. A Buna shell gasket is held in a machined groove in the head. The head and body are pulled together by a T-handle nut threaded to a rigid, fixed center rod which is an integral part of the body. As the T-handle is turned, the body is sealed firmly to the head. The T-handle eliminates the need for wrenches or tools. The cartridge is sealed in place as the T-handle is tightened. A Buna washer seals between the T-handle nut and head. The 2C model uses either two stacked single length 9-3/4”

cartridges or one single 19-1/2” length cartridge. The 3C model holds one 29-1/4” long cartridge or three single length 9-3/4” cartridges. The 4C model holds one 40” long cartridge. All wetted parts of the “1L” Series are cast/carbon and the “1UL” Series are stainless steel. A knife edged stand welded to the body center rod creates both a positive cartridge seal and a contaminant sump area. All models include one set of cartridges installed. The 1, 2, 3 or 4 cartridge models are available for 200 psi working pressure at a maximum temperature of 250°F.

## Special Features of the “1L” Series

The Following Features Offer Special Benefits at No Extra Cost:

- Initial set of 25 Micron NP Series cartridges included.
- 1” FNPT inlet and outlet connections allow maximum flow ratings at a low pressure drop.
- Standard T-handle eliminates the need for wrenches or tools.
- Standard 1/8” FNPT body drain fitting allows draining or pressure relief.

## Dimensional Information

Model	Max Pressure (1)		Number of Cartridges	Shipping Weight		A	B	C	D	E (2)	F (3)
	PSI	KGM/SQCM		Pounds	Kilograms						
1L1N 1LU1N	200	14	1	7	3.2	14	12	11	4-1/4	3-1/2	1” FNPT
1L2N 1LU2N	200	14	2	10	4.5	24	22	21	4-1/4	3-1/2	1” FNPT
1L3N 1LU3N	200	14	3	13	5.9	34	32	31	4-1/4	3-1/2	1” FNPT
1L4N 1LU4N	200	14	4	16	6.6	44	42	41	4-1/4	3-1/2	1” FNPT

### NOTES:

- (1) Maximum allowable non-shock working pressure PSIG
- (2) Body diameter
- (3) Internal pipe thread inlet and outlet connection size

Dimensions shown in inches

