



NATIONAL LINE™ FILTERS HORIZONTAL SERIES

5405 N Blackstock Rd., Spartanburg, SC 29303 Toll Free (800) 361-5025



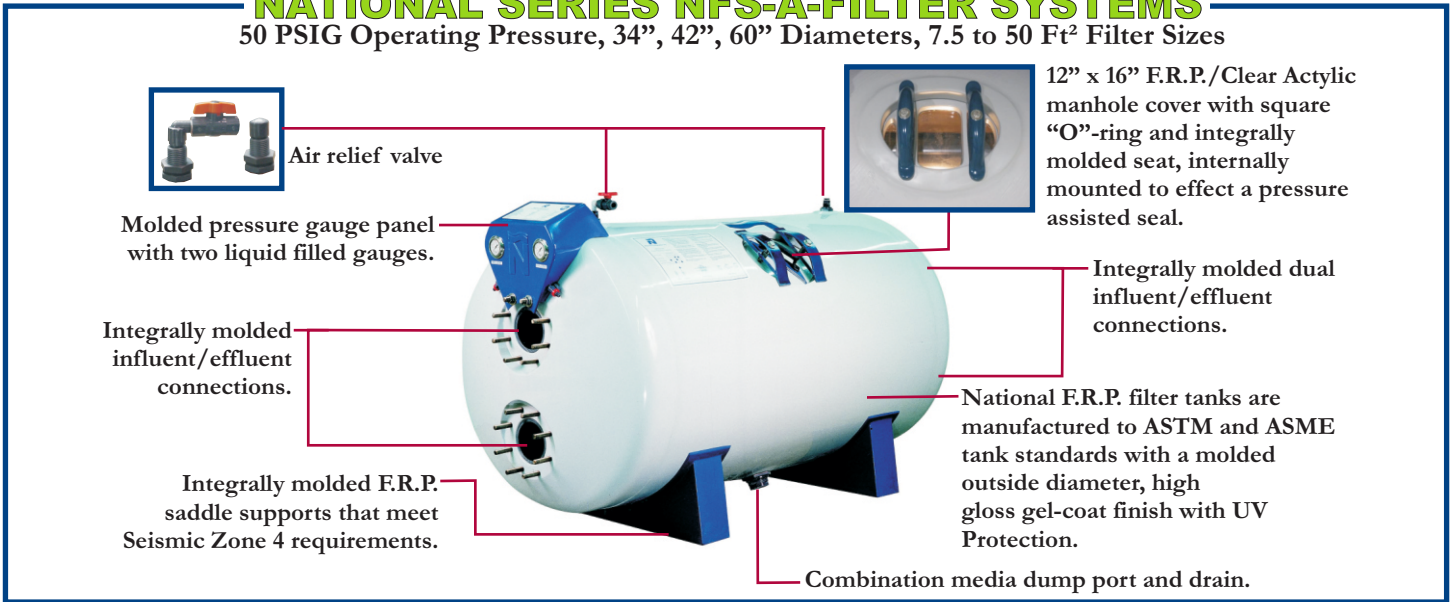
NATIONAL SERIES FILTER SYSTEMS

Nemato National Line™ filter tanks are constructed of Fiberglass Reinforced Isophthalic or Vinylester Resin (F.R.P.), all vessels are manufactured to ASTM and ASME tank standards using molded surfaces for all critical dimensions. The tanks are totally non-corrosive and have a high gloss gel-coat finish with UV protection. The filter systems are designed for working pressures of 50 PSIG or 100 PSIG with a minimum 4 to 1 safety factor.

The filter systems are shipped with all internal components in a fully assembled state. All National filter designs come with uniquely placed, integrally molded influent/effluent connections for both top piped & end piped systems, 12" X 16" integrally molded manhole seat with internally mounted F.R.P. Clear Acrylic cover, integrally molded F.R.P. saddle supports and pressure gauge panel with two (2) panel mount gauges.

NATIONAL SERIES NFS-A-FILTER SYSTEMS

50 PSIG Operating Pressure, 34", 42", 60" Diameters, 7.5 to 50 Ft² Filter Sizes



Air relief valve

Molded pressure gauge panel with two liquid filled gauges.

Integrally molded influent/effluent connections.

Integrally molded F.R.P. saddle supports that meet Seismic Zone 4 requirements.

12" x 16" F.R.P./Clear Acrylic manhole cover with square "O"-ring and integrally molded seat, internally mounted to effect a pressure assisted seal.

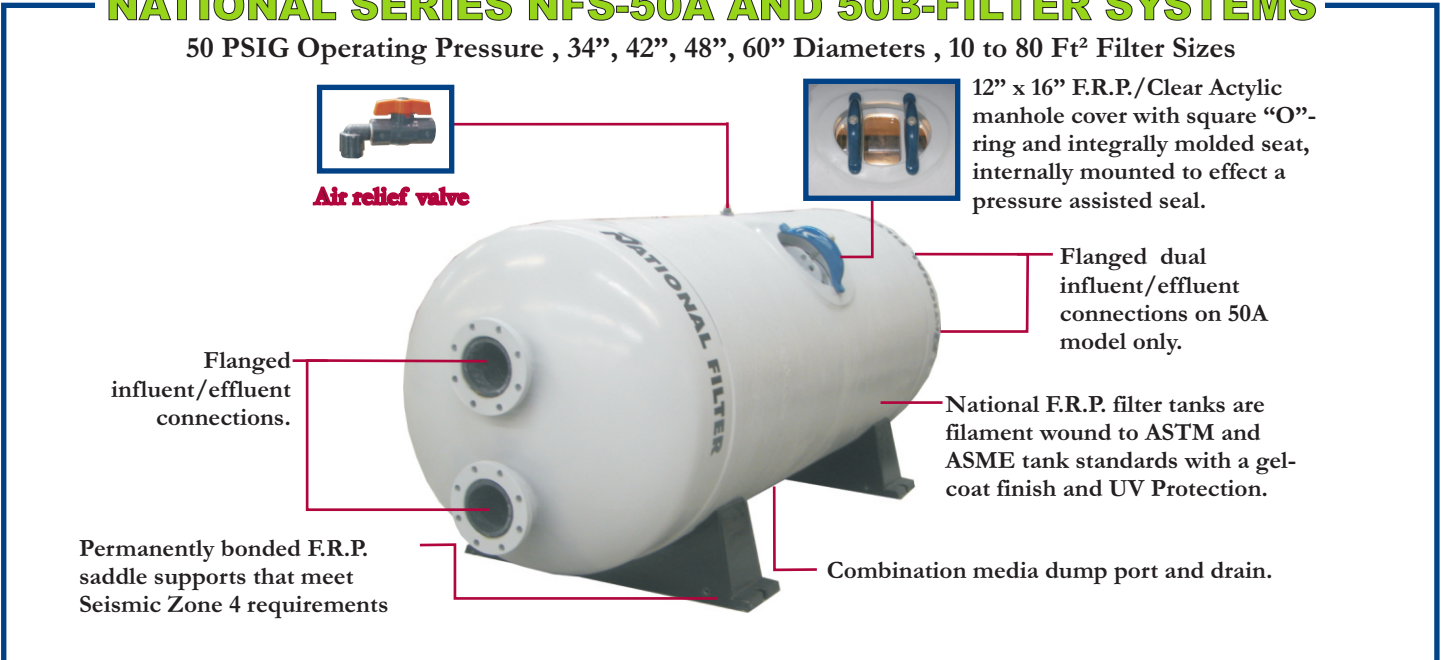
Integrally molded dual influent/effluent connections.

National F.R.P. filter tanks are manufactured to ASTM and ASME tank standards with a molded outside diameter, high gloss gel-coat finish with UV Protection.

Combination media dump port and drain.

NATIONAL SERIES NFS-50A AND 50B-FILTER SYSTEMS

50 PSIG Operating Pressure, 34", 42", 48", 60" Diameters, 10 to 80 Ft² Filter Sizes



Air relief valve

12" x 16" F.R.P./Clear Acrylic manhole cover with square "O"-ring and integrally molded seat, internally mounted to effect a pressure assisted seal.

Flanged dual influent/effluent connections on 50A model only.

National F.R.P. filter tanks are filament wound to ASTM and ASME tank standards with a gel-coat finish and UV Protection.

Combination media dump port and drain.

Flanged influent/effluent connections.

Permanently bonded F.R.P. saddle supports that meet Seismic Zone 4 requirements

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NATIONAL SERIES NFS-10A FILTER SYSTEMS

100 PSIG Operating Pressure, 34", 42", 48", 60" Diameters, 10 to 80 Ft² Filter Sizes



Air relief valve



12" x 16" F.R.P./Clear Acrylic manhole cover with square "O"-ring and integrally molded seat, internally mounted to effect a pressure assisted seal.

Flanged influent/effluent connections.

Flanged dual influent/effluent connections.

National F.R.P. filter tanks are filament wound to ASTM and ASME tank standards with a gel-coat finish and UV Protection.

Permanently bonded F.R.P. saddle supports that meet Seismic Zone 4 requirements

Combination media dump port and drain.



NATIONAL SERIES NFS-100T FILTER SYSTEMS

100 PSIG Operating Pressure, 34", 42", 48", 60" Diameters, 10 to 80 Ft² Filter Sizes

Grooved influent/effluent connections.



Air relief valve



12" x 16" F.R.P./Clear Acrylic manhole cover with square "O"-ring and integrally molded seat, internally mounted to effect a pressure assisted seal.

National F.R.P. filter tanks are filament wound to ASTM and ASME tank standards with a gel-coat finish and UV Protection

Permanently bonded F.R.P. saddle supports that meet Seismic Zone 4 requirements

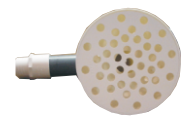
Combination media dump port and drain.



NATIONAL SERIES INTERNAL COMPONENTS



- Hydraulically Engineered ABS Distribution Lenses:
 - o Strategically placed to assure flat uniform media bed
 - o Prevents turbulence, media migration and channeling
 - o Provides broad range of flow rates (5 to 20 GPM/ ft² of filter area)
- Proprietary ABS laterals:
 - o Retains multiple types of granular filter media or single grade of #20 or #30 silica sand
 - o Strategically placed to produce minimum head loss
 - o Self-Cleaning Molded V Slot
 - o Promotes thorough media cleansing
 - o Balanced fluidization of media during backwash



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NATIONAL LINE™ SERIES S MODEL TANK ON TANK STACKING DESIGNS

50 & 100 PSIG Operating Pressure, 34", 42", 48", 60" Diameters, 10.0 to 80 Ft² Sizes



Air relief valve

Standard 50A, 50B or 10A E model filter which is ordered separately from S Model filter.

Flanged dual influent/effluent connections on 50A and 10A model only.

Flanged influent/effluent connections.

Permanently bonded F.R.P. saddle supports that meet Seismic Zone 4 requirements

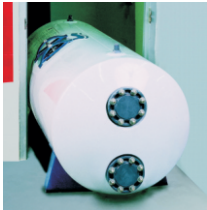
12" x 16" F.R.P./Clear Acrylic manhole cover with square "O"-ring and integrally molded seat, internally mounted to effect a pressure assisted seal.

National F.R.P. filter tanks are filament wound to ASTM and ASME tank standards with a gel-coat finish and UV Protection.

Combination media dump port and drain.

Integral hoop wound stiffening rings that meet Seismic Zone 4 requirements

NATIONAL LINE SERIES FILTER ACCESS & HANDLING SOLUTIONS



- NFS-34-A Model filters have an exterior molded surface
 - Provides dimensional control of 34" outside diameter
 - Walked through openings as small as 34 1/4"
- Lightweight modular design allows handling without special lifting equipment

NATIONAL LINE™ SERIES FILTER STACKING STANDS



- Provides reliable solution to floor space constraints
- Allows for ease of installation in limited head space (8 Ft or less in 34" & 42" models)
- Provides accurate tank to tank alignment
- Meets Seismic Zone 4 Requirements
- Independent support of top filter tank
- Facilitates individual removal of bottom filter tank
- Can be used in single tank installation for storage under the filter tank.



NATIONAL SERIES PRODUCT CERTIFICATIONS

- NSF Certified for operating temperatures up to 104°F
- NSF Certification includes isophthalic and vinyl ester resins.
- NSF Certification for both 50 and 100 psi max operating pressure depending on filter model.
- NSF Certified for use with a FRP manway cover or clear acrylic/ FRP manway cover.
- NSF Certified for fresh water/ salt-water applications.
- NSF Certified for individual or up to 8 tank filter systems operating in parallel.
- NSF Certified filter system operating valves and connecting piping.
- NSF Certified for use with Zeobrite media in accordance with manufacturers instructions.

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