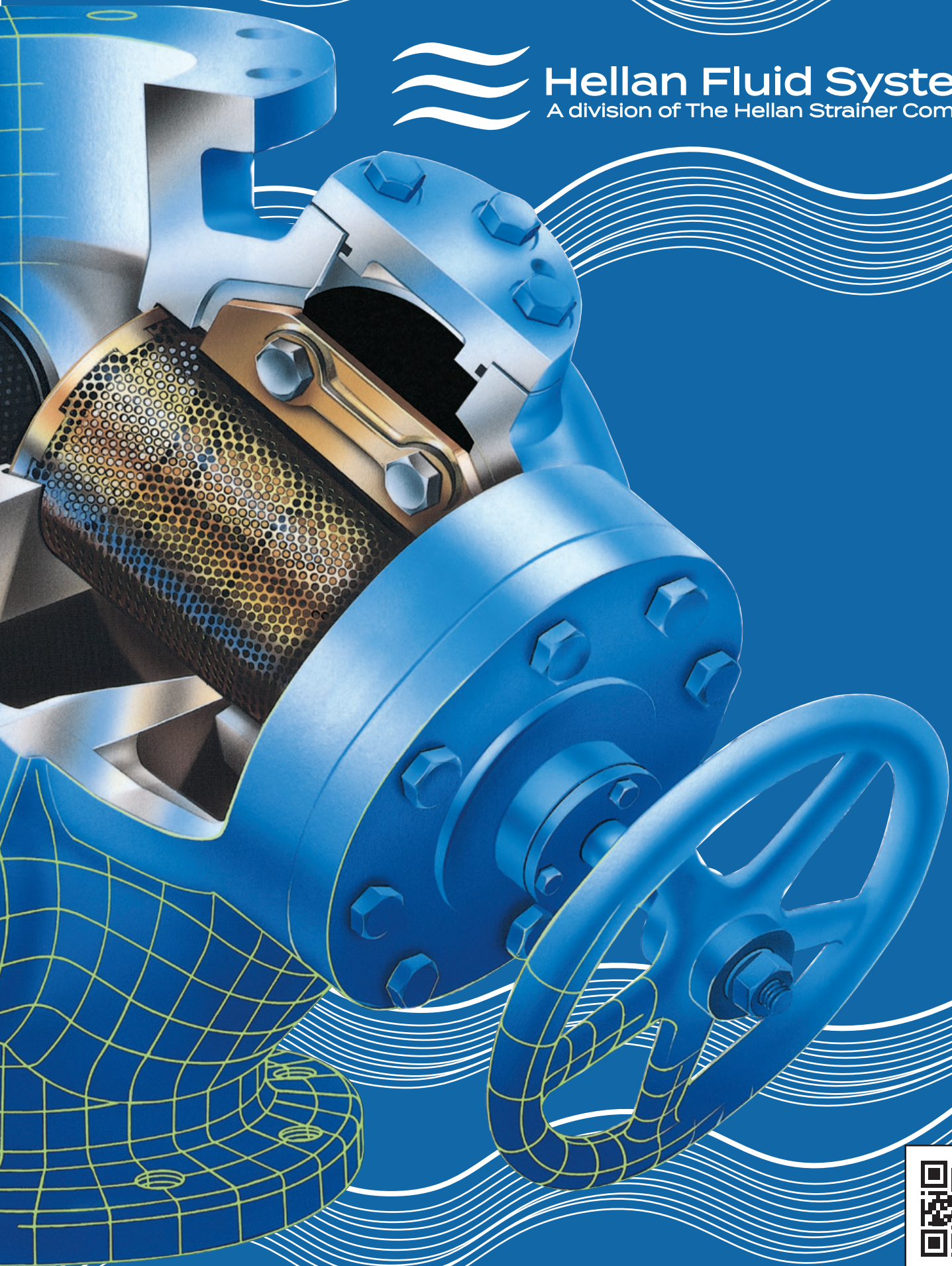




Hellan Fluid Systems
A division of The Hellan Strainer Company



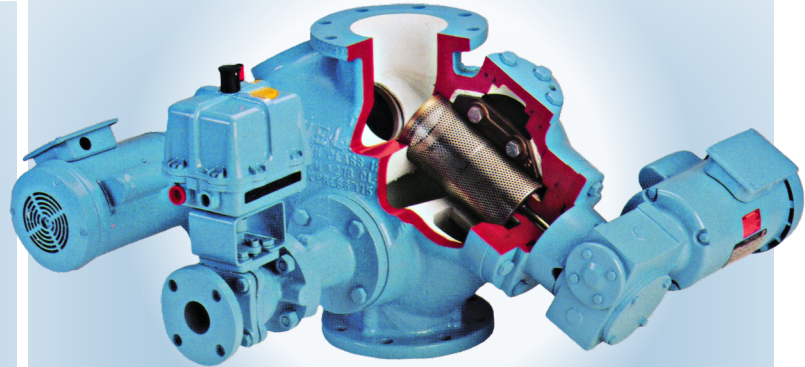
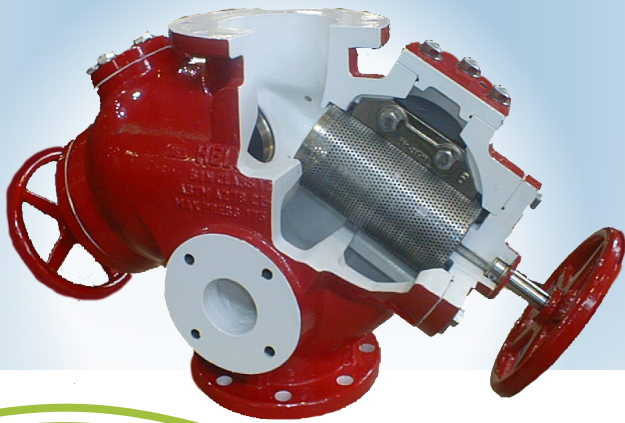
Hellan online cleanable strainers are designed for applications where automated cleaning cycle is preferred. The strainers, whether automatic or manual, are known for their reliability, efficient operation and cost savings.

Manual Cleaning Strainer

Hellan manual strainer systems are manufactured in sizes ranging from 1-1/2" to 20" in 6 body styles to match application requirements.

- Type AH - angled flow body, single screen
- Type TSH - in-line flow body, single screen
- Type DH - in-line flow body, two screens
- Type QH - in-line flow body, four screens
- Type XH - in line flow body, four screens
- Type HH - in-line flow body, six screens

Hellan industrial manual strainers employ handwheel equipped rotating screen(s) paired with a rigid scrapper bar to remove solids from the screen. Cleaning is accomplished by opening a valve on the sump flush line after rotating the handwheel.



Automatic Self Cleaning Strainer

Hellan automatic self cleaning strainer systems are manufactured in 1-1/2" to 36" in the body types:

- Type AA - angled flow body, single screen
- Type TSA - in-line flow body, single motorized screen
- Type DA - in-line flow body, two screens
- Type QA - in-line flow body, two screens
- Type XA - in-line flow body, four screens
- Type HA - in-line flow body, six screens
- Type WSA - fabricated in-line flow body, one screen
- Type WDA - fabricated in-line flow body, two screens

Automatic strainers provide hands free operation by employing electric motors to rotate the screen(s) against the rigid scraper bar followed by the actuator opening the drain valve.

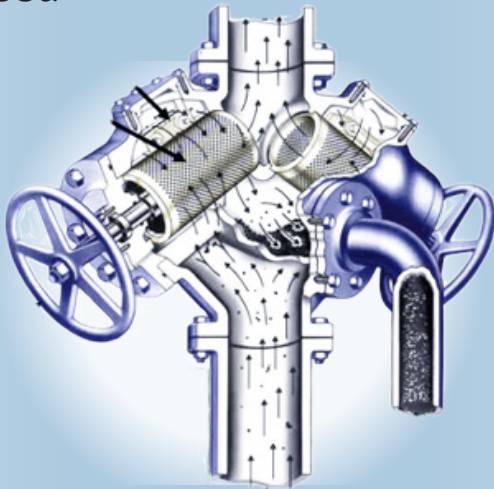


Hellan Products

Instead of trapping solids like conventional basket strainers that necessitate frequent basket removal for cleaning, the Hellan Strainer discharges solids from the flow without disassembly. This difference reduces operational and maintenance costs and permits continuous flow of fluids.

Hellan strainers remove:

- algae
- zebra mussels
- sand
- grit
- debris
- machine cutting chips
- ect.



Since the degree of straining required differs widely by application, a broad selection of perforated metal screen sizes are offered, as well as screens utilizing fine wedgewire filtration.



20" XQuad Hellan Strainer



14" D-Type
Hellan Strainer

The nature of the fluid to be strained determines the material of the casting.

- Cast iron models are most common for fresh water applications.
- Cast steel can be used for higher pressure or where water hammer occurs.
- Stainless steel is used for highly corrosive fluids and bronze is used for seawater applications.

Hellan Strainers are cast in sizes from 1- 1/2" to 20" and fabricated in larger sizes.



20" WDA Hellan Strainer





6" FB1

Basket Strainer (FB Series)

Features:

- Fabricated construction
- Filtration down to 40 micron
- Both compact and high capacity units are available
- Large strainer baskets

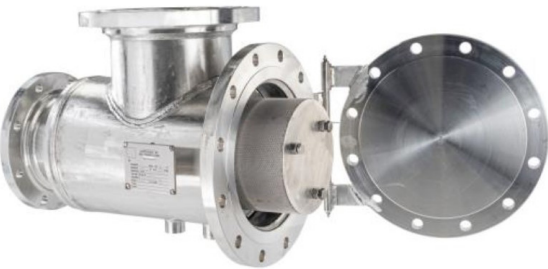
Tee Strainer (FT Series)

Features:

- Horizontal and Vertical installation
- Three flow configurations



2" FT1



16" x 14" FF

Suction Diffuser (FF Series)

Features:

- Strainer, flow straightener, elbow & pipe reducer
- For pump applications

Y-Strainer (FY Series)

Features:

- Low pressure drop streamlined design
- Large strainer screens
- Installation in both horizontal and vertical pipelines



8" FY1





10" FD 3

Duplex Strainer (FD Series)

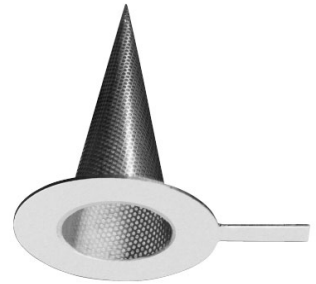
Features:

- Dual strainers for online maintenance
- Multiple configurations

Temporary Strainers (TB, TC & TP Series)

Features:

- Cone, Basket & Plate strainers
- 100 to 300% open area ratio (OAR)



20" FA 1

Automatic Strainer (FA Series)

Features:

- Complete control system
- Intermittent or continuous mode
- Self cleaning (auto backwash)

SSI products are custom designed to meet open area ratios required for individual projects.

Basket Materials:

- Stainless steel
- Most alloys

Body Materials:

- Cast iron
- Carbon Steel
- Stainless Steel
- Monel, hastalloy C276, ect.

Options:

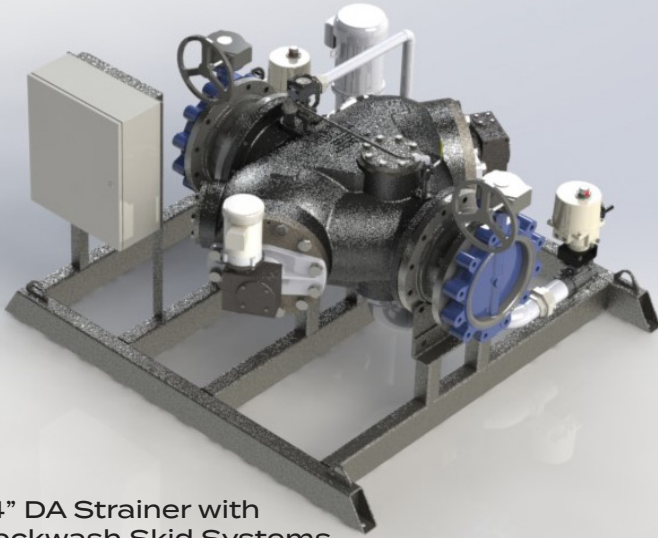
- Jacketed to accommodate (Steam, Hot Oil, Glycol, etc.)
- Internal linings
- Vent (float or thermostatic)
- Different taps
- DP gauges or transmitters
- Manual or automatic scraper kit installed
- Multiple styles of closures available





Hellan
Fluid
Systems

Engineered Products



14" DA Strainer with
backwash Skid Systems

Pre-fabricated, offsite construction represents an evolution in the Healthcare, Pharmaceutical, Life Science, and Industrial buildings sectors. The Life Science industry has been at the forefront, leading these technologies in their construction practices. Currently, an average of 63% of new construction projects in the Life Science Industry use pre-fabricated skid systems and off-site construction practices to drive their construction strategies.

Many of the advantages that can be recognized are:

- Complete custom engineered design for each client project including 3-D modeling
- Schedule certainty
- Elimination of weather delays
- Plug and play installations with single point mechanical connections
- 5-10% less construction waste onsite
- Improves construction lead time by 25-30% in time to competition and operation
- Labor costs can bury a project's bottlenecks at times. Pre-fabrication in a fixed environment can bring about a 15-20% reduction in Labor Cost
- Enhanced safety



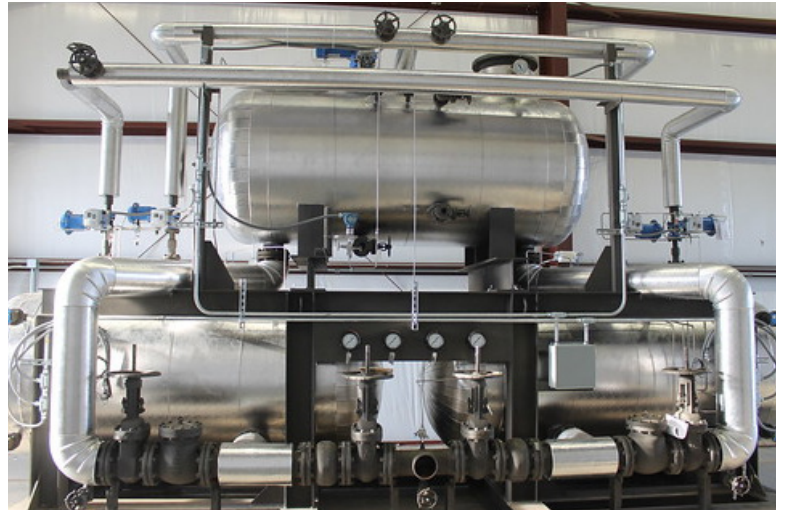
Skid Systems with
TSA Type Automatic Strainers



SSI Fabricated ASME Tanks and Vessels are fabricated according to customer design and specifications.

Types of Tanks:

- Accumulators
- Condensate Receivers
- Blow Down Tanks
- Flash Tanks
- Processing Tanks
- Mixing Tanks
- Surge Tanks
- Pressure Piping
- Custom Requests



Materials:

- Carbon Steel
- Stainless Steel
- Other exotic alloys also available

Sizes up to 12' diameter, 40' long and weighing up to 15,000lbs. Larger sizes are available upon request

Internal linings and special paint accommodations available.



Applications:

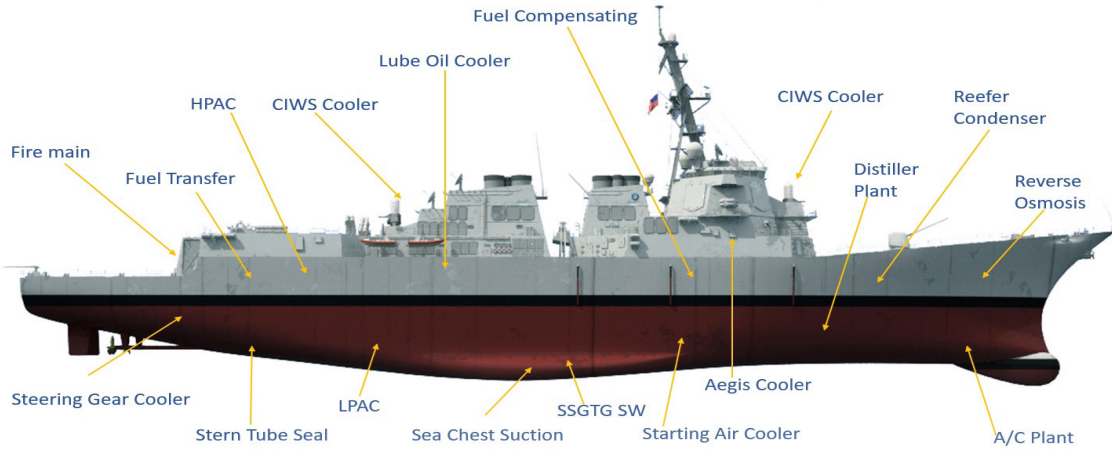
- Process Industry
- Metals & Mining
- Power Industry
- Water & Waste
- Chemical Industry
- Pulp & Paper
- Oil & Gas





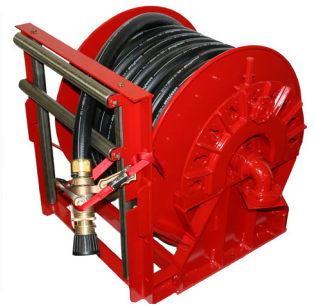
Hellan
Fluid
Systems

Maritime



Military online cleanable strainers are used on military ships throughout the world for seawater cooling of sonar, radar; close in weapons systems, and more. Other marine applications include: Lube Oil Systems, Firemain Systems, Fuel Filtration systems. Hellan Strainer's military automated strainers have been named by the United States Navy as the "strainer of choice" for the fleet, along side navies such as those in Australia, Canada, UK and others.

Hellan Strainer purchased a military hose reel production line in 2003 from Aero-Motive Company. This line includes various hose reels and accessories for aircraft refueling/defueling and AFF reels for fire fighting. Hellan's hose reels boast the same high quality as their other products and can be designed, tested and approved to meet all shipboard requirements.



Staples & Pfiefer was established in 1916 then acquired by The Hellan Strainer Company in 2009. Hellan Strainer's Staples & Pfiefer strainer line has a proven track record for quality and reliability. This line consists of a Y-type strainer, Simplex strainer and Duplex strainer.

S&P Y-type:

- Removes small volume solids
- Can be fitted with a blow off connection, allowing screen to be cleaned without removing cover

S&P Simplex:

- Removes debris from liquid flow that can be interrupted
- Flanges supplied in ANSI, DIN and Navy MIL-F-20042D

S&P Duplex:

- Used in lines that run continuously and do not need to be shut down
- Available in sizes starting at 3/4" to as large as 8"



Hellan Strainers are used in all industries that require the collection and removal of particulate from fluid systems. Hellan strainers are used in the steel, petrochemical, and power generation industries for the protection of cooling systems and other applications. They are also used in freshwater, wastewater, and fire protection fluid straining systems solutions in both industrial and commercial buildings, refineries, and offshore oil rigs.

FPSO

On FPSO (floating production storage and offloading) vessels, Hellan strainers are used in fire water deluge systems, fuel filtration and cooling systems in place to protect equipment.

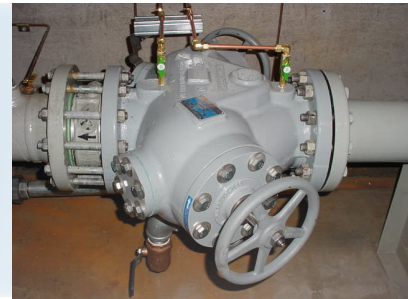


HVAC

Our team of experts has a long history of working with and building relationships with HVAC companies to provide the best HVAC strainers for HVAC filtration systems. We offer the ideal strainer solutions for all centralized cooling and steam pumps requiring pre-filtration.

Power Generation

Our power generation industrial water filters remove fish, including jellyfish & zebra mussels downstream of traveling screens on cooling water systems for power generation plants (ie., nuclear, fossil, and hydro). As a power generation strainer manufacturer, our team is able to assist you with all power generation industrial water filter needs.



Oil & Gas

Hellan Strainers protect plant equipment (condensers, spray nozzles, heat exchangers, pumps, etc.), strain cooling tower water, remove polyethylene fines from process water, and are used in deluge fire protection systems.





Hellan Fluid Systems

A division of The Hellan Strainer Company

Hellan Fluid Systems, a division of The Hellan Strainer Company, offers a wide range of American-made fluid straining systems.

The Hellan Strainer's unique, patented, self-cleaning design was named after a Norwegian inventor, Haakon Hellan.

In 1963, Cleveland Gear Company, Inc. purchased the design and incorporated its own worm gear speed reducers to create a motorized strainer model. The complete Hellan Strainer line manufactured by Cleveland Gear Company, Inc. became a part of the Vesper family in 1980.

In 2000, Hellan was made a subsidiary of Vesper Corporation as The Hellan Strainer Company.

Hellan expanded their product offerings of hose reels in 2003 and Staples & Pfeiffer strainers in 2009.

In 2018 Hellan Strainer acquired SSI Fabricated, expanding our product coverage to fabricated strainers and skid systems.

Today Hellan is one of many subsidiaries of Industrial Manufacturing Company (previously Vesper) that produce a wide variety of innovative products for industry

Hellan Strainers are ISO9001 certified, meet all Navy Mil-Spec requirements, are approved by the American Bureau of Shipping and Lloyd's Register, listed by Underwriters Laboratories and designed in accordance with API, ASME and PED.

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