

Neptune™ Floats

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Clamp Tite™ technology ensures that Neptune™ Floats will not slip on your pipeline.

Compression points strategically placed throughout the Neptune™ Float compress and add friction to the dredge pipeline ensuring no slippage.

Neptune™ Flotation

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Patents Pending

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ON THE COVER



Visitors gather at Weeks Marine's Houma Marine Terminal on July 16 to watch Vicky McCaskill christen the cutter suction dredge named after her husband, Charles McCaskill, the company's technical and equipment executive. Story on page 28.

Italian Aggregate Producer Using Metso Thomas WD Pump



The wide design (WD) ladder pump is suited to aggregate dredging because of its generous internal clearances and wide port widths.

Italian dredge builder Metalmeccanica Strobietto has installed a Metso Thomas TU46WD underwater dredge pump on the aggregate dredge *Nessie*. The pump dimensions are 22 inches by 20 inches by 46 inches (suction/discharge/impeller diameter.)

The dredge owner is aggregate producer Scavi Pesenti srl, whose name means “heavy excavations”.

Albert “Bubba” Savage, Metso dredge pump

product manager, told IDR that “Thomas WD (wide design) pumps are especially suited to ladder pump installations given their generous internal clearances and wide port widths. The dredge is producing 1,200 tons per hour of aggregate having a maximum size of 10-inch solids. The aggregate is used in road building projects in central Italy as a base material. To our knowledge, this is the largest aggregate-producing hydraulic dredge in Italy.”



The *Nessie*'s discharge places aggregate on a stockpile, to be loaded onto trucks for delivery to the job site. The dredge is producing 1,200 tons per hour.



Italian aggregate producer Scavi Pesenti srl took delivery of the high-production dredge *Nessie* from dredge builder Metalmeccanica Strobietto.

Neptune Introduces Non-Slip Pipe Floats



A Neptune float with the Clamp Tite design.

Neptune™ Flotation has released its line of cable, hose, and pipe floats with Clamp Tite™, a patent pending closing system that prevents the floats from slipping on the pipe.

Andy Elder, president of Neptune Flotation, told IDR that the biggest problem with this type of float is that they slide along the pipe while they are towed into place.

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Weir Minerals Introduces Improved Knife Gate Valve



Weir Minerals of Madison, Wisconsin has introduced the Isogate® WS Series knife gate valves and valve sleeves. The sleeves incorporate Linatex® wear resistant lining, which is used in abrasive and corrosive environments.

The valves feature a fully interchangeable, one-piece design with integral load distribution rings, eliminating the need for multiple pieces and fasteners and making sleeve replacement much easier. Combined with

The new Isogate knife gate valve with red Linatex liner.

improved sleeve geometry for increased surface contact, friction reduction, and enhanced sealing during valve opening and closing cycles, the WS Series sleeves contribute to an expected low total cost of ownership for customers.

Other features of the WS Series valves are: a unibody design and rugged heavy-duty construction; complete bubble-tight bi-directional shut-off with no downstream leakage; wear parts that are easily field replaceable; full port design to reduce pressure drop and downstream turbulence; no seat cavity for solids to accumulate and prevent full gate closure; and a universal top plate which can be field adapted to accept any offered actuator. ↵

Siemens Introduces Multi-Parameter Flowmeter

Siemens Industry Automation Division has introduced the Sitrans FC430 Coriolis flow meter. This new Coriolis flow sensor measures mass flow, volume flow, density and temperature simultaneously.

Two leading US diesel engine manufacturers have used Siemens Coriolis sensors in their design and testing facilities. These sensors were used to monitor and in improving fuel economies over the engines' life.

Dredging contractors can use the technology to gauge fuel usage and calibrate fuel injectors by installing one unit to measure fuel entering the fuel injection system and a second meter on the recirculation line. By measuring the change, they are able to obtain exact fuel usage and gauge their economies.

The customer can easily install the unit by replacing a section of pipe with the FC430 and running power to it.

In another application, a user can obtain maximum engine efficiency by precisely measuring the introduction of fuel additives and stabilizers.

"Customers were finding significant increase in efficiency of the engines using these development methods," Eric Heilveil, Siemens product manager, told IDR.

Another application is found in ships' water

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"When this happens, part of the pipeline becomes submerged, creating a safety hazard and decreasing the life expectancy of the pipe," he said.

Compression points within the float compress and add friction to the dredge pipeline, providing 100 percent clamping power on the pipe.

"We tested this by having four grown men push on one of the installed floats. They couldn't get it to budge," he said.

Neptune Floats are designed for any marine pipe, cable and hose installation, including dredging, mining, and dewatering applications ranging in size from two inches (50 mm) to 30 inches (600 mm). ↵

systems, where ambient water is used for cooling, firefighting and wash down, creating the possibility of biologic growth in the system. The FC430 can flow monitor the addition of anti-biologic chemicals to the water systems and can use the sensor's density measurement function to confirm that the chemicals are present in the proper mix ratios.

Siemens noted that the unit's best advantage is in its simplicity.

"It's a piece of pipe and is not intrusive. Changes in the flow rate though the sensor causes a change in the nature of the vibration in the sensor, which delivers extremely accurate flow measurement," Heilveil said.

The Sitrans FC430 features a compact frame, high accuracy measurement of 0.1 percent of rate, with low pressure loss, stable zero point and data update capabilities of 100 Hertz.

User-friendly support tools provide direct access to all operational and functional data, certificates and audit trails. The Sitrans FC430 is among the first Coriolis flow meters to offer SIL (Safety Integrity Level) 2 and 3 approval in hardware and software respectively, enabling maximum redundancy meeting the highest standards of safety and reliability.

The highly automated production of the Sitrans FC430 ensures a flexible supply chain for rapid responses to customer needs. Short delivery times are guaranteed by assembly robots guided by sophisticated 3-D vision laser systems.

Contact Siemens for application questions or support at 1-800-333-7421. This equipment can be viewed on line at www.usa.siemens.com/coriolis. ↵



The Sitrans FC430 Coriolis flow meter.



YOUR BEST SOURCE
for reliable and durable wear parts

Pearce manufactures a complete line of centrifugal dredge pumps ranging in size from 4" discharge to 20" discharge. Pearce specializes in abrasion resistant, hard iron pumps for the aggregate mining and dredging industries. Pearce also manufactures after-market replacement parts for pumps originally made by companies* such as: Istrouma, Metso/Thomas, Pekor, GIW, Amsco, Ellicott, Marathon, Warman, Toyo and others. Pearce casts process equipment wear parts, crusher parts and water pumps and many customer specific castings.

*The trademarks appearing above are the intellectual property of their respective owners.



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