

Viega Marine Systems

**Solutions for shipbuilding
and offshore projects**



viega



viega

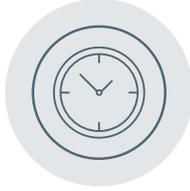
Charting the right course with Viega

In the marine market, tight deadlines and budget constraints are common obstacles to overcome. Being able to join pipe without hot work can make a huge difference. Viega press fittings reduce installation time by 60 to 90 percent, depending on the material, and connections can be made wet or dry. Without the danger and risk of welding, all the trades can work together at the same time, and that means the project gets done – fast.

With distribution centers across North America, Viega offers a full line of fittings and valves designed specifically for joining pipe systems onboard military vessels, commercial vessels, oil platforms, cruise ships and mega yachts. Viega’s portfolio includes thousands of marine-approved products, each featuring flameless technology that saves time on installation and are ideal for new construction or repair.

Viega has two lines specific for seawater applications – Viega SeaPress, copper nickel fittings in metric sizes, and Viega MegaPress CuNi, copper nickel fittings in standard sizes. Also consider marine-approved piping systems like Viega ProPress for copper and stainless, Viega MegaPress for carbon steel, galvanized pipe and stainless and Viega PureFlow System for potable water.

FEATURES + BENEFITS



Many Viega products can be pressed in seconds, a significant time savings over traditional joining methods. There's no wait time for curing or drying, so pressure tests can be performed immediately.



Viega press fittings are simpler and safer to install than traditional methods. Installations can be made anywhere, in any condition. Unlike grooved and threaded connections, you don't have to jeopardize the integrity of the pipe to get the dependable connection you need.



With Viega's Smart Connect® technology, you'll know every connection is made correctly. Smart Connect helps easily identify unpressed connections, so if one was missed it's easy to locate and press without having to drain the system.



Viega is a trusted leader in press technology, so build with confidence. With a heritage of engineering press fittings for a variety of materials and strict quality control, you'll know you're getting the very best when you choose Viega.



With no welding or soldering flames, fire watches are unnecessary. That means there's no need for additional manpower, plus you can skip the messy or labor-intensive tools.

Viega MegaPress CuNi

CREATED SPECIFICALLY FOR MARINE IN STANDARD SIZES

Viega's MegaPress CuNi is a 90/10 IPS system. The copper nickel alloy fittings are approved for installation in a variety of applications from cooling water to fuel to fire sprinkler and are specifically designed to stand up to the harsh environments of the sea. MegaPress CuNi is the only iron pipe size copper nickel press fitting with a double-press connection on the market.

Advantages at a glance:

- 90/10 copper nickel Class 200 or Schedule 40 CuNi pipe
- Well-suited for seawater systems
- One FKM sealing element for all applications
- Can press into a wet or dry system
- No fire watch, hot work permits or gas freeing
- Installation savings of up to 70%
- Class approved and USCG accepted
- ShipConstructor and CAD files available

MegaPress CuNi applications:

- Seawater cooling
- Fire main wet, dry and foam
- Sprinkler system and water spray
- Bilge lines
- Foam system
- Ballast system
- Tank cleaning services
- Non-essential systems
- Cargo oil lines
- Fuel oil lines
- Lubricating oil lines
- Hydraulic oils
- Domestic heating
- Compressed air systems
- Condensate return
- Vacuum



Viega MegaPress CuNi

Viega SeaPress

COPPER NICKEL FITTINGS IN METRIC SIZES

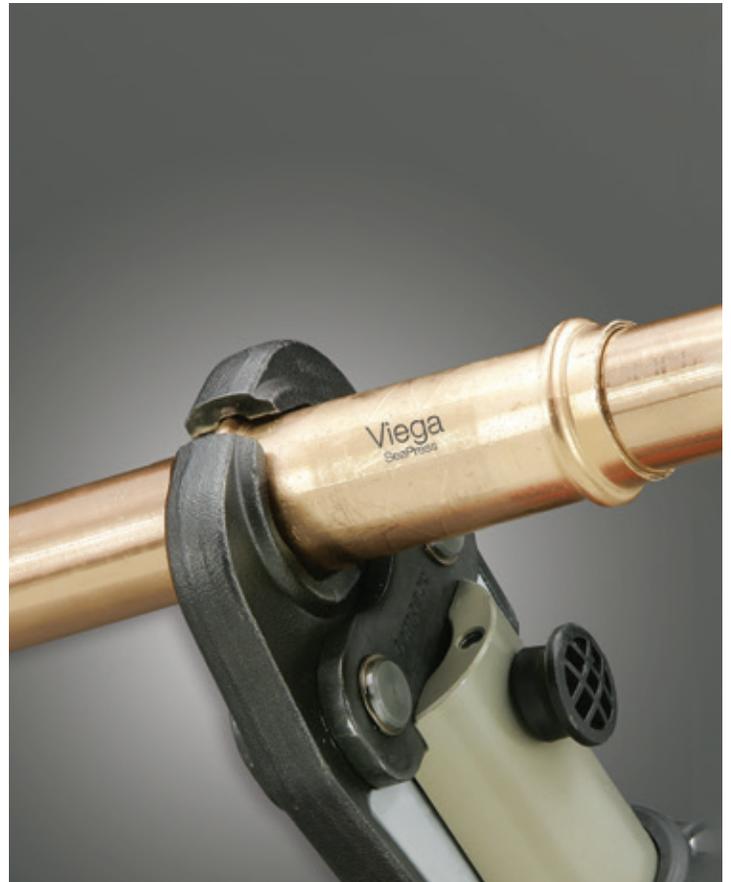
Viega SeaPress is a corrosion-resistant, 90/10 copper nickel fitting, built especially for corrosive environments. Viega's cold press technology makes brazing and welding a thing of the past, and there's no fire watch needed. Connections can be completed under the most difficult of conditions. Repairs and modifications can also be carried out while under way at sea.

Advantages at a glance:

- For metric sizes
- 90/10 copper nickel
- Prevents biofouling
- Reduces topside weight
- U.S. and European marine approvals
- Easily adapts to metric and standard systems
- Installation savings of up to 70%
- Extensive range of fittings, flanges and adapters
- ShipConstructor and CAD files available

SeaPress applications:

- Seawater cooling
- Fire main wet, dry and foam
- Sprinkler system and water spray
- Hot and cold potable water
- Bilge lines
- Foam system
- Ballast system
- Tank cleaning services
- Non-essential systems
- Cargo oil lines
- Fuel oil lines
- Lubricating oil lines
- Hydraulic oils
- Domestic heating
- Compressed air systems
- Condensate return
- Vacuum



Viega SeaPress

Viega MegaPress

THE SUPERIOR CHOICE FOR JOINING CARBON STEEL PIPE

Viega MegaPress is the only clean, secure and efficient choice for joining carbon steel and galvanized pipe, eliminating the need for threading or welding. Choose MegaPress in sizes ½" to 4". It is suitable for use with Schedule 40 and Schedule 80 carbon steel and galvanized pipe for marine applications.

Viega MegaPress includes more than 200 different engineered fitting configurations and is approved for more applications than any other carbon steel press fitting system.

Advantages at a glance:

- No welding or threading
- Eliminates bulky equipment
- Press connections can be made wet or dry
- No need for hot work, fire watch or gas freeing
- Same fitting for most metric and standard pipe sizes (not compatible with 2 1/2" metric size)
- For carbon steel and galvanized piping
- ShipConstructor and CAD files available

MegaPress applications:

- Cooling water
- Fire main and water spray
- Sprinkler
- Low pressure steam
- Compressed air
- Vacuum
- Cargo oil lines
- Fuel oil lines
- Lube oil
- Hydraulic oils
- Condensate



Viega MegaPress



Viega MegaPress FKM

For more specific information and a list of applications for Viega MegaPress and Viega MegaPress Stainless, contact Viega Technical Services at (800) 976-9819 or email marine@viega.us.

Viega MegaPress Stainless

FOR MORE APPLICATIONS THAN EVER BEFORE

Designed for Iron Pipe Size (IPS) stainless steel, Viega's line of MegaPress fittings in stainless steel make efficient connections possible for more applications than ever before. MegaPress Stainless fittings are available in 304 and 316 stainless steel. MegaPress Stainless is approved for use with Schedule 10 through Schedule 80 pipe, available in sizes ½" to 4".

Advantages at a glance:

- No welding or threading
- Eliminates bulky equipment
- Press connections can be made wet or dry
- No need for hot work, fire watch or gas freeing
- Available in 304 or 316 stainless steel
- ShipConstructor and CAD files available

MegaPress Stainless applications:

- Chemical process lines
- Chilled water
- Compressed air and industrial gases
- Condensate
- Diesel fuel
- Ethanol
- Fuel oil
- Greywater
- Hydronic heating
- Low-pressure steam
- Lube oil
- Potable water
- Steam condensate
- Vacuum



Viega MegaPress 304 FKM



Viega MegaPress 316

Viega ProPress

THE INDUSTRY'S MOST TRUSTED CONNECTION

Viega ProPress is the recognized leader in copper press joining solutions. Viega offers hundreds of press fitting choices in stainless steel and copper. ProPress Stainless is ideal for marine applications such as potable water, fuel and compressed air, and is available in both 304 and 316 grades of stainless steel.

Advantages at a glance:

- Flameless press technology eliminates sweating, brazing and grooving
- Press connections can be made wet or dry
- No need for hot work, fire watch or gas freeing
- More than 900 fittings in multiple configurations for copper and stainless
- Available in metric and standard sizes
- Zero Lead compliant
- ShipConstructor and CAD files available

ProPress Copper applications:

- Cooling water systems
- Compressed air
- Fire main and water spray
- Sprinkler systems
- Hot/cold potable water
- Cargo oil lines
- Fuel oil lines
- Lubricating oil lines
- Hydraulic oil
- Vacuum

ProPress Stainless applications:

- Cooling water systems
- Fire main and water spray
- Sprinkler systems
- Hot/cold potable water
- Cargo oil lines
- Fuel oil lines
- Lubricating oil lines
- Hydraulic oil
- Domestic heating
- Compressed air
- Condensate return
- General chemical service
- Vacuum



Viega ProPress



Viega ProPress 304 FKM

Viega PureFlow System

PRESS SYSTEMS FOR PEX TUBING

With fittings, manifolds and tubing, Viega PureFlow provides everything you need for a total plumbing system. Viega was the first to offer a true press system to the PEX market. Available in sizes $\frac{3}{8}$ " to 2", Viega PureFlow polymer fittings are made in the United States. Viega PEX has the highest ratings for chlorine and UV resistance, according to industry standards, and Viega PureFlow Press fittings are available in high-performance polymer and Zero Lead bronze.

Viega also offers Raxofix, a multilayered metric PEX system. Similar to FostaPex, Raxofix is an innovative form-stable piping system that optimizes flow rates, allowing for reduction of pipe sizes and topside weight. Raxofix is available in sizes 16mm to 63mm.

Advantages at a glance:

- Flexible and durable form-stable PEX accepts the motions of a ship
- Press fittings available in both bronze or polymer bodies with stainless press rings
- Bending PEX around obstacles reduces the number of fittings needed
- Secure connections made without adhesives
- Reduces top side weight



Viega PureFlow Press



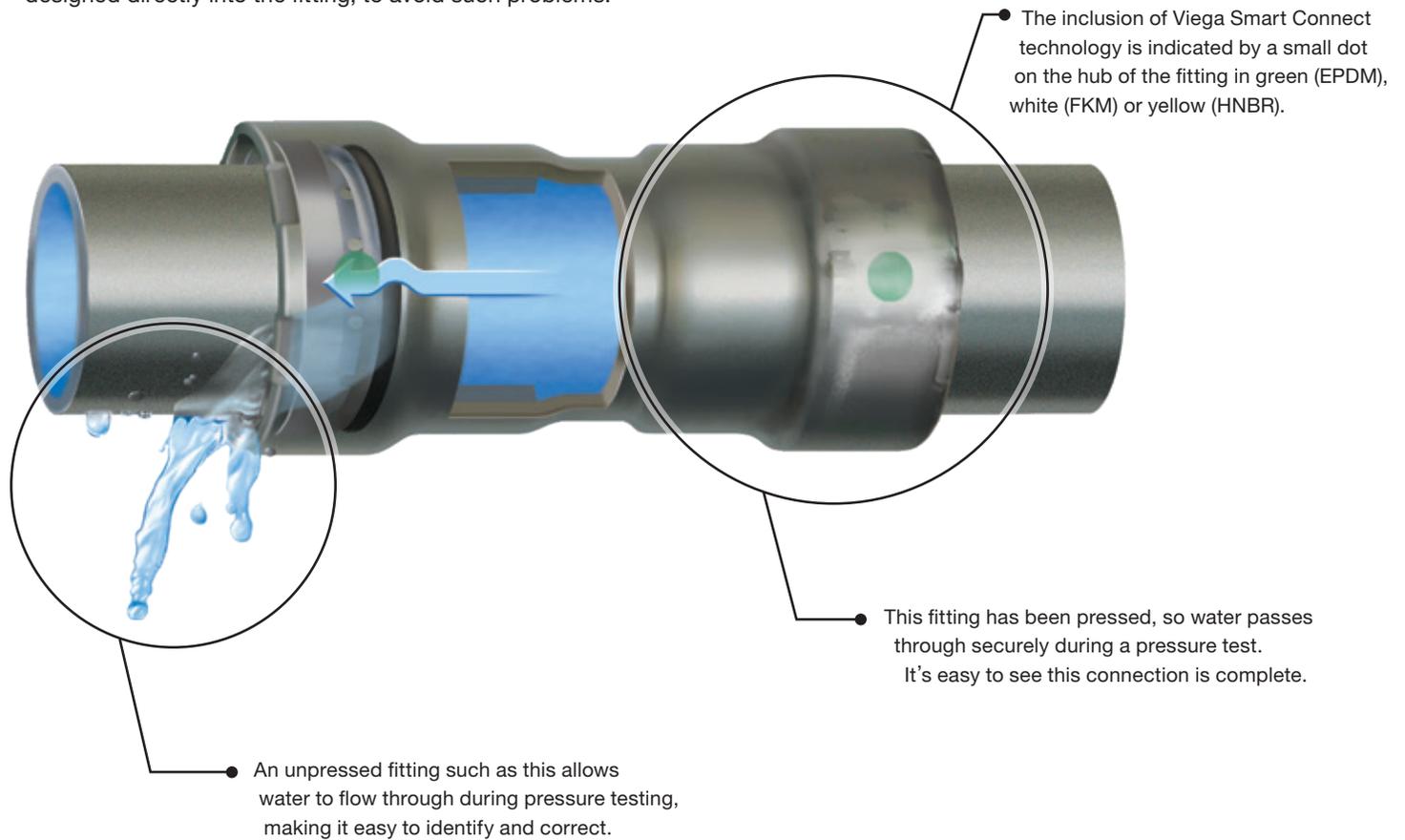
Viega Raxofix

For more specific information and a list of applications for Viega ProPress and Viega PureFlow, contact Viega Technical Services at (800) 976-9819 or email marine@viega.us.

Viega Smart Connect technology

RELIABLE CONNECTIONS YOU CAN COUNT ON

Viega's Smart Connect technology helps installers easily identify unpressed connections, giving peace of mind that a job is done correctly without the potential for leaks. An incomplete connection could cause substantial damage if it holds pressure during a test and then subsequently fails. But Viega's fittings include Smart Connect technology, designed directly into the fitting, to avoid such problems.



1 Identify an unpressed connection during pressure testing when water or air flows past the sealing element.



2 Use the press tool to press the fitting, making a secure connection.



3 Viega press connections are fast, flameless and secure.

STRONG SUPPORT FOR THE SHIPBUILDING MARKET

The U.S. commercial shipyard industry, along with its suppliers, remains essential to maintaining the government shipbuilding and industrial ship repair base. Whether you're working on tugs, barges, work boats, passenger ferries, casino boats or inland cruise ships, you can take advantage of Viega's fast, flameless and secure connections.

■ Offshore ■ Cargo ■ Passenger ■ Specialized



Viega Marine Certifications



Approvals for Shipbuilding

Viega System	Size Range*	Sealing Element*	Pipe Specs	 USCG	 ABS	 NAVSEA	 DNV-GL	 LR	 BV	 RINA	 ASTM F3226
Iron Pipe Size (IPS) - US											
MegaPress®	½" to 2"	EPDM	<ul style="list-style-type: none"> ■ ASTM A53/ASTM A106 SCH 10, 40, 80 ■ Metric Pipe DIN EN 10255, EN 10220/EN 10216-1, EN 10220/EN10217-1 	✓	✓		✓	✓	✓	✓	✓
MegaPress FKM	½" to 2"	FKM	<ul style="list-style-type: none"> ■ ASTM A53/ASTM A106 SCH 10, 40, 80 	✓	✓		✓	✓	✓	✓	✓
	2½" to 4"	FKM	<ul style="list-style-type: none"> ■ ASTM A53/ASTM A106 SCH 10, 40, 80 	✓	✓		✓	✓	✓	✓	✓
MegaPressG	½" to 2"	HNBR	<ul style="list-style-type: none"> ■ ASTM A53/ASTM A106 SCH 10, 40, 80 ■ Metric Pipe DIN EN 10255, EN 10220/EN 10216-1, EN 10220/EN10217-1 	✓	✓		✓	✓	✓	✓	✓
	2½" to 4"	HNBR	<ul style="list-style-type: none"> ■ ASTM A53/ASTM A106 SCH 10, 40, 80 ■ Metric Pipe DIN EN 10255, EN 10220/EN 10216-1, EN 10220/EN10217-1 	✓	✓		✓		✓	✓	✓
MegaPress 304 FKM	½" to 2"	FKM	<ul style="list-style-type: none"> ■ ASTM A312 SCH 5, 10, 40, 80 	✓	✓		✓	✓	✓	✓	✓
	2½" to 4"	FKM	<ul style="list-style-type: none"> ■ ASTM A312 SCH 10, 40, 80 	✓	✓		✓	✓	✓	✓	✓
MegaPress 316	½" to 2"	EPDM	<ul style="list-style-type: none"> ■ ASTM A312 SCH 5, 10, 40, 80 	✓	✓		✓	✓	✓	✓	✓
	2½" to 4"	EPDM	<ul style="list-style-type: none"> ■ ASTM A312 SCH 10, 40, 80 	✓	✓		✓	✓	✓	✓	✓
MegaPress 316 FKM	½" to 2"	FKM	<ul style="list-style-type: none"> ■ ASTM A312 SCH 5, 10, 40, 80 	✓	✓		✓	✓	✓	✓	✓
	2½" to 4"	FKM	<ul style="list-style-type: none"> ■ ASTM A312 SCH 10, 40, 80 	✓	✓		✓	✓	✓	✓	✓
MegaPress CuNi (90/10)	½" to 2"	FKM	<ul style="list-style-type: none"> ■ ASTM B466 (SCH 40), MIL-T-16420K (Class 200) 	✓	✓	✓	✓	✓	✓	✓	✓
	2½" to 4"	FKM	<ul style="list-style-type: none"> ■ ASTM B466 (SCH 40), MIL-T-16420K (Class 200) 	✓	✓		✓	✓	✓	✓	✓
Copper Tube Size (CTS) - US											
ProPress®	½" to 4"	EPDM (standard) HNBR FKM	<ul style="list-style-type: none"> ■ ASTM B 88 (Copper CTS) 	✓	✓	✓	✓	✓ Pending Update		✓	✓ ✓
ProPress 304 FKM	½" to 4"	EPDM HNBR FKM (standard)	<ul style="list-style-type: none"> ■ Viega 304/316 Stainless Pipe (CTS) 	✓	✓		✓	✓			
ProPress 316	½" to 4"	EPDM (standard) HNBR FKM	<ul style="list-style-type: none"> ■ Viega 304/316 Stainless Pipe (CTS) 	✓	✓		✓	✓			

* Refer to the Type Approval for conditions/restrictions.
 = EU Product Lines, special order for LLC
 ✓ = Product Type Approval on file.

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Approvals for Shipbuilding, continued

Viega System	Size Range*	Sealing Element*	Pipe Specs								
				USCG	ABS	NAVSEA	DNV-GL	LR	BV	RINA	ASTM F3226
Metric (CTS)											
SeaPress®	15mm to 108mm	EPDM (standard) HNBR FKM	■ CuNi 90/10 (CuNiFe) DIN 86019 & 85004 (Metric CTS)	✓	✓		✓	✓	✓	✓	
Prestabo	15mm to 108mm	EPDM HNBR* FKM*	■ Viega Pipe DIN EN 10305-3				✓	✓	✓		
Profipress®	12mm to 108mm	EPDM (standard) FKM*	■ DIN EN 1057	✓	✓		✓	Pending Update	✓	✓	✓
Sanpress®	12mm to 108mm	EPDM	■ Viega Inox Pipe DIN EN 10088, EN 10312 (AISI 316L, AISI 444)	✓			✓	Pending Update	✓		
Sanpress INOX	15mm to 108mm	EPDM* FKM HNBR (Inox G only)	■ Viega Inox Pipe DIN EN 10088, EN 10312 (AISI 316L, AISI 444)		✓		✓	✓	✓	✓	
Metric (Plastic)											
Raxofix®	16mm to 63mm	None	■ Raxofix PE-Xc/Al/PE-Xc (DIN 4726) ■ Raxofix PE-RT/Al/PE-RT (rigid)				✓	✓	✓	✓	
Sanfix-P	16mm to 63mm	None	■ Sanfix-P PE-Xc ■ Sanfix-P PE-Xc/Al/PE-Xc (DIN 4726)				✓	Pending Update		✓	

* Refer to the Type Approval for conditions/restrictions for specific applications.
 = EU Product Lines, special order for LLC
 ✓ = Product Type Approval on file.

Pipe Specs Explanation

ASTM A53	Seamless or welded formed (bent from plate) black steel and galvanized pipe
ASTM A10	Seamless drawn black steel and galvanized pipe
ASTM A312	Seamless and welded stainless steel pipe
ASTM B88	Seamless copper water tube
ASTM B466	Seamless copper nickel tube
MIL-T-16420K	Military grade copper nickel tube
DIN EN 10255, EN 10220/EN 10216-1, EN 10220/EN10217-1	Seamless or welded metric formed (bent from plate) black steel and galvanized pipe
CuNi 90/10 (CuNiFe) DIN 86019 & 85004 (Metric CTS)	Copper metric tube spec made of 90/10 copper nickel
DIN EN 1057	Metric copper pipe
Viega Inox Pipe DIN EN 10088, EN 10312 (AISI 316L, AISI 444)	AISI 316L and AISI 444 material spec
DIN EN 10305-3	Steel tubes for precision applications

Marine Documentation

Product Line	Document Name
Marine	Marine Approved Applications Tech Data Seals and Gaskets for Marine Tech Data Marine Warranty
MegaPress	MegaPress for Marine Installation Manual MegaPress for Marine Pocket Guide MegaPress for Marine Submittal MegaPress for Marine System Data MegaPress FKM for Marine System Data MegaPressG for Marine System Data MegaPress 304 FKM for Marine System Data MegaPress 316 FKM for Marine System Data
ProPress	ProPress for Marine Installation Manual ProPress Stainless for Marine Installation Manual ProPress for Marine Submittal ProPress for Marine System Data ProPress 304 FKM for Marine System Data ProPress 316 for Marine System Data
SeaPress	SeaPress Metric Fitting System Dimensions SeaPress Seawater Piping System Engineering Spec SeaPress Installation Manual SeaPress 15mm to 54mm Fittings Product Instructions SeaPress 76.1mm to 108mm Fittings Product Instructions SeaPress Fittings Submittal SeaPress Fittings System Data
Prestabo	Prestabo Metric Dimensions
Profipress	Profipress Metric Dimensions Profipress G Metric Dimensions Profipress S Metric Dimensions
Sanpress	Sanpress Metric Dimensions
Sanpress INOX	Sanpress INOX Metric Dimensions Sanpress INOX G Metric Dimensions
Raxofix	Raxofix Metric Dimensions
Sanfix-P	Sanfix-P Metric Dimensions



Viega products must be installed by trained installers. MegaPress credential training is provided at no cost by Viega and is recommended every two years. Please contact Viega to arrange credential training onsite or at our training facility. **Installation by non-professionals may void Viega LLC's warranty.**



This document is subject to updates. For the most current Viega technical literature please visit www.viega.us.

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TD-SP 0721 Marine Certifications





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