

RETHINKING THE FLOW OF THE DIGITAL FUTURE

DATA CENTERS

PRECISION ENGINEERED PIPING SYSTEMS FOR TOTAL SYSTEM RELIABILITY

viega

DATA CENTER BROCHURE

TABLE OF CONTENTS

WHY CHOOSE VIEGA AS A STRATEGIC PARTNER?
1 - 3

THE STATE OF MISSION CRITICAL
4 - 5

HOW VIEGA PRESS TECHNOLOGY HELPS YOU WIN
6 - 7

VIEGA DATA CENTER SOLUTIONS
8 - 15

DURABILITY AND SYSTEM INTEGRITY
16 - 17

BUILDING CONFIDENCE WITH COMPLETE SUPPORT
18 - 21

A HISTORY OF PARTNERSHIP

YOUR STRATEGIC PARTNER IN MISSION-CRITICAL INFRASTRUCTURE.



FOR OVER 125 YEARS, VIEGA HAS STRIVED TO SET THE GLOBAL BENCHMARK FOR PIPING QUALITY AND RELIABILITY.

Since 1899 Viega has been innovating in the pipe, valve and fitting marketplace, including pioneering modern press technology in 1989 and bringing that standard of engineering to North America in 1999. Viega has continuously advanced its precision manufacturing capabilities while evolving solutions around the changing needs of customers. Today, this heritage of innovation fuels Viega's role as a strategic partner, delivering more than proven piping systems. From engineering and design assistance to on-site training and installation support, Viega works alongside your team to reduce project complexity and mitigate risk. By bringing engineering and piping expertise together with your team's knowledge and experience, Viega can identify opportunities to simplify installation and support evolving needs across the facility, from core and shell to process and power applications.

WHY CHOOSE VIEGA AS A

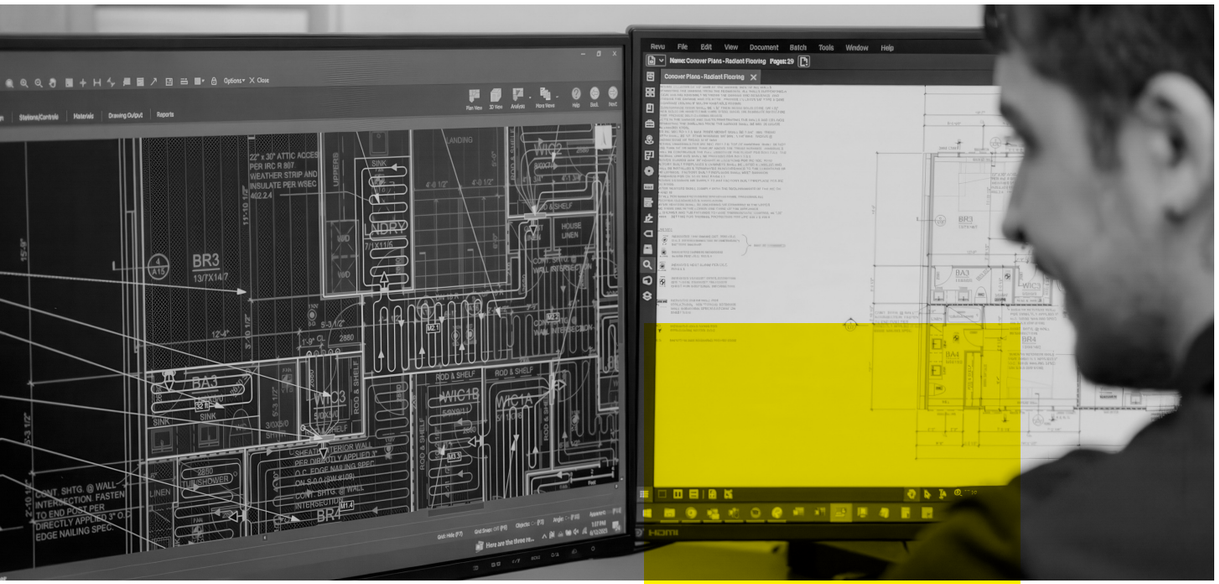
STRATEGIC PARTNER

IN MISSION-CRITICAL CONSTRUCTION, SUCCESS DEPENDS ON COORDINATION, RELIABILITY, AND EXECUTION.

Our support extends well beyond the piping system itself. Viega provides design and engineering services, chemical compatibility reviews, specification support, credentialed installer training and on-site project assistance to help teams make informed decisions, reduce installation risk and maintain consistency from design intent through field execution. It is why we have been trusted across mission-critical environments like aerospace, defense, healthcare and advanced manufacturing for decades.

“Connected in quality.” – For us, this is not just a tagline. We believe in ensuring our products not only meet but outperform the rigorous quality and testing standards in the industry.

WITH MORE THIRD-PARTY TESTING THAN ANY OTHER PRESS MANUFACTURER, WE STAND BEHIND MORE THAN 2,500 APPLICATIONS WE HAVE APPROVED.



END-TO-END SUPPORT

THE VIEGA DIFFERENCE

INTEGRATED ENGINEERING & DESIGN SUPPORT

We engage early in the project lifecycle to help optimize system design, support BIM coordination and validate technical requirements. By identifying potential design risks before construction begins, we can help your teams improve job-site coordination and avoid costly rework, helping your projects bring capacity online sooner and support budget predictability.

HANDS-ON TRAINING & FIELD READINESS

We bridge the gap between product and performance by training your crews on-site. With experience across more than 50 data center projects, we bring proven expertise to support consistent, code-compliant installations.

PREDICTABLE LOGISTICS

With over one million square feet of dedicated manufacturing and distribution space in North America, and a vast network of distribution partners across all states and regions, we work to keep the right products where you need them, when you need them, allowing you to maintain an aggressive build schedule.

COMMITMENT TO SYSTEM INTEGRITY

Mission-critical environments demand dependable performance. Viega solutions incorporate innovations such as Smart Connect® technology, which helps identify unpressed connections during testing, providing an additional layer of confidence before systems are placed into service.

BUILT FOR EVERY BUILD METHOD

Viega solutions support the full range of data center construction methods and field conditions, from off-site prefabrication and modular construction to on-site system installation, final tie-ins and emergency repairs. This flexibility helps project teams standardize around a proven connection technology while adapting to how and where the work is actually performed.

MISSION-CRITICAL PROJECTS

Viega delivers more than quality products. We provide the planning, technical expertise, logistics support and field resources needed to help teams execute complex projects with confidence. Whether navigating compressed schedules, demanding specifications or intricate system requirements, Viega works alongside you and your teams to help keep projects moving forward.



THE CURRENT STATE OF MISSION-CRITICAL

As the industry shifts to high-density AI workloads, facilities are looking beyond "Five-Nines" (99.999%) uptime and beginning to think about the resiliency of their architecture. Redundant systems, concurrent maintenance, rapid repairability, parallel construction and ease of prefabricated tie-ins are top of mind. Operators must accelerate speed-to-market while managing labor constraints and stricter sustainability metrics. In this environment, infrastructure must be as robust as the servers it supports. Traditional joining methods involving hot work and complex, manual-intensive processes are increasingly incompatible with the quality standards, pace and risk profile of modern data center development. As data center demand accelerates, your infrastructure needs to keep pace, delivering the reliability, scalability and speed required to bring capacity online with confidence.

THE COMPLEXITY OF THE MISSION-CRITICAL BUILD

Today's data center is a masterpiece of precision engineering, requiring an intricate web of thermal management and power systems to maintain critical environmental conditions. Whether circulating chilled water or implementing direct-to-chip liquid cooling, mechanical infrastructure must operate with consistent, predictable performance.

VIEGA SIMPLIFIES THIS COMPLEXITY AS A STRATEGIC PARTNER, HELPING YOU NAVIGATE THREE KEY OPERATIONAL HURDLES:

SYSTEM INTEGRITY & RISK MITIGATION:

Smart Connect® technology identifies unpressed connections 100% of the time during initial pressure testing, so crews can find and press them before the system goes into service.

PRECISION IN HIGH-DENSITY ENVIRONMENTS:

We provide flameless press connections that eliminate the need for hot work, reducing the smoke, fumes and fire risk associated with welding and soldering.

SCALABILITY & GLOBAL REPEATABILITY:

As hyperscalers and colocation providers expand their footprints globally, Viega offers standardized, code-compliant systems, listed through ASTM F3226 as a component under ASME B31.1 (Power), B31.3 (Process) and B31.9 (Building Services), that support consistent installation standards across sites.

BY INTEGRATING VIEGA INTO YOUR DESIGN, YOU BUILD A RELIABLE, FLEXIBLE AND FUTURE-PROOF FOUNDATION FOR THE NEXT GENERATION OF COMPUTE POWER.

HOW VIEGA PRESS TECHNOLOGY

HELPS YOU WIN

As data center teams race to bring new capacity online, every day on the construction schedule matters. Press connections can be installed up to 90% faster* than traditional joining methods, while flameless installation helps simplify coordination and support parallel workflows.

VIEGA BUILDS ON THOSE ADVANTAGES WITH A BROAD PORTFOLIO OF PRESS SOLUTIONS AND A COMMON TOOL PLATFORM, HELPING TEAMS SIMPLIFY INSTALLATION ACROSS APPLICATIONS AND KEEP COMPLEX PROJECTS MOVING.

Viega solutions provide more than just speed; they provide the predictability and scalability required to support anticipated go-live dates. From cooling loops in white space to essential support systems in gray space, our piping solutions integrate seamlessly across your facility or campus.

The following pages contain information about our most relevant data center systems and the applications they serve. If you have a unique system requirement, we can test and validate new applications to ensure they meet our rigorous approval standards.

**During internal testing, validated by a 3rd party, identical piping systems were fabricated up to 90% faster with all Viega fittings.*

OPEN Compute Project SOLUTION PROVIDER®

Viega is an OCP Solution Provider, offering solutions that support the adoption of open infrastructure across the data center industry.



SHOWN ABOVE, A MEGAPRESS 304 FKM BALL VALVE; BELOW, A MEGAPRESS 304 FKM MPT ADAPTER. BOTH CONNECT TO FLUID TRANSFER SYSTEMS SUPPORTING RACK COOLING.

VIEGA SYSTEMS

The right system depends on the application. Our engineering team can help you select the best fit whether that is CDU loop piping, UPS liquid cooling, heat exchangers, chillers, compressed air or diesel fuel. With proven solutions across copper, stainless and carbon steel, Viega helps teams install faster, reduce risk and build repeatable mechanical systems ready to scale.

STAINLESS STEEL SYSTEMS

OCP ACCEPTED™ SOLUTION

OCP ACCEPTED™



MEGAPRESS® STAINLESS 304 & 316

When infrastructure faces harsh conditions, our stainless steel press systems excel. Designed for durability in liquid cooling applications supporting high-performance infrastructure, these systems provide the speed and security of Smart Connect® technology to ensure total integrity in demanding settings.



PROPRESS® STAINLESS 316

ProPress 316 combines the speed and simplicity of copper press technology with the durability and corrosion resistance of 316 stainless steel. Designed for process water, it provides a permanent, reliable connection that maintains high performance where corrosion resistance is the priority.

CARBON STEEL SYSTEMS



MEGAPRESS®

MegaPress delivers fast, consistent and flameless connections for hydronic cooling, compressed air and industrial gases. By eliminating hot work, it allows for installations in tight spaces, significantly reducing jobsite risk.

CARBON STEEL SYSTEMS - CONTINUED



MEGAPRESS® FKM

Featuring a specialized fluoroelastomeric (FKM) seal and zinc-nickel coating, MegaPress FKM delivers reliable press connections for demanding applications, providing long-term performance in systems where standard sealing materials may not be suitable.



MEGAPRESS® G

Designed for fuel gas and high-oil-content applications, MegaPressG is the flameless alternative to traditional methods. It provides a secure press connection in seconds, ideal for environments with strict fire safety requirements.

COPPER SYSTEMS



PROPRESS®

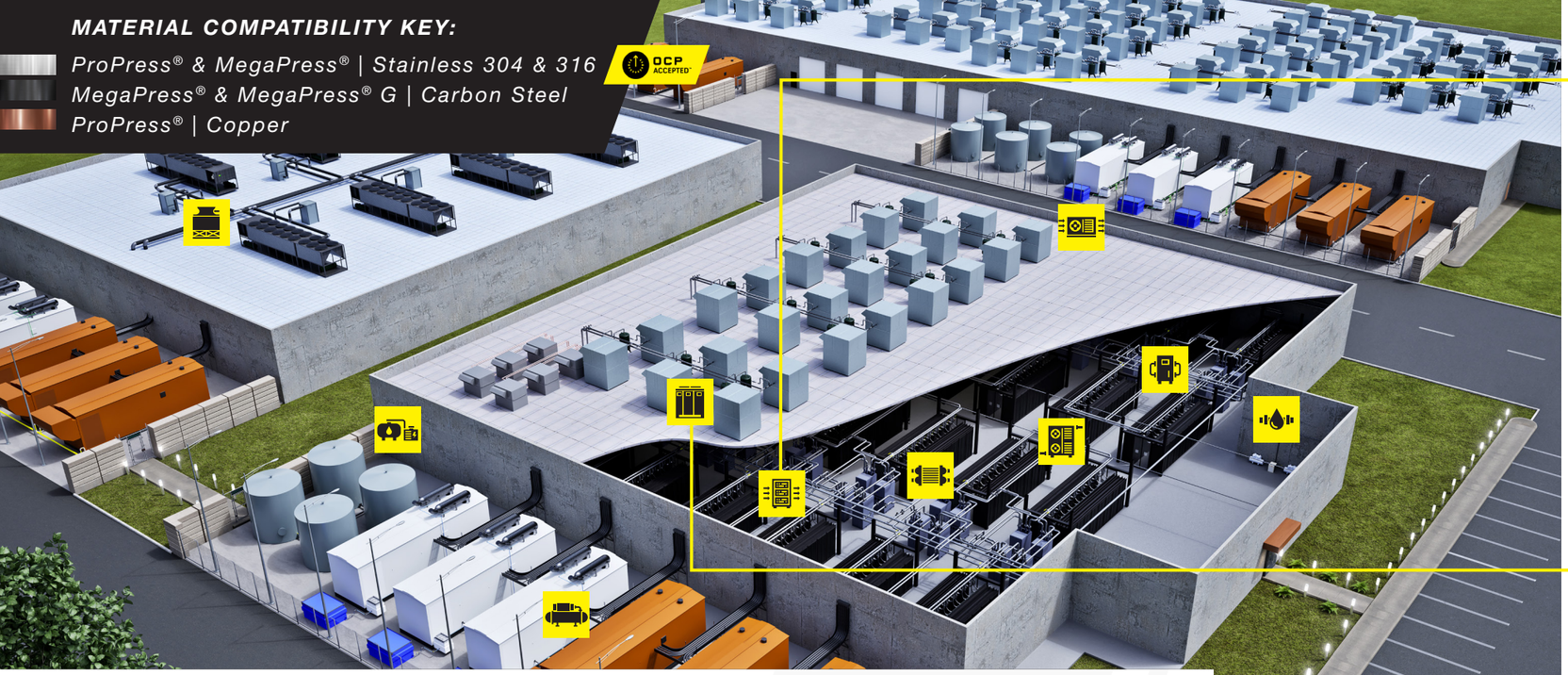
Proven in North America since 1999, ProPress is our original press offering. It is a proven system for diverse plumbing, mechanical and process applications, offering the confidence of Smart Connect® technology to help crews identify unpressed connections before the system goes into service.

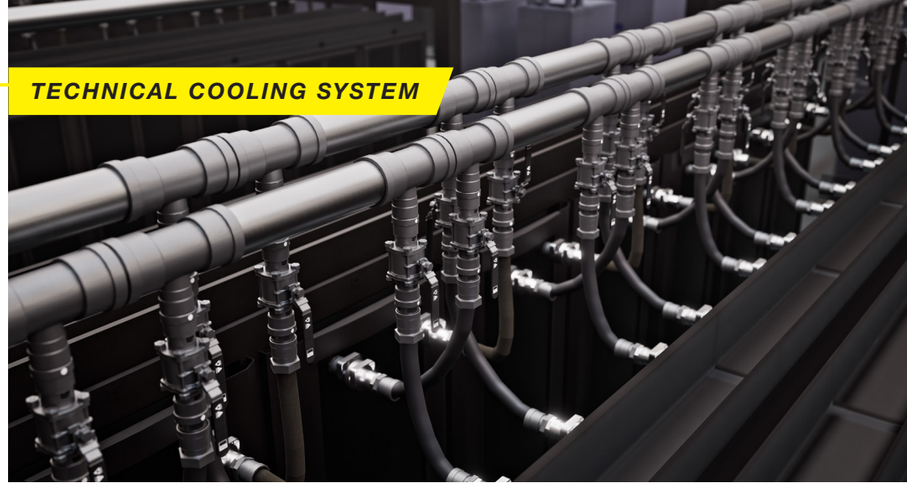
VALVE SYSTEMS



VIEGA VALVES

Our valves integrate seamlessly with ProPress and MegaPress systems, allowing uniform tooling across projects. Available in materials like 316 stainless and zero-lead (ZL) bronze, chosen for their corrosion resistance and long-term durability, they provide precise flow isolation, ensuring long-term efficiency and operational confidence.







BUILT TO SUPPORT
CRITICAL INFRASTRUCTURE

From liquid cooling and thermal management to critical power support and facility infrastructure, Viega press technology connects the systems that keep data centers running.

RACK COOLING

Reliable connections protect high-density server racks during rapid deployment of liquid cooling for thermal management.

CHILLERS

Simplifies installation of large centralized cooling systems to support aggressive project schedules while maintaining performance.

CDU PIPING

Helps accelerate installation of next-generation CDU piping systems to support direct liquid cooling.

CRAH UNITS

Supports consistent cooling performance with precise temperature and humidity control to maintain optimal conditions for IT equipment while reducing installation variability.

HEAT EXCHANGERS

System integration enables optimized heat transfer between cooling loops, protecting critical systems.

FUEL SYSTEMS

Supports backup power readiness with secure fuel distribution.

DOMESTIC WATER

Proven systems provide safe, reliable water distribution for occupants and facility needs.

COMPRESSED GAS SYSTEMS

Provides tested, code-compliant fuel distribution for generators and onsite power infrastructure.

AIR HANDLERS

Streamlines hydronic system installation to condition and circulate air throughout the facility for consistent environmental control.

COOLING TOWERS

Provides durable, dependable connections to keep critical heat rejection systems operating efficiently.

VIEGA APPROVED APPLICATIONS CHART

HAVE A REQUIREMENT?



PRODUCT LINE, MATERIAL AND SEALING ELEMENT	COPPER			STAINLESS				CARBON STEEL		
	PROPRESS			MEGAPRESS 304	MEGAPRESS & PROPRESS 316	MEGAPRESS & PROPRESS 316	PROPRESS 316	MEGAPRESS		
	EPDM	FKM	HNBR	FKM	EPDM	FKM	HNBR	EPDM	FKM	HNBR
WHITE SPACE										
CDU Loop Piping	✓	✓		✓	✓	✓		✓	✓	
Heat Exchangers	✓	✓			✓	✓		✓	✓	
Rack Cooling	✓	✓		✓	✓	✓		✓	✓	
UPS Liquid Cooling	✓	✓		✓	✓	✓		✓	✓	
Domestic Water	✓	✓			✓					
CRAH	✓				✓	✓		✓	✓	
Air Handlers	✓	✓		✓	✓	✓		✓	✓	
EXTERIOR EQUIPMENT										
Cooling Tower Piping	✓	✓		✓	✓	✓		✓	✓	
Condenser Water	✓	✓		✓	✓	✓		✓	✓	
Utility Piping	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Outdoor Mechanical Systems	✓	✓		✓	✓	✓		✓	✓	
Chillers	✓	✓		✓	✓	✓		✓	✓	
Cooling Water Tanks	✓	✓		✓	✓	✓		✓	✓	
FUEL AND POWER SUPPORT										
Diesel Fuel			✓	✓		✓	✓		✓	✓
Diesel Exhaust Fluid				✓	✓	✓				
Natural Gas										✓
Propane										✓
Fuel Transfer Pumps			✓	✓	✓	✓	✓		✓	✓
Compressed Air	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fuel Storage Tanks			✓	✓	✓	✓	✓	✓	✓	✓
OTHER APPLICATIONS OR RENEWABLE ENERGY SUPPORT										
Solar Thermal Piping	✓	✓		✓	✓	✓		✓	✓	
Solar Panel Wash Water	✓	✓		✓	✓	✓				

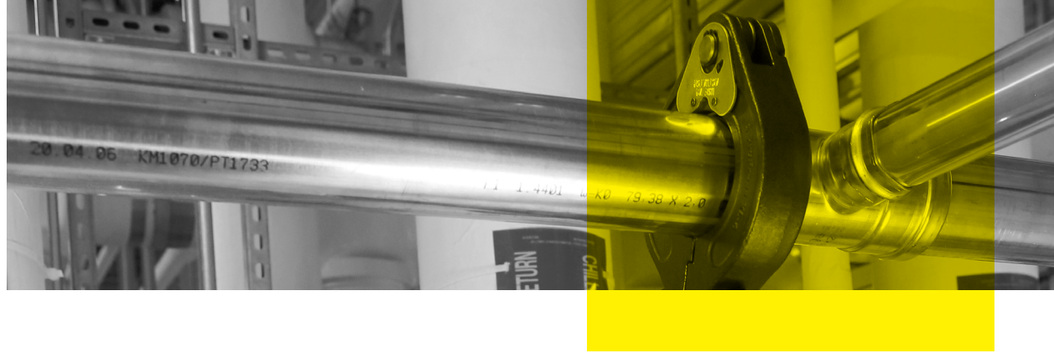
NOTES:

For applications requiring ProPress or ProPress Stainless with FKM or HNBR sealing elements, follow proper procedures to remove the factory-installed EPDM sealing element and replace it with a Viega FKM or HNBR sealing element.

- EPDM temperature ranges are typically 0°F to 250°F.
- FKM temperature ranges are typically 14°F to 284°F with temperature spikes (24hr) up to 356°F.
- HNBR temperature ranges are typically -40°F to 180°F.

Chart accurate as of October 2026 for a full list of approved applications speak with your Viega rep.

WE HAVE AN ANSWER.



SMART CONNECT® TECHNOLOGY

PROTECTING YOUR BUILD BEFORE IT GOES LIVE

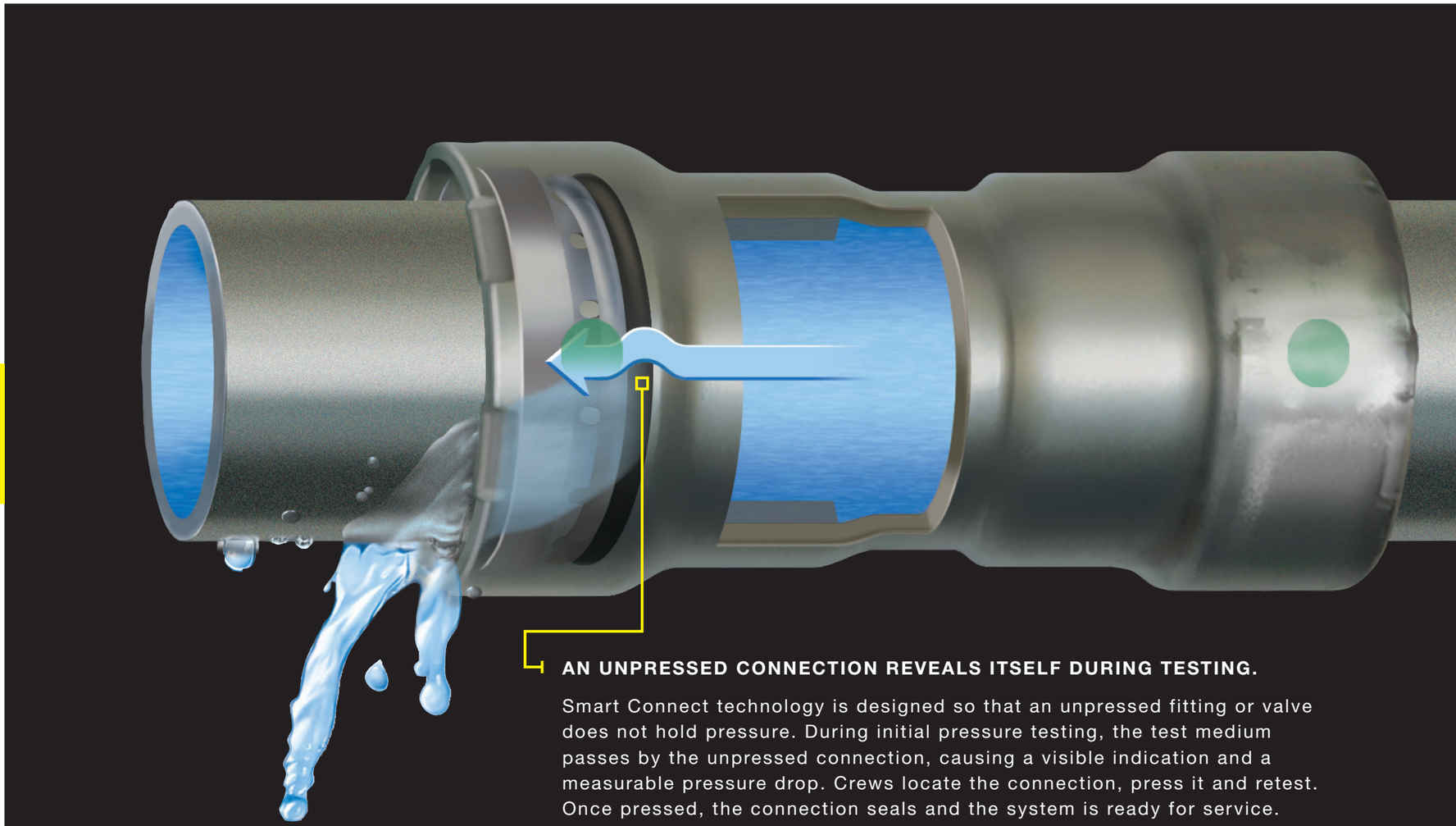
In a facility with thousands of joints, a connection that was never pressed is easy to miss during visual inspection. If it is missed during commissioning, it can surface later as a disruption in a live server environment, where the cost goes well beyond the repair.

Viega press fittings and valves with Smart Connect technology are designed to catch this error at the right moment: during pressure testing, before the system goes into service.

WHEN INSTALLED ACCORDING TO VIEGA'S GUIDELINES, SMART CONNECT IDENTIFIES UNPRESSED CONNECTIONS 100% OF THE TIME DURING INITIAL PRESSURE TESTING.

For contractors, unpressed connections are found and pressed before the walkthrough, not after turnover. For engineers and commissioning teams, a visual check becomes a measurable test result. For owners and operators, mission-critical cooling and power systems go into service with confidence that every connection has been pressed.

SCAN QR CODE
TO SEE HOW IT WORKS



AN UNPRESSED CONNECTION REVEALS ITSELF DURING TESTING.

Smart Connect technology is designed so that an unpressed fitting or valve does not hold pressure. During initial pressure testing, the test medium passes by the unpressed connection, causing a visible indication and a measurable pressure drop. Crews locate the connection, press it and retest. Once pressed, the connection seals and the system is ready for service.

RELIABILITY

THROUGH DURABILITY AND SYSTEM INTEGRITY

IN MODERN DATA CENTERS, SUSTAINABILITY DEPENDS ON LONG-TERM INFRASTRUCTURE INTEGRITY.

Viega's press technology fosters durability and reliability, minimizing the need for disruptive, costly and time-consuming maintenance, helping maintain your uptime.

Durability is engineered into every fitting and valve. Viega press systems have been subjected to rigorous seismic testing at the University at Buffalo's SEESL facility, following testing procedures referenced in the IBC and ASCE 7. Our systems are certified to ICC-ES AC156 for seismic performance. This same quality earned our MegaPress® CuNi system official Naval Sea Systems Command (NAVSEA) approval for maritime use. While NAVSEA approval is specific to MegaPress CuNi, all Viega systems are manufactured the same standards of resilience.

By ensuring such field-proven performance, we help reduce the resource waste and hidden costs of operational instability. Investing in these precision-engineered components reduces the unnecessary consumption of materials and labor that accompany unplanned interventions. And even when unplanned repairs are needed, Viega solutions help you get back up and running faster than traditional methods. Reliable, precise installations help protect mission-critical equipment and keep your facility performing as intended for years to come.





VIEGA PRESS TECHNOLOGY

CERTIFICATIONS AND COMPLIANCE

Our systems are built for demanding environments and backed by industry-leading third-party testing to standards like ASTM F3226, which results in classification as a listed component under ASME B31.1 (Power), B31.3 (Process), and B31.9 (Building Services). Beyond these essential standards, our solutions carry an extensive portfolio of approvals and listings from trusted third parties. Explore the chart below to see how our commitment to compliance supports the reliability your data center infrastructure requires.

LISTING, CERTIFICATIONS, CODES & STANDARDS	MEGAPRESS 304 & 316 STAINLESS STEEL	MEGAPRESS CARBON STEEL	MEGAPRESS G	PROPRESS	PROPRESS 316 STAINLESS STEEL	VALVES
OCP Accepted™	✓				✓	
ASTM F3226	✓	✓	✓	✓		
ASME B16.51				✓		
ASME B31	✓	✓	✓	✓	✓	✓
ASME B31.1	✓	✓	✓	✓	✓	
ASME B31.3	✓	✓	✓	✓	✓	
ASME B31.9	✓	✓	✓	✓	✓	
CSA B51	✓	✓	✓	✓	✓	
NSF/ANSI 61	✓			✓	✓	✓
NSF/ANSI 372	✓			✓	✓	✓
NSF/ANSI 359						✓
IAPMO/ANSI/CAN Z1117	✓	✓	✓	✓	✓	
ANSI LC 4a/CSA 6.32a			✓			
IAPMO/ANSI/CAN Z1157						✓
ANSI/CAN/UL/ULC 180			✓			
ICC-ES AC156 (Seismic Certification)	✓	✓	✓	✓	✓	✓
MSS-SP-110						✓
MSS-SP-139						✓
Canadian Registration Number (all Provinces)	✓	✓	✓	✓	✓	✓
IACS Type Approvals (Marine)	✓	✓	✓			

ENGINEERING SUPPORT THAT

MOVES YOUR PROJECT FORWARD

PRECISION BEFORE INSTALLATION HELPS KEEP MISSION-CRITICAL PROJECTS ON SCHEDULE.

Viega's team of more than 20 engineers brings expertise in plumbing, mechanical systems and design to help project stakeholders reduce risk and eliminate guesswork.

DESIGN & TAKE-OFFS

Detailed drawings, flow calculations and material lists built from 3D models, giving your team an accurate technical foundation before construction begins.

LABOR COMPARISONS

Quantified, project-specific time savings of press connect technology over welding, soldering and threading.

HYDRAULIC CALCULATIONS & RISER DIAGRAMS

Technical validation for projects with specific performance requirements.

FROM PLANNING TO COMMISSIONING, VIEGA'S ENGINEERING SERVICES TEAM FUNCTIONS AS AN EXTENSION OF YOURS, HELPING YOUR BUILD MOVE FASTER, WITH FEWER SURPRISES.





BUILT TO PERFORM

TRUSTED AT SCALE

CONFIDENCE IN MISSION-CRITICAL INFRASTRUCTURE ISN'T EARNED THROUGH CLAIMS. IT'S EARNED THROUGH PERFORMANCE.

Across data center projects nationwide, Viega's press technology and engineering support have helped teams hit aggressive timelines, simplify complex installations and protect system integrity from day one. The following testimonials reflect what's possible when speed, precision and partnership come together on the build that cannot afford delay.

TESTED BY PROFESSIONALS, PROVEN IN THE FIELD

JERRY FRANKS, SENIOR VP SERVICE OPERATIONS AT CPG

"For owners and operators, every day a data center comes online sooner is an opportunity to begin serving customers, generating revenue and meeting growing demand. The true value of Viega press technology lies not only in construction efficiency, but in its downstream business impact. We saved labor hours but more importantly, we were able to accelerate the timeline from capital investment to operational value while reducing the risks that can delay deployment."

HUNTER EMERY, ASSISTANT PROJECT MANAGER AT CONTI LLC

"In a data center, you're working around millions of dollars of equipment, so keeping the environment clean and working safely are critical. With thousands of joints on the project, Viega MegaPress Stainless made it much easier for our crews to make those connections without bringing the additional processes associated with welding into the space."

Project: 5C Data Center

FRED THORSEN, QC MANAGER AT APOLLO MECHANICAL CONTRACTORS

"There were three major benefits for us: speed, safety and reliability. From a schedule standpoint, press makes a tremendous difference. Instead of spending time teaching someone to solder or braze, we can train someone to make a press connection extremely quickly, even if they've never used the system before. On a project of this scale, that efficiency really adds up. We estimate the labor savings alone were close to 40%, and we saved hundreds of hours over the course of the build."

Project: Vantage Data Center, Reno, NV

SUPPORT
AT EVERY STAGE

RELIABLE INFRASTRUCTURE REQUIRES MORE THAN RELIABLE PRODUCTS. IT REQUIRES A PARTNER INVESTED IN YOUR PROJECT LONG AFTER THE FITTINGS AND VALVES ARE INSTALLED.

Beyond engineering and design assistance, Viega backs up every project with a full network of support built to keep your team informed, trained and running without interruption.

TECHNICAL SUPPORT

Our technical support team provides direct access to product experts who can answer application-specific questions, troubleshoot in the field and help resolve issues quickly, minimizing delays on jobsites where downtime is not an option.

HANDS-ON TRAINING

At our Seminar Centers, including more than 4,000 square feet of hands-on training space in Colorado, Ohio and Ontario through in-field sessions, our Viega technical trainers deliver real-world, hands-on instruction on press technology and installation best practices, ensuring crews install with consistency and confidence.

VENDOR MANAGED INVENTORY (VMI)

For distributors and partners managing high-volume projects, Viega's VMI program streamlines replenishment and prioritizes order fulfillment, helping ensure the right materials are on hand without tying up working capital in excess stock.

LOCAL FIELD SUPPORT

With a nationwide network of Viega field representatives and manufacturing and distribution facilities, Viega delivers the local presence and logistical reach to support projects of any scale, anywhere in the United States, Canada and Europe.

FROM THE FIRST PRODUCT QUESTION TO THE FINAL WALKTHROUGH, VIEGA'S SUPPORT NETWORK IS BUILT TO REMOVE FRICTION IN THE PROCESS, SO YOUR TEAM CAN STAY FOCUSED ON BUILDING PROJECTS THAT MATTER.

PRESS WITH CONFIDENCE
THE VIEGA EDGE

EVERY MISSION-CRITICAL BUILD DESERVES A PARTNER BUILT FOR THE SAME STANDARD OF RELIABILITY.

With more than one million square feet of dedicated manufacturing and distribution space, Viega helps get the right products where you need them, when you need them. A combination of precision and scale that few partners can match, giving your team the confidence to build faster without compromising on integrity.

From design through commissioning, Viega is more than a manufacturer. We're the partner behind every connection, committed to your project's success from day one and for the long term. A complete press system backed by engineering, training and field support; complete confidence at every connection.



READY TO ENGINEER CONFIDENCE IN YOUR NEXT BUILD?

REACH OUT TO DATACENTERS@VIEGA.US TO GET CONNECTED WITH ONE OF OUR EXPERTS.

Want to learn more about Viega solutions and how we can help you and your team on your next data center project? Visit viega.us/datacenter to learn more about our data center capabilities.

CONNECTED IN QUALITY

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