

ProPress

ProPress[®]
SYSTEM



Speed & Reliability You Can Measure™





PROPRESS IS SETTING NEW STANDARDS

ProPress Is Sweeping North America

Contractors across the country have put down their torches in favor of the ProPress System on tens of thousands of jobs, using millions of fittings to create measurable time savings and reliability gains.

SPEED

- Speeds installation time dramatically with press connections completed in as little as 4 seconds.

+ RELIABILITY

- Consistent tools mean water- and gas-tight joints every time.
- Patented Smart Connect™ Feature identifies unpressed connections so they are not left behind.

= MEASURABLE RESULTS

- Thousands of professionals are using the ProPress System to improve installation time, avoid leaks and provide a more professional looking job.



ProPress Offers More — Inside

PROPRESS FITTINGS With Smart Connect™ Feature



Green or yellow spots identify the patented Smart Connect Feature, which quickly identifies unpressed fittings so they are not left behind. Only Viega ProPress fittings offer the Smart Connect Feature.

COMPACT PRESSING TOOL



RIDGID Model Compact 100-B has 1" capacity, is 1/3 lighter and smaller, and is ideal for close quarters and residential work.

PROPRESS G™ FITTINGS With Smart Connect™ Feature



ProPress G fittings are approved for Natural Gas, LP Gas and Fuel Oil applications*.



* Refer to the ProPress Service Guidelines chart on page 9 to see a complete list of approved applications.

ProPress



ProPress Has Been Used Across North America In A Wide Variety Of Applications Including:

Stadiums & Arenas

Ford Field, Home of NFL's Detroit Lions

PNC Park, Home of MLB's Pittsburgh Pirates

Healthcare Facilities

Mayo Clinic

Cleveland Clinic

Educational Institutions

Mt. Holyoke

Oklahoma State University

Hotels & Entertainment

Disneyland/Anaheim, CA

Disney World/Orlando, FL

Mandalay Bay/Las Vegas, NV

Government

Pentagon

White House

U.S. Capitol

Industrial

General Motors

Airports

Detroit Wayne County Airport

Cleveland Hopkins Airport

Retail

Wal-Mart

Military Bases

Andrews AFB

McGuire AFB

Plus

Hundreds of other hospitals, factories, office buildings, retail outlets, ships, multi- and single-family homes.

"ProPress is the best investment I have made in the past 5 years. It has paid for itself job after job."

Rick Williams — Aquanaut Plumbing

"We love it for new construction because it presents the most professional image possible."

Mike Fitzgerald — East Coast Mechanical Inc.



PROPRESS OFFERS MEASURABLE BENEFITS

PROPRESS MEANS SPEED

MAKE 1/2" TO 4" CONNECTIONS IN SECONDS

High-speed pressing tools make connections in as little as four seconds so you can increase productivity, stay ahead of schedule, reduce costly project delays and take on more jobs than ever before.

SHORTER INSTALLATION PROCESS

Because there's no solder with the ProPress System, you can eliminate time-consuming cleaning, fluxing and soldering. Also, with the ProPress System, there is no need to fix connections because of incomplete solder fill discovered during pressure testing.

FLAMELESS REPAIRS MINIMIZE SYSTEM DOWNTIME

The ProPress System is the fastest solution for maintenance and emergency repair jobs where shutting off the water for hours causes major disruptions. With the ProPress System, users can make joints on wet tube, keeping the operation going and minimizing system downtime.



Users can make connections on wet tube, making repairs fast and flameless.

"The time savings of ProPress is incredible. That coupled with no leaks, unlike the 1 to 3% we used to get with soldering, has significantly increased our productivity."

Larry Lee — Lee Plumbing & Heating

PROPRESS MEANS RELIABILITY

"We have installed over 100,000 fittings to date without a single leak. That's consistent!"

Mike Haggerty — Haggerty & Company

HIGH-QUALITY FITTINGS

Fittings are thicker than Type K copper tube, the thickest plumbing tube, so they are built to last.

ACHIEVE CONSISTENT CONNECTIONS

The pressing tools are designed with automatic features, which deliver the same force and same connection with every pull of the trigger. The ProPress System eliminates variability seen with traditional joining methods where job conditions, tube size and installer-to-installer skill differences lead to inconsistent connections.

BACKED BY STRONG WARRANTIES

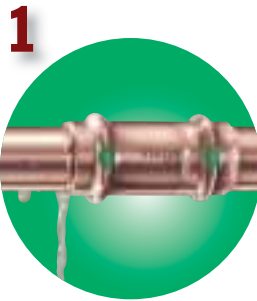
The tools are backed by the RIDGID Lifetime Warranty, and the fittings are backed by Viega's 50-Year warranty.



ProPress

SMART CONNECT FEATURE

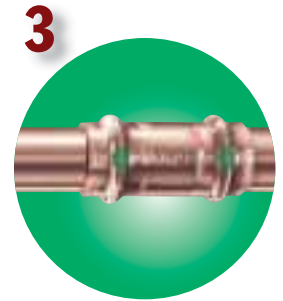
It's easy to spot Viega ProPress fittings with the patented Smart Connect Feature. Just look for the "spot," a patented indentation near the sealing element located opposite the green or yellow spot on the outside of the fitting. The Smart Connect Feature is a quick and easy way for installers to identify connections that have not been pressed so they are not left behind. Used in Europe since 2001, the Smart Connect Feature has assured hundreds of millions of leak-free connections for water and gas applications.



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



Use a RIDGID pressing tool and jaw to make a permanent leak-proof connection.



ProPress connections are fast, flameless and reliable.

PROPRESS MEANS MEASURABLE RESULTS

The ProPress System is a proven technology in wide use throughout the world. The ProPress System has rapidly become the preferred method for fast, clean and safe copper pipe joining. Because connections install so quickly, projects can be kept on or ahead of schedule.

RELIABILITY: The ProPress System minimizes test time because it consistently delivers water- and gas-tight connections every time, avoiding leaks.

SPEED: The ProPress System slashes installation time because connections take just seconds.





WHAT BRINGS US TOGETHER IS WHAT SETS US APART

The ProPress System is the result of a joint effort by two of the world's most-recognized names in plumbing — RIDGID and VIEGA. Individually, each company is a leader in its field, offering the best products with the best features and the best quality. Ridge Tool has been designing and manufacturing pipeworking tools since 1923, while the 105-year-old



RIDGID®

Ridge Tool Is The World's Technology Leader For Pressing Equipment, Making The High-Performance RIDGID Tools That Drive The Speed & Reliability Of The ProPress System.

With RIDGID, You Get:

- The fastest pressing tools in their class — to slash installation time.
- Tools with the durability and reliability you expect from RIDGID.
- Pressing tools engineered with automatic features — to ensure consistent joints.
- Tools and jaws designed in conjunction with the ProPress System fittings, ensuring total system compatibility.
- Wide capacity — one tool makes fast, reliable connections on 1/2" to 4" tube.
- Tools that tell you when scheduled service is due, ensuring peak performance and security.
- Support from the RIDGID Service Network, and backing by the RIDGID Lifetime Warranty.

*"The pressing tools are built to last and built for the trade.
That's what I expect from RIDGID and that's what I get, every time."*

Joe Cain — Watgate East

ProPress

Viega Company has been producing fitting systems for plumbing and heating applications. Together, these two manufacturers are leading the revolution in flameless, solderless pipe-joining with the ProPress System. Their combined expertise and experience have resulted in the world's premier pressing system for copper tube.



Viega Is The World's Innovation Expert For Press Fittings, And Is One Of The Country's Fastest-Growing Names In New Piping Technology.

With VIEGA, You Get:

- Innovative, patented Smart Connect™ (SC) Feature identifies unpressed connections so they are not left behind.
- High-quality fittings that are thicker than K-type copper tubing (the thickest copper tubing available).
- A wide selection of different fitting configurations (adapters, elbows, tees, reducers, etc.) for a wide range of water and gas applications.
- A fitting and sealing element that are designed, once pressed, to create a permanent water- and gas-tight seal.
- Support from one of the world's leading suppliers of fittings and plumbing components.
- Fittings backed by Viega's 50-year warranty.



"We make it a point to show our customers the ProPress fittings vs. standard solder fittings because it always leaves a lasting professional impression."

Fred Gardner — Badger State, Inc.

VIEGA FITTINGS WITH THE SMART CONNECT FEATURE



The ProPress System contains a series of engineered copper and bronze press fittings offered in hundreds of configurations and sizes ranging from 1/2" – 4". Fittings are offered with distinct sealing elements that, together, meet a broad range of piping applications.

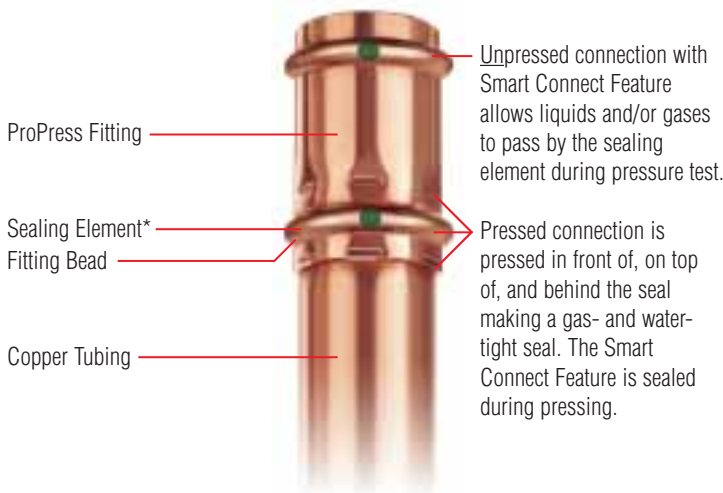
Benefits Of The Smart Connect Feature*

Description: Only ProPress System fittings offer the patented Smart Connect Feature, a quick and easy way for installers to identify connections that need pressing. Now with Smart Connect technology, you'll spot an unpressed connection during pressure testing.

Procedure: Installers follow the same process to install fittings with the Smart Connect Feature as with the standard ProPress fittings. Unpressed connections are located by pressurizing the system to 15-85 PSI for liquids, 0.5-85 PSI for gases. The Smart Connect Feature is not a substitute for local code requirements, and the final pressure test must be completed in accordance with local codes.

Here's How You "Spot" The Best Press Fittings

ProPress Fittings (1/2" to 2" Connections)



Available in the following styles*:

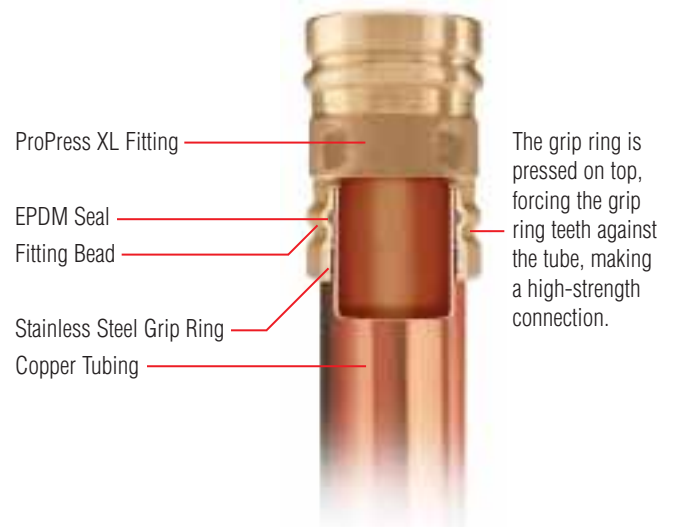
ProPress Fittings w/EPDM Seal*

Green spot identifies ProPress fittings that have the Smart Connect Feature

ProPress G Fittings w/HNBR Seal* for Natural Gas

Yellow spot identifies ProPress G fittings that have the Smart Connect Feature

ProPress XL Fittings (2-1/2" to 4" Connections)



Available in the following styles*:

ProPress XL Fittings w/EPDM Seal*

Unpressed ProPress XL fittings are easily identifiable and do not need or include the Smart Connect Feature.

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The differences between the distinct sealing elements* are the applications for which they are intended. Traditional ProPress fittings use a SHINY BLACK, high-performance, EPDM seal. New ProPress G fittings have a YELLOW, high-performance, HNBR seal. The patented Smart Connect Feature identifies unpressed connections so they are not left behind. Please refer to the ProPress Service Guidelines below for ratings and specifications for each style.

Here's How You "Spot" The Best Press-End Ball Valves

Two-piece full port ball valves include the Smart Connect Feature. Engineered to the same exacting standards of all ProPress fittings, the new valves meet the highest standards of safety and performance. Available in a variety of sizes from 1/2" to 2".



| PROPRESS SERVICE GUIDELINES ** | | Specialty Seals Factory Installed | | Specialty Seals Field Installed |
|---|--|-----------------------------------|-----------------|---------------------------------|
| TYPE OF SERVICE | System Operating Conditions | ProPress w/EPDM | ProPress w/HNBR | FKM |
| | | Color – Shiny Black | Color – Yellow | Color – Dull Black |
| FLUIDS | | | | |
| Hot and Cold Potable Water | 32°F - 250°F, max. 200 PSI | YES | NO | NO |
| Potable Water System Flushing | Compliant with major plumbing codes | YES | NO | NO |
| Chilled Water w/corrosion inhibitors | 0°F - 250°F, max. 200 PSI Ethylene Glycol - 50% max. concentration Propylene Glycol - 50% max. concentration | YES | NO | YES |
| Hydronic Heating | 0°F - 250°F, max. 200 PSI Ethylene Glycol - 50% max. concentration Propylene Glycol - 50% max. concentration | YES | YES | YES |
| Low Pressure Steam | Max. 15 PSI | NO | NO | YES |
| Rainwater/Greywater | 32°F - 250°F, max. 200 PSI | YES | YES | YES |
| Heating Fuel Oil | -40°F - 150°F Ambient, max. 125 PSI | NO | YES | NO |
| Diesel Fuel | Compliant with NFPA 30 and 30A | NO | YES | NO |
| GASES | | | | |
| Compressed Air w/less than 25mg/m ³ oil content | 0°F - 250°F Ambient, max. 200 PSI | YES | YES | YES |
| Compressed Air w/more than 25mg/m ³ oil content | 0°F - 250°F Ambient, max. 200 PSI | NO | YES | YES |
| Carbon Dioxide CO ₂ dry | 0°F - 250°F Ambient, max. 140 PSI | NO | YES | NO |
| Nitrogen N ₂ | 0°F - 250°F Ambient, max. 140 PSI | YES | NO | NO |
| Argon | 0°F - 250°F Ambient, max. 140 PSI | YES | NO | NO |
| Corgon | 0°F - 250°F Ambient, max. 140 PSI | YES | NO | NO |
| Argomac - K (welding gas) | 0°F - 250°F Ambient, max. 140 PSI | YES | NO | NO |
| Vacuum | Max. 29.2 inches of Mercury | YES | NO | YES |
| Natural Gas, Liquid Propane Gas, Mixed Fuel Gases, Manufactured Fuel Gases, Liquid Butane Gas | -40°F - 150°F Ambient, max. 125 PSI | NO | YES | NO |
| Oxygen O ₂ (non medical) | 0°F - 250°F Ambient, max. 140 PSI | YES | YES | NO |
| PROCESS PIPING | | | | |
| Ethylene Glycol, Propylene Glycol, Butylene Glycol | 0°F - 250°F max. 200 PSI 100% max. concentration | YES | NO | YES |

* Refer to ProPress Service Guidelines to select the appropriate seal for a specific application. Users can also buy FKM seals separately and install manually into 1/2" to 4" ProPress fittings.

** Warning: Consult Ridge Tool or Viega prior to the installation of ProPress or ProPress G fittings in applications outside of the listed pressure range, or for applications not listed above.

RIDGID TOOLS & JAWS FOR THE PROPRESS SYSTEM

Superior Pressing Tools Mean Superior Connections



Among the most critical components of the ProPress System are the highly engineered pressing tools. These tools use interchangeable jaws and rings to make 1/2" to 4" connections in just seconds. The rugged tools are designed for continuous pressing on all kinds of jobs — big and small. RIDGID pressing tools and jaws were designed in conjunction with ProPress fittings, ensuring compatibility.

STANDARD SERIES PRESSING EQUIPMENT (1/2"–4" Capacity)

CT-400 Corded Press Tool*

This rugged unit is designed for continuous pressing on a wide range of jobs. The corded power and durable design of the Model CT-400 make it the fastest, most rugged pressing tool in our line.



Standard Series Jaws*

The long-lasting jaws were designed in conjunction with ProPress fittings, ensuring compatibility. All RIDGID Standard Series pressing jaws are only compatible with RIDGID Standard Series pressing tools (CT-400, 320-E).



1/2"-2" Jaws

320-E Battery Press Tool*

This battery tool blends 4" capacity with reduced weight and size. This pressing tool features a barrel that swivels 90 degrees to allow the user to access hard-to-reach areas, and a jaw closure sensor alerting users to jaw obstructions or incomplete cycles due to low battery life.



Standard Series XL Press Rings

Ridge Tool also offers a series of patented press rings that are spring-loaded so they stay in place once they are snapped onto the fittings. These rings work with all Standard Series pressing tools used to make connections on 2-1/2" to 4" tube (CT-400, 320-E).



2-1/2"-4" Press Rings

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All RIDGID Standard And Compact Series Pressing Tools Feature:

- ▶ **SPEED:** Connections take less than 7 seconds regardless of size, dramatically cutting installation time.
- ▶ **CONSISTENT CONNECTIONS:** Cycle continues automatically once pressing action begins, assuring consistent connections. The tool cannot be removed from the fitting mid-cycle avoiding incomplete connections.
- ▶ **AUTOMATIC ACTION FOR CONSISTENT CONNECTIONS:** Automatic reset at end of each cycle so tool is ready to go as soon as you are.
- ▶ **TOOL READINESS FEATURES:** Shutoff switch stops cycle if jaw is not locked in position (prevents tool damage).
- ▶ **AUTOMATIC MAINTENANCE REMINDER:** Automatic recalibration reminder every 20,000 cycles to ensure peak performance and security.
- ▶ **PRECISION TOOLS & JAWS:** Designed in conjunction with ProPress fittings, ensuring total system compatibility.
- ▶ **WARRANTY & SERVICE SUPPORT:** Backed by The RIDGID Lifetime Warranty and a network of service centers.

COMPACT SERIES PRESSING EQUIPMENT

(1/2"–1" Capacity, Copper) (3/8"–1" Capacity, Viega PEX)

100-B Compact Battery Press Tool*

The 100-B Compact Battery Press Tool is one-third smaller and lighter than the 320-E Battery Press Tool, making it the most compact pressing tool ever developed by Ridge Tool. This tool delivers just the right capacity needed for small-diameter copper and Viega PEX tubing. With its reduced tool and jaw sizes, the Compact is designed specifically to fit into narrow spots for 1"-and-under applications.



Compact Series Jaws*

RIDGID Compact Series Pressing Jaws are 40% lighter and 33% smaller than Standard Series Jaws, enabling them to fit into tight spots. RIDGID Compact Series pressing jaws are only compatible with the RIDGID Compact Pressing Tool (Model 100-B).



1/2"-1" Compact Jaws For ProPress Fittings



3/8"-1" Compact Jaws For PureFlow (PEX) Fittings

* Available kits and accessories



Approvals

The ProPress System meets the most rigorous testing standards and codes in the United States, Canada and Europe. In tests conducted by NSF International, joints made by the ProPress System have rated test pressures of 600 psi, and working pressures of 200 psi within an operating temperature range of 0° to 250° F.

The ProPress System has the following approvals and listings:

- NSF-61 approval for potable water.
- Full IAPMO UPC listing for potable water.
- CSA listing for potable water and fuel gas (complies with CSA International Requirement 1-02 for Gas).
- ABS listing for shipbuilding applications.
- Complies with all U.S. plumbing codes.
- Complies with relevant ANSI, ASTM and ASME standards, including ANSI/ASME B16.22 and ASTM B88.
- Listed by international agencies such as DVGW, KIWA, DNV, Lloyd's Registry, RINA, Germanischer Lloyd, and Bureau Veritas.

Customer Service & Support

For large commercial projects, as well as residential construction projects and repair and renovation projects, the ProPress System offers a faster and more reliable way to join copper tubing.

The ProPress System is supported by hundreds of field support technicians to assist with training, project planning and submittals. Products are stocked nationwide by an extensive distribution network.

To learn more about the ProPress System or to schedule a demonstration: **800.769.7743**

For Product Application Assistance:

Technical Service – Tools: **800.519.3456**

Technical Service – Fittings: **877.VIEGA.NA**

propresssystem.com

ridgid.com

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This system is certified in accordance with ISO 9001/EN 29001.