

All About No-Hub Couplings

Explore the history, applications, and significance of no-hub couplings in this free guide!



Table of Contents

01 About Us

Meet the Ideal Tridon Group, a global leader in stainless steel hose clamps, strut channel and fittings, and more.

02 No-Hub History

Why was the no-hub coupling created and what preceded it? Find out more about the history of no-hub couplings!

03 When, Where, and Why You Might Need a No-Hub Coupling

Learn what applications call for a no-hub coupling vs. similar couplings.

04 Why Ideal Tridon?

Ideal Tridon's features and benefits combine strength and flexibility, allowing our customers peace of mind.

MEET THE IDEAL TRIDON GROUP AND
LEARN HOW WE CAN SUPPORT YOUR
SALES EFFORTS

About Us

IDEALTRIDONGROUP.COM



About Us

Ideal Tridon Group has a comprehensive offering of highly engineered components used to support, secure, and connect the movement of air, fluid, and electricity in critical applications.

For over 50 years, **Ideal Tridon** has been manufacturing no-hub couplings for the most recognized names in the business. Our couplings are listed or certified by all major plumbing code bodies throughout the U.S. and Canada, including ASTM, CISPI, FM1680, IAPMO, CSA, and NSF.



We're Here to Help

At Ideal Tridon Group, we pride ourselves on being 100% devoted to our customers. We want to be sure you have everything you need to be successful - including high-quality products and a stellar customer service team.

But we know sometimes you need more. That's why we created this guide: to help you learn about our products and how they can address your unique concerns.

Learn more about the Ideal Tridon Group:
IdealTridonGroup.com



WHY WAS THE NO-HUB COUPLING INVENTED?

No-Hub History

IDEALTRIDON.COM



No-Hub History

WHAT IS A NO-HUB COUPLING?

No-Hub Couplings are used to connect cast iron pipe and fittings. Cast iron pipe acts as a drain pipe and venting for sewer systems. This system is typically used in commercial buildings as it provides greater amounts of noise reduction, strength, and fire protection than PVC pipe. It is used both above and below ground depending on the plumbing codes in the area.

A no-hub coupling consists of three main components: the clamps, the shield, and the gasket. No-hub couplings come in many different forms, such as standard duty, heavy duty, and super heavy duty.



NO-HUB VS. HUB AND SPIGOT

Before the creation of the no-hub system, plumbers used a hub and spigot pipe connected with molten lead and oakum. This required great skill and was very dangerous, costly, and time-consuming.

The no-hub coupling became commercially available in the 1960s thanks to the residential housing boom caused by the G.I. Bill. Builders quickly realized they needed a safer and more efficient way to connect pipe in order to reduce their building costs. The shielded no-hub coupling streamlined the drain pipe installation process and revolutionized the market.

LEARN WHEN TO USE NO-HUB
COUPLINGS VS. SIMILAR COUPLINGS

When, Where, and Why You Might Need a No-Hub Coupling

IDEALTRIDON.COM



When, Where, and Why You Might Need a No-Hub Coupling

Cast iron piping is used in most commercial buildings such as hospitals, hotels, car dealerships, banks, office buildings, schools, and countless other facilities.

Even though ABS or PVC piping can be used for commercial buildings according to the Uniform Plumbing Code (UPC), oftentimes other local or state building codes may specify cast-iron pipe be used due to various reasons. Some codes limit plastic piping to no more than two story buildings. Cast iron piping is often specified because it is not susceptible to burning like PVC or ABS piping, should a fire occur.

Cast iron piping is often used in residential multi-story housing projects such as apartment complexes because it provides a much quieter flow of waste water than ABS or PVC piping. If you are ever on the first floor of a two-story building where you can hear the toilet upstairs flush – that is ABS or PVC piping at work!

Although no-hub couplings were designed for cast iron, they can be used to repair ABS or PVC piping with an adapter, especially when the piping is in a hard to reach spot.

No-Hub FAQ

Where are Ideal Tridon No-Hub Couplings manufactured?

Our Standard Duty, Heavy Duty Yellow®, and Super Heavy Duty Green® couplings are all made in the USA. The Classic and FastHub® lines are high-quality economy couplings assembled in Mexico using US steel and gaskets.

What is the temperature rating for Ideal Tridon No-Hub Couplings?

All of our no-hub couplings contain gaskets that are made of neoprene per ASTM C564. The maximum temperature that neoprene will accommodate with continuous service is 203°F with a maximum intermittent temperature of 212°F.

Is there a proper way to install Ideal Tridon No-Hub Couplings?

Yes! Please see our installation instructions for [Heavy Duty Couplings](#) and [Classic/Standard Duty Couplings](#).

OUR INNOVATION COMBINES
STRENGTH AND FLEXIBILITY

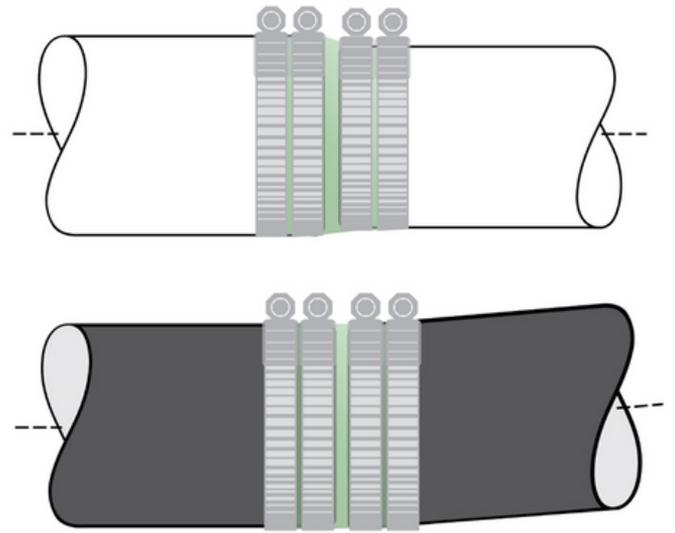
Why Choose Ideal Tridon?

IDEALTRIDON.COM



A THINNER, MORE EFFICIENT SHIELD

Ideal Tridon's thinner gauge shield material (.008" thick) helps "block" the torque from getting to the gasket. The thinner shield material allows more compression to reach the joint at the recommended applied screw torque while protecting the gasket. Our shield material is more forgiving and flexible, allowing greater deflection so the seal remains strong, unlike thicker shields.



INTERLOCKED HOSE CLAMPS

Our no-hub couplings utilize a one-piece interlocked housing. The one-piece housing is locked into the band, providing higher free torque. The housing will not lift if the clamp is over-torqued, unlike two-piece housings which tend to separate under higher clamping loads, causing clamping failure. **Ideal Tridon** invented the worm gear clamp over 100 years ago and we are the masters of clamp manufacturing, so you know you can rely on us.

VISUAL TORQUE INDICATOR

Ideal Tridon's market exclusive visual torque indicator is found on our Heavy Duty Yellow® and Super Heavy Duty Green® no-hub couplings. The indicator is designed to show the installer when clamps are properly torqued without using a torque wrench. When the tail of the hose clamp falls in the cross hatched area, installers know the coupling is tightened to the proper installation torque of 80 in/lbs.





BIDIRECTIONAL SHIELD DESIGN

A bidirectional shield has corrugations that run in two different directions. These corrugations prevent the shield from “bunching up” on itself, providing uniform contraction over the pipe. They also grip the gasket and impede its ability to stretch out from underneath the shield. This reduction in stretch translates to less movement, providing a better seal.

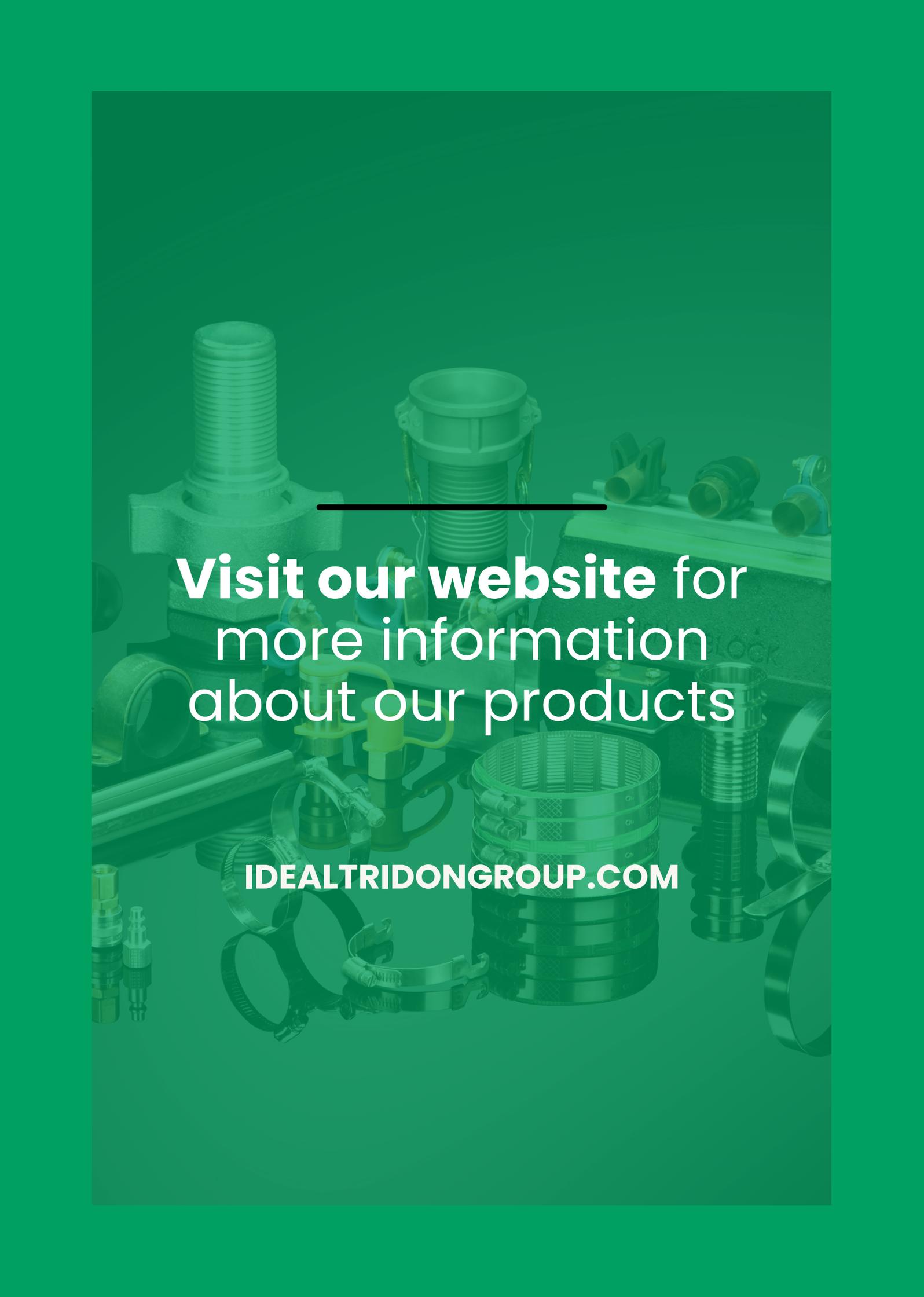
SPECIALLY BEADED GASKET

Ideal Tridon's no-hub couplings feature a specially beaded gasket in which the sealing ribs are offset from underneath the clamp band toward the inside of the center stop. This means that the tightened clamps are constantly pushing the gasket inward, which is the opposite direction the pipes want to move under pressure. This creates a more effective, reliable seal. Our gasket design is easier to roll over the cast iron pipe so installers can be sure they are seated properly on the center rib, ensuring proper installation.



FASTHUB® PUSH-ON COUPLING

The FastHub push-on coupling from **Ideal Tridon** requires no shield disassembly – just simply slide the coupling onto the pipe for fast and easy installation. The patented gasket design allows for rapid installation times and labor savings. The coupling can be lifted out of the box without falling apart, making it quicker and safer for difficult installation locations. FastHub is the only push-on style coupling assembled in North America, using USA steel and gaskets.



Visit our website for
more information
about our products

IDEALTRIDONGROUP.COM