

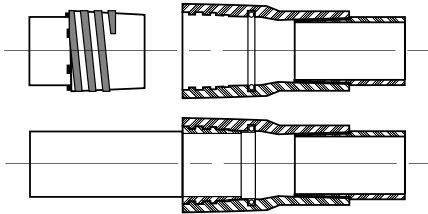
Pronto-Lock®

heavy-duty mechanical coupling system

Introduction

Pronto-Lock® is a heavy-duty threaded coupling system with a positive seal O-ring that provides a fast, simple, rugged and reliable means to install fiberglass pipe. The versatility of Pronto-Lock permits inexperienced crews to install pipe in all weather conditions and types of services.

Features



Large, fast-advance Acme type thread: Rugged molded fiberglass threads that prevent galling and will not crossthread.

Standard size O-ring: Use the standard Buna-N O-ring or choose from the broad selection available on special order.

Molded O-ring groove: Precisely positioned O-ring insures positive sealing and prevents movement, assuring pressure integrity.

Tapered sealing surfaces: During assembly, tapered surfaces precompress the O-ring for a positive seal—even in vacuum service.

User benefits

Lower, more predictable installation costs because the pipe is installed quickly under all weather conditions.

Specially trained crews are unnecessary since no special techniques or tools are required.

Immediate reusability permits handling, testing and backfilling without waiting for adhesives to cure.

Reusability of the mechanical joint permits use on temporary lines.

Construction

Pronto-Lock is made of fiberglass reinforced thermosetting resin with pressure, temperature and corrosion resistance equal to or greater than the pipe ratings. The threads and the O-ring grooves are molded; the female end is filament wound for extra strength. Male and female ends are bonded onto the pipe and the O-ring is placed in the groove at the plant. The pipe comes ready for assembly.

Installation savings

Specifying engineers recognize the total cost in getting today's pipe in service for profitable, uninterrupted service in the future. Material cost, corrosion protection and welding mean labor, time and money.

Thousands of miles of proven experience installing Bondstrand pipe is testimony to the economic advantages and dependability of reinforced thermosetting resin pipe (RTRP). Now Pronto-Lock goes one step further than the adhesive joining system with a reduction in labor of 25% and reduction in joint installation time of 50%.

In normal conditions, a 3-man crew can install 1800 feet of 2-inch Bondstrand pipe with Pronto-Lock every hour. Pipe crossings, ditch water, rain, cold weather and marshlands are no problem. Pipe with Pronto-Lock can be put into service immediately.

* U.S. Patent No. 3,784,239

Relative installation cost and time requirements

Nominal Pipe Size		4-man Crew 40-ft Steel Pipe Welded	3-man Crew 30-ft RTRP Bell x Spigot Adhesive Bonded	3-man Crew 40-ft Ameron RTRP Pronto-Lock Mechanical Joint
(in)	(mm)	(ft/8 hours)	(ft/8 hours)	(ft/8 hours)
2	50	3000	6000	15000
3	80	2400	5000	12500
4	100	1800	4200	10800
6	150	1300	3400	7200

Ease of installation

Bondstrand pipe with the Pronto-Lock joint installs twice as fast as pipe with adhesive joints, even by unskilled crews. Simply lubricate and insert the threaded male end into the female end and turn the pipe until the connection is firm. Tighten the joint with a strap wrench on the female end to insure full makeup. No adhesive. No welding. The joint makes up pronto!

Areas of application

Buried lines. Pronto-Lock allows immediate placement in the ditch, testing and backfilling—greatly reducing open ditch time.

Overhead lines. Pronto-Lock on lightweight Bondstrand fiberglass pipe allows safe, quick assembly on overhead pipe racks.

Surface lines. Bondstrand fiberglass pipe can be installed above ground.

Temporary lines. Pronto-Lock can be reused. The molded threads, when lubricated, prevent galling and facilitate reuse.

Individual system components may not have the same ratings as the pipe. Refer to the detailed product information for the specific components to determine the pressure rating for the system as a whole.

Crossovers and tools

Crossover pieces to make transitions to steel and crossovers with a choice of special end connections (grooved ends, NPT threads or flanged ends) are available on special order.

Important notice

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Written comments regarding this document are invited. Please write Engineering Manager, Ameron Fiberglass Pipe Group.



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Manufacturing plants: Burkburnett, Texas; Spartanburg, South Carolina; Geldermalsen, The Netherlands and Singapore. Bondstrand pipe is also manufactured in Japan and Saudi Arabia.