

# UNIFLEX COUPLINGS AND GENERAL USE VALVES

Reduce your maintenance and stocking costs with Nicholson's Uniflex Pipe Coupling. Uniflex has a spiral wound gasket that has successfully solved frequent leakage, intensive maintenance and stocking difficulties associated with ground joint pipe unions. A spreadsheet program is available upon request which calculates guaranteed savings when using Uniflex. Nicholson's innovations set the standard

# UNIFLEX CARBON/STAINLESS STEEL PIPE COUPLINGS

Pressures To 3000 PSIG  
Temperatures to 850°F

## Applications

- Steam Systems (up to 1500 PSIG superheat)
- Dowtherm
- Manifolds on Steam Traps, Valves, Pumps & Compressors
- Process Fluids & gases to 3000 PSIG CWP (ie: Acids, Caustics Nitrogen, etc.)
- Nuclear Power Plants
- Hydraulic Fluids/Hot Oils

### Reduced Energy Costs

Spiral wound gasket assures long life and leak tight seal.

### Accepted where Standard Unions are Inadequate

Seal equivalent to flange connections meets fugitive emissions needs.

### Suitable for Most Services

Carbon steel and 316L stainless steel housings and a variety of gasket materials available to meet demands of most applications.

### No Welding Damage to Seal

Because seal is installed after welding, the danger of damaging seal is eliminated

### Sizes to Meet Most Requirements

Available in 1/2" to 2", socketweld or threaded for a wide variety of piping needs.

### Reduced Labor Costs

No need to replace union housing or spring pipe during make-up or disassembly which reduces time by more than 60%.

### Reduced Cost of Materials

Only a change of gasket is required when disassembled

### Reduced Dollars in Inventory

Only a few gasket kits required. Components may be stocked and replaced individually because mated parts are not needed.

### Components Interchangeable

All components within each size class are fully interchangeable.

End connections can be socket weld, threaded or a combination of both.

Meets MSS-SP-83 for 3000 pound unions.

# UNIFLEX

## STEEL/STAINLESS PIPE COUPLINGS

Pressures To 3000 PSIG (207 barg)  
Temperatures to 850°F (454°C)

**No Energy Losses** - from expensive steam and process fluid leaks. A spiral-wound gasket ensures a leak-tight seal.

**Lower Maintenance/Labor Costs** - Replacement of the union housing is eliminated. Only a change of gasket is required when the Uniflex Coupling is disassembled. No need to spring the pipe during make-up or disassembly. It is less costly to make and break than flanges.

**Lower Inventory Costs** - Only a few Uniflex Pipe Couplings and gasket kits in each size are required to back up installations. One Uniflex satisfies all pressure series of flanges in pipe sizes 1/2" to 2".

**Ease of Installation** - The gasket is held firmly in place with a retainer. There is no danger of damaging the seal during installation as it is fully protected from overtorquing.

**Welded Piping Systems** - With the gasket removed while welding coupling into the piping, the danger of damaging the seal is eliminated. Costly removal of sections of pipe to replace leaky unions is eliminated.

**Component Interchangeability** - All components of the Uniflex Couplings, in each size class, are fully interchangeable. End connections can be socket weld, threaded, or a combination of both.

**Installation Tip:** Use UNIFLEX in all Regulator and Trap Stations through 2" to simplify future changeouts.

### MODELS

- **SUA-T**—Threaded Carbon Steel
- **SUA-SW**—Socketweld Carbon Steel
- **SUASS-T**—Threaded Stainless Steel
- **SUASS-SW**—Socketweld Stainless Steel
- **SUG**—Gasket Kit includes 10 gaskets.
- **SUGR**—Gasket Kit includes 10 gaskets and 10 retaining rings

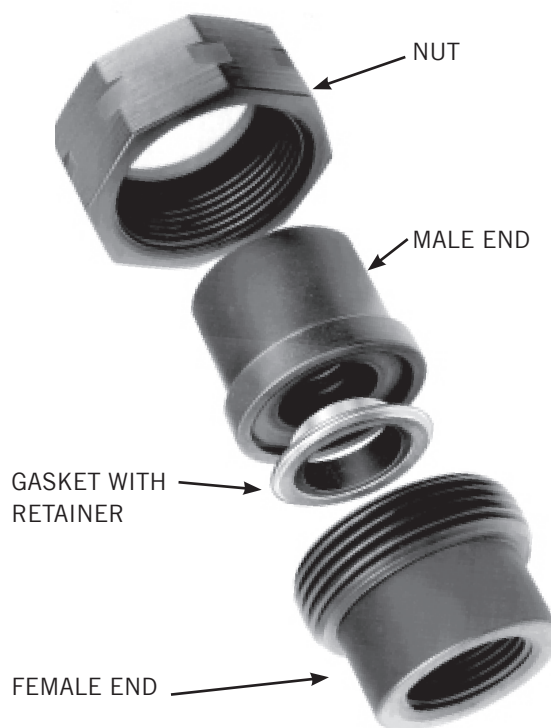
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### Operation

The Uniflex Pipe Coupling (SUA) has successfully solved frequent leakage, intensive maintenance and stocking difficulties associated with ground joint-pipe unions.

The SUA is a modified forged steel or stainless steel pipe union utilizing a Spiral-Wound Gasket to provide a leak-tight joint. This design,



### Applications

- Steam Systems—up to 1500 PSIG Superheat
- Dowtherm
- Variety of process fluids and gases to 3000 PSIG CWP, i.e.: Acids, Caustics, Nitrogen, etc.
- Steam Trap, Valve, Pump & Compressor
- Manifolds
- Nuclear Power Plants
- Hydraulic Fluids/Hot Oils

### Options

- Teflon Gasket Filler
- Type 347 SS, Type 316 SS, Monel, Inconel 600, Hastalloy, Nickel Gasket Windings (other materials available on request)

similar in principle to flange joints, has been proven in the field for many years. Because the joint seal is formed by the replaceable gasket (not a ground joint finish), failures caused by poor mating surfaces are eliminated. Components may be stocked and replaced individually because mated parts are not required for sealing.





