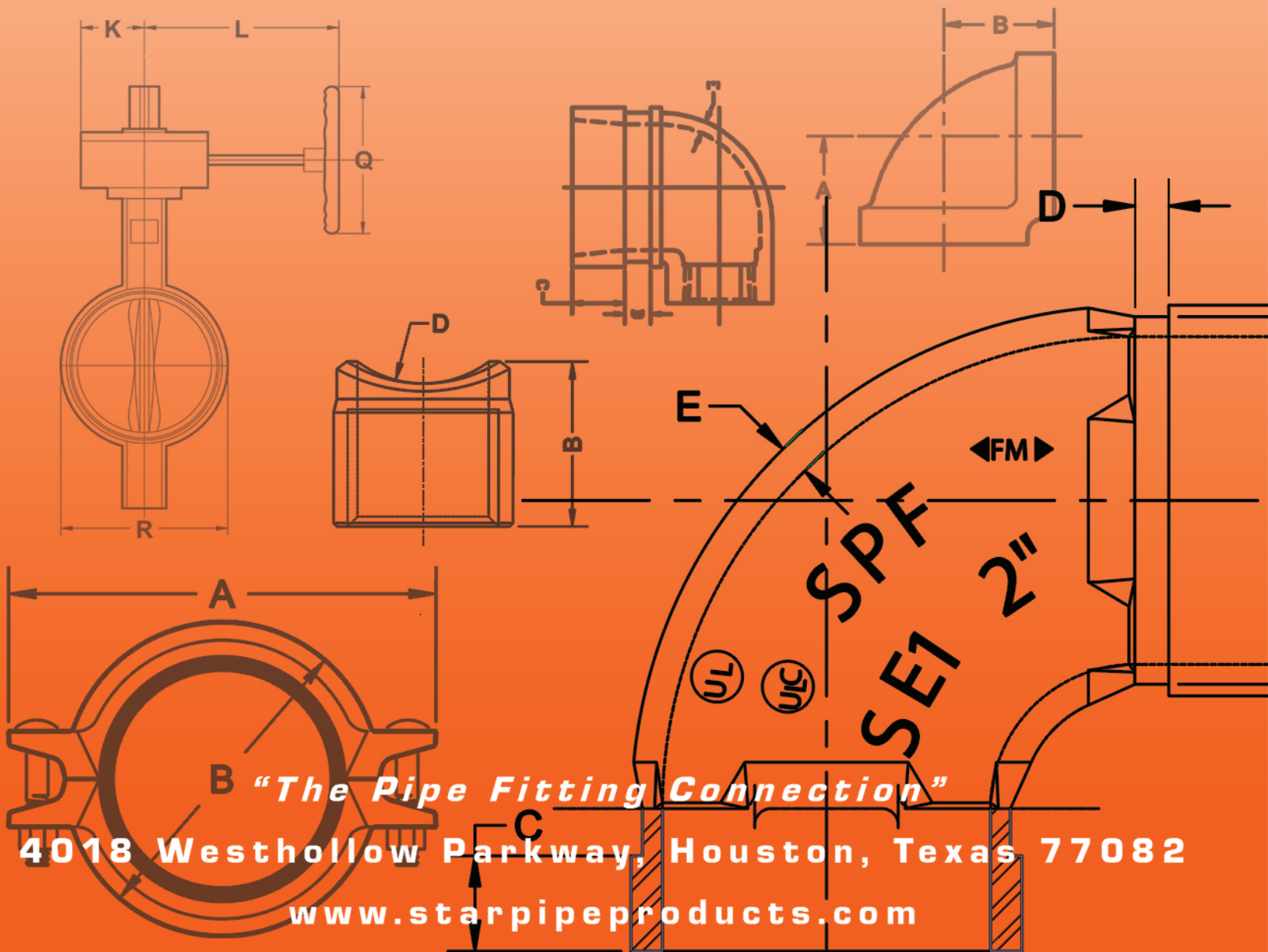




Fire Protection Products





“THE PIPE FITTING CONNECTION”

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4018 Westhollow Parkway • Houston, Texas 77082 • Tel: (800) 999-3009 • Fax: (281) 558-9000

www.starpipeproducts.com



Grooved Piping Components — General Data



ISO 9001

Star Pipe Products is ISO certified assuring conformance to quality standards listed in our quality control manual.

General Code Groups, Associations, Laboratories, and Approval Bodies:



LISTED

American Fire Sprinkler Association (AFSA)

American National Standards Institute / American Water Works Association (ANSI/AWWA)

American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE)

American Society of Mechanical Engineers (ASME)

American Supply Association (ASA)



LISTED

Building Officials and Code Administrators (BOCA)

C.R.N. Registered 0A0834.9087YTN, 0B0835.9087YTN

California Fire Marshals Association Listing No. 7515-1586:101, 7770-1586:100

Canadian Automatic Sprinkler Association (CASA)

Factory Mutual Research Corp. (FM) Approved for Fire Protection services

Loss Prevention Certification Board

Material Equipment and Acceptance (MEA) 171-97-E

National Fire Protection Association (NFPA)

New York Board of Standards

Southern Building Code Congress International (SBCCI)

Underwriter's Laboratories, Inc. (UL) Listed for Fire Protection Services

Underwriter's Laboratories of Canada (ULC) Listed for Fire Protection Services



MEMBER

Material Specifications:

Fitting/Housing Specifications:

Ductile Iron conforming to ASTM A-536, grade 65-45-12

Tensile Strength, 65,000 psi minimum

Yield Strength, 45,000 psi minimum

Elongation, 12% minimum

Finish, Rust Inhibiting Orange Paint, or Hot Dipped Galvanized per ASTM A153

Bolts:

Oval neck track head bolts per ANSI/ASME B18.10, Steel per SAE J429 Grade 5, Threads per ANSI B1.1 unified standard coarse Class 2A, Zinc electroplated per ASTM A164.

Nuts:

Heavy Hex per ANSI/ASME B18.2.2, Steel per SAE J995 Grade "2" or ASTM A563 Grade "A" or "B", Zinc electroplated per ASTM A164.

Gaskets:

Grade "E" Epdm gaskets color-coded green, recommended for water services—30 deg F to +230 deg F, see page 30 for gasket technical data.

Grade "A" EPDM gaskets color-coded purple, flush seal recommended for dry pipe or freezer systems.

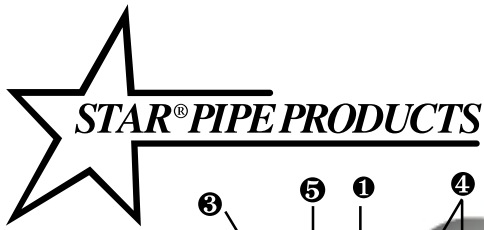
See page 30 for gasket technical data.

Grade "T" NITRILE gaskets color-coded orange, recommended for petroleum services. See page 30 for gasket technical data.



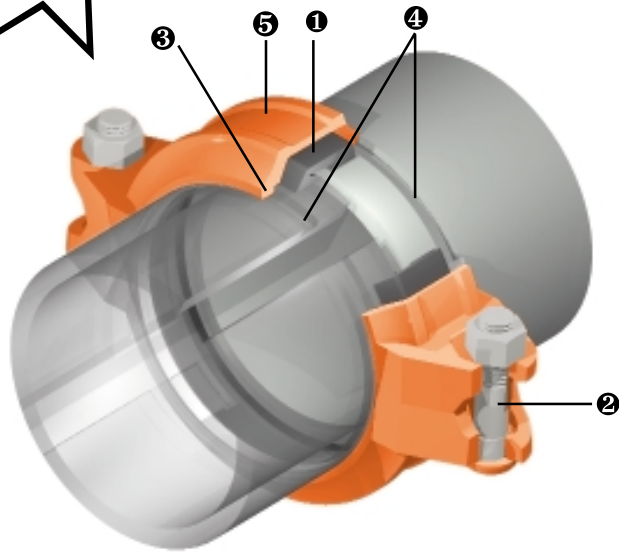
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DESIGN PRINCIPLE

FLEXIBLE COUPLINGS FOR GROOVED-END PIPE



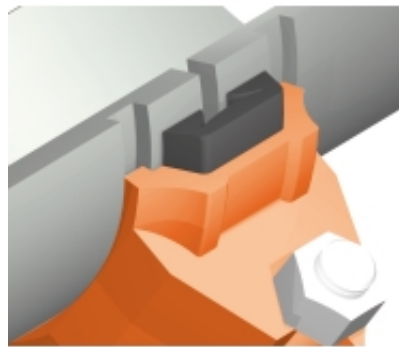
SPF Couplings accomplish pipe restraint by engaging the complete circumference of pipe end grooves. This mechanical locking together of the pipe ends enables the joint to achieve the rated pressure without blowing off or pulling out under vibration or sag. SPF Flexible couplings give pipe ends freedom to expand and contract with moderate temperature changes. Normal longitudinal and settlement stresses are relieved automatically.

Features:

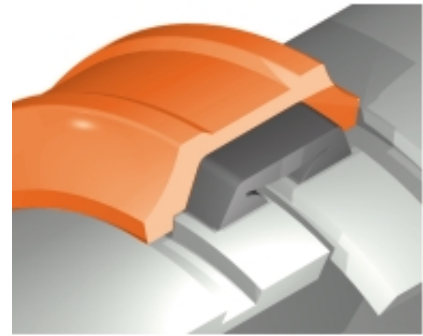
1. "Positive Seal" gasket
2. Oval neck track bolts
3. Housing-clamp key section
4. Grooved pipe ends
5. Housing segments



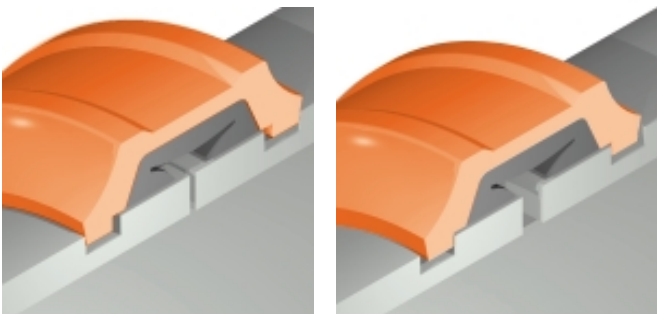
Easy installation. Couplings bolt up fast with standard socket or speed wrenches, therefore overall installation costs are reduced.



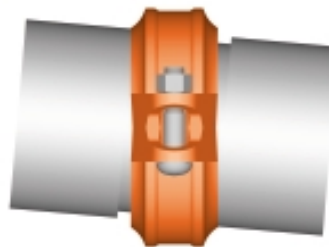
Positive mechanically locked joint. Housing sections engage the complete circumference of the pipe grooves. This mechanical locking together of the pipe ends achieves the full leaktight pressure rating of the coupling.



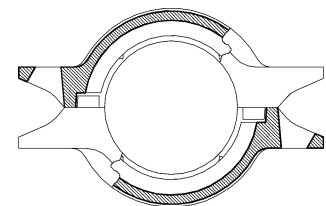
"Positive Seal". The type "C" standard gasket is designed to seat automatically as housing bolts are tightened to form a leak tight seal. The gasket also works well in vacuum service up to 10 in/Hg. For vacuum greater than 10 in/Hg use the flush type gasket.



Expansion and contraction. SPF Flexible couplings allow for pipe expansion and contraction with temperature changes. Longitudinal and settlement stresses are relieved automatically. The need for costly expansion joints may be eliminated.



Greater flexibility. With SPF Flexible couplings, pipe may be laid over irregular terrain, deflecting in any direction.



RIGIDITY. Where rigid connections are desired, we recommend the C-4 coupling. Its combination of anti-rotation teeth interlocking tongue and groove provide a positive clamp to oppose torsional and/or flexural movement.