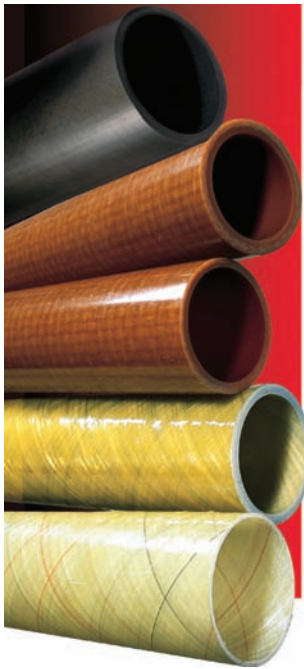


# Chemical & Industrial Overview

## Epoxy Piping Systems

When selecting a fiberglass piping system, operating temperature and chemical resistance usually dictate the appropriate resin system. Epoxy resins perform best in the presence of caustics, solvents, brines, petroleum products, and certain acids. Proprietary epoxies offer the highest temperature ratings, 275 degrees. Aromatic-amine cured epoxies offer ratings up to 250 degrees Fahrenheit. These systems can be installed in compliance with ASME B31.1 or B31.3 standards.



### Z-Core®

Capable of handling high concentrations of corrosive acids (including 93-98 percent sulfuric), alkalis, and solvents; exceeds the corrosion resistance of lined steel and alloys.

### Centricast Plus® RB-2530

Recommended for most caustics, salts, solvents, and many acids and chemical process solutions including steel pickling processes. It can also handle many abrasive slurries.

### Centricast® RB-1520

Primary uses include chemical process solutions, solvents, acids, caustics, and salt solutions.

### Green Thread®

Especially suitable for dilute acids and caustics, produced water, industrial waste, hot water and condensate return. Carries NSF Standard 61 for potable water service.

### Red Thread® II

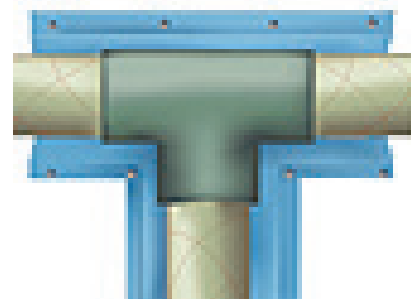
Extensively used for water and saltwater handling, CO<sub>2</sub>, crude oil, natural gas, and light chemical services including salts, solvents, and pH-13 solutions that corrode traditional metallic piping systems. This product is NSF Standard 61 Listed for potable water and can be supplied with a Factory Mutual listing for underground firewater systems in 4"-16" diameters.

Pipe	Size (In)	Resin	Pressure Rating (psig)	Inner Corrosion Barrier Thickness (In)	Temperature Rating	Joint Types	RTRP Class (ASTM D2310)	Product/Installation Manuals
Centricast Z-Core	1-8	Premium Epoxy	150-275	.100	275F/135C	Socket	RTRP-21CO	A2115 F6080
Centricast Plus RB-2530	1-14 Epoxy	Aromatic Amine	125-300	.100	250F/121C	Socket	RTRP-21CW	A1380 F6080
Centricast RB-1520	1½-14 Epoxy	Aromatic Amine	125-300	.050	250F/121C	Socket	RTRP-21CW	A1280 F6080
Green Thread	1-42	Aromatic Amine Epoxy	150-580	.015-.030	225F/107C	Bell & Spigot	RTRP-11FY	A1300 F6000
Red Thread II	2-3	Aromatic Amine Epoxy	150-580	Resin Rich	210F/100C	T.A.B. or Bell & Spigot	RTRP-11AF	A1200 F6000
	4-42						RTRP-11AH	

**Engineering Design** - A free software program called "Success by Design" has been developed that allows engineering review of flow, support spacing, thermal loads, hammer effects, and contains many other pertinent technical details.

## Secondary Containment

Two-piece secondary containment fittings are available in 3"-16" diameters for primary pipe sizes up to 14". The system is designed for maximum field flexibility, ease of installation and the ability to use one size larger containment. When higher pressure, larger diameter or severe temperature changes are required, special fittings can be provided to handle the added requirements.

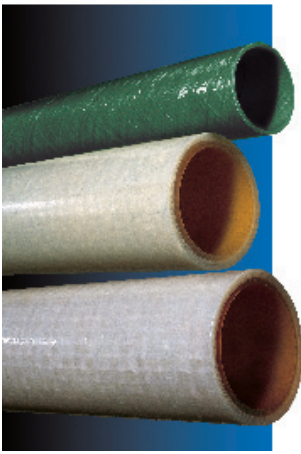


[www.fgsipipe.com](http://www.fgsipipe.com)

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1 (918) 245-6651

 **Fiber Glass Systems**



**Vinyl Ester Piping Systems** - Provides outstanding performance in mineral acid, chlorine, and oxidizing-agent applications. Premium vinyl ester systems handle temperatures as high as 225 degrees Fahrenheit.

**F-Chem®**

Custom piping is ideal for strong mineral acids and bleaching solutions and many chemical waste streams. Premium and fire retardant resins available.

**Centricast Plus® CL-2030**

Used for strong acids, chlorine, oxidizing agents, and chemical mixtures.

**Centricast® CL-1520**

Used extensively for a wide range of process solutions including acids, chlorine, and oxidizing agents.

Pipe	Size (In)	Resin	Pressure Rating (psig)	Inner Corrosion Barrier Thickness (In)	Temperature Rating	Joint Types	RTRP Class (ASTM D2310)	Product/ Installation Manuals
F-Chem	1-72	Polyester Vinyl Ester	50-150	.020-.250	225F/121C	Spigot, O-Ring, Flanged, Butt & Wrap	RTRP-12EU	A1880 F6080
Centricast Plus CL-2030	1-14	Vinyl Ester	125-300	.100	200F/93C	Socket	RTRP-22BS	A1580 F6080
Centricast CL-1520	1½-14	Vinyl Ester	125-300	.050	200F/93C	Socket	RTRP-22BT	A1480 F6080



**Specialty Piping Systems** - NOV Fiber Glass Systems completes the gamut of piping requirements with a variety of special purpose systems offering unsurpassed performance, longevity, and cost-saving value.

**Ceram Core®** - For applications requiring heavy-duty abrasion resistance, including bottom ash, dredge lines, wet process slurries, heavy salt slurries, and more.

**Silver Streak®** - Provides medium-duty abrasive resistance for flue-gas desulfurization scrubber applications such as limestone and gypsum slurries and similar uses.

Pipe	Size (In)	Resin	Pressure Rating (psig)	Inner Corrosion Barrier Thickness (In)	Temperature Rating	Joint Types	RTRP Class (ASTM D2310)	Product/ Installation Manuals
Ceram Core	6-16	Epoxy	100-225	.130	200F/93C	Flange	RTRP-11CF	A1700 F6460
Silver Streak	2-24	Epoxy	150	.080	225F/107C	Bell & Spigot Flanged	RTRP-11FF	A2000 F6000

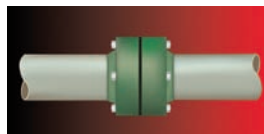
**Joining Systems**



**Bell & Spigot** - Matched taper joint secured with epoxy adhesive. Self-locking feature resists movement, facilitating joining long runs of pipe without awaiting adhesive cure.



**T.A.B.™** - Threaded and bonded joining system. Double-lead threads provide quick and secure adhesive connections during installation. Available for 2”- 6” **Red Thread II** pipe diameters.



**Flanged** - Available for all piping systems and diameters; factory assembled or shipped loose for assembly in the field.



**Butt & Wrap** - Plain end pipe or pipe and fittings butted together and wrapped with multiple layers of resin-saturated mat or woven roving. Use with all piping systems and diameters.



**Socket Joint**  
Adhesive bonded straight socket joint with positive stops. This is the standard for Centricast piping systems.

[www.fgspipe.com](http://www.fgspipe.com)

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