

GF Piping Systems

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# Engineered Plastic Piping Systems Product Guide





		Application	Technical Data				Valve Options											
Pressure Piping Systems	Applications*	Size Range	Pressure Rating	Temperature Range	Joining Technology	Standard Ratings	Double Contained Type 546 Manual Ball Valve	Type 530 AquaTap Recirculating Faucet	5 Series Diaphragm Valve	Type 519 Zero-Static Diaphragm Valve	Type 317 Flanged Diaphragm Valve	Type 546 Premium Ball Valve	Type 375 Ball Valve	Tee Valve	Type 561-562 Check Valve	Type 365 Butterfly Valve	Type 567 Butterfly Valve	Type 578 Butterfly Valve
		<ul style="list-style-type: none"> <li>Breweries</li> <li>Supermarkets</li> <li>Food Processing</li> <li>Cold Stores</li> </ul>	16-315mm (¾"-12")	Up to 150 PSI	-40°C to 60°C -40°F to 140°F	Solvent Cement	ISO 15493 DIN 3441	N/A	N/A	20-63mm (½"-2")	N/A	75-110mm (2½"-4")	16-110mm (¾"-4")	N/A	N/A	20-110mm (½"-4")	N/A	2"-12"
	<ul style="list-style-type: none"> <li>Breweries</li> <li>Supermarkets</li> <li>Food Processing</li> <li>Cold Stores</li> </ul>	25-315mm (¾"-12")	Up to 150 PSI	-50°C to 40°C -58°F to 104°F	Solvent Cement	ISO 15493 DIN 3441	N/A	N/A	20-63mm (½"-2")	N/A	75-110mm (2½"-4")	16-110mm (¾"-4")	N/A	N/A	20-110mm (½"-4")	N/A	2"-12"	2"-12"
	<ul style="list-style-type: none"> <li>Chilled Water</li> <li>Process Cooling Water</li> <li>Industrial Water Treatment</li> <li>Bulk Water Distribution</li> </ul>	2"-36" SDR 11/17	Up to 200 PSI	-50°C to 60°C -58°F to 140°F	IR Plus® Fusion Butt Fusion Electrofusion	ASTM D3035 FDA CFR 21.177.160 NSF 61	N/A	N/A	20-63mm (½"-2")	N/A	75-160mm (2½"-6")	½"-4"	N/A	½"-12"	½"-4"	N/A	2"-24"	2"-12"
	<ul style="list-style-type: none"> <li>Lab Grade DI Water</li> <li>Process Cooling Water</li> <li>Chemical Delivery</li> <li>Reverse Osmosis</li> </ul>	16-500mm (¾"-20")	Up to 150 PSI	0°C to 80°C 32°F to 176°F	IR Plus® Fusion Butt Fusion Socket Fusion	FDA CFR 21.177.1520 USP 25 Class VI NSF 61	N/A	25-75mm (¾"-2½"); 1½"-2½" sanitary	20-63mm (½"-2")	20-63mm (½"-2")	75-160mm (2½"-6")	16-110mm (¾"-4")	N/A	63-160mm (2"-6")	20-110mm (½"-4")	N/A	2"-24"	2"-12"
	<ul style="list-style-type: none"> <li>Lab Grade DI Water</li> <li>Pharmaceutical Grade Water</li> </ul>	20-90mm (½"-3")	Up to 150 PSI	0°C to 80°C 32°F to 176°F	BCF® Plus Fusion IR Plus® Fusion	FDA CFR 21.177.1520 USP 25 Class VI	N/A	25-75mm (¾"-2½"); 1½"-2½" sanitary	20-63mm (½"-2")	20-63mm (½"-2")	N/A	N/A	20-63mm (½"-2")	N/A	N/A	N/A	N/A	N/A
	<ul style="list-style-type: none"> <li>Lab Grade DI Water</li> <li>Reverse Osmosis</li> <li>Chemical Delivery</li> </ul>	½"-2"	Up to 150 PSI	0°C to 80°C 32°F to 176°F	Electrofusion Threaded	FDA CFR 21.177.1520 ASTM D 4101 ASTM F 1290 USP 25 Class VI	N/A	¾" - 2" (25-63mm)	½"-2"	½"-2"	N/A	N/A	½"-2"	N/A	N/A	N/A	N/A	N/A
	<ul style="list-style-type: none"> <li>Semiconductor UPW/HUPW</li> <li>USP Pharmaceutical</li> <li>Water for Injection (WFI)</li> <li>High Purity Acid Distribution</li> </ul>	20-450mm (½"-18")	Up to 232 PSI	-20°C to 140°C -4°F to 284°F	BCF® Plus Fusion IR Plus® Fusion Butt Fusion	ASME BPE FDA CFR 21.177.2510 USP 25 Class VI SEMI F57 FM4910	N/A	N/A	20-63mm (½"-2")	20-110mm (½"-4")	75-160mm (2½"-6")	N/A	N/A	N/A	N/A	2"-14"	N/A	N/A
	<ul style="list-style-type: none"> <li>Pharmaceutical Grade DI Water</li> <li>Acid Distribution</li> </ul>	20-315mm (½"-12")	Up to 232 PSI	-20°C to 140°C -4°F to 284°F	BCF® Plus Fusion IR Plus® Fusion Butt Fusion Socket Fusion	ASME BPE FDA CFR 21.177.2510 USP 25 Class VI FM4910, UL723, ASTM E84	N/A	25-75mm (¾"-2½"); 1½"-2½" sanitary	20-63mm (½"-2")	N/A	75-160mm (2½"-6")	16-110mm (¾"-4")	N/A	N/A	20-110mm (½"-4")	N/A	2"-12"	2"-12"
Waste Piping Systems	<b>Fuseal® PP Corrosive Waste</b> <ul style="list-style-type: none"> <li>Corrosive Waste Drainage</li> <li>Laboratory Waste Drainage</li> <li>Food Processing Waste Drainage</li> </ul>	1½"-18"	**Up to 50 PSI	0°C to 100°C 32°F to 212°F	Electrofusion Mechanical Joint	ASTM F 1412 ASTM D 3311 ASTM D 4101 NSF-cw	N/A											
	<b>Fuseal 25/50™ PVDF Corrosive Waste</b> <ul style="list-style-type: none"> <li>Corrosive Waste Drainage for Return Air Plenums</li> <li>Corrosive Waste Drainage at Elevated Temperatures</li> </ul>	1½"-6"	**Up to 50 PSI	-20°C to 140°C -4°F to 284°F	Electrofusion	ASTM F 1673 ASTM D 3311 ASTM E 84 UL 723	N/A											
	<b>Fuseal Squared™ PP Double Containment Corrosive Waste</b> <ul style="list-style-type: none"> <li>Double Contained Corrosive Waste Drainage</li> </ul>	1½"×4" - 8"×12"	**Up to 50 PSI	0°C to 100°C 32°F to 212°F	Electrofusion	ASTM F 1412 ASTM D 3311 ASTM D 4101 IGC 164-2001	N/A											
Containment	<b>Contain-It™ Clear PVC Secondary Containment</b> <ul style="list-style-type: none"> <li>Chemical Process Line Containment</li> <li>Corrosive Chemical Waste Containment</li> <li>Petroleum Chemical Containment</li> </ul>	3"-6"	Up to 32 PSI	0°C to 60°C 32°F to 140°F	Adhesive Joint	ASTM D 1784 ASTM D 3034 UL94 40CFR80	N/A											
	<b>Double-See™ PVC and CPVC Double Containment</b> <ul style="list-style-type: none"> <li>Water and Waste Water Treatment</li> <li>Chemical Delivery</li> <li>Dosing and Processing</li> </ul>	½"×2" - 6"×10"	Varies by size (primary) Up to 50 psi (secondary)	Varies by pipe	Solvent Cement	NSF/ANSI 14 & 61 ASTM D 1784 ASTM D 1785 ASTM D 2467	½"×2" - 2"×4"											



\*Please reference the GF Chemical Resistance Guide at [www.gfpiping.com](http://www.gfpiping.com) \*\*Standard test pressure up to 15 psi. Pressure waste discharge of up to 50 psi may be allowable.

# GF Piping Systems

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