

Professionalism in Piping

Mining



Industrial



Commercial



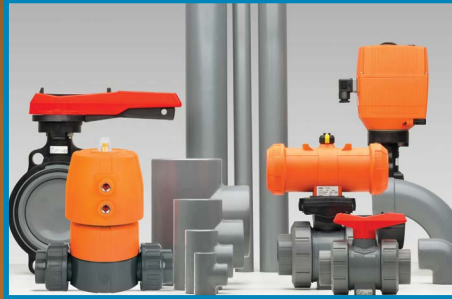
North QLD Distributor for

+GF+

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Telephone: 07 4957 5999

PIPING SYSTEMS



PVC-U

PVC-U's relatively low cost, biological and chemical resistance and workability, have resulted in it being used for a wide variety of applications. PVC-U systems can stand up to the most demanding conditions, particularly where media such as acids, alkalis, bases and salts are transported.

Pressure Rating:	Up to 16 Bar	Main Applications:
Temperature Range:	0 to +60 Deg C	Water / Waste Water Treatment
Joining Technology:	Solvent Cement	Marine
		Chemical Process Industry
		Power Plants

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PVC-C

PVC can be usefully modified by chlorination creating the material PVC-C. Similar in chemical resistance to that of PVC-U, PVC-C has a higher heat resistance so is primarily used for piping hot and aggressive media in highly corrosive environments, generally in the chemical process industry.

Pressure Rating:	Up to 16 Bar	Main Applications:
Temperature Range:	0 to +80 Deg C	Water / Waste Water Treatment
Joining Technology:	Solvent Cement	Marine
		Chemical Process Industry
		Power Plants

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PE (Polyethylene)

In piping construction, PE is most widely used for buried water and gas lines. Offering high impact strength with good abrasion resistance, PE has also become the material of choice on many sites for storm water, sewer, water, slurry transfer and compressed air lines.

Pressure Rating:	Up to 25 Bar	
Temperature Range:	-50 to +60 Deg C	
Joining Technology:	Electro Fusion Welding,	Infra-Red Welding Or
	Butt Fusion Welding,	Mechanical / Compression
	Socket Fusion Welding	

PE Electrofusion

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PE Buttfusion

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Compression Fittings

+GF+ compression fittings offer economical, quick and effort free jointing of all types of Polyethylene pipes, PE80, PE100, PEX and PVC with special transition fittings. Designed for use in water systems, +GF+ compression fittings require no special tools or equipment for the installation.

Size Range:	To suit pipes 20mm OD through to 110mm OD
Temperature Range:	-10 to +45 Deg C
Pressure Range:	Up to 16 Bar for the complete range.

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Double Containment

Double containment pipe systems are critical where there may be a risk to people, or the environment. Double containment systems are ideal for ensuring safety when transporting corrosive, toxic, or otherwise hazardous media. Should a leak occur in a conventional, single walled pipe system, the contents of the pipe escape into the surroundings, potentially harming people, the environment, equipment, machines and buildings.

Installing a double containment piping system will eliminate this issue. Leaks in the inner primary pipe result in the media being safely contained in the outer secondary pipe. Leak detection systems are available to alert operators when leaks occur.

Pressure Rating:	Up to 16 Bar	Material:	PE100 for Outer Jacket Pipe
Temperature Range:	-40 to +140 Deg C (depending on inner pipe material choice)		PVC-U, PVC-C, PE100, PP-H, PVDF for Inner (Media) Pipe.
Joining Technology:	Solvent Cement, Electro Fusion Welding,		
	Butt Fusion Welding, Socket Fusion Welding,		
	Infra-Red Welding.		

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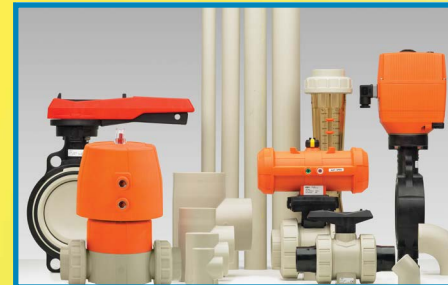


Cool-Fit

Cool-Fit ABS Plus is a pre-insulated plastic pipe system for secondary cooling, refrigeration systems operated with brine or water diluted glycols or systems where maintaining a constant low temperature is important. The system is based on ABS pipe and fittings, proven for their ability to withstand low temperatures, which are then insulated with high quality Polyurethane foam in addition to a robust and UV resistant PE100 outer pipe. Cool-Fit is ideal for use in cold storage, in food and beverage production and in supermarkets, as well as for process cooling in industrial cooling water systems or in data centres. In Australia Cool-Fit is ideal for eye wash and safety showers, particularly outdoors where keeping the flush water cool is vital.

Pressure Rating:	Up to 10 bar	Joining Technology:
Temperature Range:	-40 to +70 Deg C	Solvent Cement for internal ABS pipe.
		Simple and clever sealing of external PE100 pipe joints.

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PP (Polypropylene)

The highly resistant system offers numerous fields of application in a wide variety of industries. PP-H offers high resistance to stress fracture, pressure, abrasion, corrosion and temperature.

Pressure Rating:	Up to 10 Bar	Main Applications:
Temperature Range:	0 to +80 Deg C	Water Treatment
Joining Technology:	Butt Fusion Welding,	Chemical Process Industry
	Socket Fusion Welding,	Energy
	Infra-Red Welding	Life Science – low level pure water

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PVDF (Polyvinylidene fluoride)

PVDF is an excellent piping system for demanding chemical and water applications, even at elevated temperatures. Uses include delivery of pharmaceutical grade purified water (PW) and de-ionised (DI) water, using hot water steam or ozone sanitation. Due to its excellent chemical resistance it is also widely used in chemical distribution systems.

Pressure Rating:	Up to 16 Bar
Temperature Range:	-20 to +140 Deg C
Joining Technology:	Socket Fusion Welding, Butt Fusion Welding,
	Infra-Red Welding, Bead & Crevice Free Welding.

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Valves & Automation

A full range of manual and actuated valves are available for all plastic piping systems listed.

- Ball Valves
- Check Valves
- Diaphragm Valves
- Butterfly Valves
- Gate Valves
- Pressure Relief Valves
- Pressure Reducing Valves
- Air Release / Anti Syphon Valves
- Strainers

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Instrumentation

+GF+ Signet offer good quality, affordable sensors and transmitters for measuring, monitoring and controlling a wide variety of media within pipelines. Special installation fittings make installing +GF+ Signet sensors a simple task within all commonly used pipe materials.

Sensor applications include,

- Flow
- Pressure
- Temperature
- Level
- pH / ORP
- Conductivity
- Turbidity Analysers
- Chlorine Analysers

All +GF+ Signet sensors have compatible transmitters / controllers which can be connected back to PLC's, pumps and valves to assist with plant automation, or used for local visual indication.

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JOINTING TECHNOLOGY

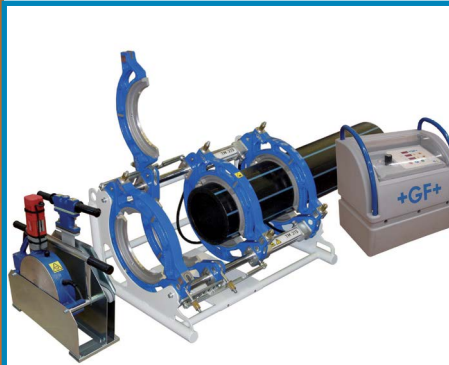


Solvent Cement

For all solvent cement systems it is vital that the cement and primer being used is designed for joining the pipe material selected. Solvent cementing is a simple and effective method of jointing and because it is permanent, correct procedures must be followed. For chemical pipelines the resistance of the solvent cement must be considered as well as the pipe, fitting and valve materials being used to carry the medium.

Solvent Cement Systems:

- PVC-U
- PVC-C
- ABS / Coolfit



Butt Fusion Machines

+GF+ Butt fusion machines are high quality, flexible and user-friendly machines for fusion jointing PE, PP, PB and PVDF pipes and fittings on building sites and in trenches. Available in sizes to weld pipes and fittings from 40mm through to 1200mm. Butt fusion involves heating both pipe ends simultaneously (1) until a melt state is attained at each contact surface, then these melted surfaces are brought together (2) under controlled pressure for a specific fusion / cooling time.



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Electro Fusion Machines

Electro fusion fittings contain a copper coil that when energized at a specified voltage causes the inside of the fitting and outside of the pipe to melt. These melted surfaces mix together under pressure obtained from the expanding molten material inside the joint and upon cooling fuse together creating a homogenous joint.

- The +GF+ MSA 330 electro fusion unit combines high performance in jointing with easy and safe handling. The internal memory has a capacity of 500 jointing records, for data transfer the unit is equipped with a USB interface. For fusion data input a barcode reader pen or a scanner is connected. The entire welding process is controlled and regulated. The MSA machine range has a robust aluminium housing and is suitable for jointing in series.
- The MSA340 is similar to the MSA330 unit providing an entire documentation of fusion and traceability data and in addition includes GPS coordinates which are added automatically to each fusion record. The internal memory has a capacity of 1000 jointing records.

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IR / BCF Fusion Welding: (Infra-Red / Bead and Crevice Free)

Modern welding techniques used for joining of (but not limited to) PP and PVDF systems. These techniques provide a high quality, contamination free weld and minimal, or in the case of BCF no weld bead. IR and BCF welding is primarily used in systems where any contamination of the media is unacceptable ie; De-ionised water and Pharmaceutical grade purified water.

+GF+ offer IR and BCF Fusion Welding machines suitable for welding pipes from 40mm through to 1200mm

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JP Piping Systems also specialise in

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- Backhoe & Excavator Hire
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