Hydrant Connections

Your applications
› our systems

+GF+

GEORG FISCHER
PIPING SYSTEMS

Leading know-how and expertise for all water distribution applications

Whether for transport or distribution piping systems, service connections or repair and maintenance – Georg Fischer has a variety of innovative techniques and specialised products designed specifically for the water distribution industry.
You have an application problem – we have an ideal solution.

A unique product diversity offering many distinctive advantages:

- ELGEF® Plus modular electrofusion system in PE 100
- POLY 16 Plus compression fittings with active sealing system
- MULTI/JOINT® with distinctive features: Wide range, effective sealing, end-load taking, corrosion resistance, full reliability and effective cost reduction

Your benefits at a glance

Duck-foot bends for PE and other materials.
Safe to use and reliable.
Georg Fischer has a suitable duck-foot bend to suit all situations, the PE version with electrofusion sockets or the MULTI/JOINT® type with an end-load taking variable-size coupling.

Integrated service connection.
Prevents stagnant water.
Both hydrants bends are available with an integrated service connection. This avoids any stagnant water build-up.

Connections for PE piping systems. Time-saving and economical in use.
The branch fitting with integrated electrofusion socket offers an ideal solution for tying-in hydrants. Whether the hydrant is to be mounted above or use a side-entry connection to the line, this fitting offers an easy, time-saving and economic solution.

Draw-Lock® flanges. Perfect transition from PE to metal.
The Draw-Lock® flange is a metal to metal to connection. Therefore, it is ideal for tying-in metal hydrants into PE piping systems.

Pull-out resistant connections.
For all material types.
Georg Fischer also offers pull-out resistant connections for non-plastic piping systems. MULTI/JOINT® fittings are, thanks to their wide adaptability to varying outside diameter tolerances, useable on differing types of pipe.

Base plates.
For safe and reliable operation.
Georg Fischer offers a simple solution to support the pipeline. The weight of the hydrant is fully sustained by a thermo-plastic base plate.

Hydrant connections – safe, reliable

When fire breaks out, the fire-fighters must be able to rely on a constant supply of water and know that all associated components will function correctly and continue to do so for many hours. The risk of a leakage or failure is considerably reduced if there are just a few connections and these are well made.
Flanged connections commonly used with valves or hydrants are especially vulnerable. Therefore, we have given very close attention to this issue.

Our solutions for the hydrant tie-in question are in complete accordance with recent developments, current regulations and standards.

Increasing sensibility towards health issues.
As a rule water is taken directly from potable water systems to fight fires. Generally places should be avoided where water can stand still for a long time. Side-entry hydrants are usually attached to a long length of pipe which is not continually flushed through. A more elegant solution to this problem is to have a direct service connection at the hydrant foot. The time-consuming periodic flushing of hydrants is thereby eliminated.

Fewer connections, safer system.
Each connection between a pipe, fitting or other component means a fundamental change to the characteristics of the system. Therefore, the number of connections should be kept to a minimum. Flanges are frequently used for the hydrant attachment. This point is particularly vulnerable to leakage as a result of bolt corrosion, the relatively large sealing area involved and potential differing material types at the tie-in.
With products from Georg Fischer on one hand fewer connections are required whilst on the other hand very interesting solutions for the various jointing techniques exist – precisely for the flange connection. Therefore, your system is safe and reliable.

End-load taking connections for more safety.
Even nowadays many connections are still made which are not end-load taking. Subsequently, extra precautions are necessary to make such pipelines end-load taking. Georg Fischer offers end-load resistant connections suitable for use on all pipe material types which are simple and safe to install. Also end-loading taking hydrants can be installed in all situations and to each pipe material type.

High working pressures cause no problems.
A current trend is towards smaller diameters and higher working pressures to ensure a minimal flow speed through piping systems. As a rule our products can be operated trouble-free up to 16 bar working pressure (at 20 °C). This is valid for electro-fusion, butt-fusion and compression joint fittings as well as for the MULTI/JOINT® range of couplings.

Applications

Above ground, side-entry, PE piping

Entirely in PE. Electrofusion jointing. Simple, elegant and corrosion-free.

The easiest and least expensive way of connecting a branch pipe to a PE main pipe is by using a branch saddle fitting. Branch saddle fittings are available in dimensions to match all hydrant sizes. The hydrant duck-foot bend is based on the well-proven ELGEF®-technology and incorporates a snap-over mechanism for easy one-man assembly. The PE spigot end on the hydrant can be either fused-in directly or it can be attached using either Draw-Lock® or a PE flange.

As an alternative, we also offer a duck-foot bend from thermo-plastic material having a flange as well as an integrated service connection with 63 mm spigot-end.

Above ground, direct connection, PE piping

Transition from PE to metal. Material-matched flange connection with Draw-Lock®.

Our Draw-Lock® flange represents the perfect transition from a PE main to a metal hydrant. Such connections are material-matched, in other words, all stresses are evenly transferred to the plastic material. As viable alternatives to the Draw-Lock® connection solutions in thermoplastic are also available. Using these, all risk of corrosion is avoided and the resultant tensile strength is comparable with that of a metal flange.

A tee or branch saddle fitting can be given additional support by using a foundation plate. This underlying support has a universal application from d90–160 mm and uses a strap for positive attachment to the pipe.

Below ground, side-entry, for pipes of all material types

Side-entry with integrated flange.
Universal application for all pipes.

All hydrant and valve types can be tied-in very simply to existing lines by using our stainless steel branch saddle. In addition, a corresponding tapping tool permits under-pressure tapping.

If required, the MULTI/JOINT® duck-foot bend is also available with an integrated female thread. Our transition fittings with metal thread outlets from the ELGEF® or POLY 16 Plus ranges permit a simple connection to domestic service piping systems.

Below ground, direct connection, for pipes of all material types

MULTI/JOINT® fits everywhere.
End-load taking on all pipes.

MULTI/JOINT® provides the perfect way to tie-in hydrants on all existing piping networks quite independent of their material type. Thanks to the wide tolerance band of the couplings, various pipe types with differing diameters can be joined together, end-load taking and for working pressures of up to 16 bar.

Our product range contains various possibilities for PE piping systems. We offer solutions using either butt-fusion or electrofusion (tees) for new installations. The branch fitting with electrofusion outlet suits itself ideally for line modifications or extensions.

GF Piping Systems › worldwide at home

Our sales companies and representatives
ensure local customer support in over 100 countries.

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