

GS-Hose Couplings



A proud addition to the elite GS-Hydro piping component family

GS-Hydro's new hose coupling product range is a combination of GS-Hydro's genius retaining ring connection technology and Gates' high pressure hose connection technology. This new coupling adds to the success of "Piping without welding" technology and provides

improved features. GS-Hose Couplings are developed together with Gates in order to achieve maximum benefits at both ends of the couplings. GS-Hose Couplings fit onto Gates' Global Spiral G5K and G6K hoses perfectly when using Gates' ferrules and

given crimping data. They have been designed together. The GS-Retain Ring technology gets all its' benefits from flexibility during installation and inventory reduction.

Key features of the GS-Hose Coupling

- Same coupling for 3000 psi and 6000 psi, need only change GS-flange
- Easy installation procedure based on GS-Retain Ring technology benefits
- Robust product – completely without welding
- No-skive construction saves time and labour
- Gates Bite-the-wire tooth profile for excellent coupling retention
- Works with all Gates high pressure spiral hoses
- Type approved by main classification companies (DNV, LR, GL, BV, ABS)



GS-Hose Couplings

Flexibility during installation

After the hose fitting is crimped to the hose, the flange is placed over the fitting end and then held by a retaining ring. When the flange engages the retaining ring, the flange is secured and can be bolted to the port. The flange rotates and is easy to adjust to the port end. If required it is easy to change the flange if needed because flange is not permanently locked onto the fitting.

No-skive coupling

When using the new GS-Hose Coupling the hose requires no-skiving, reducing the risk of contamination in hose assemblies, which comes with their skived counterparts. Furthermore, both time and labor can be saved by elimination the need for any additional skiving machinery. There is no harmful smell or smoke and the resistance against potential contamination is prolonged. Less wire is exposed to rust and ferrules are solid against the wire.



Tested beyond the standards

The new design has been developed to withstand higher impulse testing and can achieve working pressures up to 420 bar. The GS-Hose Coupling is having type approvals approved by DNV, LR, GL, BV and ABS – classified by GS-Hydro to retain ring connection and by Gates to hose connection.





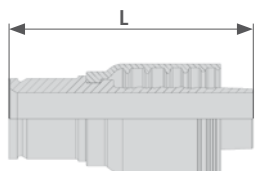
GS-PIPING WITHOUT WELDING™

Product range

GS-Hose Coupling is suitable for pressures ranging between 3000 and 6000 psi. Product portfolio comprises of GS-Hose Coupling sizes from 3/4inch to 2 inch (GS size 12-32). Hose couplings are available in straight, 45 and 90 degrees angles.

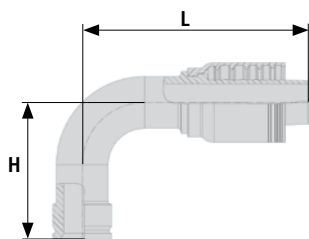
The raw material of the couplings and ferrules is carbon steel, plated with chromium 6-free zinc plating.

The new improved design includes several features that benefit functionality. That enables leak free, compact and secure assembly. It has all the benefits which GS-Hydro's genius retaining ring connections system has had over the past 30 years, now combined with Gates hose connection technology.



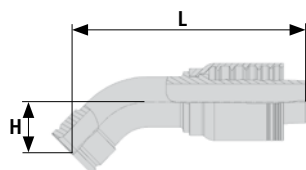
Straight GS-Hose Couplings (technical data):

Hose insert Part nr.	Hose insert ID Code	Ferrule Part nr.	Size	SAE 3000 Flange Type	SAE 6000 Flange Type	L
12020G	5301001100	G599-12	3/4"	312	612	100
16020G	5301001420	G599-16	1"	316	616	111
20020G	5301001820	G599-20	1 1/4"	320	620	128
24020G	5301002220	G599-24	1 1/2"	324	624	134
32020G	5301002620	integrated	2"	332	632	200



90° GS-Hose Couplings (technical data):

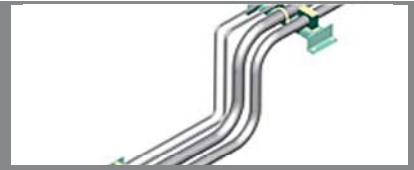
Hose insert Part nr.	Hose insert ID Code	Ferrule Part nr.	Size	SAE 3000 Flange Type	SAE 6000 Flange Type	L	H
12021G	5301042020	G599-12	3/4"	312	612	115	69
16021G	5301042420	G599-16	1"	316	616	134	78
20021G	5301042820	G599-20	1 1/4"	320	620	167	88
24021G	5301043620	G599-24	1 1/2"	324	624	177	102
32021G	5301044020	integrated	2"	332	632	254	126



45°-GS Hose Couplings (technical data):

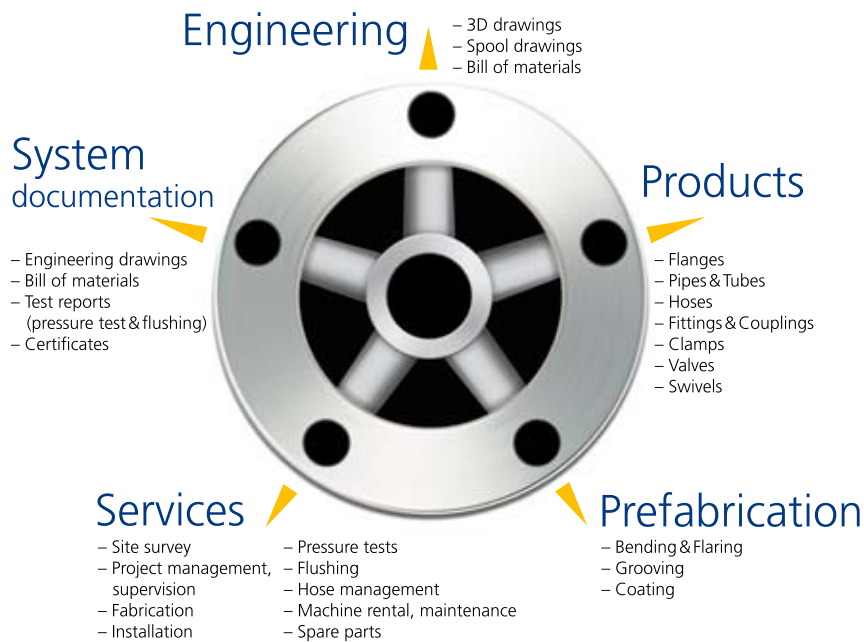
Hose insert Part nr.	Hose insert ID Code	Ferrule Part nr.	Size	SAE 3000 Flange Type	SAE 6000 Flange Type	L	H
12022G	5301040020	G599-12	3/4"	312	612	132	36
16022G	5301040500	G599-16	1"	316	616	152	38
20022G	5301040900	G599-20	1 1/4"	320	620	186	44
24022G	5301041220	G599-24	1 1/2"	324	624	200	52
32022G	5301041620	integrated	2"	332	632	274	60

Creating Value Together



GS-Hydro is the world's leading supplier of innovative, non-welded piping solutions for hydraulic, and other – both low and high pressure – applications with high demands on quality, reliability and cleanliness. Global GS-Hydro network helps customers to grow their business by offering high quality products and comprehensive services.

GS-Hydro system offering



Headquarters in Finland: GS-Hydro Oy, Lautatarhankatu 4, FI-13110 Hämeenlinna, FINLAND
 tel. +358 3 65 641, fax +358 3 653 2768, e-mail sales@gshydro.com
 Please view our web site to find GS-Hydro in Your region www.gshydro.com