

**GS-HYDRO**

# Tubes & Pipes

GS-Hydro Product Offering



**GS-HYDRO**

## Tubes & Pipes



GS-Hydro is a leading distributor of high quality precision steel tubing for demanding piping system applications. GS-Hydro works closely with its suppliers in order to have the most suitable high quality products in our offering. Please find more detailed information in [www.gshydro.com](http://www.gshydro.com) or our product offering catalogs.

High quality tubes and pipes are critical for a reliable piping system. Visit [www.gshydro.com](http://www.gshydro.com) to find out what other products GS-Hydro offers for a complete piping system.

Hydraulic pipe material	OD x s
<b>Stainless steel</b> ASTM A269 / A213 – Grade AISI 316L ASTM A312 / A530 – Grade TP 316L	6 x 1.0–80 x 10 1/2" x SCH10–24" x SCH160 21.34 x 2.11–609 x 59.51
<b>Carbon steel</b> E235N (St 37.4 NBK) to DIN 2391C (EN10305-4) E355N (St 52.4 NBK) to DIN 2391C (EN10305-4)	4 x 1.0–273 x 6.0 6 x 1.0–250 x 25
Note! Larger sizes and other materials such as duplex, super duplex, tungum, etc., are supplied upon special order.	

## GS-Hydro Value

Increase Customer's Revenue

Improve Efficiency

Eliminate Risks



### Hydraulic Pipe

GS-Hydro's product portfolio covers the wide range needed in high performance piping system applications (e.g. hydraulic lines):

1. Seamless cold-drawn precision steel pipes E235N (St 37.4) and E355N (St 52.4) according to EN 10305-4
  - a. E235N (St 37.4) – NBK
    - Normalized, phosphated and oiled inside and outside
  - b. E235N (St 37.4) – NBK/ZN
    - Normalized, electric zinc plated with Cr-VI-free passivation
  - c. E355N (St 52.4) – NBK
    - Normalized, phosphated and oiled inside and outside
  - d. E355N (St 52.4) – NBK/ZN
    - Normalized, electric zinc plated with Cr-VI-free passivation
2. Austenitic stainless steel pipes, seamless, cold-drawn 316L (1.4404) according ASTM-standards
  - a. AISI 316L – metric sizes fully annealed, scale free
  - b. TP 316L – schedule sizes fully annealed, scale free

### Multicore Tubes

GS-Hydro's multicore tubes are used for pneumatic and hydraulic remote control, measuring and monitoring systems. In addition to the multicore tubes, GS-Hydro also supplies the necessary connection tools and accessories such as heat shrinkable products, tube joint fittings, tube cutter and bending tools as well as trays, supports and binding tape for installation.

The multicore tube (outer sheath) is continuously marked at every one meter throughout the entire length for easy installation. Heat shrinkable products provide complete water sealing, abrasion and corrosion protection under all conditions.

### Material

By using high quality tube and pipe manufacturers GS-Hydro ensures a constant offering of quality tubes and pipes – with properties even exceeding standard requirements (e.g. yield and tensile strength). High tensile strength tube means higher permissible working pressures and reduced wall thickness, leading to reduced overall weight of the piping system.

GS-Hydro recommends the use of cold drawn pipes and tubes due to both quality (precision in dimension and shape) and for cleanliness reasons (no scale).

### Quality

In order to ensure quality and traceability GS-Hydro can deliver the pipes and tubes with either EN-10204 3.1. or EN-10204 3.2. certificates (in accordance with EU standard EN 10204 – DIN 50049) together with trace numbering.

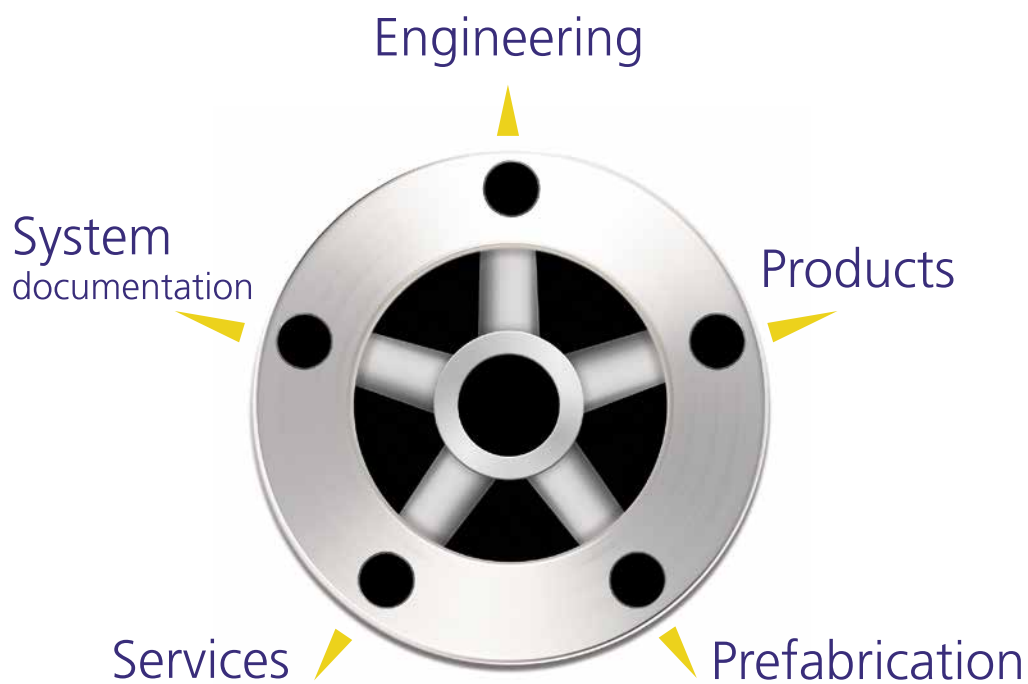
The required wall thickness and / or maximum allowable working pressure is calculated according to the following rules:

- DIN 2413/III
- Det Norske Veritas (DNV) classification of ships

Multicore tube technical data	
Tube type	Bare tube Sheathed single tube Multicore tube
Materials)	Stainless steel AISI 304/316/316L Copper Copper-nickel
Length	Standard 100-300 m, up to 600 m packed on a wooden drum
Tube diameter	6 - 15 mm (1/4" - 1/2")
Tube wall thickness	0.5 - 2.0 mm
No. of tubes per bundle	1 - 9 (max. 9 core)
Outer sheath	PVC, black in color with marking
Individual tube sheath	PVC, color identification
Note! All multicore tubes are supplied upon special order.	

**GS-Hydro** is the original provider of non-welded piping solutions with numerous benefits for a wide variety of demanding applications. The company operates globally in more than twenty-five countries through own companies and partners. GS-Hydro supplies complete piping systems with engineering, products, prefabrication, services and documentation.

## GS-Hydro system offering



ISO 9001  
MED 96/98/EC  
PED 97/23/EC

**GS-Hydro**  
sales@gshydro.com  
www.gshydro.com

