



Engineering Products for  
Oil and Gas | Petrochemical  
Food | Paper | Power



QUALITY CAN BE MEASURED

# About us

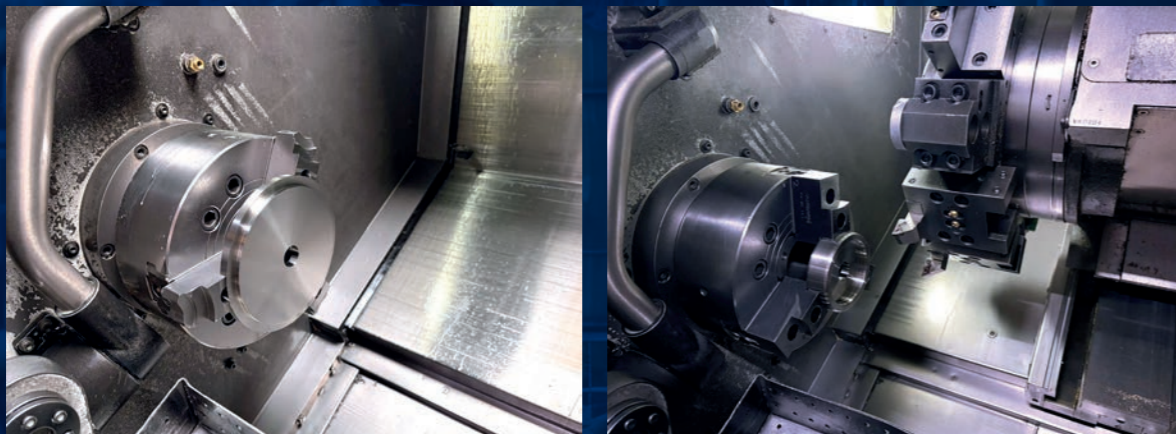
Den Holder was established in 1921, and since then has built up a worldwide reputation in its sector as a reliable manufacturer. Our specialisation is to design all our products in accordance with our clients' requirements.

Our products are differential pressure flow elements such as orifice plates and venturi tubes, but also other special piping parts such as length compensators, strainers, sample coolers and spectacle blinds.

Our organisation is made up of experienced and qualified people who have acquired all the necessary know-how to design, manufacture and test our products. Den Holder is certified according to ISO 9001. Short-notice deliveries are possible since all necessary equipment is available and raw materials are kept in stock. Our main goal is to deliver products of the highest quality and maintain a long-term relationship with all our clients.

The job starts for our engineers with the review of the technical part of your enquiry. After receiving the Requisition for Purchase, drawings, calculations, welding procedures, etc. are made for our workshop and, after delivery, the Data Books containing all (operating) information regarding the products are supplied.

In 2015 we opened a new office in Abu Dhabi where we also have production facilities in order to make same-day deliveries possible for maintenance requirements.



# Flow measurement products



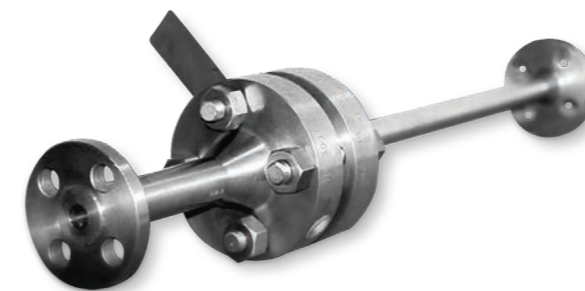
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## Orifice plates

Orifice plates can be designed and calculated in accordance with any required standard. Den Holder standard plates are in stainless steel 316L, with RF gasket surface and with material certificates 3.1B. Of course, all other materials, including material certificates, are possible, as well as other designs and standards, such as DIN or JIS, RTJ oval or octagonal.

Den Holder stamps the measured orifice diameter in the tagplate in order to use the exact dimensions in the flow computer. Strength calculations can be provided to check the thickness against pressure loss over the plate.

Since base materials are in stock for the most common sizes, prices can be kept low and delivery times are short. Rush deliveries can even be made the same day.



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## Orifice flanges & meterruns

Orifice flanges are manufactured as standard according to ASME B16.36, which means NPT flange tapplings complete with plugs and jackscrews. In the case of an orifice assembly this can be completed with orifice plate, studbolts, nuts and gaskets. The flanges can be optionally executed with other possible process connections, such as SW, BW, plain-end or flanged welding nipples. This can be completed with valves, condensate pots and differential pressure transmitters.

Orifice Meterruns are fabricated in accordance with ISO 5167 requirements and several construction codes such as ASME B31.3 or Stoomwezen Rules for Pressure Vessels. Apart from flange tapplings, the orifice flanges can also be executed with corner, radius or pipe tapplings. The flanges can be optionally supplied with dowel pins to ensure correct positioning of pipe-work up- and downstream of the orifice plate. Both orifice flanges and meterruns can be supplied in any required material complete with material certificates 3.1B or 3.2.

# Flow measurement products



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## Flow & venturi nozzles

Long Radius Flow Nozzles and ISA 1932 Flow Nozzles are manufactured from forged bar and can be welded in the line or placed between two (orifice) flanges. In that case the Nozzles are supplied with a spacer ring and gaskets. It is also possible to deliver the Flow Nozzle as a pipe spool with flanged or butt-weld ends.

Venturi Nozzles are designed according to ISO 5167 or DIN 1952. The Venturi Nozzles are manufactured from forged bar for sizes up to 12" to guarantee maximum roundness. A combination of forged bar and rolled plate is used for larger sizes. All welds are always machined flush with the inside diameter of the pipe.



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## Venturi tubes

Den Holder is a manufacturer of all types of Venturi Tubes, which are designed in accordance with our clients' requirements, or any international standard. The most commonly used standard is ISO 5167, which covers three types of classical venturi tubes:

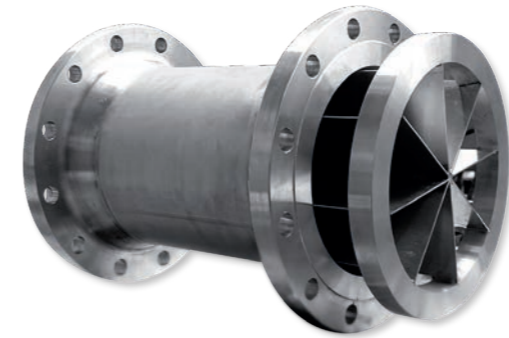
- A:** Venturi tube with a cast convergent section
- B:** Venturi tube with machined convergent section
- C:** Venturi tube with a rough-welded sheet-iron convergent section

We can machine Type B venturis over inlet and outlet sections over the whole range of ISO 5167. Type C venturis are made out of a machined throat section and sheet steel inlet and outlet cone sections. The throat section can be honed to achieve a smoother surface roughness. Type C venturis are reinforced with stiffeners and supplied with lifting lugs.





# Flow measurement products



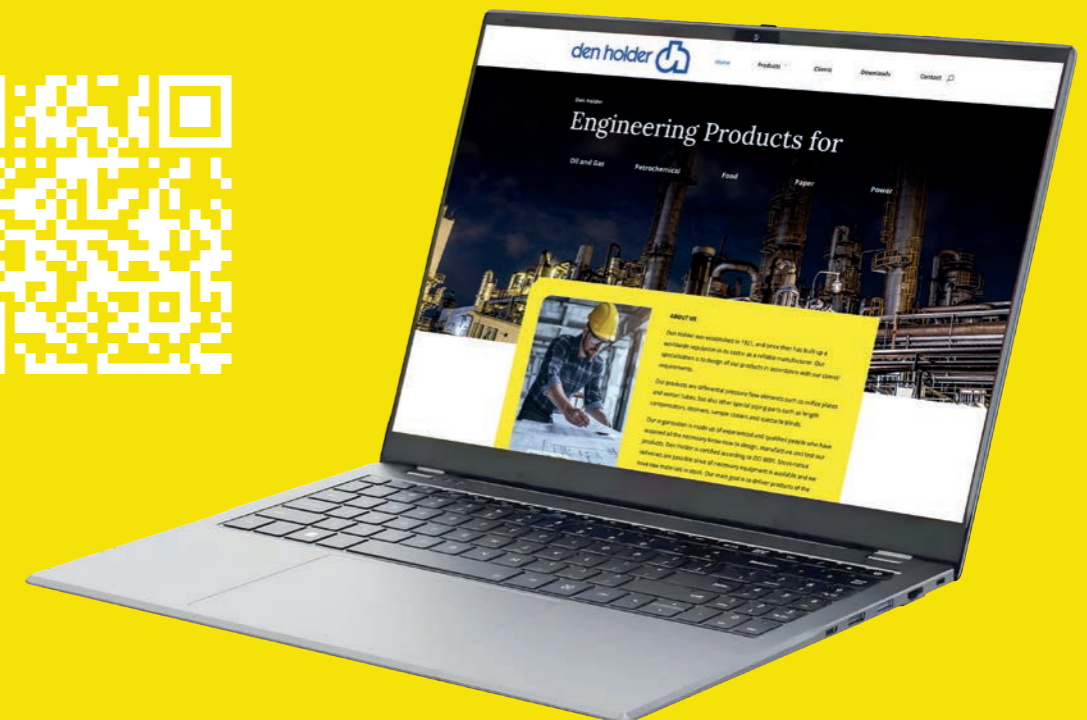
## Flow straighteners

To use the most common differential pressure meters the flow in the line needs to be as smooth as possible, i.e. without turbulence. Flow Straighteners are designed to remove swirl and to restore an acceptable reference profile geometry in a line where installing of sufficient straight length is not possible.

Depending on the amount of swirl and distortion and the allowable permanent pressure loss, several types of Flow Straighteners are available, such as 'Zanker', 'Etoile', 'Sprenkle', Tube-bundle, AMCA or AGA/ASME types. Den Holder manufactures Flow Straighteners in any required material and dimension for any required pipe standard.



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A silhouette of a worker wearing a hard hat and a high-visibility vest, holding a tablet, stands on the left side of the frame. The background features an offshore oil rig at sunset, with the sky filled with vibrant orange and red clouds. The rig's structure, including tall towers and platforms, is silhouetted against the bright horizon. The water in the foreground reflects the colors of the sunset. The text is overlaid in the center of the image.

Our goal is to be  
**customers' first choice**  
and to  
**deliver excellence**  
on every project - worldwide

# Special piping products



## Strainers

Den Holder is a manufacturer of several types of strainers, screens and sieves which are designed in accordance with our clients' requirements or any international standard. Strainers can be manufactured from pipe, fittings, plate or castings.

Standard designs are T- and Y-type strainers, bucket-type strainers and conical strainers. Other designs can be engineered by us and checked for strength and open area ratio to achieve the lowest possible pressure loss. All strainers are manufactured to the highest standards of accuracy so as to be perfect safeguards with minimum pressure loss.

Design, manufacturing and testing are covered by our ISO 9001 Quality System and all required documentation such as WPS/ PQR and NDE reports can be included.



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## Sample coolers & cabinets

Den Holder designs and manufactures several types of Sample Coolers, which are designed in accordance with our clients' requirements or any international standard.

The coils can be supplied in any material with the in- and outlet connections in any required position. Execution of the in- and outlet is SW as standard, but can also be delivered flanged or threaded. The Coolers can optionally be delivered with support legs or mounting brackets.



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# Special piping products

## Spectacle blinds, spades & spacers

Spectacle blinds, spades and spacers are manufactured in accordance with our clients' requirements, using any specified material and supplied with the corresponding material certificate.

The spectacle blinds, spades and spacers are flame-cut from plate material and are machined with a smooth or stock finish gasket contact surface. RTJ male and female is also possible. Larger sizes are welded by qualified welders. Sizes over 8" are supplied with lifting lugs. Colour coding will be applied if required.



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## Thermowells

Den Holder manufactures thermowells in any required material and in accordance with any applicable standard drawing. This means the thermowells can be supplied in any required length with threaded ends, socket weld ends or flanged ends, in which case the welds are made by qualified welders and supported by welder qualification documents. Most common steels and stainless steels are on stock in order to make fast deliveries possible.



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# Special piping products



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## Level chambers

Why do we use level chambers?

Level chambers, also known as bypass chambers, bridles, or cages, are used to measure the level of liquids in tanks or vessels, particularly in industrial settings. They are often used when direct measurement is difficult, dangerous, or impractical.

Den Holder advanced external mounting Level Chambers offer unmatched performance for process-level instrumentation. Built to meet the rigorous demands of critical applications, these solutions deliver maximum reliability, easy maintenance, and broad compatibility.

Designed for external mounting, enabling live maintenance by isolating instrumentation from the process and allowing servicing without system shutdown.



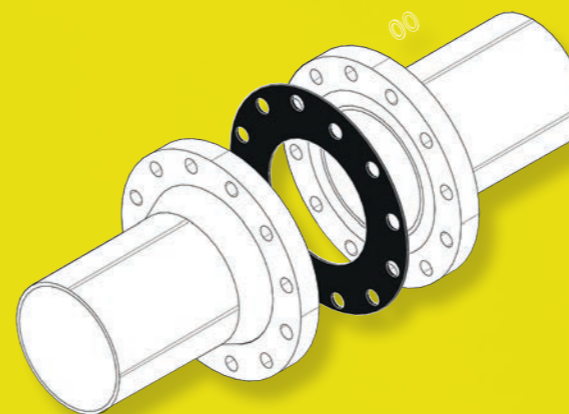
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## Sample and injection quills

Why do we use sample & injection quills?

Sample and injection quills are used in process systems for different, but related, purposes. Injection quills are used to introduce chemicals into a process stream, typically to treat the fluid or maintain the system. Sample quills, on the other hand, are used to extract fluid samples from the process stream for analysis.

Den Holder Sample and injection quills are specialized devices designed to safely introduce or extract fluids from a pressurized pipeline. Our design ensures chemical compatibility, mechanical integrity, and flow efficiency. Critical parameters such as wake frequency and unsupported length are considered to ensure operational safety.



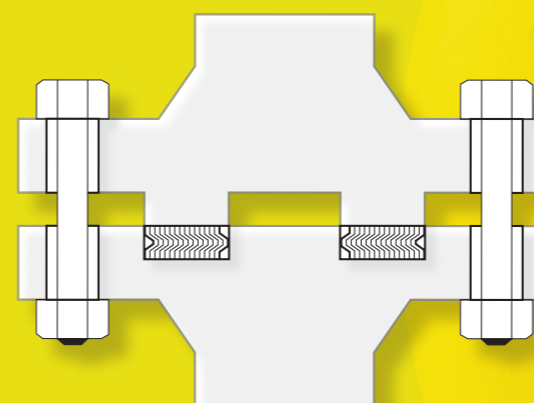
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## Insulation gasket kits

Den Holder manufactures and supplies Flange Insulation Sets which include gaskets (type F, E or D), sleeves and washers. The most common style of gaskets is Type 'F', where the gasket is designed to fit in between the Bolt holes, Type 'E' which is designed with a full-face gasket or Type 'D' where the gasket is Ring Type Joint.

The Flange Insulation is required to avoid leakages due to corrosion. Stray electric currents in the piping system can be controlled and electrolytic corrosion eliminated.

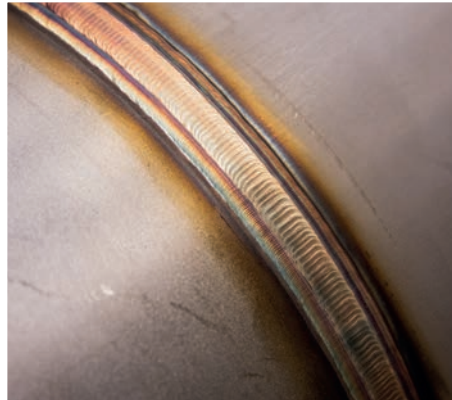
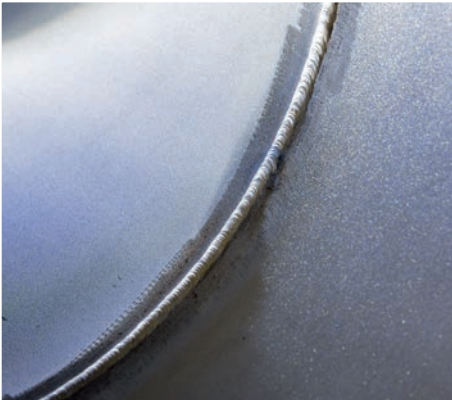
Each set will be supplied separately packed and labelled with the flange tag number, line size, rating and type. Besides standard sets we manufacture to any required specification.



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## Spiral wound gaskets

Spiral Wound Gaskets (plural) are semi-metallic gaskets designed for high pressure and temperature applications. The gaskets can seal fluid pressures up to 250 bar and operate within a temperature range from 200°C to over 450°C. A variety of forms of the gasket is available and these can be manufactured in a variety of materials or sizes to suit requirements.



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