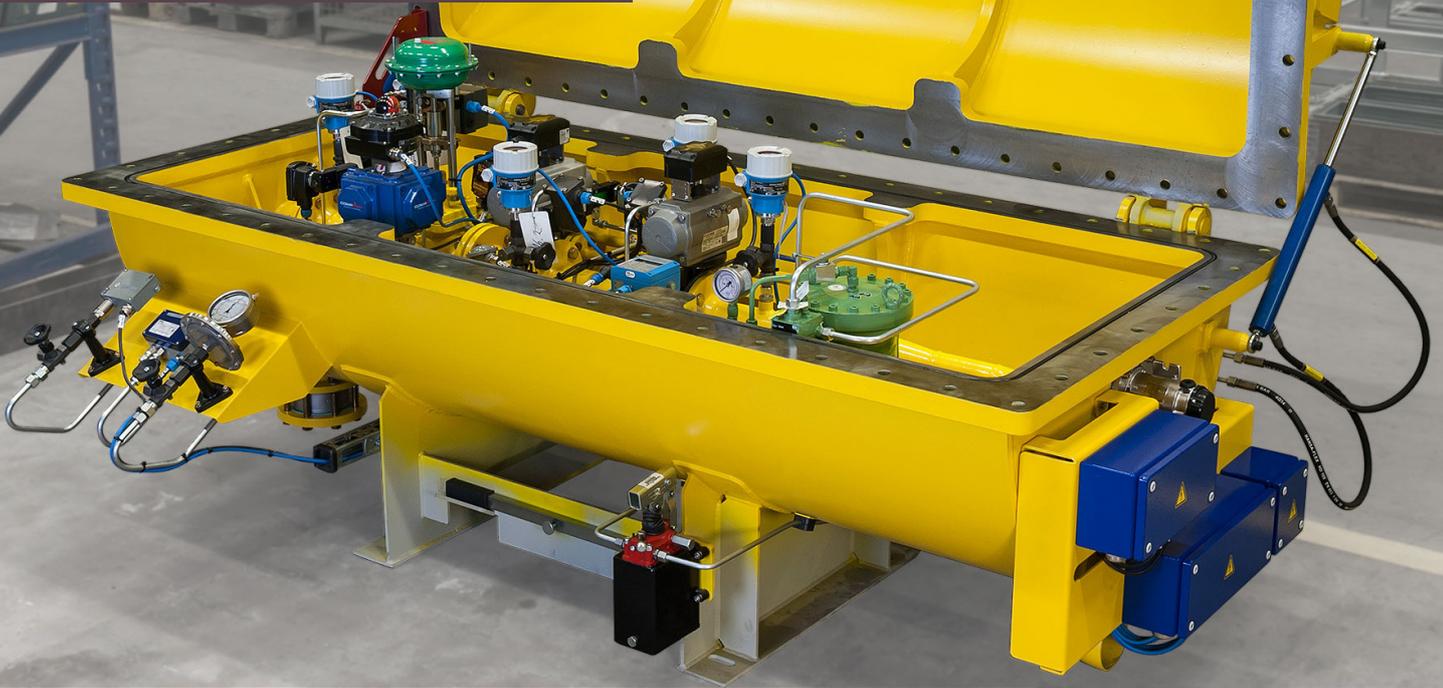


Product information

Gas Valve Unit

SAACKE MARINE SYSTEMS



Forging ahead on the world's oceans

Compact SAACKE gas valve train for safe operation

For a long time, the use of natural gas for ship propulsion was considered very impractical compared to heavy fuel oil. The risks of leakage and lack of space for the required infrastructure seemed too great. Now, shipowners and operators of tankers, FPSO systems, cruise giants and other ships with dual-fuel boilers are increasingly investing in clean fuel. This is partly attributable to falling prices, but also to increasingly intelligent technical solutions for safe and efficient gas storage and use. For example, a Gas Valve Unit (GVU) is a clever alternative to gas treatment in a facility specially designed for this purpose. SAACKE has developed such a compact valve assembly "Made in Germany", thus enabling the use of natural gas on ships and offshore facilities in accordance with the latest regulations.

SAACKE GVUs comply fully with current explosion protection requirements

The trend towards gas as a propulsion fuel led the IMO and the classification societies to adopt new rules: The International Code of Safety for Ships using Gases or other Low-Flashpoint Fuels (IGF) for dual-fuel applications on cruise ships or container ships as well as the International Code for the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk (IGC) for LNG tankers, for example, have made explosion protection measures a compulsory part of ship equipment in gas operations and define their design criteria. The SAACKE GVU fully meets these requirements.

Standard ships & offshore plants

All benefits at a glance

- ✔ Tried-and-tested design
- ✔ Meets current IMO safety standards for cargo and passenger ships (IGF / IGC Code)
- ✔ Compact design for confined engine rooms
- ✔ Plug-and-play product
- ✔ Maintenance-friendly thanks to easy access and pneumatic initial shut-off
- ✔ Flexible measuring technology as required

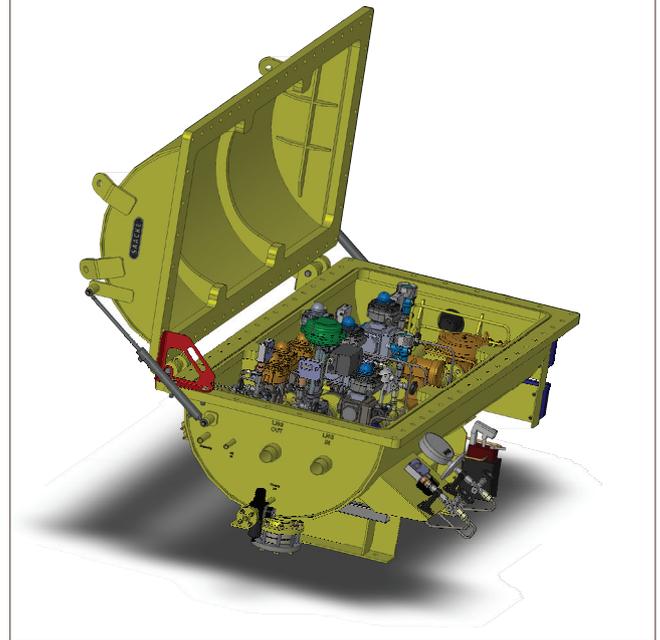
The SAACKE solution in detail

The SAACKE GVU includes zone 1 explosion protection according to ATEX 2014/34/EU. Even the slightest risk of explosion is therefore de facto eliminated. Gas quantity measurement can be performed in different ways (by turbine meter, thermal flow meter, or mass flow meter) and thus be adapted to the individual needs of the customer. In addition to the optimally adapted exhaust fan, this SAACKE development features gas detectors that can be integrated into the vessel's gas system.

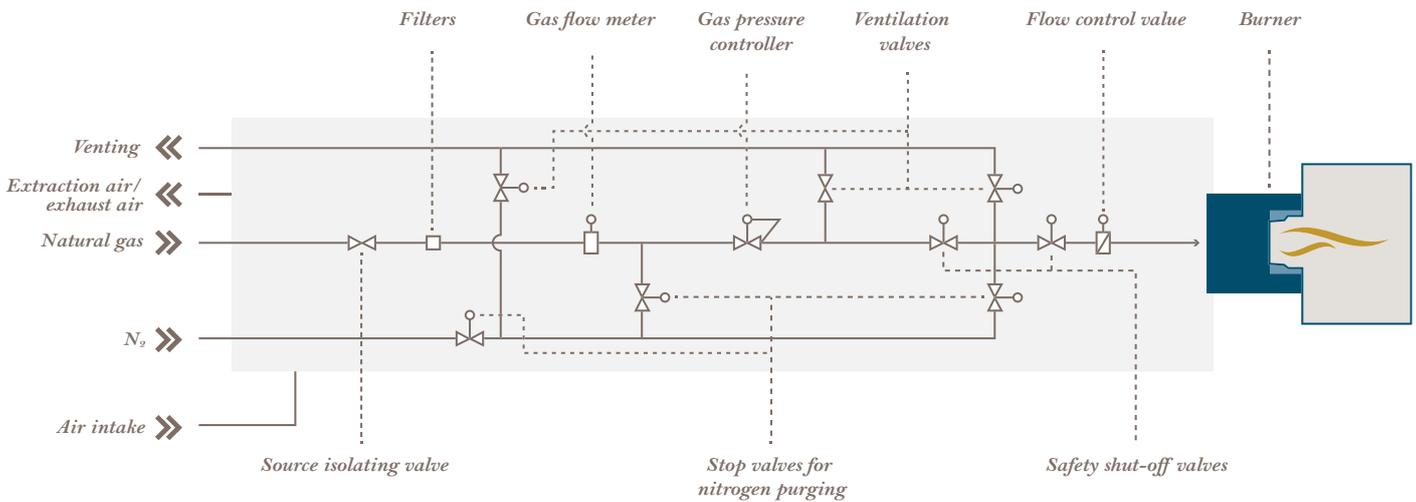
Summary

With the SAACKE GVU, you are equipping your fleet for the safe operation of the future. As a convenient plug-and-play product, the gas valve train is delivered completely pre-assembled – both for new vessels and retrofits. In addition, SAACKE also supports the perfect gas-fired operation of your ships and offshore systems by means of ongoing after-sales service.

3D model of the SAACKE GVU



Functional diagram: Gas Valve Unit



Nominal width per steam capacity

Boiler capacity t/h	1-3	4-10	12-14	16-25
Inlet diameter DN	50	80	80	100
Outlet diameter DN	50	80	100	150
Dimensions (W x H x L) mm	1,120 x 1,255 x 2,445			

Technical data: Gas Valve Unit

Areas of application	Water-tube boiler, shell boiler, thermal oil heater, maritime boiler plants and systems, offshore plants
Steam capacity	1-25 t/h (larger capacities upon request)
Standards	IGF and IGC compliant
Explosion protection zones	Zone 1 explosion protection according to ATEX 2014/34/EU
Pressure range	Maximum inlet pressure for natural gas 10 bar, higher inlet pressures on request

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