



Gas Filtration and Pre-Heating

Solutions for the Natural Gas Industry - Worldwide

KNOW-HOW INSIDE

Gas Filtration and Pre-Heating

Safety. Quality. Know-How.

Individual, custom-specific solutions for the highest requirements for the filtration and preheating of natural gas
- worldwide –
With our experience for over 35 years.

Portfolio:

Gas Filtration

- » Cellular Gas Filter
DVGW certified EG 2014/68/EU
- » Cartridge Filter
- » Dust-Liquid Separator
- » Single and Multi Cyclone Separator
- » Knock-Out Drum
- » Start-up Strainer

Gas Pre-Heating

- » Heat Exchanger, gas/water
- » Heat Exchanger, electrical
- » Waterbath Heater
- » Heat Exchanger, gas/steam
- » Heat Exchanger, water/water
- » Performance-Heater

Misc. Vessels and Accessories

- » Condensate Tanks
- » Gas Mixer
- » Pressure Vessels, Buffer Tanks
- » DP 900 Differential Pressure Gauge
- » Steelworks (platforms skids, ladder)

Thielmann Energietechnik GmbH Engineering & Project Management!

We accompany you from the process engineering design, engineering and design in 3D, manufacture of the equipment up to the delivery at the final destination.

Thielmann is specialized in national and international regulations, options and many special specifications.

We supply equipment in the low pressure and high pressure range up to 300 bar, as well as for low temperature (up to -50 ° C) and high temperature designs (up to + 250 ° C).

For standard solutions for filtration of gas we offer PN16 cellular gas filters – various types in stock.

For Natural Gas, Biogas, Special Gases

Application Fields / Industries:

GT Power Plants
CCPP Power Plants
Storages Cavern/Underground
Natural Gas Distribution System
Compressor Stations
PRMS Pressure Regulation Measure System
Combined Heat and Power Plants
Gas Engine Technology (on- and offshore)

Design Codes

AD 2000, ASME, SVTI, AS1210, EN 13445, PD5500 (BS), Stoomwezen, TEMA, ÖNORM

Options:

CE (PED EG 2014/68/EU), U-Stamp, ERI, NACE, EAC/TR CU (früher GOST TR), China Stamp, MOM, DOSH

Special Specifications:

Siemens, OGE, Sasol, BASF, Total, INGL, Gasco, N.I.G.C., BGE, GE-Alstom, Petrobras, DONG, Energinet, Gasum, Posco, Mitsubishi

Gas Filtration

We make your Gas clean!

Our filters and separators clean your gas on a physical basis by means of mechanical separation methods of particle pollution such as dust, liquids and oil mist.

With your custom-specific operating data, we determine the most efficient and reliable solution for you. Any combination of gravitational, centrifugal and filter cartridge systems are optimized for your application.

In the field of coarse separation, we provide maintenance-free solutions.

Special centrifugal force system installations or flow control systems generate the required separation efficiency rates and differential pressures.

In the area of fine dust separation, the gas is cleaned with filter cartridges. Our filter cartridges are all tested according to ISO 12103-01 and proven to be efficient, according to the requirements of the internationally valid "Test Aerosol: SAE-Fine Test Dust".

For special fields of application we can offer and develop special filter elements in order to achieve a performance-fulfilling filtration.

These are our products in gas filtration:

VZF/VZEF/ZFG/ZEFG Cellular Gas Filters
VPF Cartridge Filters
VKOD Knock-Out Drum
VSFA Dust-Liquid-Separator
VZA/VMZA Cyclone Separator
VAS Start-up Strainer

Quick Closure, Thielmann Type VSV:

Long service life - Low maintenance effort!

We have a mature competence and experience in the design of quick-release fasteners (type VSV) with cover swivel device (DSV) up to nominal width DN1500 depending on the rule factory and the concession data. The equipment with our quick fastener makes your maintenance time and personnel efficient by a safe and simple operation. Depending on the nominal size, open the container in less than 10 minutes with only one person. The quick-release fastener is suitable for extreme weather conditions, e.g. Icing, sand storms,

Gas Pre-Heating

Heat Exchanger make your Gas Systems efficient!

The use of heat exchangers increases the efficiency of your systems. The pre-heating of the gas makes your system pressure-stable and the gas thus transportable.

Most gas installations require compensation for the so-called 'Joule-Thomson' effect. With this effect, the gas temperature decreases with a constant flow rate through pressure reduction. Thus, the gas cools down, for example by using pressure reduction systems, by external temperature fluctuations or by flow through long transport lines. If the gas is heated at selected system points pressure stability or gas temperatures are achieved which make a subsequent system component more efficient, e.g. for gas turbines.

We offer you tube heat exchangers for the heating of gases, saturated steam or water in the range of gas technical systems.

We calculate our heat exchangers optimally for your process. An optimally adapted design saves resources and makes your overall system more economical.

These are our products in gas pre-heating:

VEV Heat Exchanger
VEV-LS Performance-Heater
VH Waterbath Heater

Certificates

AEO certified since 2011

ISO 9001

DVGW für Zellengasfilter



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