



aerospace  
climate control  
electromechanical  
filtration  
fluid & gas handling  
hydraulics  
pneumatics  
process control  
sealing & shielding



# Natural Gas Solutions

Applications, Features, Specifications



ENGINEERING YOUR SUCCESS.

# Why Filter Natural Gas?

Natural gas consumption in Europe accounts for about 20% of the world total.

New developments and improvements are constantly being made to increase the use of this clean burning, efficient fuel.

Natural gas comes from underground, and thousands of kilometres of pipeline exist in Europe to transport the gas. Compressor stations located along the length of pipeline move the gas from the wellhead to consumer distribution points.

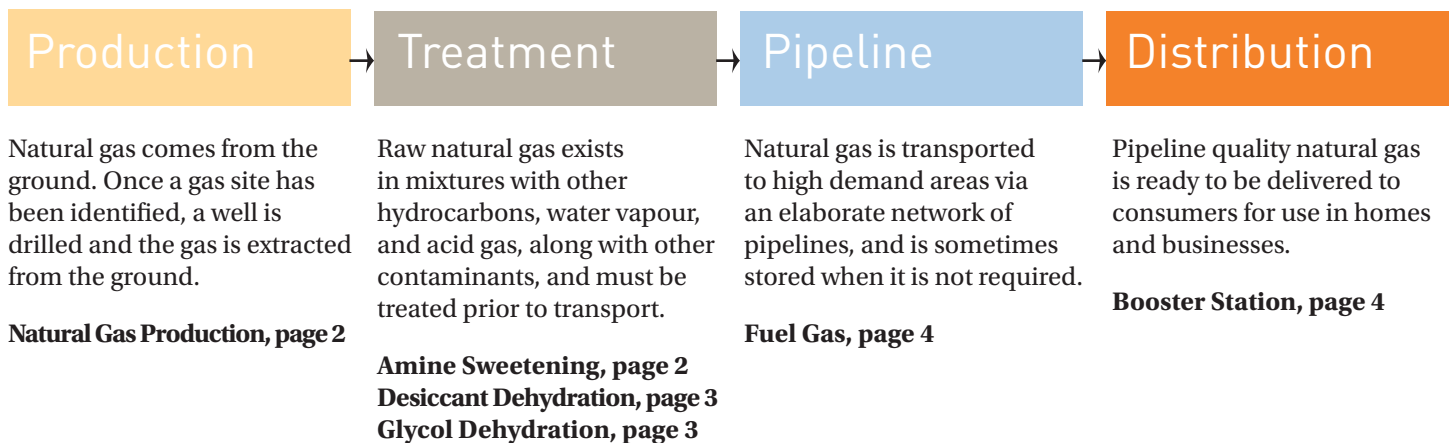
However, the raw gas from the ground requires processing and refining before it is ready for use.

The installation of Parker filters makes it possible to improve process efficiency and provide optimal process protection. The rigid, graded-density structure of Parker filter products efficiently removes solids and contaminants that would quickly plug competitive filters.

Details of these products are discussed in the following application and product overview.

The figure below identifies the stages of natural gas processing and distribution. Parker can provide a positive impact on efficiencies in each of these processes

## Gas Production Flow Process



## Alternative Fuel Applications

The above flow process shows how natural gas is taken from the production point to the final user. Some other natural gas applications are also outlined in this brochure

### Landfill Gas Filtration (page 5)

Landfill waste decomposes and produces landfill gas. This gas consists mainly of methane and carbon dioxide. Landfill gas is naturally dirty and contains particulate and moisture. Filtration of the collected gas entering into a compressor will eliminate contaminants that would otherwise damage downstream equipment.

### Digester Gas (page 5)

Production of digester gas involves converting animal and food processing waste into digester gas, or biogas. The resultant gas will contain impurities such as water, condensed gas liquids and hydrocarbons that must be removed prior to transport for use or storage.

### Alternative Fuels – Compressed natural gas (page 6)

With over 6 million CNG vehicles and 7,500 fill stations in use globally, the prevention of solid and liquid contamination from damaging CNG fuel dispensing systems and CNG vehicles is vital. The installation of Parker filters in these processes can provide an increase in the efficiencies for CNG market distributions.





















