Components in piping systems and plant design

The demonstration and teaching of fluid mechanical processes in valves and fittings and pumps is extremely important when training engineers, technicians and skilled workers. These complex issues are difficult to teach without direct practical relevance.

The topics of planning, assembly, commissioning and maintenance are closely linked. Extensive knowledge of equipment design and assembly are required for commissioning and maintenance. Planning and design of pipe systems require detailed knowledge of the individual steps and their sequence. GUNT offers a comprehensive range of educationally valuable section models, assembly and maintenance exercises from the field of pipe systems and plant construction.

Section models of valves and fittings, pumps and meters

- familiarisation with components and their function
- insight into structural details
- comparison of technical illustrations and illustrative models

Assembly exercises for valves and fittings

- structure and function of typical valves and fittings in pipe systems
- assembly and disassembly for maintenance and repair
- comparison of different valves and fittings
- leak tests

Assembly and maintenance exercises for pumps

- structure and function of typical pumps in pipe systems
- assembly and disassembly for maintenance and repair
- systematic troubleshooting and error evaluation
- maintenance and repair processes

Design of complex piping and plant systems

- design of piping and plant systems according to specifications
- professional preparation and execution of plant assembly and disassembly
- component selection and preparation of requirements lists
- functional testing, leak testing, operational measurements