

SchuF Fetterolf ManiFlow Selector Valve™ VIELWEGE-SCHALTVENTIL (MSV)



Company Profile

“Every SchuF valve is an innovation in itself”

Wolfgang Frank
Chairman, SchuF Fetterolf Group

For over 100 years SchuF valves have stood for innovation and quality at the highest level.

Together with our customers, we invent, design and manufacture valves customised to exact tolerances, processes or special operating conditions. SchuF Fetterolf valves can be found in standard and in many severe service applications in the Chemical, Polymer, Pharma, Oil, Gas, Offshore and Refining industries.

... Innovation

The invention of the Lift Plug valve in 1911 and piston & disc bottom outlet valves in the nineteen twenties by the founder of SchuF – Josef Frank – were the first of a long line of valve inventions and innovative designs. Continuing research and development in materials (used in valve bodies and trim), design as well as complex processes enable SchuF today to offer valve solutions for applications with high pressure, high temperature and difficult media; or a combination of all three.

The integration of Fetterolf Corporation in 2004 further broadened the Group’s product portfolio, innovation and geographical reach. Today the SchuF Fetterolf product line includes control, isolation, sampling, switching and safety related valves.

... Quality

The exceptional quality and longevity of SchuF Fetterolf valves is a result of the precise attention to process detail, creative design, and the use of the appropriate high quality materials. In addition to its own high internal company standards, SchuF is ISO 9001, GOST and PED certified and can manufacture according to ASME, DIN, NACE, API, Fire Safe, GMP, JIS or any other internationally recognised standard.

... Worldwide presence

SchuF Fetterolf is represented in over 65 countries worldwide and has design and production facilities in Germany, Ireland, India, Brazil, the United States and the United Kingdom.



ManiFlow Selector Valve™ – Model 48SZ

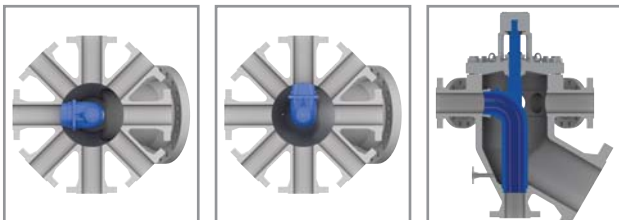
The ManiFlow Selector Valve (MSV) has been specifically developed for oil field applications where oil or gas from multiple wells are brought together into one valve body for testing and analysis. Typically the flow from seven wells are connected, but only one is routed via a special plug selector to a test outlet.

The other six are comingled and exit via a large production outlet. Once the first well has been tested, the next or any in a desired sequence of the connected wells can be tested.



Specification

The MSV is available with up to eight inlet ports, one test port and one production outlet. Standard sizes include: 2" / 4", 3" / 6", 4" / 8", 4" / 10" and 6" / 16" in all ASME classes to 1500#. All body materials can be provided with cladding, typically in Incoloy 825. For sour services the lower body half can be in solid Incoloy 825 material. A diverse range of sealing material and options such as flushing ports, locking devices, electronic controller and push button stations are available.



Custom Solutions

SchuF has applied 50 years of diverter and switching valve experience and extensive simulation to solve some of the critical problems found in conventional selector valves and manifolds. These include valve body corrosion, cross contamination between the test and production flows due to leakage, and emissions to atmosphere.

Key Features:

- Compact, modular design
- LeakTight, spring loaded seal
- Field adjustable sealing arrangement
- 1.0° to 1.5° Plug position accuracy
- 3 stage packing for low emission
- Electric actuation, bi-directional 360° operation, multi- or part turn
- Clear user friendly controls
- Integral digital display
- Local, remote or Modbus control
- Removeable hand wheel

Benefits

The SchuF MSV has been designed to reduce the size of pipe manifold arrangements, comprising only one valve and one actuator. In addition the SchuF MSV offers:

- Customised simulation & design
- Longevity – special material combinations that reduce body pitting corrosion
- Superior sealing design that eliminates leakage into the test outlet
- Simplified in-line maintenance



* all wetted parts according to NACE MR0175 or equivalent; leakage class IV; fire safe design on request

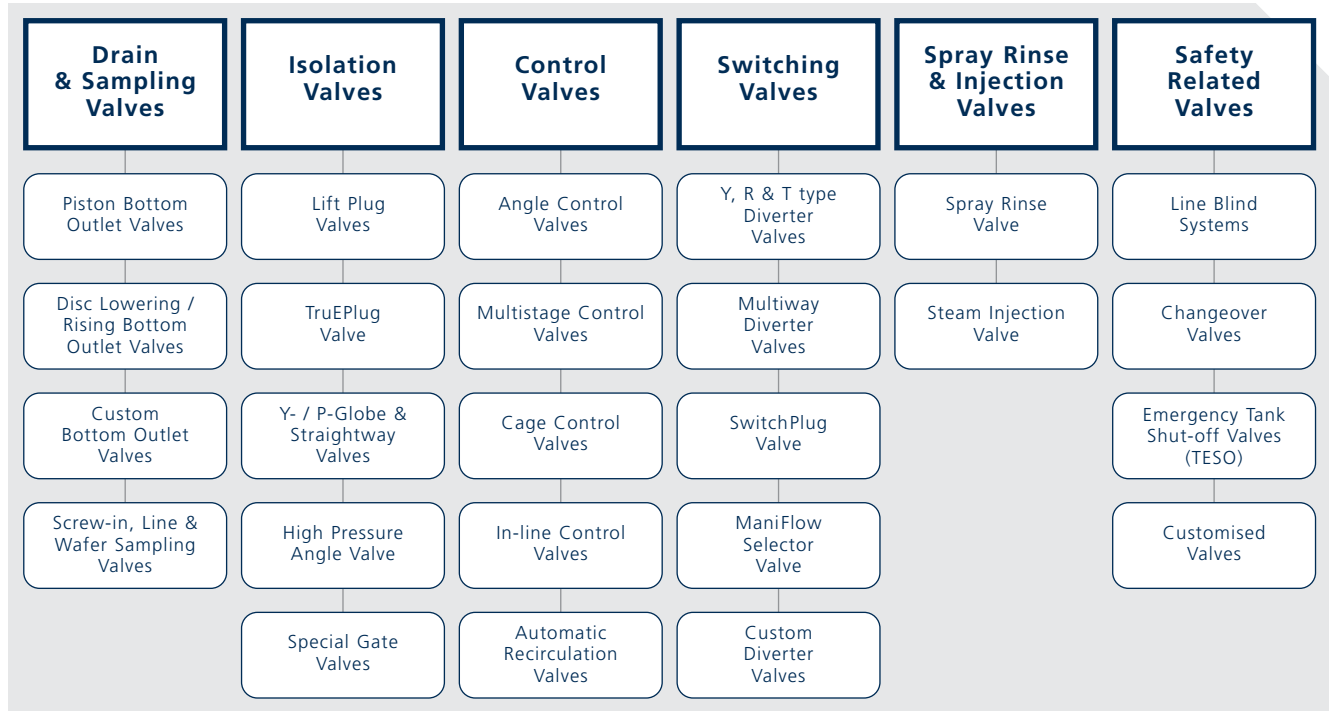
Product Portfolio Overview

SchuF Fetterolf has delivered over one million valves during its 100 year history to a wide variety of industries in over 50 countries worldwide.

Headquartered near Frankfurt in Germany, the company has additional design and manufacturing centres in Brazil, India, Ireland, UK and the USA.

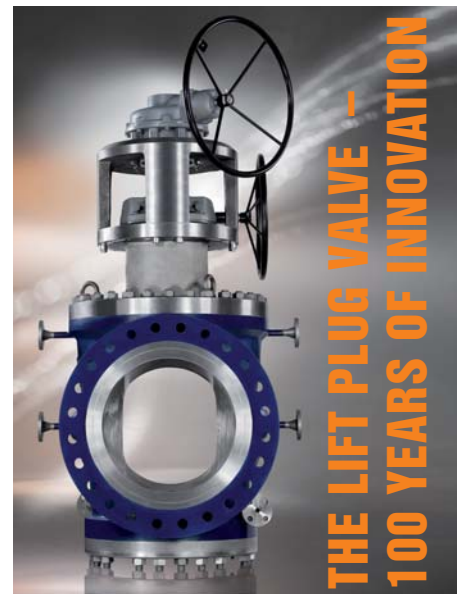
The SchuF group has sales and agent offices covering almost every country in the world.

We manufacture valve products that control, isolate, divert, and sample liquids, gases, powders, and slurries. Our product range of engineered, customised valves includes:

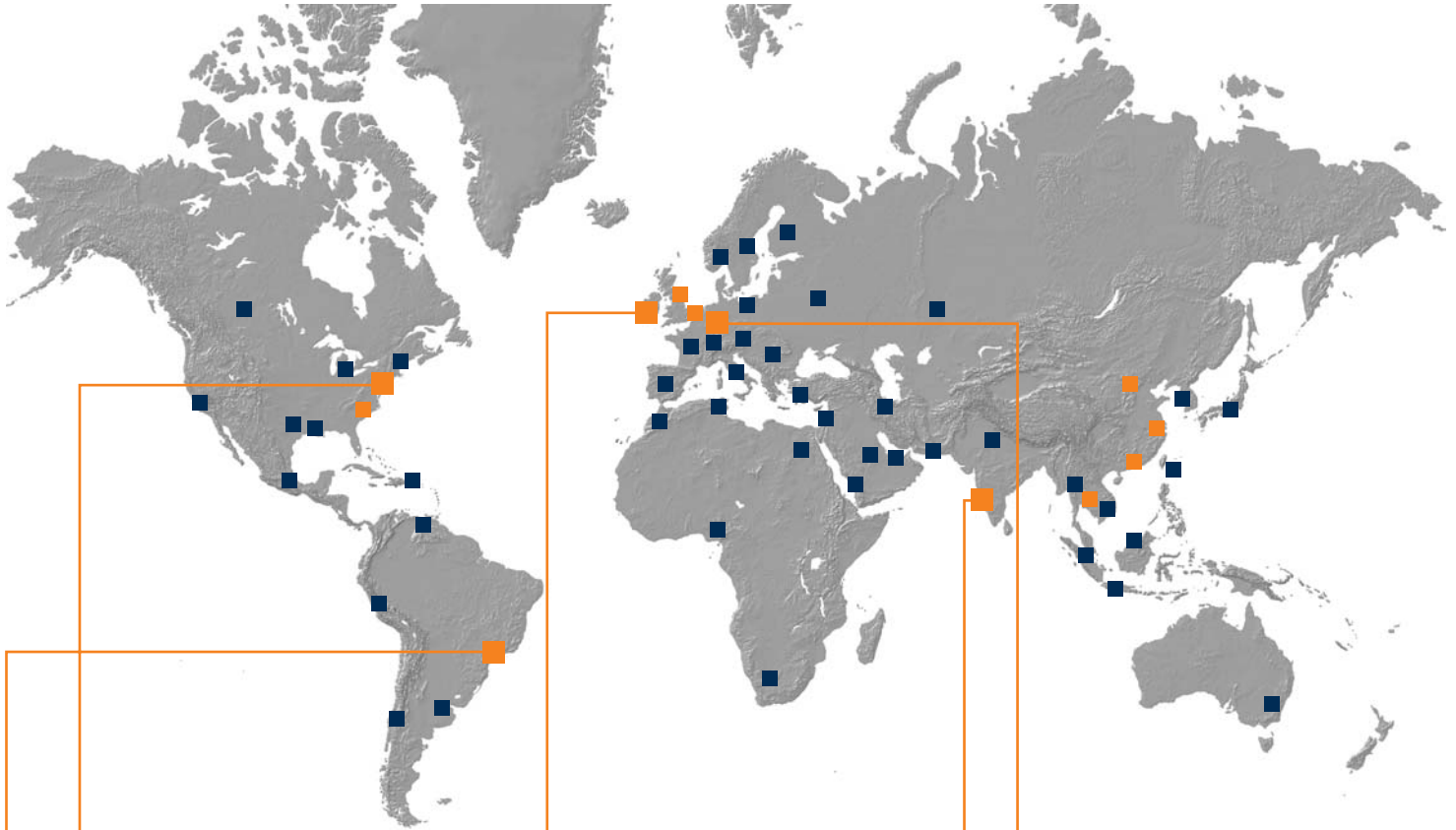


Key Client List:

- | | | |
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| ■ AkzoNobel | ■ Glaxo Smith Kline | ■ Reliance |
| ■ AstraZeneca | ■ INEOS | ■ Roche |
| ■ BASF | ■ Invista | ■ SABIC |
| ■ Bayer | ■ Jiangsu Hengli | ■ Saipem |
| ■ BP | ■ Lanxess | ■ Salavat |
| ■ Chevron | ■ LG Chemical | ■ Samsung |
| ■ Clariant | ■ Linde | ■ Sandoz |
| ■ DOW Chemical | ■ Lukoil | ■ Sanofi Aventis |
| ■ Du Pont | ■ Lurgi | ■ Shell |
| ■ Eastman | ■ Merck | ■ Shin Etsu |
| ■ Evonik | ■ Novartis | ■ Sinopec |
| ■ Exxon Chemical | ■ Oerlikon | ■ Sulzer |
| ■ FCFC | ■ Oxy Vinyls | ■ Temex |
| ■ Far Eastern | ■ Pemex | ■ Tuntex |
| ■ Foster Wheeler | ■ Petrobras | ■ Uhde |
| ■ GE | ■ Pfizer | ■ Vinnolit |



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