

SchuF Fetterolf TruEPlug Valve

DREHSCHIEBER "TruEPlug"



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.



Isolation Valves

TruEPlug Valve – Model 13

The TruEPlug is a special rotary plug valve that achieves true Double Block and Bleed (DB&B) service in one enclosed valve body. It belongs to the SchuF family of lift plug isolation valves invented in 1911.

Applications

The TruEPlug is suitable for isolation of mostly clean media at moderate temperatures (to 256 °C) where seal tight closure is essential.

Typical applications include:

- Tank storage isolation
- Meter stations
- Loading/Unloading terminals
- Hydrant isolation
- Branch line isolation

Operation

The TruEPlug has a simple yet efficient design with few pieces. The key parts include the body, bonnet, plug, seals and actuator. The plug has a special moving insert or shield (shown in blue) that is fixed to the central plug and has an inlaid soft sealing ring.



As the plug lifts and rotates from the open to the closed position, clearance is maintained between the plug shield and the valve body, allowing free movement and avoiding scoring.

As the plug enters its closing position it is lowered forcing the plug shield against the body and thereby initiating a soft seal. In the closed position the plug shields are effectively expanded (the reason why the valve is sometimes referred to as an Expanding Plug valve).



TruEPlug Seal Shield

The soft seal is further compressed until a metal to metal seal is achieved.

This double mechanical sealing mechanism gives the TruEPlug one of the most reliable leak tight seals available.

Key Features:

- 1" to 42" and up to ASME 900#
- Replaces traditional two valve and spool piece DB&B arrangement
- Reduced bore or full bore piggable
- Positive shut-off double seal
- Abrasion-free plug movement
- Bleed function proves zero leakage
- Metal to metal seal in the open position for in-line maintenance
- Manual, electric or pneumatic actuation
- Fire Safe option

Benefits

- Quick and easy operation
- Cost effective DB&B
- Zero leakage
- Easy maintenance

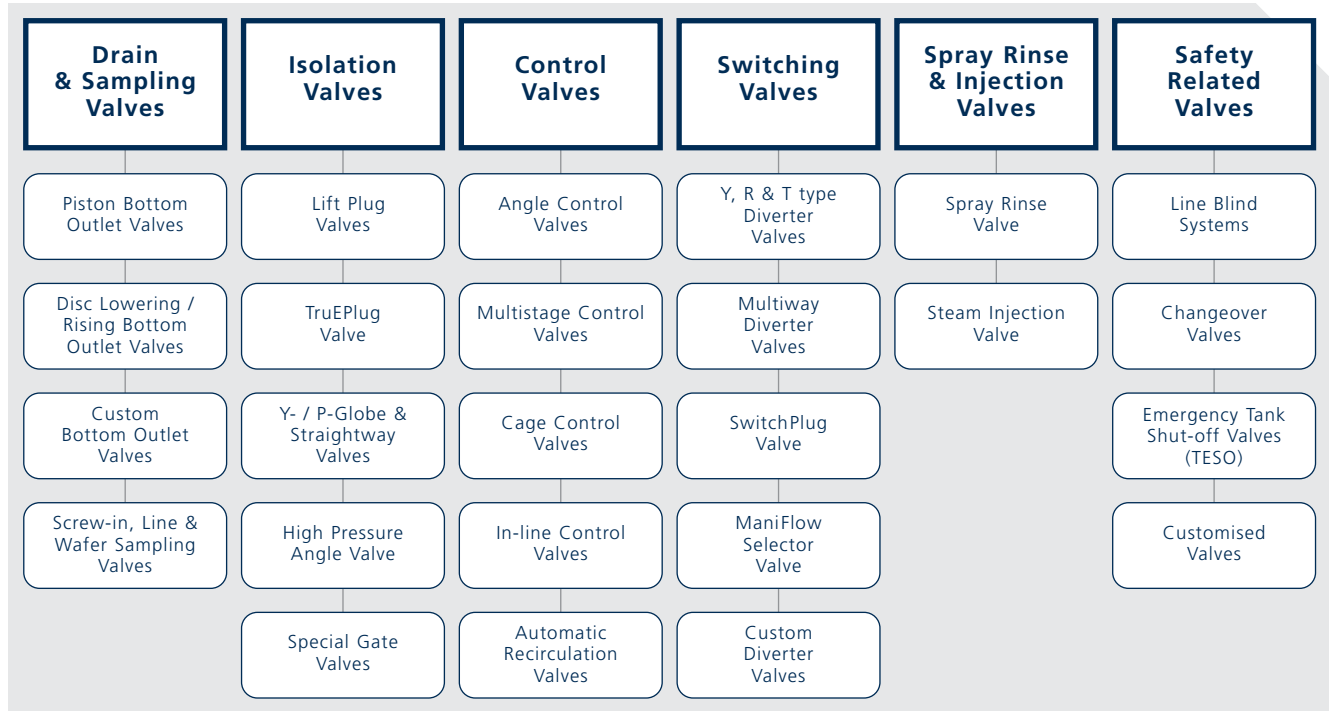
Product Portfolio Overview

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:

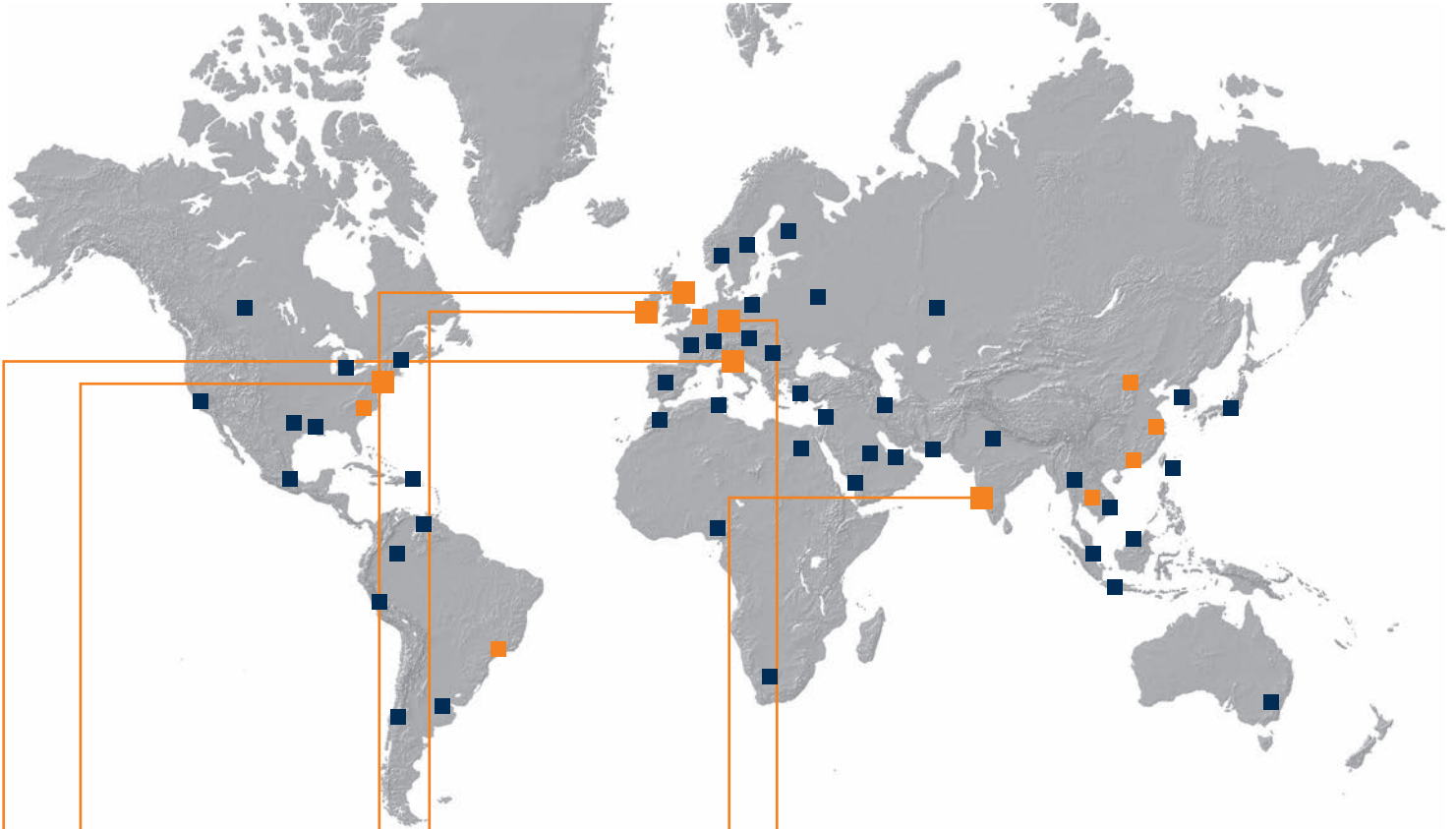


Key Client List:

- | | | |
|------------------|---------------------|------------------|
| ■ 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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