

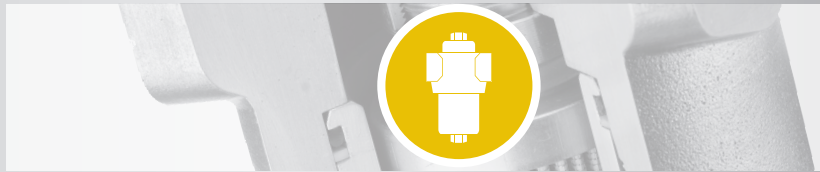
STAUFF Clamps



STAUFF Test



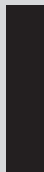
STAUFF Filtration Technology



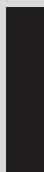
STAUFF Valves



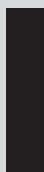
STAUFF Connect



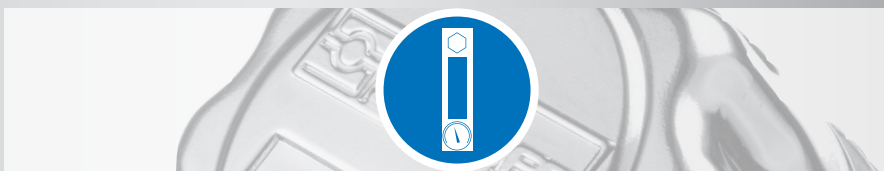
Hose & Hose Assembly



STAUFF Quick Release Couplings



STAUFF Hydraulic Accessories



STAUFF Diagtronics



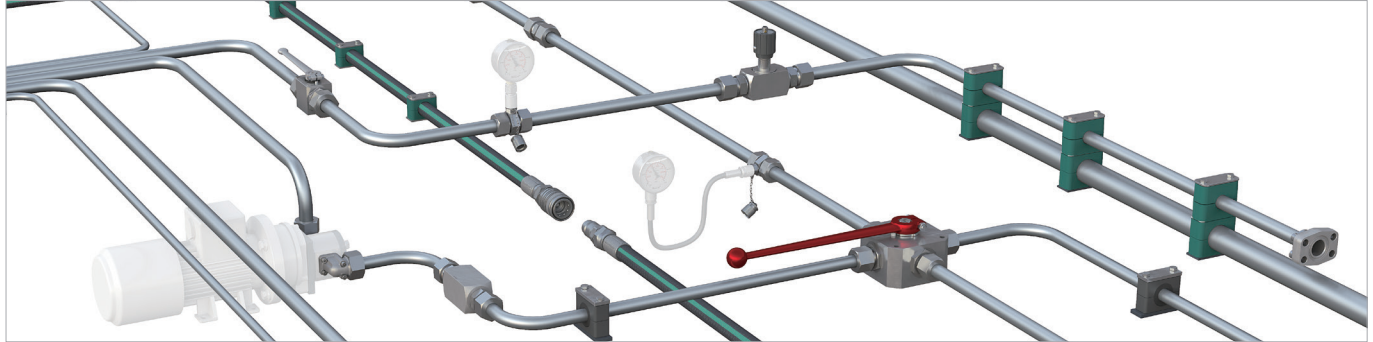
STAUFF Introduction

Company Overview

For more than 70 years, the companies of STAUFF Group have been developing, manufacturing and distributing pipework equipment and hydraulic components for mechanical and plant engineering and for service and industrial maintenance.

In addition to mobile and industrial hydraulic machinery, typical applications also include commercial and special purpose vehicles, rail transportation and energy technology. Likewise, STAUFF products are used in marine, oil and gas applications and in the process, food and chemical industries.

STAUFF LINE Components



With the seven dedicated STAUFF Line product groups

- STAUFF Clamps
- STAUFF Connect
- STAUFF Flanges
- STAUFF Hose Connectors
- STAUFF Quick Release Couplings
- STAUFF Valves
- STAUFF Test

from own, in-house development and manufacturing, the companies of the STAUFF Group provide a comprehensive range of components for fastening and connecting pipes, tubes and hoses for mobile and industrial hydraulic applications and many other industries. The portfolio is completed by components for shutting-off, regulating, throttling and measuring fluid media.

The overall range currently includes about 50000 standard products as well as numerous special and system solutions according to customer's specifications or based on our in-house development.

All STAUFF products undergo relevant testing in accordance with international regulations and are governed by the high standards of the in-house quality management system. Furthermore, many items have received certifications and approvals from various international institutes, organisations and authorities who have independently confirmed the quality and performance of the products.

Wholly-owned manufacturing, sales and service facilities in 18 countries and a tight global network of authorised distribution partners ensure high presence and service paired with a maximum of availability.



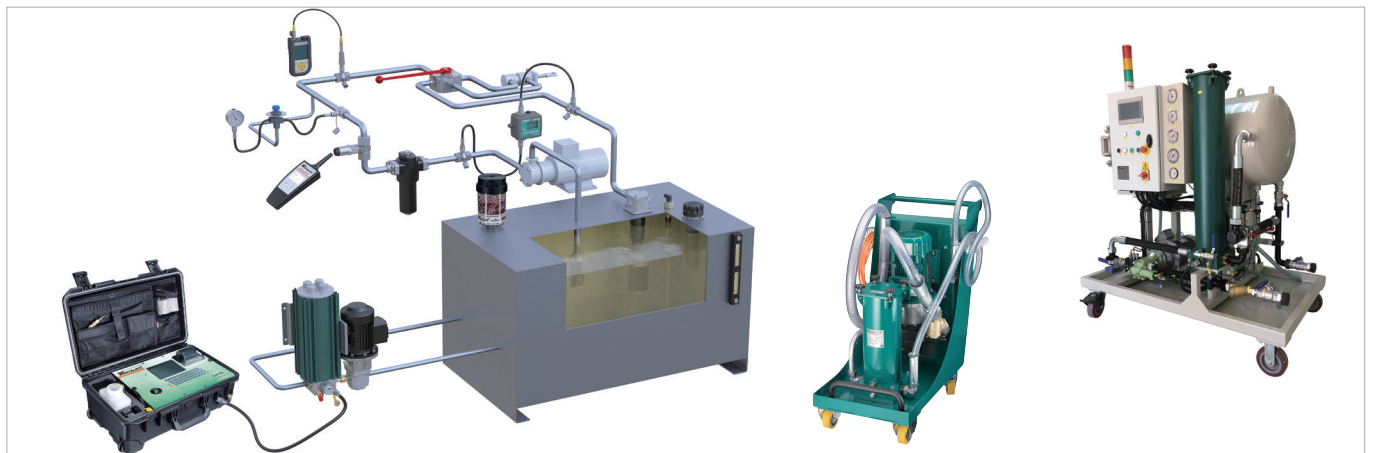
Quality Management – ISO 9001:2015
Environmental Management – ISO 14001:2015
Safety Management – ISO 45001:2018
Energy Management – ISO 50001:2018

In order to perfectly match each other, STAUFF Line products are designed and offered on a high, uniform level of quality. A large proportion of the range made from steel comes as standard with the premium STAUFF Zinc/Nickel surface coating, which is also optionally available for many of the other components.

This coating offers the most reliable surface protection far beyond the previous market standards – even after transport, handling and assembly of the components – and meets all current legal requirements.

If desired, Original Equipment Manufacturers can be supported with value-added services, from **technical consultation to pre-assembly, assembly and kitting** as well as **logistics services**:

- Support with the **selection of suitable standard components** and ordering options; provision of **customised solutions** according to customer's specifications or based on our in-house development – from prototyping to large scale production
- **Analysis and optimization** of existing and design and developments of new systems aimed at increasing the efficiency and performance of machines and equipment and creating value for customers by reducing the total cost
- **Pre-assembly, assembly and kitting** of individual components to customer-specific system modules
- Individually coordinated **procurement solutions** (e.g. web shop and electronic data interchange) and **supply models** (e.g. from warehousing of customised components to Kanban logistics and just-in-time delivery of pre-fabricated system modules to the assembly lines of the customers) aimed at optimising material flows



Aligned with the needs of the market, the product groups

- STAUFF Test
- STAUFF Diagnostics
- STAUFF Filtration Technology
- STAUFF Hydraulic Accessories

Include a comprehensive range of analogue and digital measuring equipment and devices, filtration systems and replacement filter elements as well as accessories for the construction of tanks, reservoirs, power packs and gear boxes in mobile and industrial hydraulics.

The offer is completed by relevant value-added services:

- Support with the **selection of suitable components** and ordering options; provision of **customised solutions** according to customer's specifications or based on our in-house development – from prototyping to large scale production

- Analysis of existing hydraulic circuits aimed at filtration systems, tank components and monitoring devices that perfectly match to the specific requirements, and developing integrated concepts to increase the efficiency and performance of machines and equipment
- Individually coordinated **procurement solutions** and **supply models**



www.stauff.com/catalogues

Online Page-Flip Catalogues

- Easy navigation through index or the powerful full text search functionality
- Contents can be shared and forwarded by e-mail, printed or downloaded and saved in PDF file format
- Also suitable for mobile devices

Download Catalogues

- Download entire product catalogues and save them in PDF file format

Catalogue Request

- Contact form to request printed copies of the product catalogue as well as digital copies

The STAUFF online catalogue centre at www.stauff.com/catalogues provides fast and direct access to digital versions of this as well as other STAUFF product catalogues in all available languages.



www.stauff.com

With the STAUFF Digital Platform available at www.stauff.com, commercial customers and users of STAUFF products can not only inform themselves in all detail about the 50000 components typically available from stock, but also directly purchase

these online without complex registration. General information about the companies of STAUFF Group, latest business and product news as well as complete global contact details also be available.

www.stauff.com/cad

Immediate access to and free download of 3D models and 2D drawings for a growing number of STAUFF products

www.filterinterchange.com

Online database for the quick and easy identification and interchange of almost all common brands and Types of replacement filter elements

Main Functionalities of the STAUFF Digital Platform:



Around the clock

Check stock availability and pricing for STAUFF products in real time



Cross references

Search by article designations of other manufacturers / suppliers



Live chat

Get directly in touch with the STAUFF customer service and sales team



CAD database

Download 3D models and 2D drawings for STAUFF products

Advantages as a Registered User of the STAUFF Digital Platform:



Purchase STAUFF products

Taking customer-specific pricing and delivery conditions into account



Ordering w/o searching

Quick ordering by entering article number, quantity and requested delivery date



File upload

Direct upload of orders with multiple positions in CSV or Excel file format



Notepad function

Create project lists to save interesting products for later

CONNECT
WITH STAUFF



STAUFF Clamps

STAUFF Clamps

- According to DIN 3015: standard, heavy, twin series, OD range 6–450 mm
- Clamp body materials: polypropylene (PP), polyamide (PA), aluminium (AL), Thermoplastic elastomer (SA) or other materials on request
- Metal parts: carbon steel/zinc-nickel plating or stainless steel (AISI 304/303/316/316Ti)
- Clamp body: profiled design, smooth inside surface, with elastomer insert etc.
- Mounting: welded plates, mounting rails, stacking, etc.

Special Clamps

- STAUFF ACT (Anti-Corrosion technology)
- Fire Protection clamp
- NRC: noise reduction clamp
- STAUFF SWG: Stud-Welding System
- WPC: windpower Clamp
- MLC: multi-line Clamps

Other Types of Clamps

- Saddle / piggyback clamps
- Light series
- Construction series
- Flat steel and round steel U-bolt clamps
- Metal DIN clamps

Custom-designed clamping systems for pipes, tubes, hoses, cables and other components according to customer's specifications (machining and injection molded parts)

STAUFF clamps have been tested and validated by a number of relevant international test institutes.



STAUFF TEST

STAUFF TEST

- Connection under operating pressure
- Test coupling with ball check (SMK)
Test coupling with piston valve (SKK)
- Connection: M16X2, M16X1.5, S12.65X1.5 and plug-in
- Alternative seal materials are available (NBR / FKM / EPDM)
- Fittings are available in carbon steel or stainless steel, leading enhanced zinc-nickel coating, salt spray tested up to 1200 hours without red rust
- Allowed working pressure can be up to 630 bar
- Available with metal or plastic protective caps
- Low temperature applications available

Test Hose

- Test hose available in hydraulic and pneumatic versions
- Nominal bore DN2 or DN4 (on request)
- Max. working pressure: 630 bar
- Working temperature: -20°C ~+100°C (momentary +120°C)
- A wide range of hose fittings are available



Valves

- Two-way / three-way / four-way / multi-way ball valves
- Block / forged / round body high pressure ball valves for diameters from DN04 to DN150 and pressures up to 500 bar
- Carbon steel / 316 stainless steel material and wide range of seats and O-rings material combination
- Zinc-nickel coating and zinc coating
- Various threaded / flanged / plate-mounted / plug-in connections
- 80 MPa highest-pressure / high-temperature/ for gas applications / for special medium applications / with fire-safe approval ball valves
- Various accessories: locking devices / limit, proximity switches / pneumatic actuators / detents
- Flow control valve, throttle valves
- Check valves
- Gauge Isolator valves (Single station and multi station)
- Available customized ball valve according to customer's requirement



STAUFF Filtration Technology

High Pressure Filters SF

- Max. working pressure: 420 bar
- Flow rate: 1320 l/min

Medium Pressure Filters SFA

- Max. working pressure: 160 bar
- Flow rate: 240 l/min

Suction Strainers SUS

- Flow rate: 850 l/min

Return-Line Filters RF/SRFL

- Flow rate: 6600 l/min
- Max. working pressure: 25 bar

Spin-On Filters SSF

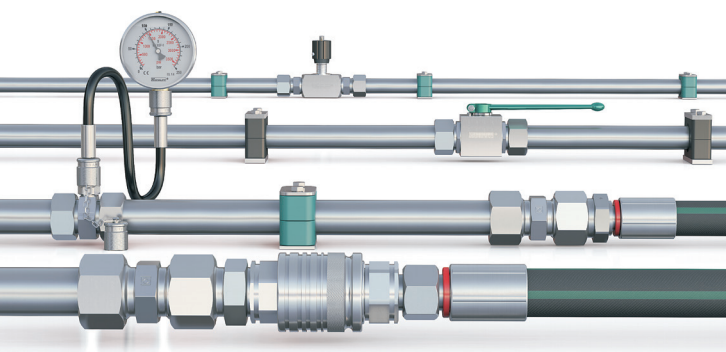
Offline Filters OLS

Bypass Filters BPS

Coalescing Separation Oil Purifier SFSS-C

Mini Water Vac SMWV/SMXWV

Our strength - Your advantage



- Sourcing all required components from a single manufacturer
- Cost benefits for procurement by reducing the number of suppliers and by concentrating ordering processes and shipments of goods
- Reducing procurement efforts and stock of individual components on the customer side
- Increasing efficiency by reducing assembly times
- Improving assembly safety by eliminating the risk of assembly faults
- Shifting the entire responsibility from connection to connection to a single manufacturer
- Optimising material flows
- Creating extra-value by reducing the total cost
- Globally available with a high, uniform level of product and service quality through STAUFF branches and a tight network of authorised distribution and system partners



STAUFF Quick Release Couplings

Push-to-Connect Couplings with Poppet Valve

- Poppet Valve
- Zinc-plating and Chrome (III), or Zinc-Nickel for selected sizes
- Intergerated locking system

Flat-Face Push-to-Connect

- Flat-Face Valve
- Coupling made from carbon steel / stainless steel with ANSI 316
- Powerful flow characteristics with minimal pressure drop

Screw-to-Connect Couplings with Poppet Valve

- Poppet Valve
- Zinc-plating and thick-film-passivation (Chrom III)
- Connectable up to 33% of working pressure with tools

Flat-Face Screw-to-Connect

- Flat-Face Valve
- Coupling made from carbon steel with Zinc-Nickel surface coating
- Heavy duty internal components
- Connection under residual pressure upon to types and sizes

Multi-Couplings

- Creation for (dis)connection of several hydraulic lines at the same time
- Coupling against trapped pressure
- Optional minimised spillage during coupling process

Wing Style

- Poppet Valve
- Carbon steel with Zinc-Nickel coating, brass and carbon steel-Zinc-plating and Chrome (III), according different types
- Connection under residual pressure upon different types



Stauff-Flex Hose, Fittings & Assemblies

STAUFF Hose

- Stauff-Flex Rubber Hose

- 1SN SAE 100R1AT EN853 Standard hose
- 1SC, 1SNK EN857 Ultra flexible hose
- 2SN SAE 100R2AT EN853 Standard hose
- 2SC, 2SNK, 2SNKLT EN857 Ultra flexible, Low temperature hose
- 4SP DIN EN856 Standard hose
- 4SH DIN EN856 Standard hose
- R13 SAE 100 EN856 Standard hose
- R15 SAE 100 EN856 Standard hose
- R15P SAE 100 EN856 Ultra flexible hose

- Stauff-Flex Thermoplastic Hose

- R7, R8 SAE100 EN855 Standard thermoplastic hose
- R7NC, R8NC SAE100 EN855 Non-conductivity thermoplastic hose

- Stauff-Flex Industrial Hose

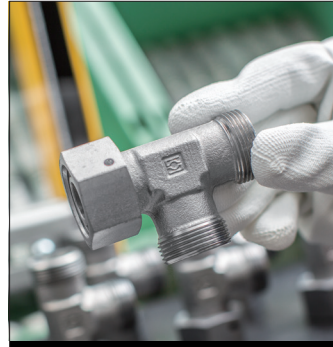
- SN544 standard industrial hose
- Teflon (PTFE) hose
- SFD silicone cooling hose
- EPDM cooling hose
- 2TE, RAH6853 EN45545 rail hose
- Metal hose

Hose Fitting

- Metric thread 24° seal light/heavy duty
- Metric straight tube
- JIC UN/UNF thread 74° seal
- ORFS, O-Ring Face Seal Connection
- SAE flange 3000 PSI /6000 PSI
- FLAT Metric flat seal
- BSP 60° taper seal
- Banjo

Hose Assembly

Stauff hose assembly is the combination production of hoses and fittings according to customer requirements, including assembly, crimping, testing, cleaning, and packaging.



STAUFF Connect

24° Tube Fittings

- At least 1200 hours resistance to red rust surpassing the requirements of corrosion protection class K5 as defined by the VDMA
- Smoothed outer support surfaces of the ferrules reduce friction losses during installation
- Reliable, leak-free connection, fully comply with the latest version of the international standard

24° Soft-sealing Cutting Ring

- Protection against "sweating effects" caused by temperature fluctuations & vibration loads.

24° STAUFF Form EVO Tube Forming

- The unique sealing profile performs a particular seal securely even in the event of unfavorable tolerances of the tube or the tube fittings

24° Taper Tube Fittings/ O-Ring (DK0)

- Interchangeable with adjustable pre-assembled fittings

24° Weld Cones

- 24° welding cones represent a supplement to the usual rang of the non-welding fittings or tube fittings

24°/37° Flared Cone Adaptor

- Designed for connection with 37° flare coupling with a 24° conical cone

24° Check Valve / Shuttle Valve

Swivel Fittings / Rotary Joints for High Pressure

Flanges

- Flanges connection
- SAE Flanges, gear pump flanges
- Square flanges for high pressure
- SAE blocks



Assembly Tools & Assembly Devices

Cutting Ring Final Assembly Machine SPR-PRC-POC-A-A-IOT

- Final assembly (100 %)
- Tool size detection via RFID transponders in the support plates
- Tool wear detection through combined pressure/position-control
- Documented process control through programmable logic control (PLC)

STAUFF Form EVO SFO-F-A-A-IOT

- Constant high process safety, reliability and reproducibility by the position-control of stored parameters of the machine
- Quick and simple replacement of tools with no tools required

Combined Cutting Ring Assembly and 37° Tube Flaring Machine SPR-PRC-MA-D-A

- Pressure-controlled assembly of cutting rings on metric tube ends as well as 37° tube flaring of metric/imperial tube ends
- Cutting ring assembly with Tooling Head based on pre-defined pressure settings (with automatic tool size detection) or with manual pressure settings
- Internal memory for up to 8 assembly programs

Portable Cutting Ring Assembly Machine SPR-PRC-H-E-SET

- With the battery-operated machine, STAUFF provides an ergonomically designed, light-weight and robust device
- Designed for hand-held, tripod-or table-mounted operation

Tube Manipulation / Measuring Equipment

- Pipe, tube and hose cleaning system
- Manual tube bender / reamer
- Tube bending and saw device
- Thread identification board



Fully automated STAUFF fittings production



Strict product quality testing



STAUFF Hydraulic Accessories

Level Gauge

- SNA: visual fluid level indication
- SNK and SNKK: visual / electrical fluid level indication
- Temperature monitoring available
- Optional for low temperature or special media application

Plastic Filler Breather SPB

Metal Filler Breather SMBT/SMBB

Lockable Metal Filler Breather SMBL

Tank demister TBA-OD

Giant Air Breather SGB

Desiccant Breather SDB/SDBL

Diffuser SRV

Pipe/Tube Bushing SRF



STAUFF Diagnostics

Laser Particle Counters LasPaC-II

- 8 channel laser particle counter is used to detect the cleanliness of hydraulic fluids.

RFID Pressure Transmitter, Reader

- Used to measure the pressure and temperature of the system equipment, and can be stored and recorded for subsequent fault analysis, suitable for after-sales and maintenance aspects and product inspection

Hand-Held Hydraulic Tester PPC-PAD-plus

- On-line detection and display of working pressure, temperature, flow, speed and other hydraulic parameters
- Max. 24 inputs
- Data analysis via computer connection

Inline Oil Contamination Monitoring Unit SMC

- With LPM-II-plus
- With oil quality sensor OQS2
- Continuous / real-time oil monitoring

Inline Particle Counter LPM-II-plus

- Channels: >4, 6, 14, 21, 25, 38, 50, 70 $\mu\text{m(c)}$ according to ISO 4406:1999
- Flow: 20 ... 400 ml/min
- Viscosity Range: $\leq 1000 \text{ mm}^2/\text{s}$
- Data Storage: Max. 4000 measuring results
- Interfaces: RS485, RS232, Modbus, CAN Bus
- Work pressure: up to 420 bar



Mobile Filter System

Oil Filter Cart SMFS

The STAUFF SMFS oil filter cart is a very lightweight, convenient and mobile device that can be very effective in servicing departments of various industries. It is especially suitable for the refueling and discharge of hydraulic and lubricating oil tanks and can also be used as a tank bypass circulation system.

The equipment is currently available in 15 l/min, 30 l/min, 60 l/min, 110 l/min.

Coalescer Oil Purification System SFSS-C

STAUFF SFSS-C combine the fine depth filtration of the filter element with continuous water separation from oil by means of the coalescing principle. With a mode of off-line filtration, SFSS-C rapidly remove free water and particulates from oil and does not require continuous supervision while operating. Once the unit is connected and commissioned, oil purification is an automatic process. The dehydration and filtration process is fully automatic and is controlled via the PLC.



Electronic Product

Pressure Series

- Mechanical / electronic pressure gauges
- Mechanical / electronic pressure switches
- Pressure transmitter, electronic pressure controllers

Temperature Series

- Temperature switches
- Temperature transmitter
- Electronic temperature controllers

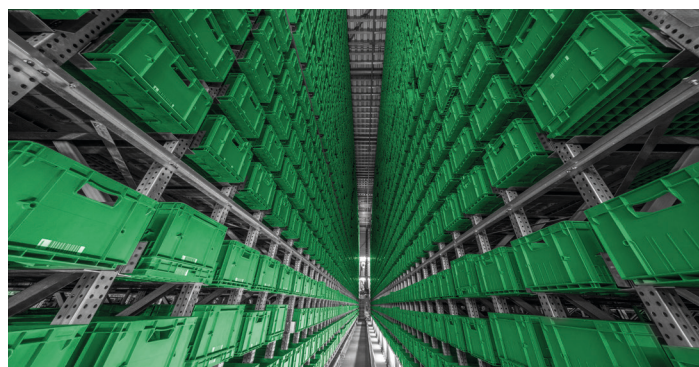
Flow Meter / Indicators

Level Series

- Level switches
- Level sensors
- Level & temperature controllers



Walter Stauffenberg GmbH & Co. KG



STAUFF German logistics center



Accumulator

Bladder Accumulator

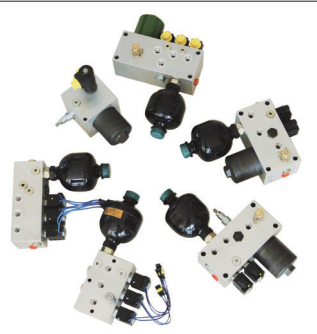
- Nominal capacity: 0.2 L ~ 55 L
- Max. working pressure: 360 bar
- Working temperature: -40°C ~ +150°C
- Shell: steel, stainless steel (option)
- Bladder: NBR, HNBR, NBR (for hydrocarbons), IIR, EPDM, FPM, ECO, etc
- Fluid side connection: internal threads or flange type are available
- Gas side: UNF 5/8" charging valve

Piston Accumulator

- Nominal capacity: Max. 1000 L (large, special capacity on request)
- Max. working pressure: 375 bar
- Working temperature: -20°C ~ +120°C
- Shell: steel, stainless steel (option)
- Seal: NBR, HPU, HNBR, FPM, PTFE, etc
- Fluid & gas connection: according to customer's requirements

STDA Diaphragm Accumulator

- Nominal capacity: 0.075 ~ 3.5 L
- Max. working pressure: 350 bar
- Working temperature: -30°C ~ +120°C
- Shell: steel with black coating
- Seal: NBR, ECO, etc
- Fluid port connection: BSPP, (UNF, Metric thread); internal/external thread connections are available
- Gas side: M28X1.5 charging valve



STAUFF Engineering

Advantages for Hydraulic Systems

- Small and light in compact design
- No leakage due to threaded cartridge valve
- Easy to install and maintain
- Optimized dimensions minimize the installation of existing fittings

Design Concept

- Customized integrated valve block according to customer's requirements, the position of the oil port, cartridge valve and the mounting method of the valve block can be specified by the customer
- Full-size 3D modeling (Solidworks, AutoCAD) ensures dimensional accuracy

Quality Assurance

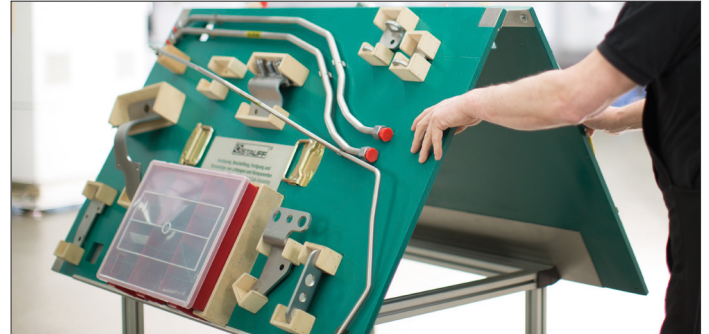
- Standardized assembly process
- 100% factory test

Product Range

- Pilot-operated valves, balancing valves, buffer valves, explosion-proof valves, etc

Applications

- Excavators, cranes, crawler cranes, rotary drills, marine industry, mining machinery, coal machinery, machinery and equipment, etc



STAUFF LINE

Components

- Worldwide alignment STAUFF fittings, hoses, flanges, valve and other accessories
- Sourcing all required components from a single manufacturer
- Various surface treatment on request

Systems

- Tube and pipe system prefabrication and modular preinstallation
- Hose assembly
- Customized solutions for customers
- Optimize processes to reduce customer risk and expense

Services

- Provide customer with global high quality products and services
- provision of individually coordinated procurement solutions for different customer needs
- Wide range of supplemental services that create measurable added value for the customer

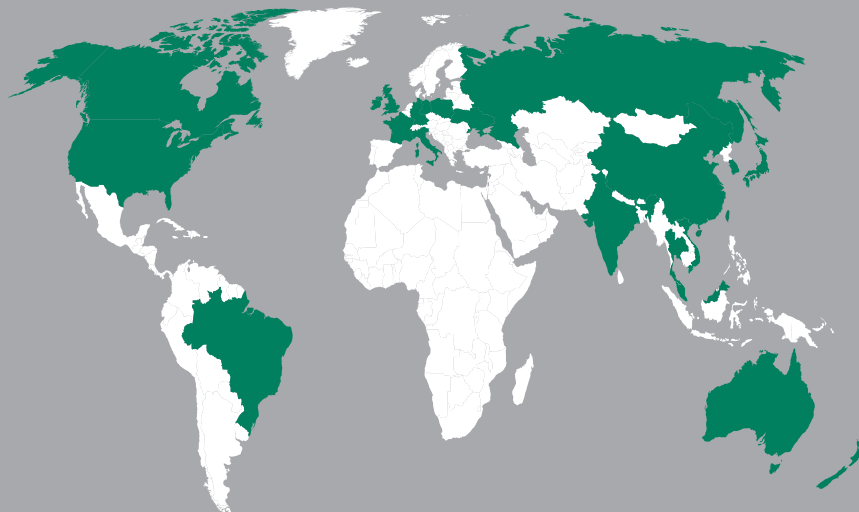


STAUFF China headquarter | Songjiang District, Shanghai



For more information
Scan wechat QR code

CONNECT
WITH STAUFF



Germany

Walter Stauffenberg GmbH & Co. KG
Im Ehrenfeld 4
58791 Werdohl
Tel.: +49 23 92 916 0
Fax: +49 23 92 916 103
sales@stauff.com

Australia

STAUFF Corporation Pty Ltd.
Tel.: +61 2 42 71 90 00
sales@stauff.com.au

Ireland

STAUFF Ireland
Tel.: +44 28 92 60 69 00
sales@stauffireland.com

Russia

STAUFF LLC
Tel.: +7 495 276 16 50
sales@stauff.ru

Brazil

STAUFF Brasil Ltd.
Tel.: +55 11 47 72 72 00
stauff@stauffbrasil.com

Italy

STAUFF Italia S.r.l.
Tel.: +39 031 65 84 94
sales@stauff.it

Thailand

STAUFF (Thailand) Co., Ltd.
Tel.: +66 2 712 73 23
sales@stauff.co.th

Canada

STAUFF Canada Ltd.
Tel.: +1 416 282 46 08
sales@stauffcanada.com

Korea

STAUFF Korea Ltd.
Tel.: +82 51 266 66 66
info@stauff.co.kr

United Kingdom

STAUFF UK Ltd.
Tel.: +44 114 251 85 18
sales@stauff.co.uk



www.stauff.com

China

STAUFF China
Tel.: +86 21 68 18 70 00
info@stauff.com.cn

Singapore

STAUFF (SEA) Pte. Ltd.
Tel.: +65 62446168
sales_sg@stauff.com

United States

STAUFF Corporation
Tel.: +1 201 444 78 00
sales@stauffusa.com

France

STAUFF S.A.S.
Tel.: +33 2 54 50 55 50
direction@stauffsa.com

New Zealand

STAUFF Corporation (NZ) Ltd.
Tel.: +64 9 912 15 30
info@stauff.co.nz

Vietnam

STAUFF Vietnam Ltd.
Tel.: +84 8 3948 10 41
sales@stauff.com.vn

India

STAUFF India Pvt. Ltd.
Tel.: +91 20 6731 49 00
sales@stauffindia.com

Poland

STAUFF Polska Sp. z o.o.
Tel.: +48 58 660 11 60
sales@stauff.pl

STAUFF CHINA

www.stauff.com

Company Offices in China:
Changsha, Chengdu, Chongqing, Dalian,
Guangzhou, Jinan, Nanjing, Shenyang,
Xi'an, Xiamen, Xuzhou, Wuhan, Zhengzhou

STAUFF Fluid Technology (Shanghai) Co., Ltd.

Add.: Building 8, No. 1698, Minyi Road, Songjiang District, Shanghai, China
Tel.: (021) 68187000 Zip: 201612

Beijing Branch

Add.: Room 207-208, Building 1, Hanwei International Plaza Zone 1, No. 186, South 4th Ring Road West, Fengtai District, Beijing, China
Tel.: (010) 66414805 Zip: 100160