



Test Couplings



Test Adaptors



Test Hoses and Connectors



Product Overview
STAUFF Test



Test couplings from the STAUFF Test product range are already planned in suitable positions in the hydraulic system during the design phase of a machine, or added at a later stage in the course of retrofitting or upgrading.

They allow machine operators and maintenance personnel to easily and safely connect analogue and digital measuring and display devices for the temporary testing or continuous monitoring of system pressure and other factors.

If required, they also allow venting of the system as well as collecting representative fluid samples, e.g. for analysing the degree of contamination of the fluid.

This type of connection requires no tools and can also be carried out during operation under full system pressure up to 630 bar / 9135 PSI (depending on the type of coupling).

The check valve (ball or poppet valve) integrated into the test coupling opens only after connection of the measuring and display device with suitable adapters or test hoses, which complete the product range. This guarantees safe sealing of the connection without any risks of leakages or fluid escaping from the system.

During production, STAUFF test couplings are not crimped after insertion of the internal valve components and seals but rather closed with a threaded nipple in a fully automated process, which secures the proper functioning of the couplings under permanent loads.

The vibration protection feature, which prevents self-loosening of the protective metal cap caused by vibrations in the system, is another competitive advantage.

For the finishing of the test coupling range in carbon steel, STAUFF relies on the STAUFF Zinc/Nickel surface coating which has proven successful for many years. It provides reliable surface protection – even after transport, handling and assembly – and meets all current legal requirements.

Versions in stainless steel V2A and V4A are generally available from stock. Alternative materials and surfaces are available on request.

For selected types and series, independent certificates and approvals can be provided:

- Military approval for use as gas filling valves for nitrogen accumulators by the German Bundeswehr (Wehrtechnische Dienststelle für Pionier- und Truppengerät)
- DVGW registration as test points for gas pressure control systems, issued by the German Technical and Scientific Association for Gas and Water





Test Couplings

Efficiency

- Coupling / uncoupling during continuous operations under full system pressure of up to 630 bar / 9137 PSI (depending on the coupling type)
- No need for a lengthy run-down or shut-down of the system
- Can be connected by hand i.e. without any tools or special training needed

Materials

- Sealing of NBR (Buna-N®) or optionally in FKM (Viton®) or also EPDM; inside seals in FKM (Viton®) as a standard feature
- Standard steel test couplings
- Stainless steel V2A (1.4305 or AISI 303) and V4A (1.4571 or AISI 316 Ti) available on request

Variability

- Pressure and temperature monitoring and control, venting and obtaining of representative fluid samples possible with just one coupling version
- Conformity with ISO 15171-2 and fully compatible with competitor products with slotted hose nipple (for SMK types)

Wear Resistance

- Improved wear resistance and stability due to high plastic deformability of the zinc/nickel surface
- Resistance to all the usual pressure fluids

Operational Safety

- Up to 3,000,000 load cycles in the impulse test (requirements of ISO 19879: 1,000,000 load cycles)
- Multi-part design with threaded nipple (less of a hazard potential than with crimping)
- No automatic releasing of the metal protective cap from vibrations in the system thanks to a vibration-securing O-ring
- Special design ensures secure, loss-free sealing of the connection before valve opening

Wide Variety

- All the usual thread and sealing types available
- Knurled caps as standard
- Hexagon and plastic caps available on request
- Application-specific types such as natural gas versions with DVGW specification as well as gas and fill versions (for SKK types) available (fill version only for gas uses)

Connection Types

Test Couplings with Male Threaded Stud	Test Couplings with Straight 24° Fitting	Test Couplings with 24° Taper / O-ring (DKO)	Test Couplings with 37° JIC Connection	Bulkheads
				

Special Test Coupling Solutions STAUFF Test

Pressure Test Connection for Compressed-Air Pneumatic Braking Equipment (according to ISO 3583)	Test Coupling with Female Connection Port	Banjo Fitting with Test Coupling	Triple Manifold Block with Test Couplings	Gauge Adaptor with Test Coupling
				





Type SMK with Ball Valve

For normal hydraulic applications with high-viscosity liquids



Test 20 - Connection Thread M16 x 2 • Type SMK-20

- Monitoring and control of pressure
- Venting
- Sampling
- Connection thread according to ISO 15171-2
- Also available with a hexagonal protection cap made of steel or plastic protection cap



Test 15 - Connection Thread M16 x 1,5 • Type SMK-15

- Monitoring and control of pressure
- Venting
- Sampling
- Also available with a hexagonal protection cap made of steel
- On request also available as SKK-type including "Gas"- and "Filling"-versions



Test 10 - Plug In System • Type SMK-10

- Monitoring and control of pressure
- Venting
- Sampling



Test Adaptors, Adjustable Gauge Fittings and Pressure Test Kits

Test Adaptors	Adjustable Gauge Fittings	Pressure Test Kits

- Thread Adaptors in common seal types
- Welding adaptors in common thread and seal types
- Adjustable gauge fittings for increased flexibility
- Analog or digital pressure test kits are assembled in various versions according to customers' requirements





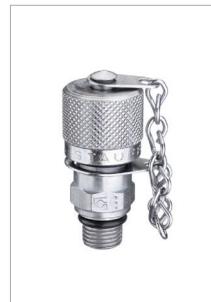
Type SKK with Piston Valve

For hydraulic applications with high/low-viscosity liquids and high, pulsating pressures or with pneumatic applications



Test 20 - Connection Thread M16 x 2 • Type SKK-20

- Monitoring and control of pressure
- Venting
- Sampling
- Filling of accumulators (special filling-version)
- Connection thread according to ISO 15171-2
- Also available with a plastic protection cap
- made of steel or plastic protection cap
- In case of ultimate tightness requirements for gaseous media, a special Gas-type is available



Test 12 - Connection Thread S12,65 x 1,5 • Type SKK-12

- Monitoring and control of pressure
- Venting
- Sampling
- Filling of accumulators (special filling-version)
- Also available with a plastic protection cap
- In case of ultimate tightness requirements for gaseous media, a special Gas-type is available



Test Hoses and Connectors



Test Hoses

- Test hoses for fluid and gaseous media
- Nominal bore sizes:
DN 2 (400 ... 630 bar / 5802 ... 9137 PSI) and
DN 4 (340 ... 630 bar / 4931 ... 9137 PSI)
- Perforated cover as standard
- Coil length up to 20 m / 65.62 ft
- Bending protection available on request

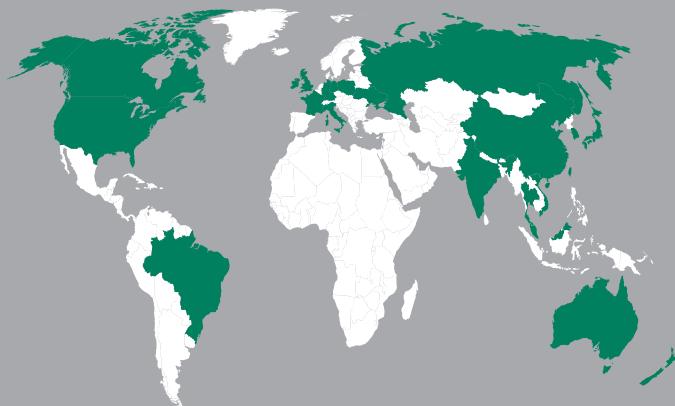


Hose Ends

- All standard connection types available
- Zinc/Nickel surface as standard
- Stainless steel available on request
- Hose connectors and sampling hose adaptors available on request



STAUFF Test

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