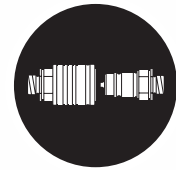


Push-to-Connect Couplings



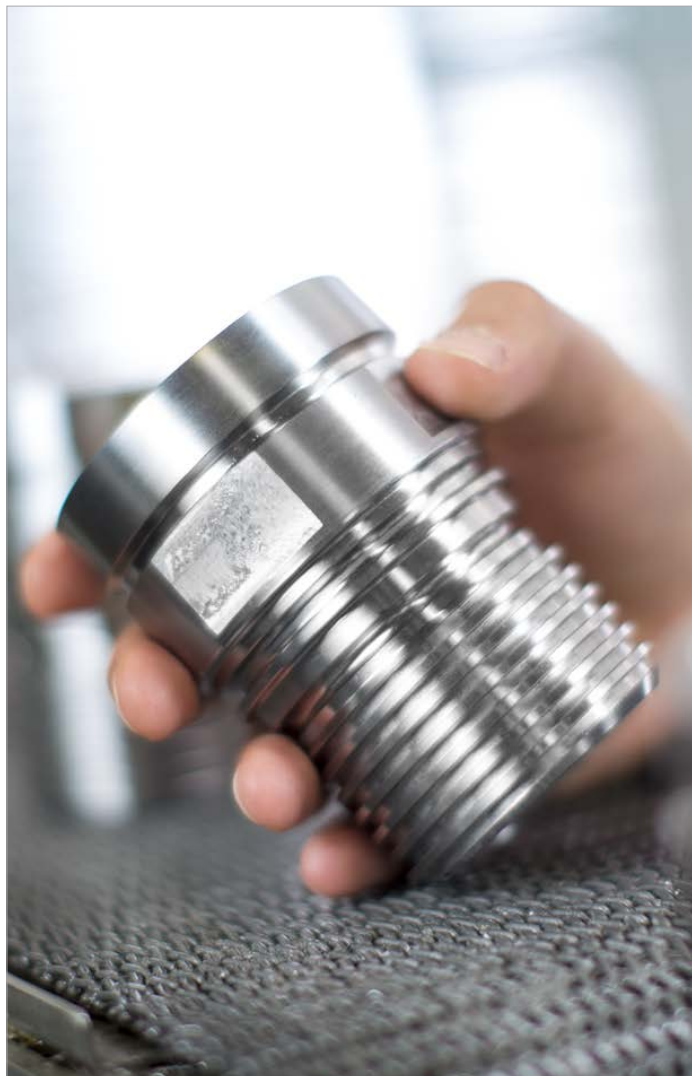
Multi Couplings



Screw-to-Connect Couplings



Product Overview  
**STAUFF Quick Release Couplings**



## STAUFF Quick Release Couplings

STAUFF couplings have established a strong reputation for reliability and performance in hydraulic systems through years of practical application. Their exceptional quality is the result of continuous product development, incorporating valuable feedback and experience from users to meet evolving industry demands. By maintaining rigorous production standards and implementing a certified quality management system in accordance with EN ISO 9001, STAUFF ensures consistent excellence and durability in every coupling we manufacture.

### Housing material

Steel according to EN 10277:  
Couplings Series FF, FC, HP-10, IA, IB, ID, BP, HUS, PS, RK/RH, FG, HH, HI, HT and MK with Zinc-Nickel coating,

Zinc-Plating and Thick-Film-Passivation  
(Chrome III)

### Seals

NBR (Buna-N®), PTFE  
ISO 3601

### Operating temperature

-25 °C ... +100 °C / -13° F ... +212° F  
with NBR (Buna-N®), PTFE  
-25 °C ... +200 °C / -13° F ... +392° F  
with FKM (Viton®)

Please contact STAUFF to request other material combinations.

### Operating Pressure & Safety Information

The operating pressures listed in this catalog apply exclusively to the strength of the housing components. Please note that standardized connector shapes may have different rated pressures, which cannot automatically be transferred to a specific coupling type.

### Important Guidelines

- Any modification or remodeling of STAUFF couplings is strictly prohibited.
- For maintenance, only original STAUFF parts must be used. Use of non-original parts or disassembly of the couplings will void the warranty.

### Compliance Notice

STAUFF hydraulic couplings are not certified under Directive 94/9/EC for use in explosive environments. However, they do not contain any ignition sources that could cause combustion.





- Free of hexavalent chrome Cr(VI)
- ELV compliant according to 2000/53/EC (End of Life Vehicles Directive)
- REACH compliant according to 1907/2006/EC (Registration, Evaluation, Authorisation and Restriction of Chemicals)
- RoHS compliant according to 2002/95/EC (Restrictions of the Use of Hazardous Substances)



**Inspection Certificate**

Part: ...

Client: ...

Product Name: ...

Material: ...

Quantity: ...

Inspection Date: ...

Inspection Result: ...

Signature: ...

Stamp: ...

#### Normative references

EN ISO 8330:2000, ISO 5675,  
ISO 5676, ISO 7241, ISO 16028, AMD 1



## Quick Release Couplings - Overview

Working Pressure bar / PSI	1250 / 18130										
	1000 / 14504										
	900 / 13054										
	800 / 11603										
	700 / 10153										
	600 / 8702										
	500 / 7252										
	400 / 5802										
	300 / 4351										
	200 / 2901										
	100 / 1450										
Series		FF	FC	FH	HP	HU	UX	IA	IA	IB	IB
Material	Carbon Steel	•	•		•	•	•	•		•	
	Stainless Steel			•					•		
Surface Finishing	Brass										•
	Zinc-Nickel	•	•		•	•		•		•	
Standard Seal Material(s) <sup>1</sup>	Zinc-Plating and Thick-Film-Passivation (Chrome III)	•			•		•				
	NBR (Buna-N®)	•	•		•	•	•	•		•	
Working Temperature	°C	-25 ... +100	-25 ... +100	-25 ... +200	-25 ... +100	-25 ... +100	-30 ... +100	-25 ... +100	-25 ... +200	-25 ... +100	-25 ... +200
	°F	-13 ... +212	-13 ... +212	-13 ... +392	-13 ... +212	-13 ... +212	-22 ... +212	-13 ... +212	-13 ... +392	-13 ... +212	-13 ... +392
Valve Design	Flat Face	•	•	•							
	Poppet Valve				•	•	•	•	•	•	•
Connection	Ball Valve										
	Push	•	•	•	• <sup>2</sup>	• <sup>2</sup>	•				
Disconnection	Push and actuate Push-Pull Sleeve				•	•					
	Push and actuate Push Sleeve							•	•	•	•
Connect Under Pressure <sup>6</sup>	Screw										
	Pull				• <sup>2</sup>	• <sup>2</sup>	•				
Application	Actuate Push-Pull Sleeve				•	•					
	Actuate Push Sleeve	•	•	•				•	•	•	•
ISO Interchange	Screw										
	Male Tip		• <sup>3</sup>			• <sup>3</sup>					
ISO Interchange	Female Body						• <sup>7</sup>				
	Agricultural and Forestry Machinery				•	•	•	•	•		
ISO Interchange	Construction Machinery	•	•								
	Industrial Hydraulic	•	•	•					•	•	•
ISO Interchange	Offshore										
	Rescue and Tensioning Hydraulics										
ISO Interchange		ISO 16028	ISO 16028	ISO 16028	ISO 7241-1, Series A					ISO 7241-1, Series B	

<sup>1</sup> Alternative seal materials are available on request.  
Working Pressure depends on the nominal size.  
Minimum Working Pressure

<sup>2</sup> When mounting the Sleeve in Bulkhead

<sup>3</sup> Up to max. 250 bar / 3626 PSI

<sup>4</sup> Up to 33% of the Working Pressure with Tools

<sup>5</sup> Max. 100 bar / 1450 PSI

<sup>6</sup> Only Residual Pressure

<sup>7</sup> Female Body up to max. 2,5 bar / 36 PSI,  
ISO-A Male Tip up to the max. Working Pressure allowed

<sup>8</sup> Max. 20 bar / 290 PSI Residual Pressure with Tools

<sup>9</sup> Up to max. 50 bar / 725 PSI with Tools





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## Push-to-Connect Couplings

STAUFF push-to-connect Couplings consist of a Female Body and a Male Tip and ensure that two tube/hose ends can be quickly and incredibly easily coupled and uncoupled without the need for a tool.

The permitted working pressures of push-to-connect Couplings are comparatively limited (depending on the respective nominal size) as they are securely locked by snap-in balls.



**Series FF/FC**

Flat-face Coupling acc. to ISO 16028,  
Series FC (male tip)  
Connection under pressure



**Series FH (Stainless Steel)**

Flat-face Coupling acc. to ISO 16028  
Resistant to aggressive environment and  
flow mediums



**Series HP**

ISO 7241-1, Series A, Push-Pull  
Series HU (male tip) Connection under pressure  
Valves close automatically if the Male Tip  
break away



**Series UX**

ISO 7241-1, Series A, Push-Pull,  
Connection under pressure  
Compatible with Series HP Male Tip



**Series IA**

ISO 7241-1, Series A  
Double shut-off valve design  
Compatible with Series HP



**Series IA (Stainless Steel)**

ISO 7241-1, Series A  
Double shut-off valve design



**Series IB**

ISO 7241-1, Series B  
Double shut-off valve design



**Series IB (Brass)**

ISO 7241-1, Series B  
Double shut-off valve design



**Series IB (Stainless Steel)**

ISO 7241-1, Series B  
Double shut-off valve design



**Series ID/IS**

ISO Poppet Style  
IS Ball Style  
Double shut-off valve design



**Series BP**

ISO 5676  
For use in hydraulic brake systems.  
The design of the coupling meets the  
requirements of NFU 16006 and ISO 5676



**Series HC**

Flat-face Coupling  
Double shut-off valve design



**Series HD**

Flat-face Coupling  
Double shut-off valve design



**Series HUS**

Nordic interchange





## Multi Couplings

The multi-coupling has been created for connecting and disconnecting several hydraulic lines at the same time. This is done by an operating lever the guide crank of which is designed for a minimum of operating force.

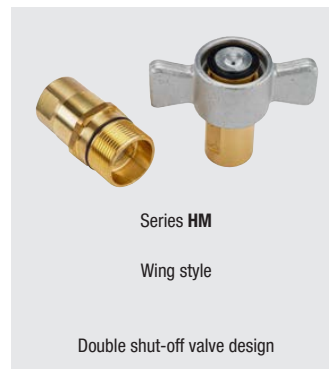
The connection of the hydraulic lines is done with flat face couplings. Due to the special sealing it is possible to couple against trapped pressure on the male halves (max. 4x100 bar / 5802 PSI)



## Screw-to-Connect Couplings

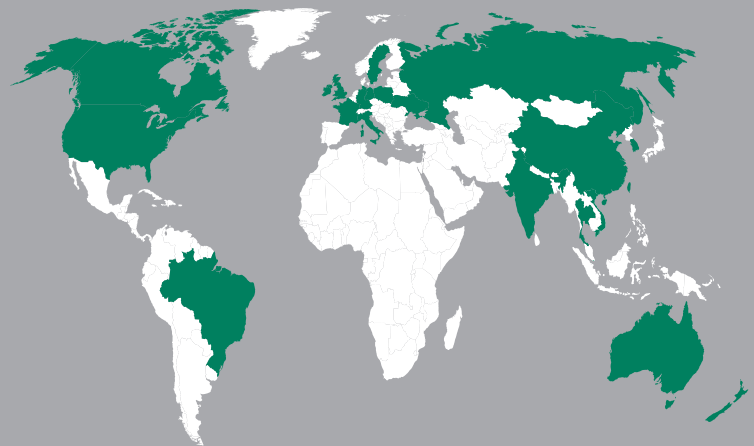
STAUFF Screw-to-connect Couplings are locked by manually screwing together the thread of the female body and the thread of the male tip as far as they will go.

Higher working pressures can sometimes be achieved with Screw-to-connect Couplings than with push-to-connect Couplings (depending on the respective nominal size) as the forces produced act on the thread rather than on the snap-in balls.





## STAUFF Quick Release Couplings



### United States

**STAUFF Corporation**  
7 William Demarest Pl  
Waldwick NJ 07463

STAUFF products and services are globally available through wholly-owned subsidiaries and a tight network of authorised distributors and representatives in all major industrial regions of the world.

Contact STAUFF:

[www.stauffusa.com/contact](http://www.stauffusa.com/contact)