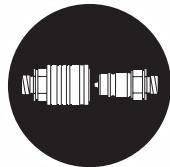




Push-to-Connect Couplings



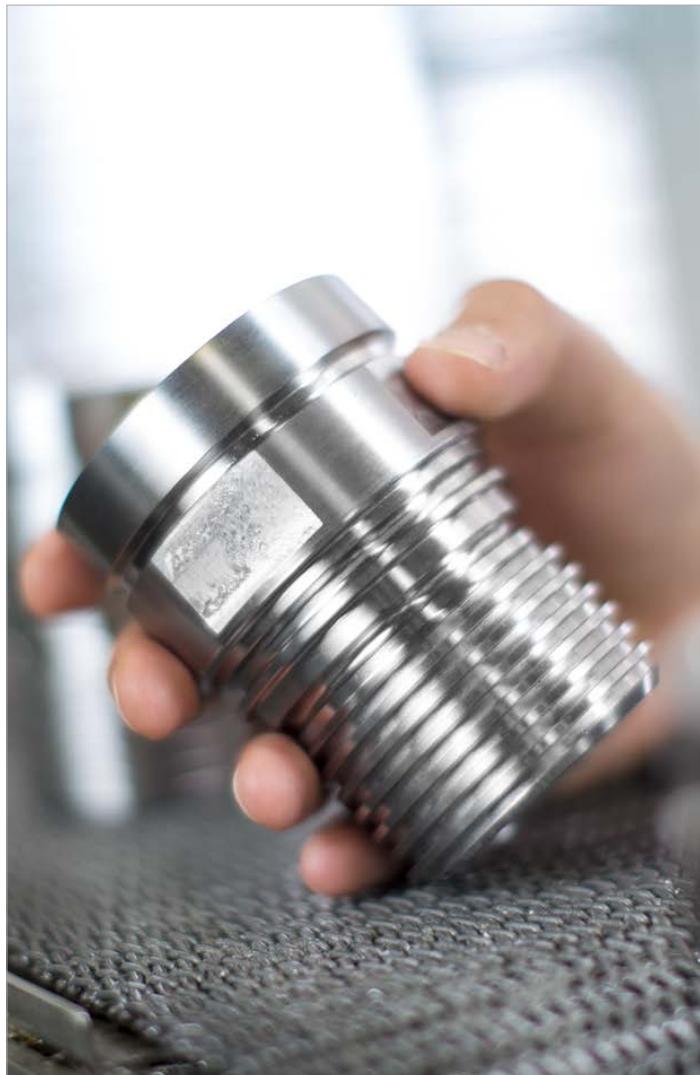
Multi Couplings



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)



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										
Surface Finishing	Carbon Steel	●	●		●	●	●	●	●	●
Standard Seal Material(s) ¹	Stainless Steel		●					●		
Working Temperature	Brass									●
Valve Design	Zinc-Nickel	●	●		●	●	●	●	●	●
Connection	Zinc-Plating and Thick-Film-Passivation (Chrome III)	●			●	●	●	●	●	
Disconnection	NBR (Buna-N®)	●	●		●	●	●	●	●	
Connect Under Pressure ⁶	HNBR									
Application	FKM (Viton®)		●					●		●
ISO Interchange	PTFE	●	●	●	●		●			
	PU	●	●							
Valve Design	Flat Face	●	●	●						
Connection	Poppet Valve				●	●	●	●	●	●
Disconnection	Ball Valve									
Connect Under Pressure ⁶	Push	●	●	●	● ²	● ²	●			
Application	Push and actuate Push-Pull Sleeve				●	●				
ISO Interchange	Push and actuate Push Sleeve						●	●	●	●
Valve Design	Screw									
Connection	Pull				● ²	● ²	●			
Disconnection	Actuate Push-Pull Sleeve				●	●				
Connect Under Pressure ⁶	Actuate Push Sleeve	●	●	●			●	●	●	●
Application	Screw									
ISO Interchange	Male Tip		● ³			● ³				
Valve Design	Female Body						● ⁷			
Connection	Agricultural and Forestry Machinery				●	●	●	●	●	
Disconnection	Construction Machinery	●	●							
Connect Under Pressure ⁶	Industrial Hydraulic	●	●	●						
Application	Offshore							●	●	●
ISO Interchange	Rescue and Tensioning Hydraulics									
Valve Design	ISO 16028	ISO 16028	ISO 16028				ISO 7241-1, Series A		ISO 7241-1, Series B	

¹ Alternative seal materials are available on request.

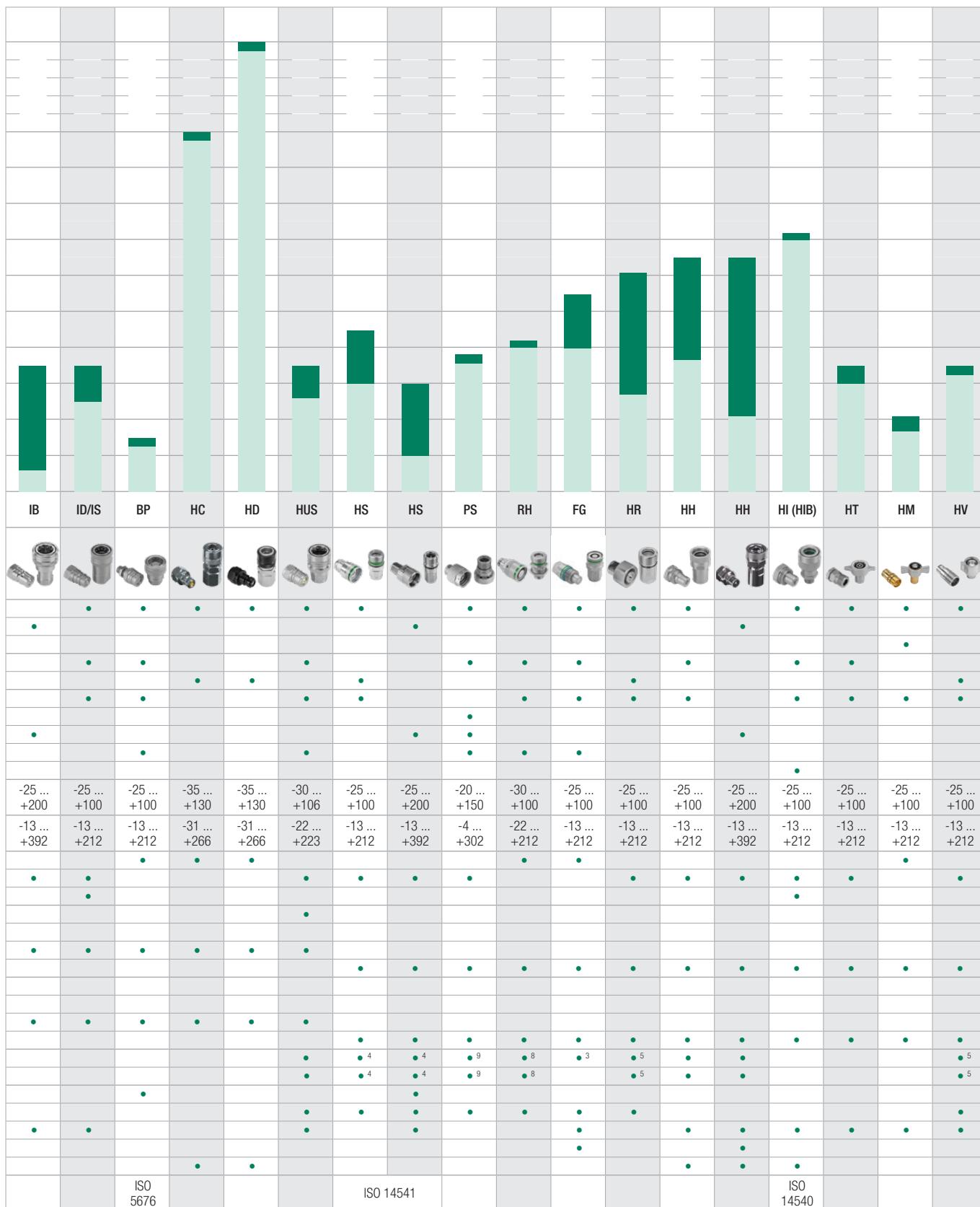
Working Pressure depends on the nominal size.

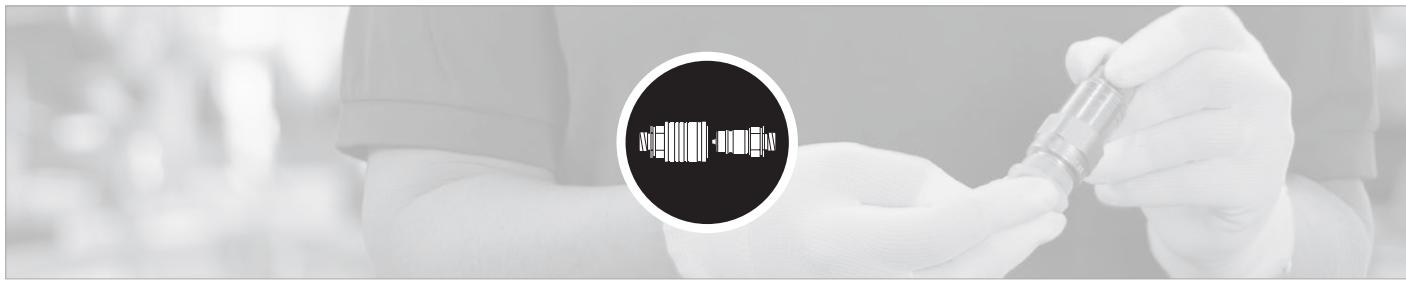
Minimum Working Pressure

² When mounting the Sleeve in Bulkhead³ Up to max. 250 bar / 3626 PSI⁴ Up to 33% of the Working Pressure with Tools⁵ Max. 100 bar / 1450 PSI⁶ Only Residual Pressure⁷ Female Body up to max. 2,5 bar / 36 PSI,

ISO-A Male Tip up to the max. Working Pressure allowed

⁸ Max. 20 bar / 290 PSI Residual Pressure with Tools⁹ Up to max. 50 bar / 725 PSI with Tools





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**

ID 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 seal sealing it is possible to couple against trapped pressure on the male halves (max. 4x100 bar / 5802 PSI)



Screw-to-Connect Couplings

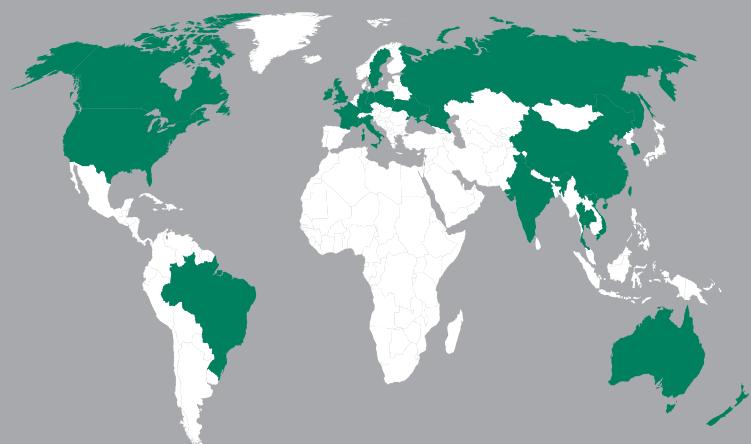
STAUFF Screw-to-connect Couplings are locked by manually screwing together the thread of the female body and the thread of the male tip as far as they will go.

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



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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