

CONNECTORS 
THE CONNECTION SOLUTION

QUICK-RELEASE COUPLINGS **CBI 06**

PLASTIC INDUSTRY



- Automatic locking
- Non spill design
- Greater efficiency
- Perfect tightness

APPLICATIONS

- Cold or hot water
- Hydraulic and mineral oils
- Mineral or synthetic origin heat transfer oils
- Water glycol, hot water or steam
- Cooling of machinery.
- Temperature control lines on thermoplastic injection molds.

STÄUBLI

QUICK-RELEASE COUPLINGS

CBI 06



JUST PUSH TO CONNECT

The automatic locking mechanism brings a great flexibility in use to the CBI 06, especially during:

- "blind" connection
- connection in recess location

■ **Non-spill flat-faced design**

The non-spill design of the CBI 06, guarantees perfectly sealing during connection and disconnection of your circuits:

- no air introduced into the circuits
- no pollution from the work environment
- protection of tools and production.

■ **Optimal flow for minimum overall size**

- compact design
- excellent efficiency due to direct, turbulence-free flow of the fluid.



COMPLETE INTERCHANGEABILITY WITH THE SPI RANGE

CBI sockets and plugs are fully compatible with the SPI range:

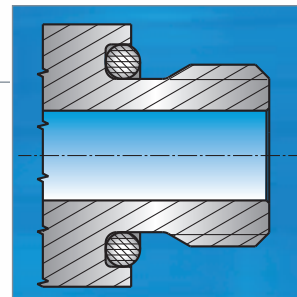
- SPI 06 plugs with CBI 06 sockets,
- SPI 06 sockets with CBI 06 plugs.

■ **Reliability and robustness**

Maximum embedding of the plug in the socket in coupled position allows the CBI 06 to withstand strong mechanical stress (vibration, oscillation, etc.).

■ **Technology and construction studied for perfect sealing**

- sealing area built into the back adaptor
- double sealing barrier in coupled position.

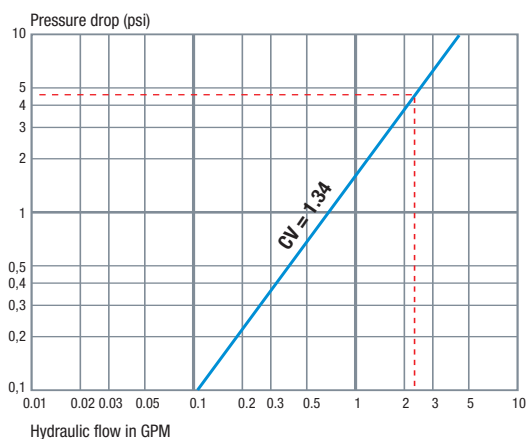


TECHNICAL CHARACTERISTICS

	SEALS	CBI 06
Flow Ø (inch)		1" / 4
Max. working pressure (psi)		725
Operating temperatures (°F)		
- heat transfer mineral oils	FPM	+14° to +302°
- heat transfer synthetic oils	FPM	+14° to +392°
- cold or hot water, hydraulic and mineral oils	NBR	+5° to +212°
- water glycol	EPDM*	-4° to +302°
- hot water and steam	EPDM*	-4° to +392°
Shut off		double

*This seal should not be used or come into contact with mineral fluids (oil, grease, etc.).

Hydraulic flow chart showing flow / pressure drop



Test conditions:

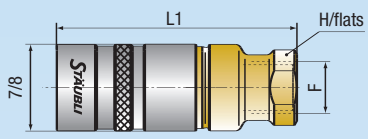
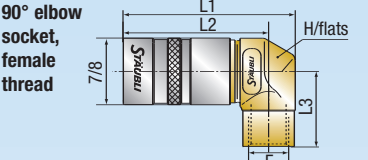
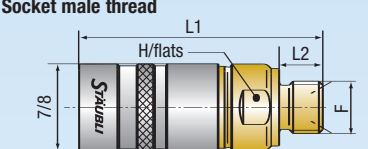
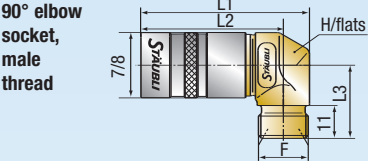
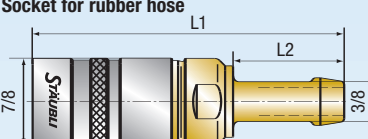
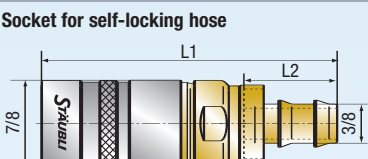
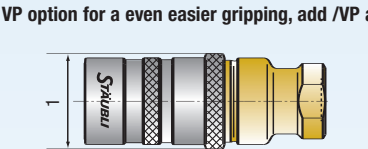
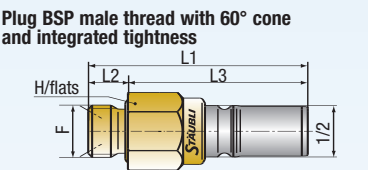
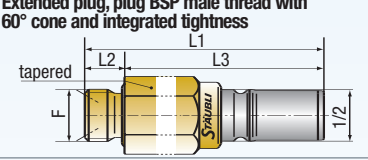
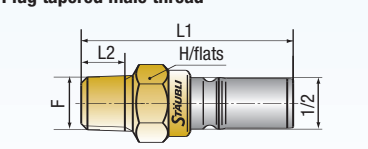
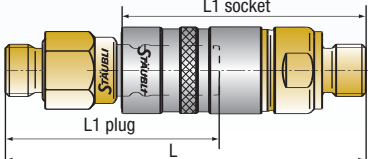
- plug ➔ socket
- Hydraulic oil H515 at 104°F
- Density: 0.030 pound/inch³
- Viscosity: 13.4 cSt

Construction

stainless steel material

seals:

- Fluorocarbon seal (FPM) in standard
- Nitrile (NBR)
- Ethylene-propylene (EPDM).

PART-NUMBERS	F	H/FLATS (in.)	L1 (in.)	L2 (in.)	L3 (in.)	PART-NUMBERS
Socket female thread 	G 1/4	0.67	2.38	-	-	CBI 06.1101/IA/JV
	NTP 1/4	0.67	2.40	-	-	CBI 06.1201/IA/JV
90° elbow socket, female thread 	G 1/4	0.87	2.23	1.89	0.98	CBI 06.1101/IA/JV/RE
	NTP 1/4	0.87	2.23	1.89	0.96	CBI 06.1201/IA/JV/RE
Socket male thread 	G 1/4 cone 60°	0.79	2.42	0.43	-	CBI 06.1151/IA/JV
	G 3/8 cone 60°	0.79	2.40	0.47	-	CBI 06.1152/IA/JV
	M 16x1,5 cone 24°	0.79	2.32	0.43	-	CBI 06.1416/IA/JV
90° elbow socket, male thread 	G 3/8 cone 60°	0.87	2.23	1.89	0.96	CBI 06.1152/IA/JV/RE
	M 16x1,5 cone 24°	0.87	2.23	1.89	0.94	CBI 06.1416/IA/JV/RE
Socket for rubber hose 	3/8	0.79	3.09	1.10	-	CBI 06.1810/IA/JV
Socket for self-locking hose 	3/8	0.79	3.090	0.93	-	CBI 06.1810/IA/JV/CN
VP option for a even easier gripping, add /VP at the end to the reference. Example: CBI 06.1101/IA/JV/RE/VP 						
Plug BSP male thread with 60° cone and integrated tightness 	G 1/4	0.67	2.13	0.39	1.73	CBI 06.7151/IA/JV
	G 3/8	0.83	2.11	0.43	1.67	CBI 06.7152/IA/JV
Extended plug, plug BSP male thread with 60° cone and integrated tightness 	G 1/4	0.67	3.62	0.39	3.23	CBI 06.7151/IA/JV/80
	G 1/4	0.67	4.80	0.39	4.41	CBI 06.7151/IA/JV/110
Plug tapered male thread 	NPT 1/4	0.67	2.11	0.43	-	CBI 06.7251/IA/JV
	NPT 3/8	0.67	2.09	0.43	-	CBI 06.7252/IA/JV
	R 1/4	0.67	2.11	0.43	-	CBI 06.7161/IA/JV
Overall dimensions in coupled position: $L = (L1 \text{ plug} + L1 \text{ socket}) - 0.97$ 						

- The EPDM or Nitrile seal options are available on all our models:
 - EPDM seals: replace the code JV with the code JE in the references above
 - Nitrile (NBR) seals: delete the code JV in the references above.

- Sales coordination
- Stäubli subsidiaries
- Distributors

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