

SCG quick-release couplings

Thermal management







Better designed cooling circuits

Non-spill flush faced technology

The flat face of Stäubli quick connectors guarantee perfect sealing and total security at the heart of your processes.

Non-drip to ensure cleanliness and safety of installations

Thanks to the SCG connectors, the circuit is automatically closed upon disconnection:

- No contamination of the environment due to fluid loss
- Suitable for electrical and high voltage environments

Customised sealing solutions

The SCG range is compatible with the majority of cooling fluids and covers a large range of temperatures.

Reliable locking

A ball locking system offers even more secure connections.

Performance

- Minimal pressure drop
- Designed to withstand many connections

Visual identification

Blue or red coloured prints allow operators to immediately identify the circuits.

Blue print **/KB**, red print **/KR**

Applications





- High Performance Computer
- Data Centre
- Internet switch
- Communications satellites
- Broadcasting
- Medical

Easy of connections

Front sealing is provided by a seal fitted in the back adapter on all cylindrical male plugs.



Technical characteristics

	SCG 03	SCG 06	SCG 09	SCG 12
Nominal diameter DN (mm)	Ø3	Ø6	Ø9	Ø12
Maximum allowable pressure PS (bar)	16	16	16	16
Connection force without pressure (N)	40	82.5	88.4	132
Shutt-off				

Visual identification

With blue visual key **/KB** to reference

With red visual key **/KR** to reference



Operating temperature range according to the elastomer nuance

The choice of elastomer depends on the fluid and the operating temperature.

Please contact us for more information and advice.

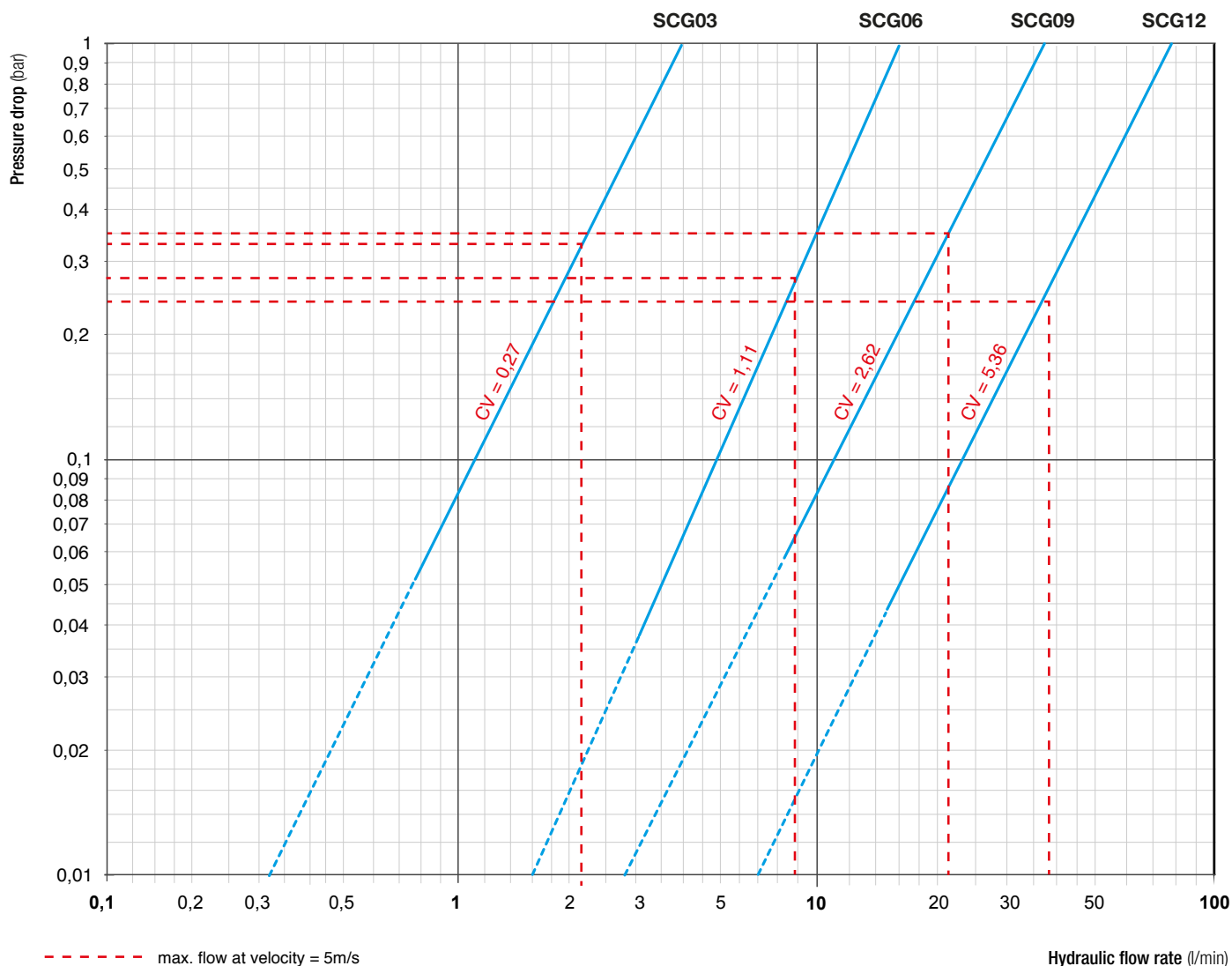
Our expertise in fast connection is at your disposal.

Type of seals	Code	Minimum and maximum allowable temperatures TS * (°C)
Ethylene-propylene (EPDM)	JE	-10°C to 100°C

Construction

- Nickel-plated brass

FLOW RATE / PRESSURE DROP HYDRAULIC CHARTS



■ Test conditions:

- Fluid: water

■ Direction of flow:

plug -> socket

max flow at the 5m/s velocity = 2,12

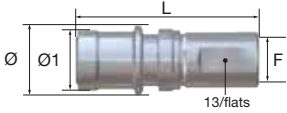
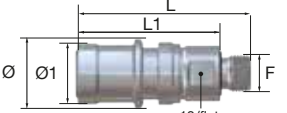
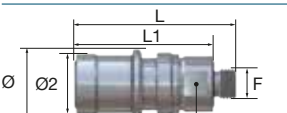
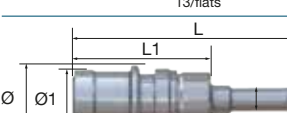
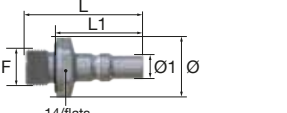
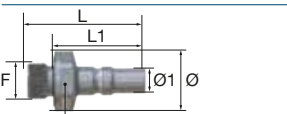
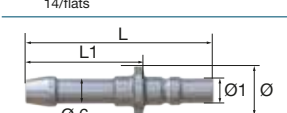
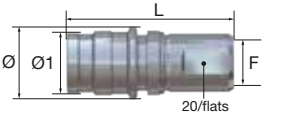
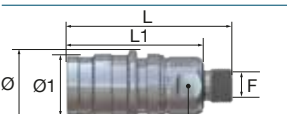
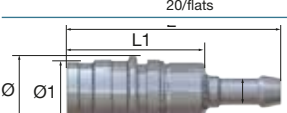
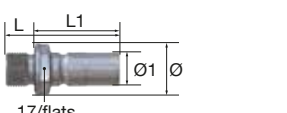
Speed (m/s)	Flow rate (l/min)			
	SGC 03	SCG 06	SCG 09	SCG 12
5	2,12	8,48	21	36,82



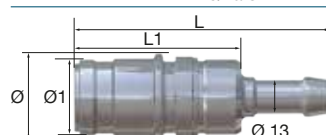
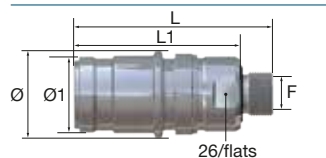
The opportunity to spend less and contribute more to a sustainable development program.

With Stäubli, you can rely on the performance of your equipment, reliability of long-term investments and no workplace pollution.

Part-numbers

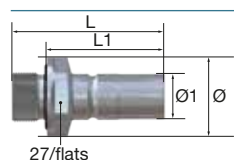
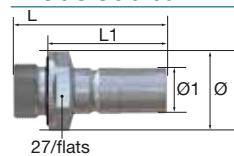
SOCKETS SCG 03		Designation	Thread F	L (mm)	L1 (mm)	Ø (mm)	Ø1 (mm)	Part numbers
	Female thread	G 1/8	47.3	-	Ø18	Ø15.7	SCG03.1100/JE/KB	
							SCG03.1100/JE/KR	
	Male thread with 60° cone	G 1/8	45.2	37.2	Ø18	Ø15.7	SCG03.1150/JE/FS/KB	
							SCG03.1150/JE/FS/KR	
	UN male thread	UNF 5/16-24	41.8	35.8	Ø18	Ø15.7	SCG03.1408/JE/FS/UN/KB	
							SCG03.1408/JE/FS/UN/KR	
	For hose	Hose Ø6mm	63.8	35.8	Ø18	Ø15.7	SCG03.1806/JE/KB	
							SCG03.1806/JE/KR	
PLUGS SCG 03								
	Male thread	G 1/8	30.5	22.5	Ø15.5	Ø7.5	SCG03.7150/JE/FS/KB	
							SCG03.7150/JE/FS/KR	
	UN male thread	UN 3/8-24	30.5	23.5	Ø15.5	Ø7.5	SCG03.7409/UN/JE/FS/KB	
							SCG03.7409/UN/JE/FS/KR	
	For hose	Hose Ø6mm	48.5	20.5	Ø12.7	Ø7.5	SCG03.7806/JE/KB	
							SCG03.7806/JE/KR	
SOCKETS SCG 06								
	Female thread	G 1/4	62.1	-	Ø27	Ø24	SCG06.1101/JE/KB	
							SCG06.1101/JE/KR	
	Male thread with 60° cone	G 1/4	61.6	50.6	Ø27	Ø24	SCG06.1151/JE/FS/KB	
							SCG06.1151/JE/FS/KR	
	For hose	Hose Ø10mm	79.6	51.6	Ø27	Ø24	SCG06.1810/JE/KB	
							SCG06.1810/JE/KR	
PLUG SCG 06								
	Male thread	G 1/4	42.5	31.5	Ø19.5	Ø12.8	SCG06.7151/JE/FS/KB	
							SCG06.7151/JE/FS/KR	

SOCKETS SCG 09



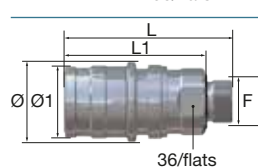
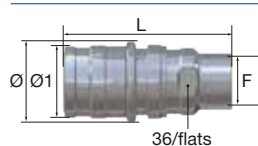
Designation	Thread F	L (mm)	L1 (mm)	Ø (mm)	Ø1 (mm)	Part numbers
Male thread with 60° cone	G 3/8	74.2	62.2	Ø32.6	Ø28.3	SCG09.1152/JE/FS/KB
						SCG09.1152/JE/FS/KR
For hose	Hose Ø13mm	95.2	62.2	Ø32.6	Ø28.3	SCG09.1813/JE/KB
						SCG09.1813/JE/KR

PLUGS SCG 09



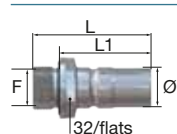
Male thread	G 1/2	57	44	Ø29.7	Ø17.3	SCG09.7153/JE/FS/KB
						SCG09.7153/JE/FS/KR
Thread UN 3/4 -16	UN 3/4-16	57	44	Ø29.7	Ø17.3	SCG09.7419/UN/JE//FS/KB
						SCG09.7419/UN/JE/FS/KR

SOCKETS SCG 12

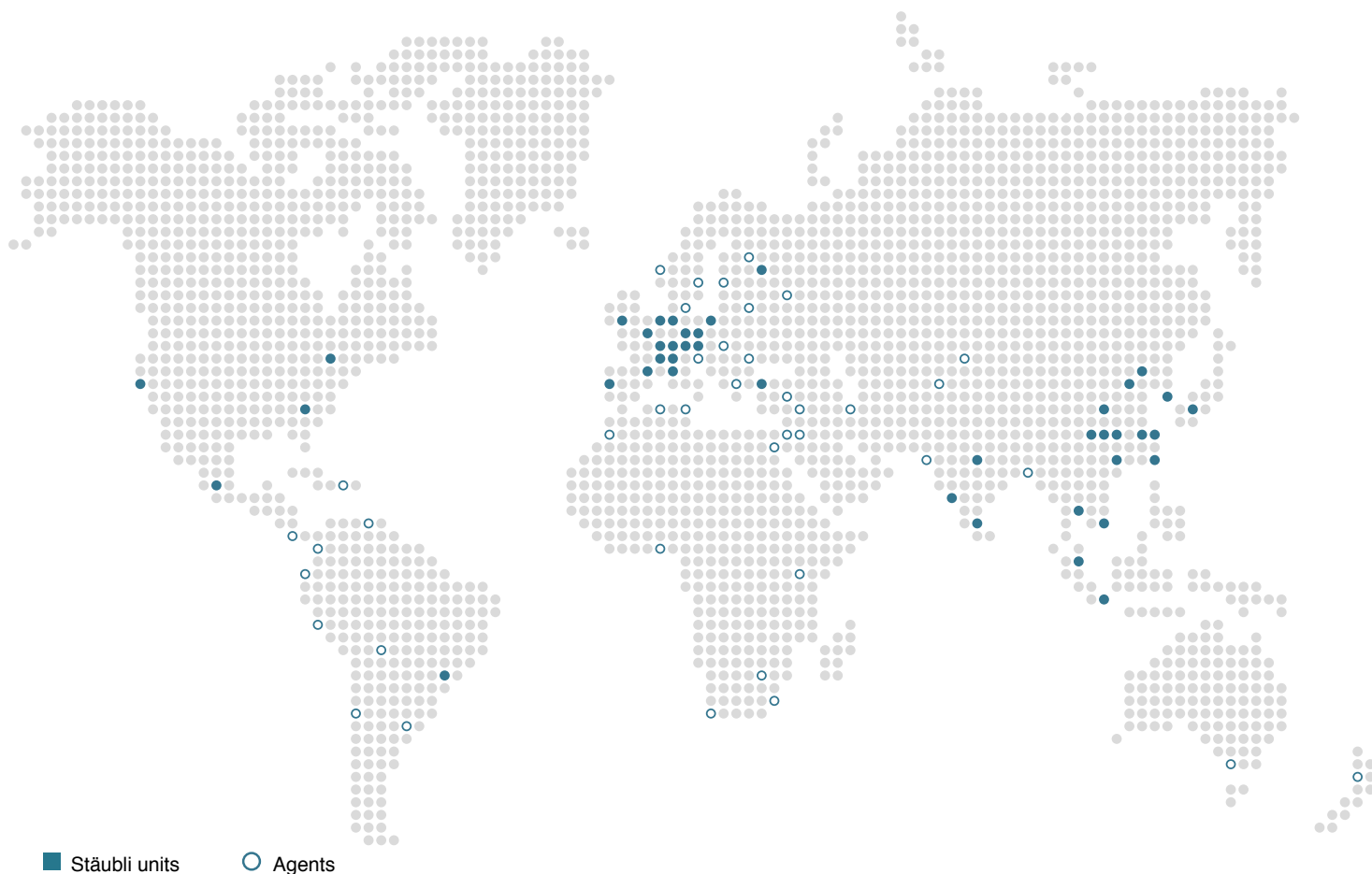


Female thread	G 1/2	100.7	-	Ø48	Ø43.5	SCG12.1103/JE/KB
						SCG12.1103/JE/KR
Male thread with 60° cone	G 3/4	100.7	84.7	Ø48	Ø43.5	SCG12.1154/JE/FS/KB
						SCG12.1154/JE/FS/KR

PLUG SCG 12



Male thread	G 3/4	70.5	54.5	Ø36.5	Ø24.6	SCG12.7154/JE/FS/KB
						SCG12.7154/JE/FS/KR



Global presence of the Stäubli Group

www.staubli.com