

FAST MOVING TECHNOLOGY

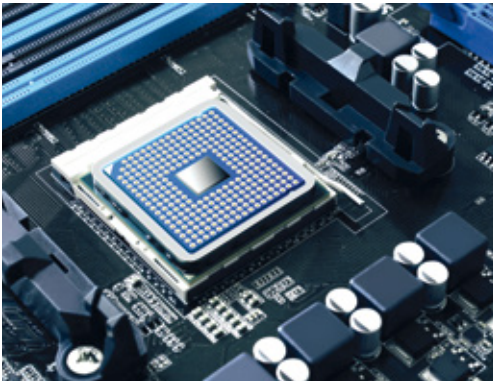
STÄUBLI

CGD quick-release couplings

Thermal management



Flush face technology...





for your applications

Non spill flush face technology guarantees the integrity of the fluid

No pollution can enter the circuit on connection.

Non-drip to ensure cleanliness and safety of installations and operators.

Thanks to the CGD connector, 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

Various options of elastomers enable the CGD range to be compatible with the majority of fluids and cover a wide range of temperatures.

Performance and reliability

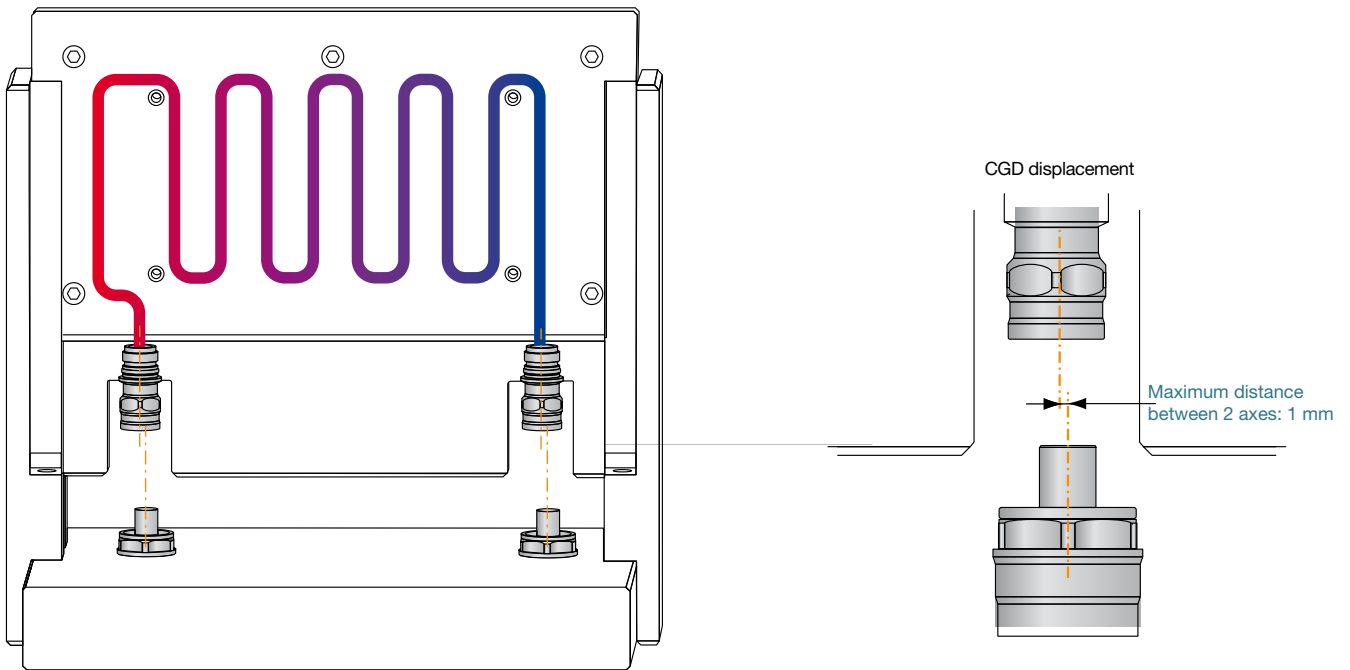
- High flow volume
- Resistance to vibration and corrosion
- Designed to withstand numerous connection sequences.

Applications

- High performance computer
- Data center
- Medical
- Broadcasting

Displacement technology

A solution suitable for guiding systems with a maximum misalignment of 1 mm.



The opportunity to spend less and contribute to a sustainable development programme.

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

Technical characteristics

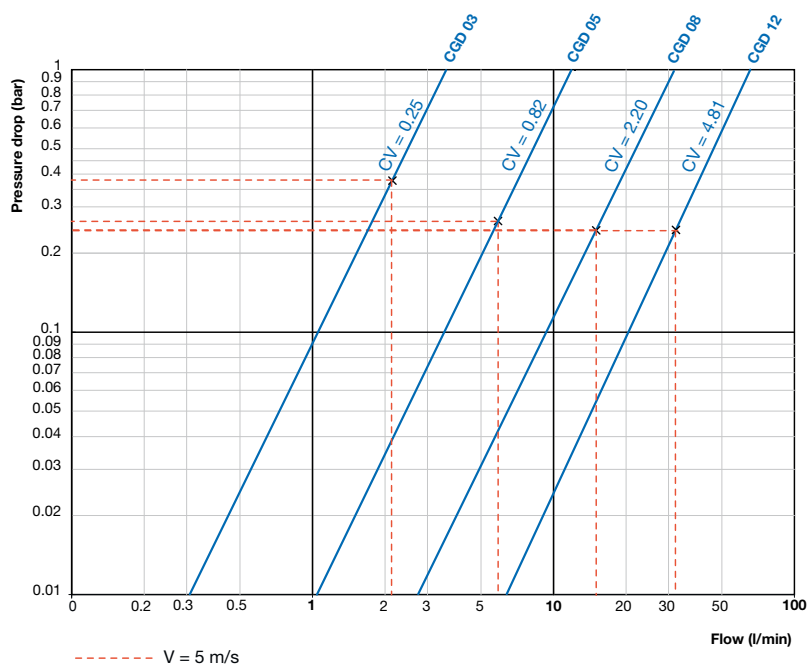
Construction: aluminium alloy with surface treatment or nickel-plated brass

Type of seal	Seal code	Working temperatures (°C)
Fluoro-silicone	JS3	-40° to +175° (down to -50° depending on the fluid)
Ethylene-propylene	JE	-20° to +150°
Fluorocarbone	JV	-10° to +200°

To select the type of seal on your CGD sockets and plugs, add the «seal code» to the end of the part number.
E.g.: CGD 05.2416/JV for a CGD with fluorocarbon seals.

		CGD 03		CGD 05		CGD 08		CGD 12		
Nominal diameter DN (mm)		03		05		08		12		
Maximum allowable pressure PS (bar)	Nickel-plated brass	16		16		16		16		
	Anodized aluminium	16		16		16		16		
	Minimum and maximum allowable temperatures TS (°C)	- 40°C and + 150°C	16		16		16		16	
		+150°C and + 200°C	5		5		5		5	
Connection force without pressure (N)		40		60		90		150		
Repulsion cross section (cm ²)		0,30		0,85		1,77		3,60		
Fluid loss on disconnection (cm ³)		0,002		0,005		0,012		0,020		
Weight (g)		Aluminium	Brass	Aluminium	Brass	Aluminium	Brass	Aluminium	Brass	
socket		7	19	16	42	25	63	56	147	
plug		11	37	28	97	48	155	86	290	
module plug		7	21	19	61	28	106	-	-	
Shut-off		double	double	double	double	double	double	double	double	

Hydraulic flow rate / pressure drop charts

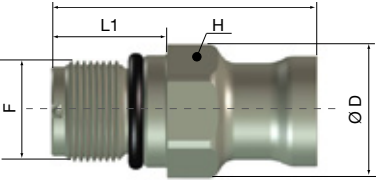


Test conditions:

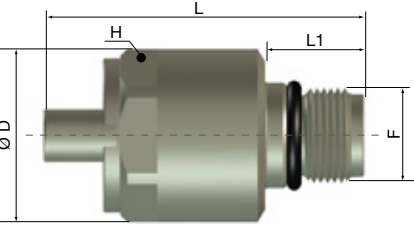
- Water (998 kg/m³ ; 1,08 cSt)
- Direction of flow: → plug socket

Part numbers

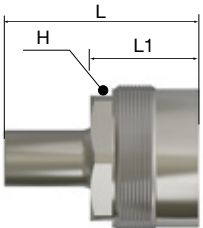
Socket

Designation	F	L (mm)	L1 (mm)	Ø D (mm)	H (mm)	Part numbers		
						Aluminium	Brass	
	CGD 03	M 11 x 1	28,8	12,5	14,5	13	CGD03.2411/L	CGD03.2411
	CGD 05	M 16 x 0,75	38	14,4	20	18	CGD05.2416/L	CGD05.2416
	CGD 08	M 21 x 1	40,5	16,3	24,5	22	CGD08.2421/L	CGD08.2421
	CGD 12	M 29 x 1,5	58,4	21,1	33	30	CGD12.2429/L	CGD12.2429

Plug

Designation	F	L (mm)	L1 (mm)	Ø D (mm)	H (mm)	Part numbers		
						Aluminium	Brass	
	CGD 03	M 11 x 1	37,2	11,5	20	18	CGD03.5411/L	CGD03.5411
	CGD 05	M 16 x 0,75	51,3	13	27,5	25	CGD05.5416/L	CGD05.5416
	CGD 08	M 21 x 1	60	16	33	30	CGD08.5421/L	CGD08.5421
	CGD 12	M 29 x 1,5	73,5	19	41	38	CGD12.5429/L	CGD12.5429

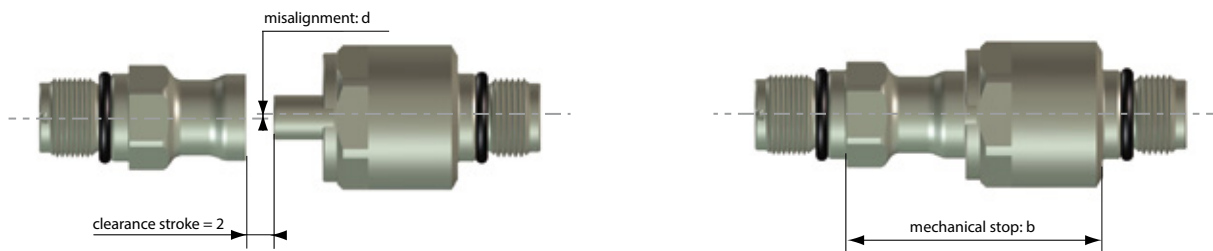
Module plug

Designation	F	L (mm)	L1 (mm)	H (mm)	Part numbers		
					Aluminium	Brass	
	CGD 03	M 20 x 1	23,9	12,8	17	CGD03.5420/MD/L	CGD03.5420/MD
	CGD 05	M 27 x 1	35,8	20	23	CGD05.5427/MD/L	CGD05.5427/MD
	CGD 08	M 33 x 1,5	42	21,8	28	CGD08.5433/MD/L	CGD08.5433/MD

Add the seal code to the end of the part number.

Types of seal	Seal code
Fluorocarbone	JV
Fluoro-silicone	JS3
Ethylene-propylene	JE

Installation

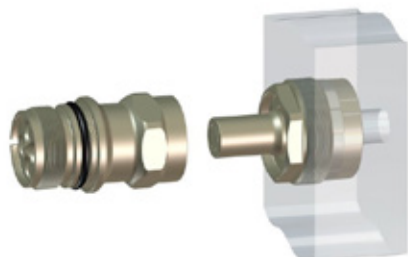


Designation	Maxi misalignment d (mm)	Mechanical stop (mm)	Installation drawing reference
CGD 03	1	30 ±1	R34903110
CGD 05	1	44,5 ±1	R34903210
CGD 08	1	49 ±1	R34903310
CGD 12	1	67 ±1	R34903510

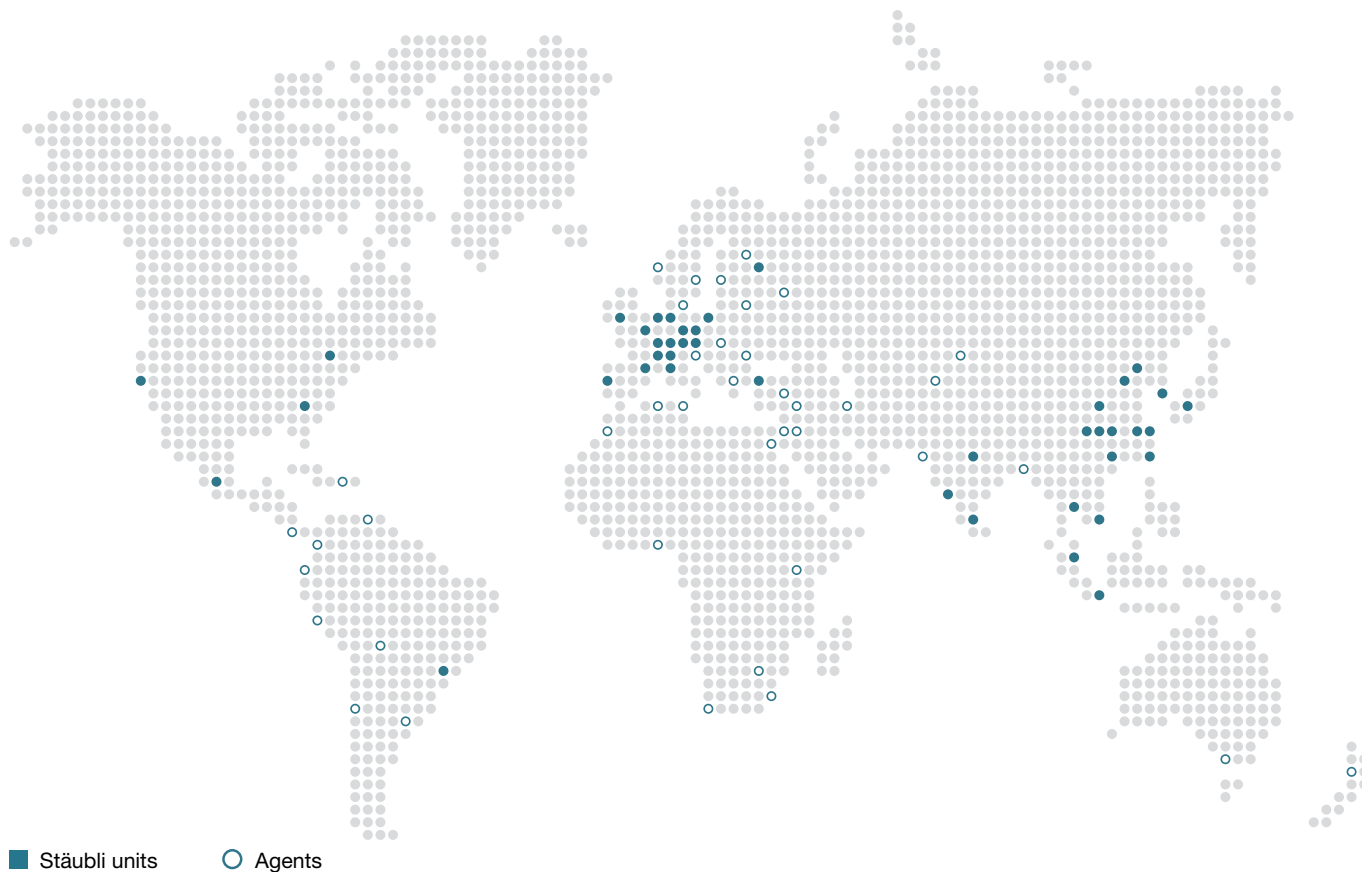


Designation	Maxi misalignment d (mm)	Mechanical stop (mm)	Installation drawing reference
CGD 03	1	28 ±1	R34904110
CGD 05	1	42 ±1	R34904210
CGD 08	1	47 ±1	R34904310

Plug installation into recessed pocket



Machining plans available on request.



Global presence of the Stäubli Group

www.staubli.com