

FAST MOVING TECHNOLOGY

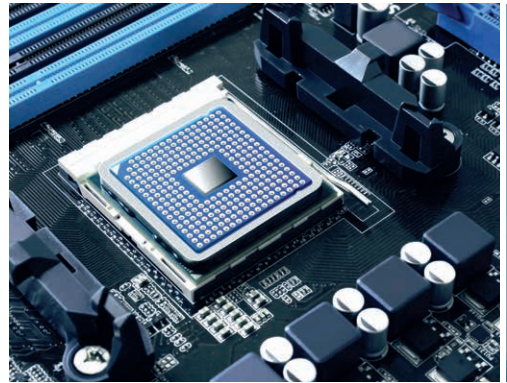
STÄUBLI

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

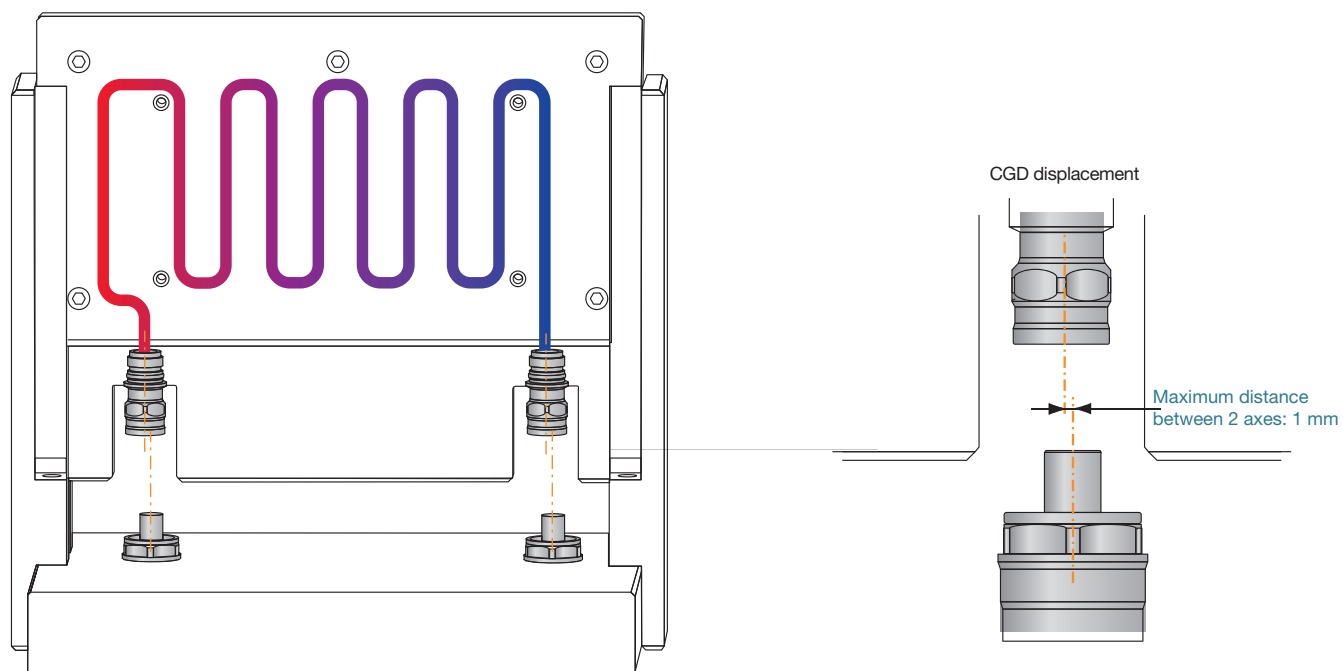
- High flow volume
- Resistance to vibration and corrosion
- Designed to withstand numerous connection sequences.

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

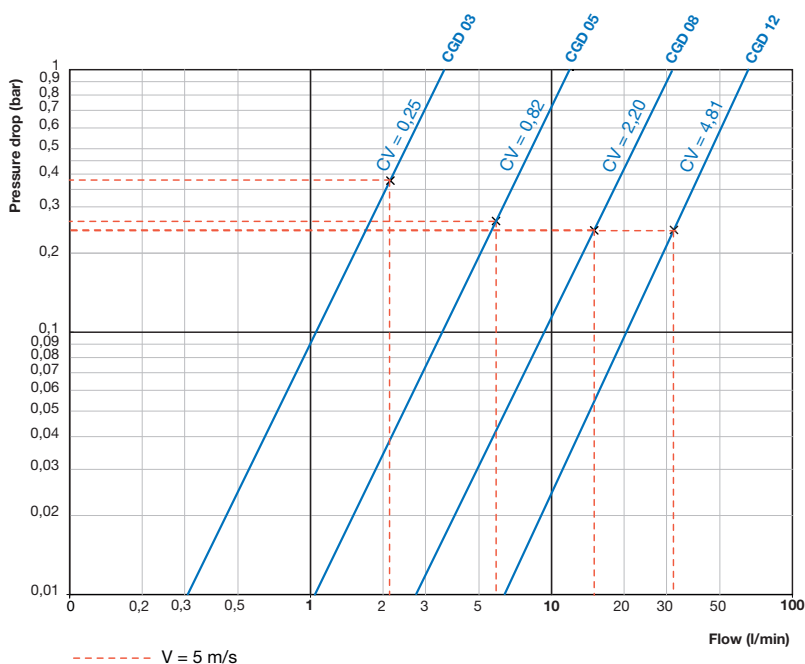
Construction: aluminium alloy with surface treatment

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°
Fluorocarbene	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)	Brass		16		16		16		16		
	Aluminium										
	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 (cm²)			0,30		0,85		1,77		3,60		
Fluid loss on disconnection (cm³)			0,002		0,005		0,012		0,020		
Weight (g)			Aluminium	Brass	Aluminium	Brass	Aluminium	Brass	Aluminium	Brass	
socket			6	17	15	42	23	63	56	142	
plug			12	36	28	97	48	157	87	287	
module plug			6	21	16	61	28	115			
Shut-off			double		double		double		double		

Hydraulic flow rate / pressure drop charts

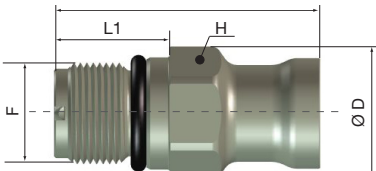


Test conditions:

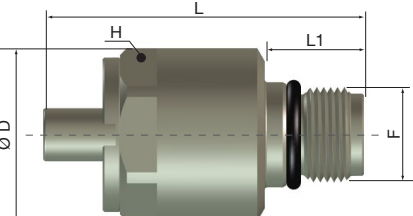
- Water
- Direction of flow: → plug socket

Part numbers

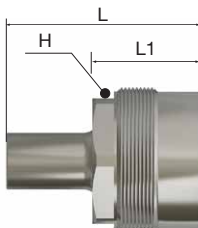
Socket

Designation	F	L (mm)	Ø D (mm)	H (mm)	Part numbers		
					Aluminium	Brass	
	CGD 03	M 11 x 1	28,8	11	10	CGD03.2411/L	CGD03.2411
	CGD 05	M 16 x 0,75	38	16,5	15	CGD05.2416/L	CGD05.2416
	CGD 08	M 21 x 1	40,5	21,5	19	CGD08.2421/L	CGD08.2421
	CGD 12	M 29 x 1,5	57,3	30	27	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

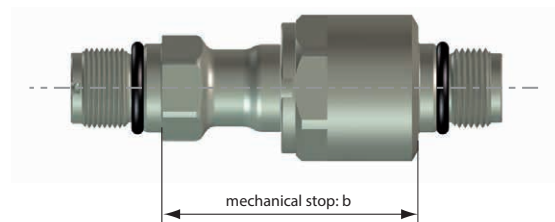
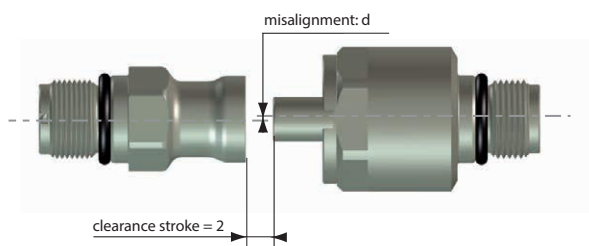
Module plug

Designation	F	L (mm)	L1 (mm)	H (mm)	Part numbers		
					Aluminium	Brass	
	CGD 03	M 20 x 1	23,9	12,9	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

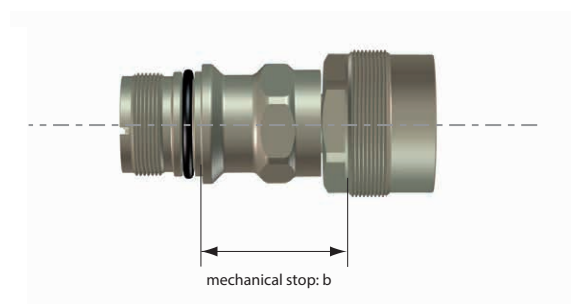
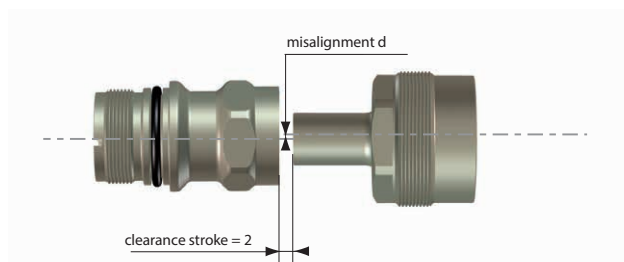
Add the seal code to the end of the part number.

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

Installation

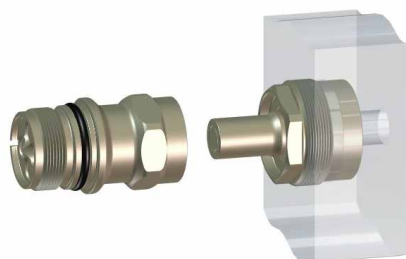


Designation	Maxi misalignment d (mm)	Mechanical stop (mm)	Installation drawing reference
CGD 03	1	30 ± 1	R34903110
CGD 05	1	$44,5 \pm 1$	R34903210
CGD 08	1	49 ± 1	R34903310
CGD 12	1	67 ± 1	R34903510



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.



■ Stäubli units ○ Agents

Global presence of the Stäubli Group

www.staubli.com