

FAST MOVING TECHNOLOGY

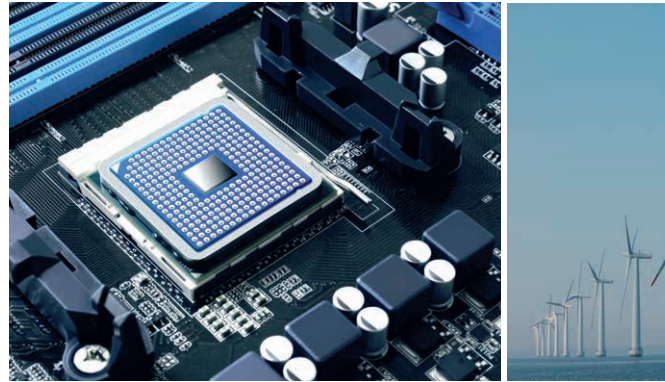
***STÄUBLI***

# 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 during 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

## Customized 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

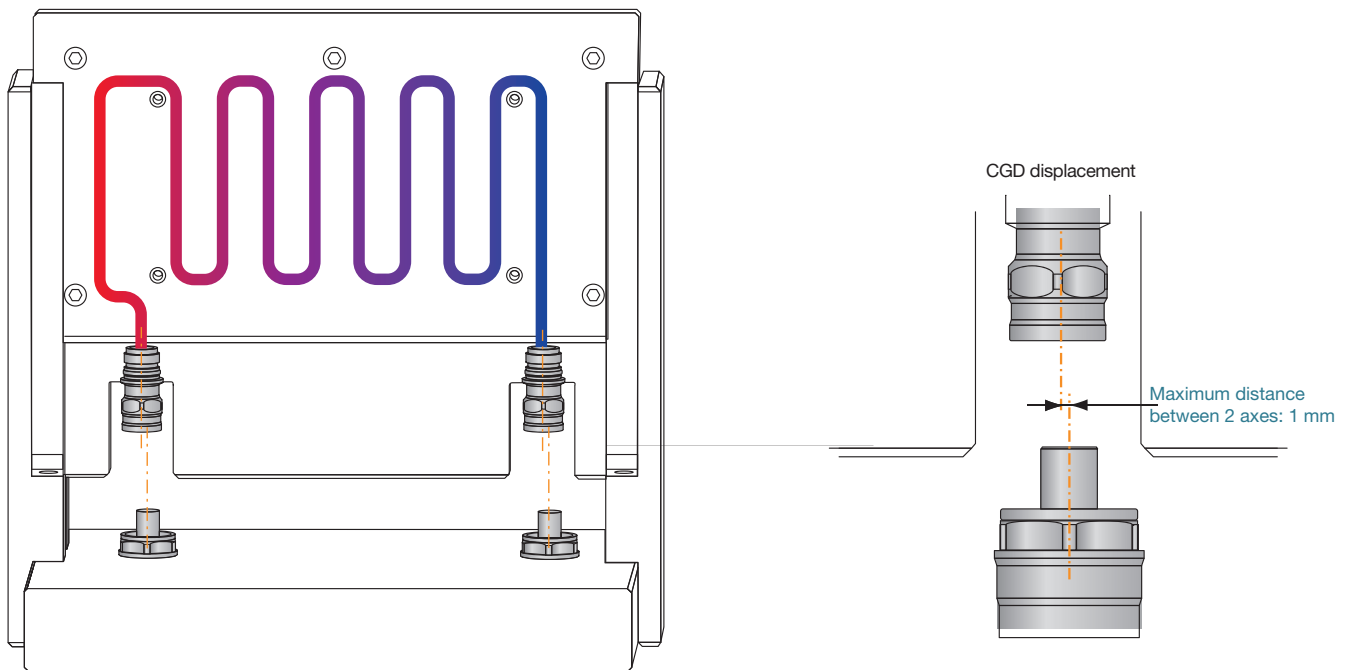
- High flow volume
- Resistance to vibration and corrosion
- Designed to withstand numerous connection sequences.

## 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 program.**

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

# Technical characteristics

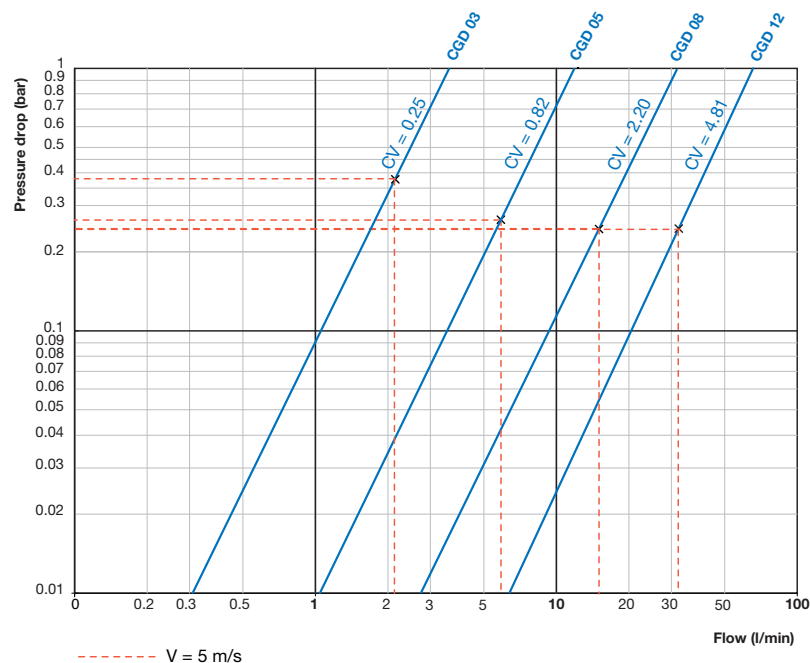
## Construction: aluminum alloy with surface treatment

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	
	Aluminum										
	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)				Aluminum	Brass	Aluminum	Brass	Aluminum	Brass	Aluminum	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

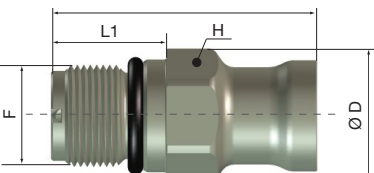


### Test conditions:

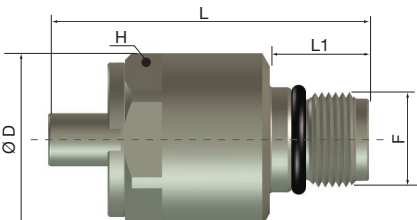
- Water
- Direction of flow: → plug socket

# Part numbers

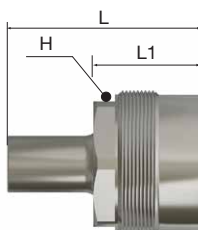
## Socket

Designation	F	L (mm)	Ø D (mm)	H (mm)	Part numbers		
					Aluminum	Brass	
	CGD 03	M 11 x 1	28.8	11	10	<b>CGD03.2411/L</b>	<b>CGD03.2411</b>
	CGD 05	M 16 x 0.75	38	16.5	15	<b>CGD05.2416/L</b>	<b>CGD05.2416</b>
	CGD 08	M 21 x 1	40.5	21.5	19	<b>CGD08.2421/L</b>	<b>CGD08.2421</b>
	CGD 12	M 29 x 1.5	57.3	30	27	<b>CGD12.2429/L</b>	<b>CGD12.2429</b>

## Plug

Designation		F	L (mm)	L1 (mm)	Ø D (mm)	H (mm)	Part numbers	
							Aluminum	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

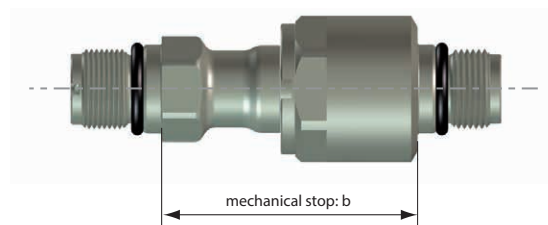
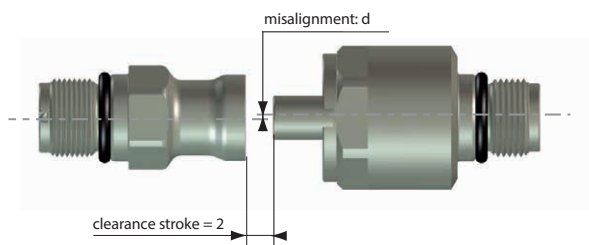
## Module plug

Designation	F	L (mm)	L1 (mm)	H (mm)	Part numbers		
					Aluminum	Brass	
	CGD 03	M 20 x 1	23.9	12.9	17	<b>CGD03.5420/MD/L</b>	<b>CGD03.5420/MD</b>
	CGD 05	M 27 x 1	35.8	20	23	<b>CGD05.5427/MD/L</b>	<b>CGD05.5427/MD</b>
	CGD 08	M 33 x 1.5	42	21.8	28	<b>CGD08.5433/MD/L</b>	<b>CGD08.5433/MD</b>

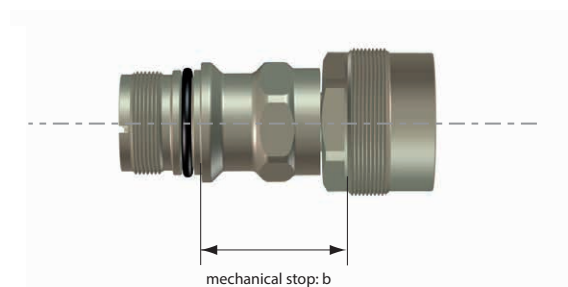
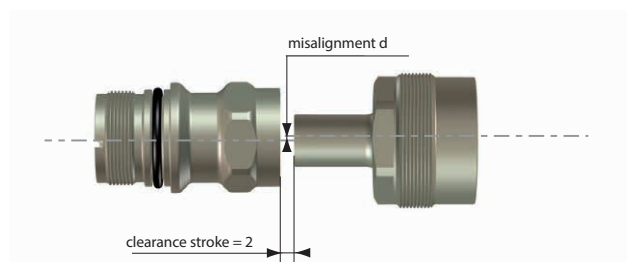
Add the seal code to the end of the part number.

Types of seal	Seal code
Fluorocarbhone	<b>JV</b>
Fluoro-silicone	<b>JS3</b>
Ethylene-propylene	<b>JE</b>

# Installation

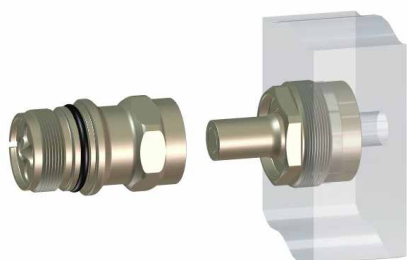


Designation	Maxi misalignment d (mm)	Mechanical stop (mm)	Installation drawing reference
CGD 03	1	$30 \pm 1$	<b>R34903110</b>
CGD 05	1	$44,5 \pm 1$	<b>R34903210</b>
CGD 08	1	$49 \pm 1$	<b>R34903310</b>
CGD 12	1	$67 \pm 1$	<b>R34903510</b>



Designation	Maxi misalignment d (mm)	Mechanical stop (mm)	Installation drawing reference
CGD 03	1	$28 \pm 1$	<b>R34904110</b>
CGD 05	1	$42 \pm 1$	<b>R34904210</b>
CGD 08	1	$47 \pm 1$	<b>R34904310</b>

## Plug installation into recessed pocket



Machining drawings available on request.





## Global presence of the Stäubli Group

[www.staubli.com](http://www.staubli.com)