

CGO Quick-release couplings

Thermal management



Ensure absolute tightness at the heart of your project...





... and perfect integration into your applications

Non-spill flush face to guarantee the integrity of the fluid

No pollution enters the circuit on connection.

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

On disconnection the circuits close automatically thanks to the double shut-off of the CGO couplings:

- no contamination of the environment from fluid loss
- especially suitable for electrical and high voltage environments

Suitable sealing solutions

A wide choice of elastomers enables the CGO range to be compatible with the majority of fluids and to cover a wide range of temperatures.

Applications

- Cooling of electronic:
- Medical imaging
- Broadcasting



Compact and lightweight

Compact size and light weight achieved by dedicated design and materials (aluminium alloy construction).

Compensation for alignment faults

Mainly used in rackable systems, CGO couplings are designed to compensate for alignment faults and allow "blind" coupling.

Centralized connections

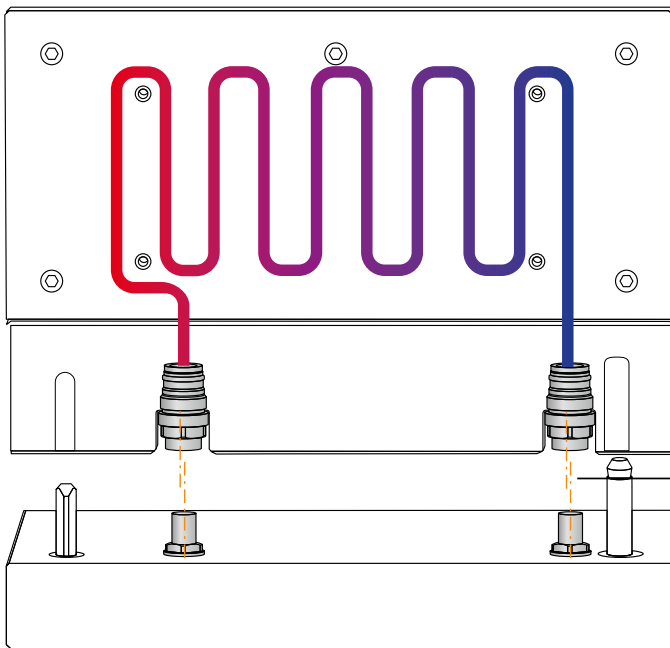
Option to plate mount: we can provide solutions with CGO connections mounted on a drilled block, please contact us to discuss further.

Several configurations:

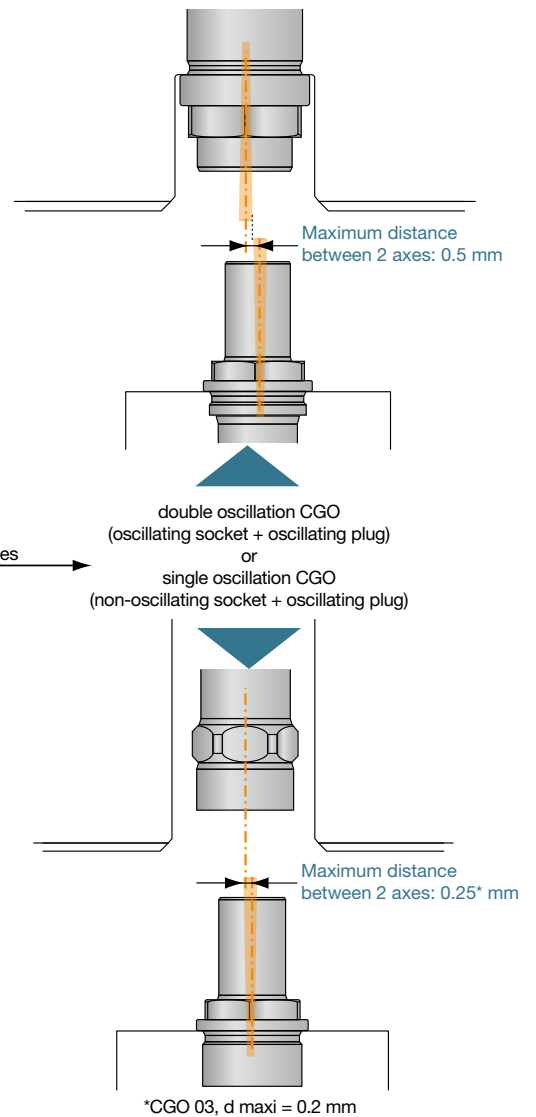
- Double oscillation
- Single oscillation


Oscillation technology

A particularly compact solution, suitable for guiding systems with a maximum misalignment of 0.5 mm.



2 possibilities →



 **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

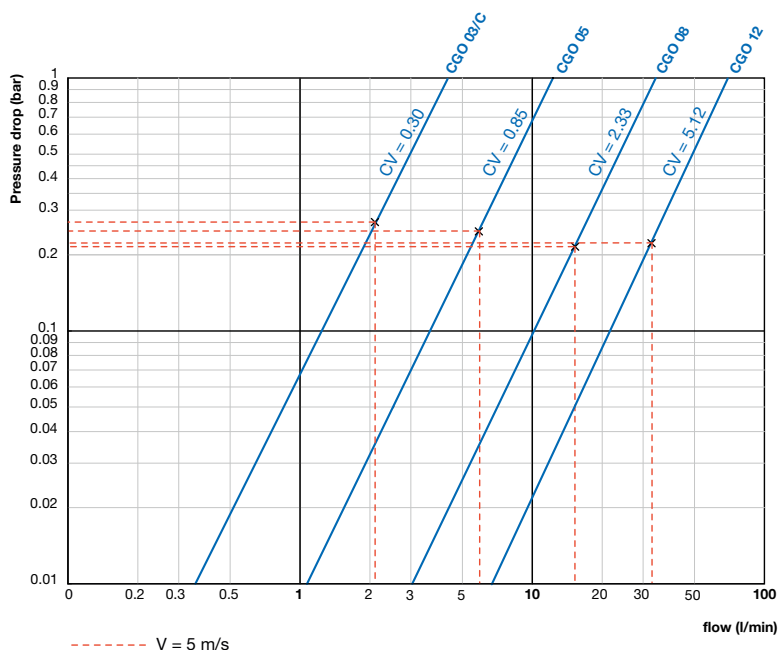
Construction: aluminium alloy with surface treatment

Types 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°
Fluorocarbon (FPM)	JV	-10° to +200°

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

	CGO 03/C	CGO 05	CGO 08	CGO 12	
Nominal diameter DN (mm)	03	05	08	12	
Maximum allowable pressure PS (bar)					
Minimum and maximum allowable temperatures TS (°C)	-40° and +150°C	16	16	16	
	+150° and +200°C	5	5	5	
Connection force without pressure (N)	30	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)					
	non-oscillating socket	2,5	11	19	50
	oscillating socket	–	15	27	76
plug	3,2	9,5	19	42	
Shut-off	double	double	double	double	

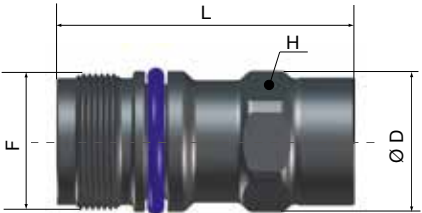
Hydraulic flow rate / pressure drop charts



Part-numbers

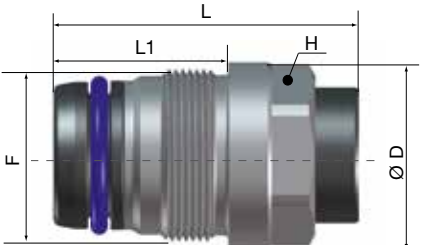
Non-oscillating socket

Designation	F	L (mm)	Ø D (mm)	H (mm)	Part-numbers
CGO 03/C	M 10 x 0,75	23	11	10	CGO03.2410/C/L/MD
CGO 05	M 16 x 0,75	35	16,5	15	CGO05.2416/L/MD
CGO 08	M 21 x 1	38	21,5	19	CGO08.2421/L/MD
CGO 12	M 29 x 1,5	56	30	27	CGO12.2429/L/MD



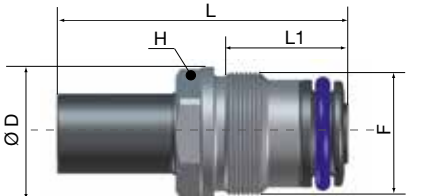
Oscillating socket

Designation	F	L (mm)	L1 (mm)	Ø D (mm)	H (mm)	Part-numbers
CGO 05	M 19 x 1	35	20	20,5	18	CGO05.2419/L
CGO 08	M 25 x 1	37,9	21,5	26,5	24	CGO08.2425/L
CGO 12	M 35 x 1,5	56	27,5	37,5	34	CGO12.2435/L



Oscillating plug

Designation	F	L (mm)	L1 (mm)	Ø D (mm)	H (mm)	Part-numbers
CGO 03/C	M 10 x 0,75	24	12	11,5	10	CGO03.5410/C/L
CGO 05	M 16 x 0,75	38	17,5	17,3	15	CGO05.5416/L
CGO 08	M 21 x 1	43,6	18,3	22,5	19	CGO08.5421/L
CGO 12	M 29 x 1,5	54	23,5	31,5	29	CGO12.5429/L

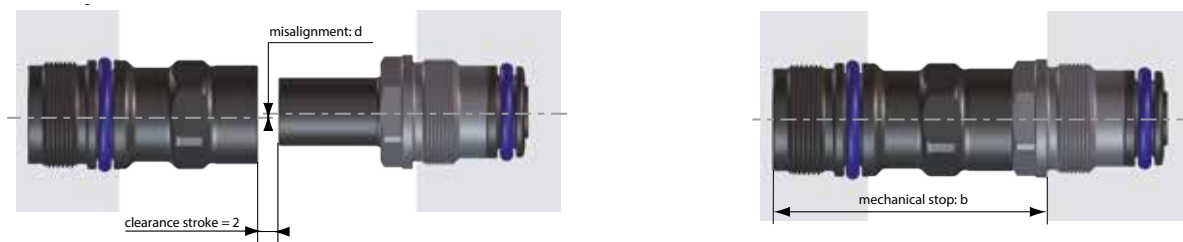


Add the seal code at the end of the part numbers.

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

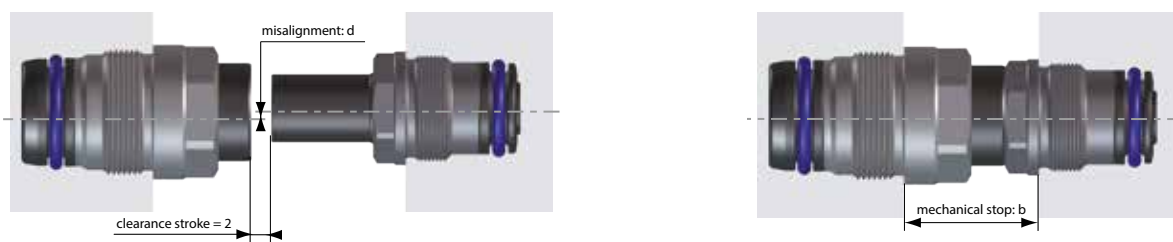
Part-numbers installation

Single oscillation CGO (non-oscillating socket + oscillating plug)



Designation	Maxi misalignment d (mm)	Mechanical stop b (mm)	Installation drawing reference
CGO 03/C	0,2	26,5 ^{±0,3}	R34901110
CGO 05	0,25	41,5 ^{±1}	R34901210
CGO 08	0,25	47 ^{±1}	R34901310
CGO 12	0,25	63 ^{±1}	R34901510

Double oscillation CGO (oscillating socket + oscillating plug)



CGO 05	0,5	21,4 ^{±1}	R34902210
CGO 08	0,5	25,5 ^{±1}	R34902310
CGO 12	0,5	36 ^{±1}	R34902510



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Global presence of the Staubli Group

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