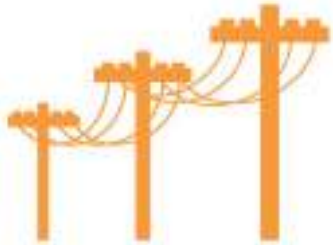
Your choice for sustainable
quick connect solutions

WEBINAR:
QUICK CONNECT COUPLINGS FOR THERMAL MANAGEMENT

Data Centres

Digital Transmitters



Power Electronics

Manufacturing

Marine

Agriculture

Mining, Oil, Gas

Construction

ACTIVE IN 20 SEGMENTS. YOU MEET THE PRODUCTS OF CEJN PRETTY MUCH EVERYWHERE. FOR INSTANCE ON A BOLT TENSIONING TOOL FOR WIND POWER INSTALLATION TO A FLOW CONNECTION IN A DIALYSIS MACHINE THAT DEMANDS WATER CIRCULATION. FROM BIG TO SMALL. OUR LARGEST SEGMENTS ARE SHOWN ABOVE.

Fire & Rescue

Wind Power

Other Segments

Compressed air

Breathing air

Fluids

Thermal management

Multi & Auto

Hydraulics
up to 700 bar

Ultra high-pressure
hydraulics 700-4000 bar

Stainless Steel AISI 316L

Hard anodized aluminum

Male

Female

Hose connection

90° angle

Coupling connections

Nipple connections

Male

Female

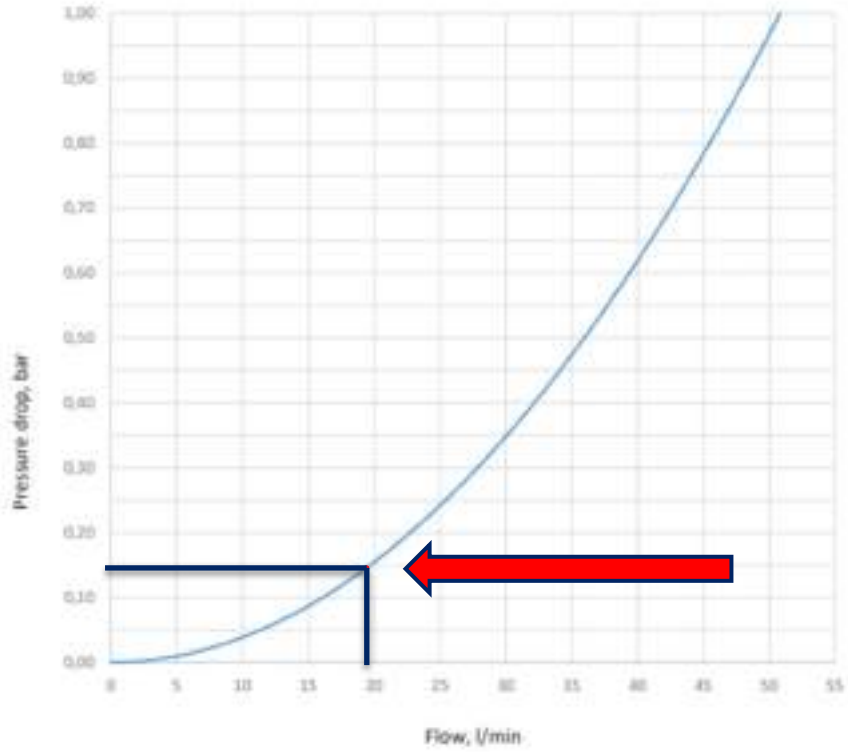
Hose connection

Technical characteristics	
Nominal diameter	DN 5 → Series 287/288 Kv = 0,93 DN 8 → Series 487/488 Kv = 2,93 DN 12 → Series 587/588 Kv = 8,08 DN 15 → Series 687 Kv = 10,3 DN 20 → Series 787/788 Kv = 15,7
Max. working pressure	10 bar
Min. burst pressure	40 bar
Material	Hard anodized aluminum/stainless steel AISI 316L
Sealing material	EDPM: -30°C to +150°C FVMQ: -40°C to +150°C

- **best flow capacity**
- **drip-free**
- **lightweight aluminum design from 13,9 g to 387,9 g (DN 5 nipple to DN 20 coupling)**
- **acid proof stainless steel from 50,9 g to 1091,3 g (DN 5 nipple to DN 20 coupling)**
- **flow-optimized valve design**

Flow is everything…

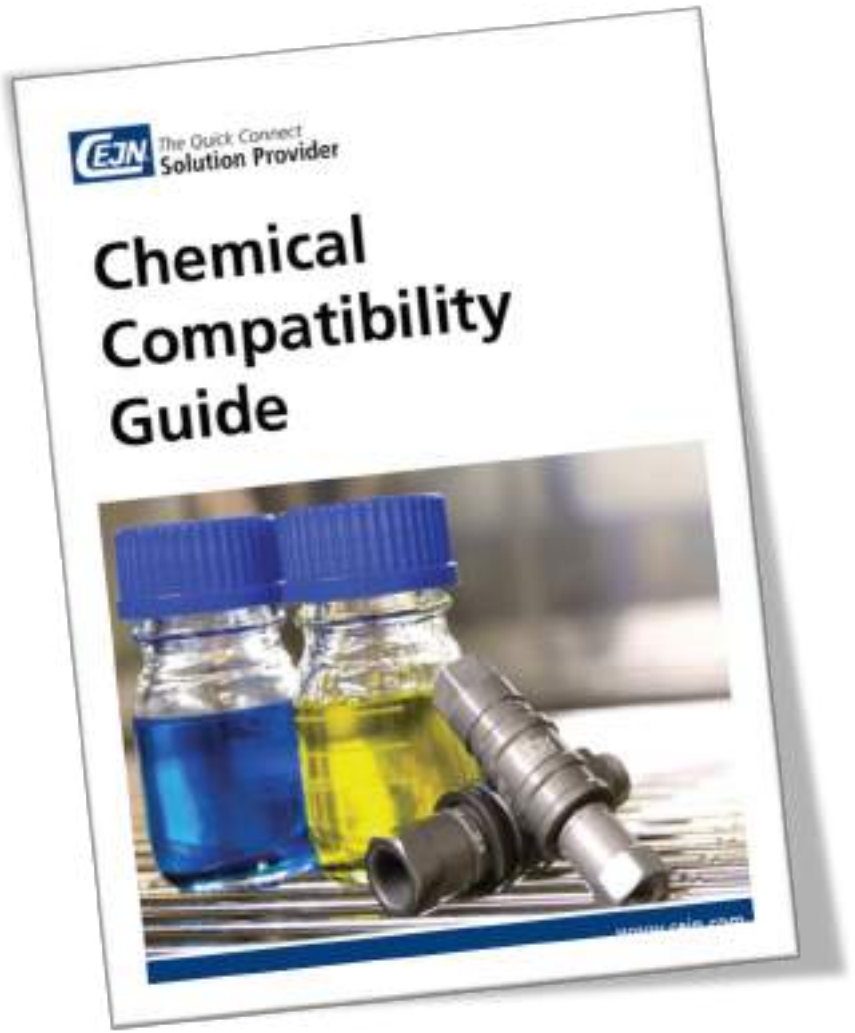
	Tested by	Date	Ref. no.	Test tube	Flow direct.
	CABDEAH	180209	5506	3/8"	Coupling to Nipple
Temp. 20 °C	Kv: 3,05	Coupling(Socket)	Nipple(Plug)		
Reg. no.		-	-		
CEJN Product		10 487 1224	10 487 6224		
Connection		G3/8"(BSP) female	G3/8"(BSP) female		
Remark		-	-		



ultraFLOW colour coding

7 colours available

Material	Features	Temperature	Medium
NBR (Nitril Buna-N)	Resistant to water, fuels, grease, mineral oil, steam and diluted alkalis. Not resistant to ozone.	-30°C to +100°C -22°F to +212°F	Compressed air, oil, water
FPM (Fluorcarbon Viton®)	Recommended for fuels, various oils and acids. Weather resistant.	-15°C to +200°C -5°F to +392°F	Chemicals, hot air
EPDM (Ethylenpropylen EPDM/EPM)	Especially suitable for hot water, steam, various alkalis and acids. Not suitable for mineral oil.	-40°C to +150°C -40°F to +302°F	Water
Kalrez®	Suitable for highly aggressive chemicals, pharmaceutical, aerospace and petrochemical applications, oil and gas extraction, semi-conductive water treatment.	+315°C (+600°F)	Chemicals, oil, steam



Charging devices

Wind turbines

Transmitter systems

Railway applications

Mining applications

Construction machines

Data centres

Semiconductor manufacturing

Special version of ultraFLOW

- Special design for the semiconductor industry
- Threaded connection or double ferrule tube fitting
- Available in
  - DN 5 → Kv = 1,21
  - DN 10 → Kv = 5,05
  - DN 12 → Kv = 8,08
- Stainless steel AISI 316L or AISI 303
- Max. working pressure 20 bar
- Min. burst pressure 40 bar
- EPDM sealing -30° C to + 150° C
- Low pressure drop
- 100 % Drip free

Semiconductor industry

Technical characteristics	
Nominal diameter	DN 4 Non-Drip Flowfactor Kv = 0,59 DN 6 Non-Drip Flowfactor Kv = 1,26 DN 9 Non-Drip Flowfactor Kv = 2,65 DN 14 non-Drip Flowfactor Kv = 5,86 DN 19 Non-Drip Flowfactor Kv = 10,67
Max. working pressure	20 bar
Min. burst pressure	80 bar
Material	Nickel-plated brass Stainless steel AISI 316 L
Sealing material	NBR -15° C to + 100° C FPM - 5° C to + 205° C EPDM - 20° C to + 150° C

- Three configurations: single / double shutoff and straight through
- Onehand Operation (double shutoff)
- High flow capacities
- Wide range of adapters and dustcaps available
- Color coding or Key coding

DLC = direct liquid cooling

DLC Autocoupling (blind-mate)

Technical characteristics	
Nominal diameter	DN 5 → DLC Flowfactor Kv = 0,87 DN 8 → DLC Flowfactor Kv = 2,69 DN 12 → DLC Flowfactor Kv = 8,11
Max. working pressure	10 bar (assembly-dependent)
Min. burst pressure	40 bar (assembly-dependent)
Material	Hard anodized aluminum
Sealing material	EPDM: -30°C to +150°C FVMQ: -40°C to +150°C

- **concealed plug-in built-in couplings**
- **100% drip-free**
- **self-aligning feature**
- **compact design**
- **insensitive to vibrations**

DLC Autocoupling stainless steel (blind-mate)

Technical characteristics	
Nominal diameter	DN 03 → DLC Flowfactor: Kv = 0,18
Max. working pressure	16 bar (assembly-dependent)
Min. burst pressure	64 bar (assembly-dependent)
Material	Stainless steel AISI 316L
Sealing material	NBR low temp: -40°C to +150°C EPDM: -30°C to +150°C

- 100 % drip free
- self-aligning feature +- 0,5mm to +- 1,0 mm

DLC Autocoupling stainless steel (blind-mate)

Technical characteristics	
Nominal diameter	DN 3 → DLC bayonet locking Flowfactor: Kv = 0,18
Max. working pressure	16 bar (assembly-dependent)
Min. burst pressure	64 bar (assembly-dependent)
Material	Stainless steel AISI 316L
Sealing material	NBR low temp: 0°C to +80°C EPDM: 0°C to +100°C

- bayonet locking
- suitable for server blades in data centres

Technical characteristics	
Nominal diameter	DN 19 → Series 767 Flowfactor: Kv = 13,30
Max. working pressure	20 bar
Min. burst pressure	80 bar
Material	Nickel-plated brass
Sealing material	EPDM: -20°C to +150°C

- Based on our Non-Drip series 767
- 100% drip free
- Color coding
- Extremely high-flow capacity of 221,6 l/min

Full Flow

Technical characteristics	
Nominal diameter	DN 25 DN 38 DN 51
Max. working pressure	20 bar
Min. burst pressure	80 bar
Material	Nickel-plated brass Stainless steel AISI 316L
Sealing material	NBR: -30°C to +100°C

- Unrestricted high flow
- Robust design
- Ideal for main supply lines

- DN 32 screw to connect coupling system
- Hard anodized aluminum
- Max. working pressure 10 bar
- Min. burst pressure 40 bar
- EPDM sealing material
- -30° C to + 100° C
- Connection G 1 ½“
- For main supply lines
- For water-glycol and dielectric fluids

Conclusion

- CEJN offers a wide range of quick connect coupling systems for thermal management applications.
- Quick connect couplings are only small parts – but they can have a big impact on the system performance.
- Leakage can cause severe damages and costs.
- Quick connect couplings can make work easier and saver, but you need to use high quality products.
- Make sure you use components with high flow and low pressure drop. This, in combination with the right material & design will improve your individual application a lot.
- Choosing the right coupling system has also an impact on energy saving targets.

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Hall B1, Booth 279

If you have any questions, please do not hesitate to contact us.

Please post your questions in the chat within the next 10 minutes or you can contact me directly.

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