

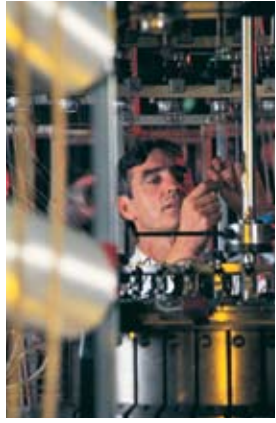


Non-Drip Quick Connect Couplings

Modular constructions offering just the right coupling for every fluid application

A close-up photograph of several stainless steel quick connect couplings. The couplings are arranged in a row, with some in sharp focus and others blurred in the background. They have various colored bands (yellow, blue, red) and knurled sections for grip.

**Innovative Products for
Demanding Applications**



Innovative Couplings

FOR FLUID APPLICATIONS

CEJN has long been a recognized leader in the design, development and manufacture of quick connect couplings for pneumatic, high-pressure hydraulic and fluid applications. Its leadership role is not the result of happenstance or simply duplicating products offered by other manufacturers.

Leadership is the outcome of CEJN's solid commitment to be known as industry's "Global Quick Connect Specialist," a title earned by its dedication to:

- Studying new materials with new properties
- Developing new coupling styles to meet specific requirements for design, functionality, temperature, end connection, flow rate and more
- Developing highly efficient manufacturing processes for new coupling constructions
- Offering higher performance standards than most other products on the market

In order to live up to its Global Quick Connect Specialist image, CEJN took the matter to heart when it recognized – and filled – the growing OEM and other end-user need for a low-pressure coupling for fluid transfer applications.

Other coupling manufacturers, particularly those in the fluid coupling market, often use the make-it-work approach of altering its pneumatic or hydraulic coupling styles with different construction materials in an attempt to make them suitable for crossing over into the fluids market.

The mark of leadership? No.

Consequently, their make-do products are only make-do performers.

A Range Designed Solely for Low-Pressure Fluid and Vacuum Applications

CEJN's non-drip couplings are designed solely for low-pressure fluid and vacuum applications, and their performance and safety requirements.

The product range is ideal for connecting all types of fluid lines, even those as diverse as beverages, salt water and oil.

CEJN engineers gave the couplings two important design features:

- **Modular construction** – All nipple and coupling components have standardized dimensions, making them interchangeable and easy to combine into a wide range of configurations.
- **Non-drip construction** – Depending on the fluid being conveyed, fluid spillage may have the potential to cause personal injury or property damage. The non-drip design ensures virtually zero spillage and eliminates pollution and air inclusion during connection and disconnection.

These CEJN-engineered features and many more explained in the following pages give CEJN's non-drip coupling range a symbol of leadership in the industry, a symbol that is well earned by CEJN – and sought after by customers around the world.

The Right Product for Each and Every Application

When CEJN engineers sat down and began to brainstorm just what would make a non-drip coupling design a sought-after product, they determined that the new range would need to have almost endless combination possibilities for almost endless applications. And that is exactly what the series offers as a result of its modular styling.

Since each coupling is compatible with each nipple in the series, customers can be ensured of just the right configuration for their specific applications by selecting from a wide range of standard products. The off-the-shelf products eliminate time previously spent searching for compatible couplings and worrying about if they will work – or leak.

The extensive standard range results in other important customer benefits as well, including:

- **Quick supply of samples for customer testing** – By having a wide variety of components in stock, CEJN quickly can provide customers all over the world with test samples.
- **Prompt quotations** – Since price quotes have been prepared and are "in stock" for numerous configuration options, customers will receive prompt quotations for product inquiries.
- **Short delivery time** – Customers needing a prototype, just a few parts, or even a few hundred can depend on CEJN to fill their orders quickly.



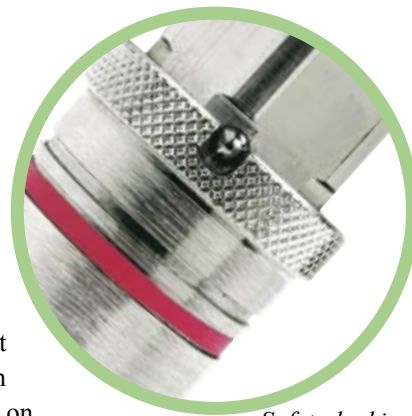
Color-coding feature

And because smooth fluid flow and zero spillage are critical requirements in fluid system operation, CEJN couplings undergo functionality and quality testing to ensure defect-free performance where it is needed most – at the jobsite.

Three Safety Levels Offered

Couplings and nipples in CEJN's non-drip modular range are offered in three safety levels, which enable users to choose the exact level of safety required. These safety options also enable users to control cost, since they will not be paying for safety features that are not required. The three safety levels are:

- **Level 1, Standard**
 - Includes basic couplings and nipples. All couplings connect with all nipples in the range (shown on Page 6).
- **Level 2, Color Coding** – Includes standard couplings and nipples with color coding, which can be used to identify media and/or pressure lines and the corresponding nipple for each coupling. Both couplings and nipples are available with color-coded rings in black, blue, red, white, or yellow. Standard couplings and nipples have green color-coded rings.
- **Level 3, Key Coding** – Includes couplings and nipples with a non-interchangeable key feature that prevents cross-connection (see illustration below). Only couplings and nipples with the same key can be connected. Color coding identifies halves that can be connected. Standard nipples can be connected with key-coded couplings and vice versa*.

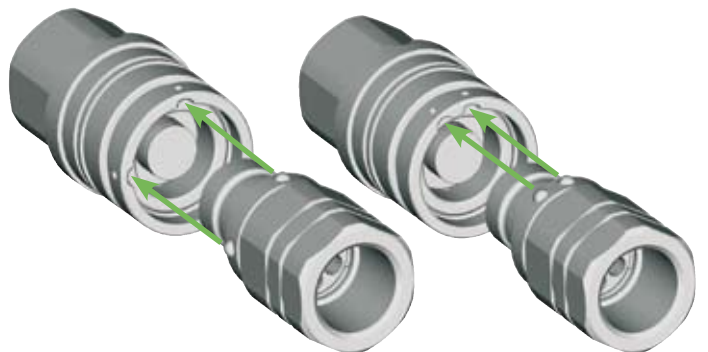


Safety-locking feature

More Safety Features

All couplings in each safety level are also offered with an optional safety-locking device that eliminates the risk of unintentional disconnection. When the nipple is connected and locked into place, the extra locking feature is engaged by manually turning the locking sleeve. To disconnect, turn the locking sleeve back into position. The nipple can only be disconnected when the locking sleeve is in the correct position.

Key-coding – For complete connection, the coupling and nipple must have corresponding grooves and ridges.



* Since the valves open before the halves are completely connected, media may mix even though the halves are not interchangeable.

Product Range

With unlimited combination possibilities, CEJN's non-drip modular couplings are adaptable to most applications and system requirements. This means customers will no longer be burdened with searching out application-worthy couplings. CEJN has already done the work for them by incorporating just what customers want and need most in a modular coupling line – versatility and virtually spillage-free performance.

The part number listing on Page 6 includes basic coupling and nipple combinations and reflects only a small portion of combinations that are possible by varying seals, threads, or other product features.

The fluid series includes both valved and valveless couplings and nipples, which further extend application possibilities. Valved styles are one-hand operated and are the most commonly used version in fluid system applications. Due to their construction, the valveless couplings require two hands for connection/disconnection and are useful in those applications in which fluid loss upon disconnection may not be critical.



With or without valve



Three configurations are available in the extensive standard range:

- Single shutoff (must utilize a coupling and valveless nipple)
- Double shutoff
- Straight through

The series is compatible with working pressures up to 20 bar (290 PSI) and temperatures up to 315° C (600° F), making it suitable for a variety of low-pressure fluid applications in which lines need to be connected and disconnected easily, safely, and without spillage. Sizes available include body sizes from 1/4-inch to 1 inch.

CEJN modular couplings are available in nickel-plated brass with nitrile seals and AISI 316 stainless steel with Viton® seals. EPDM and Kalrez® seals are available upon request to comply with specific performance objectives.

Technical Data

Body Size	DN 4		DN 6		DN 9		DN 14		DN 19	
Series	267	277	467	477	567	577	667	677	767	777
Materials										
Nickel-plated brass	X		X		X		X		X	
Stainless steel AISI 316		X		X		X		X		X
Flow Capacity										
Double shutoff	17 l/min (3.7 GPM uk)		36 l/min (7.9 GPM uk)		76 l/min (16.7 GPM uk)		168 l/min (37.0 GPM uk)		306 l/min (67.3 GPM uk)	
Single shutoff	17 l/min (3.7 GPM uk)		36 l/min (7.9 GPM uk)		78 l/min (17.2 GPM uk)		193 l/min (42.5 GPM uk)		334 l/min (73.5 GPM uk)	
Straight through	32 l/min (7.0 GPM uk)		62 l/min (13.6 GPM uk)		187 l/min (41.1 GPM uk)		413 l/min (90.9 GPM uk)		803 l/min (176.7 GPM uk)	
Max. Working Pressure	20 bar (290 PSI)		20 bar (290 PSI)		20 bar (290 PSI)		20 bar (290 PSI)		20 bar (290 PSI)	
Min. Burst Pressure	80 bar (1160 PSI)		80 bar (1160 PSI)		80 bar (1160 PSI)		80 bar (1160 PSI)		80 bar (1160 PSI)	
Nominal Flow Diameter	4 mm (5/32")		6 mm (1/4")		9 mm (11/32")		14 mm (9/16")		19 mm (3/4")	
Kv (Cv) (Double shutoff)	0.51 (0.59)		1.08 (1.26)		2.28 (2.65)		5.04 (5.86)		9.18 (10.67)	
Temperature Range										
NBR (Nitrile rubber)	-15°C – +100°C (+5°F – +212°F)									
FPM (Viton®)	-5°C – +205°C (+23°F – +401°F) <i>Please note – Colored rings can only withstand heat up to +125°C (+257°F)</i>									
EPDM	-20°C – +150°C (-4°F – +302°F)									
Kalrez®	-5°C – +315°C (+23°F – +600°F) <i>Please note – Colored rings can only withstand heat up to +125°C (+257°F)</i>									

Flow capacity is measured at 4 bar pressure drop for all three versions. For more information about seal recommendations, conversion tables, maintenance advice, and other fluid products from CEJN, see the general CEJN Fluid Catalog, available at www.cejn.com or from your nearest authorized CEJN distributor. CEJN reserves the right to make changes without further notification. This right is applicable to all information in this brochure.

Standard Range

Brass (NBR Seal)

Stainless Steel (FPM Seal)

Series 267	Description	Connection	Part No. G-thread	Part No. NPT-thread	Length (G)	Length (NPT)	Diameter	Hexagon
	Coupling, valveless	1/4" Female	10 267 0200	10 267 0400	43.5	59.2	23	19
	Coupling, valved	1/4" Female	10 267 1200	10 267 1400	43.5	59.2	23	19
	Nipple, valveless	1/4" Female	10 267 5200	10 267 5400	48.5	48.5	20	19
	Nipple, valved	1/4" Female	10 267 6200	10 267 6400	48.5	48.5	20	19

Series 467	Description	Connection	Part No. G-thread	Part No. NPT-thread	Length (G)	Length (NPT)	Diameter	Hexagon
	Coupling, valveless	3/8" Female	10 467 0200	10 467 0400	45.0	61.2	29	22
	Coupling, valved	3/8" Female	10 467 1200	10 467 1400	45.0	61.2	29	22
	Nipple, valveless	3/8" Female	10 467 5200	10 467 5400	52.0	50.5	24	22
	Nipple, valved	3/8" Female	10 467 6200	10 467 6400	52.0	50.5	24	22

Series 567	Description	Connection	Part No. G-thread	Part No. NPT-thread	Length (G)	Length (NPT)	Diameter	Hexagon
	Coupling, valveless	1/2" Female	10 567 0200	10 567 0400	52.5	68.2	34	27
	Coupling, valved	1/2" Female	10 567 1200	10 567 1400	52.5	68.2	34	27
	Nipple, valveless	1/2" Female	10 567 5200	10 567 5400	56.5	55.0	29	27
	Nipple, valved	1/2" Female	10 567 6200	10 567 6400	56.5	55.0	29	27

Series 667	Description	Connection	Part No. G-thread	Part No. NPT-thread	Length (G)	Length (NPT)	Diameter	Hexagon
	Coupling, valveless	3/4" Female	10 667 0200	10 667 0400	74.2	71.7	41	36
	Coupling, valved	3/4" Female	10 667 1200	10 667 1400	74.2	71.7	41	36
	Nipple, valveless	3/4" Female	10 667 5200	10 667 5400	66.0	63.0	36	34
	Nipple, valved	3/4" Female	10 667 6200	10 667 6400	66.0	63.0	36	34

Series 767	Description	Connection	Part No. G-thread	Part No. NPT-thread	Length (G)	Length (NPT)	Diameter	Hexagon
	Coupling, valveless	1" Female	10 767 0200	10 767 0400	82.0	79.0	52	46
	Coupling, valved	1" Female	10 767 1200	10 767 1400	82.0	79.0	52	46
	Nipple, valveless	1" Female	10 767 5200	10 767 5400	67.5	64.5	44	41
	Nipple, valved	1" Female	10 767 6200	10 767 6400	67.5	64.5	44	41

Series 277	Description	Connection	Part No. G-thread	Part No. NPT-thread	Length (G)	Length (NPT)	Diameter	Hexagon
	Coupling, valveless	1/4" Female	10 277 0210	10 277 0410	43.5	59.2	23	19
	Coupling, valved	1/4" Female	10 277 1210	10 277 1410	43.5	59.2	23	19
	Nipple, valveless	1/4" Female	10 277 5210	10 277 5410	48.5	48.5	20	19
	Nipple, valved	1/4" Female	10 277 6210	10 277 6410	48.5	48.5	20	19

Series 477	Description	Connection	Part No. G-thread	Part No. NPT-thread	Length (G)	Length (NPT)	Diameter	Hexagon
	Coupling, valveless	3/8" Female	10 477 0210	10 477 0410	45.0	61.2	29	22
	Coupling, valved	3/8" Female	10 477 1210	10 477 1410	45.0	61.2	29	22
	Nipple, valveless	3/8" Female	10 477 5210	10 477 5410	52.0	50.5	24	22
	Nipple, valved	3/8" Female	10 477 6210	10 477 6410	52.0	50.5	24	22

Series 577	Description	Connection	Part No. G-thread	Part No. NPT-thread	Length (G)	Length (NPT)	Diameter	Hexagon
	Coupling, valveless	1/2" Female	10 577 0210	10 577 0410	52.5	68.2	34	27
	Coupling, valved	1/2" Female	10 577 1210	10 577 1410	52.5	68.2	34	27
	Nipple, valveless	1/2" Female	10 577 5210	10 577 5410	56.5	55.0	29	27
	Nipple, valved	1/2" Female	10 577 6210	10 577 6410	56.5	55.0	29	27

Series 677	Description	Connection	Part No. G-thread	Part No. NPT-thread	Length (G)	Length (NPT)	Diameter	Hexagon
	Coupling, valveless	3/4" Female	10 677 0210	10 677 0410	74.2	71.7	41	36
	Coupling, valved	3/4" Female	10 677 1210	10 677 1410	74.2	71.7	41	36
	Nipple, valveless	3/4" Female	10 677 5210	10 677 5410	66.0	63.0	39	36
	Nipple, valved	3/4" Female	10 677 6210	10 677 6410	66.0	63.0	39	36

Series 777	Description	Connection	Part No. G-thread	Part No. NPT-thread	Length (G)	Length (NPT)	Diameter	Hexagon
	Coupling, valveless	1" Female	10 777 0210	10 777 0410	82.0	79.0	52	46
	Coupling, valved	1" Female	10 777 1210	10 777 1410	82.0	79.0	52	46
	Nipple, valveless	1" Female	10 777 5210	10 777 5410	67.5	64.5	44	41
	Nipple, valved	1" Female	10 777 6210	10 777 6410	67.5	64.5	44	41

Adapters and Dust Caps

The standard female thread can be easily used for adapters with other thread sizes and thread standards, as required. Male-to-male and male-to-hose connection adapters in brass and stainless steel are included in the standard line.

Optional dusts caps are available for all sizes of couplings and nipples.



Dust Caps

		267/277	467/477	567/577	667/677	767/777
Coupling		10 267 1000	10 467 1000	10 567 1000	10 667 1000	10 767 1000
Nipple		10 267 1050	10 467 1050	10 567 1050	10 667 1050	10 767 1050

Adapters

	End con- nection of adapter	Thread of Coupling/Nipple									
		G 1/4"	NPT 1/4"	G 3/8"	NPT 3/8"	G 1/2"	NPT 1/2"	G 3/4"	NPT 3/4"	G 1"	NPT 1"
Brass	Male G 1/4"	10 900 1212	-	19 900 1214	-	-	-	-	-	-	-
	Male G 3/8"	10 900 1214	-	19 900 1224	-	19 900 1225	-	-	-	-	-
	Male G 1/2"	-	-	19 900 1225	-	19 900 1235	-	19 900 1229	-	-	-
	Male G 3/4"	-	-	-	-	19 900 1229	-	19 900 1249	-	19 900 1248	-
	Male G 1"	-	-	-	-	-	-	19 900 1248	-	19 900 1269	-
	Male NPT 1/4"	-	19 900 1312	-	19 900 1314	-	-	-	-	-	-
	Male NPT 3/8"	-	19 900 1314	-	19 900 1324	-	19 900 1325	-	-	-	-
	Male NPT 1/2"	-	-	-	19 900 1325	-	19 900 1335	-	19 900 1337	-	-
	Male NPT3/4"	-	-	-	-	-	19 900 1337	-	19 900 1348	-	19 900 1349
	Male NPT 1"	-	-	-	-	-	-	-	19 900 1349	-	19 900 1369
	Male R1/4"	19 900 1213	-	19 900 1217	-	-	-	-	-	-	-
	Male R 3/8"	19 900 1217	-	19 900 1221	-	19 900 1222	-	-	-	-	-
	Male R 1/2"	-	-	19 900 1222	-	19 900 1236	-	19 900 1237	-	-	-
	Male R 3/4"	-	-	-	-	19 900 1237	-	19 900 1246	-	19 900 1247	-
	Male R1"	-	-	-	-	-	-	19 900 1247	-	19 900 1268	-
	Hose 1/4"	19 900 0222	-	19 900 0232	-	-	-	-	-	-	-
	Hose 3/8"	19 900 0224	-	19 900 0234	-	19 900 0244	-	-	-	-	-
	Hose 1/2"	-	-	19 900 0235	-	19 900 0245	-	19 900 0255	-	-	-
Hose 3/4"	-	-	-	-	19 900 0247	-	19 900 0257	-	19 900 0267	-	
Hose 1"	-	-	-	-	-	-	19 900 0258	-	19 900 0268	-	
Stainless Steel AISI 316	Male G 1/4"	19 900 1812	-	-	-	-	-	-	-	-	-
	Male G 3/8"	-	-	19 900 1824	-	-	-	-	-	-	-
	Male G 1/2"	-	-	-	-	19 900 1835	-	-	-	-	-
	Male G 3/4"	-	-	-	-	-	-	19 900 1846	-	-	-
	Male G 1"	-	-	-	-	-	-	-	-	19 900 1869	-
	Male NPT 1/4"	-	19 900 1814	-	-	-	-	-	-	-	-
	Male NPT 3/8"	-	-	-	19 900 1834	-	-	-	-	-	-
	Male NPT 1/2"	-	-	-	-	-	19 900 1845	-	-	-	-
	Male NPT 3/4"	-	-	-	-	-	-	-	19 900 1848	-	-
	Male NPT 1"	-	-	-	-	-	-	-	-	-	19 900 1867
	Male R 1/4"	19 900 1813	-	-	-	-	-	-	-	-	-
	Male R 3/8"	-	-	19 900 1825	-	-	-	-	-	-	-
	Male R 1/2"	-	-	-	-	19 900 1836	-	-	-	-	-
	Male R 3/4"	-	-	-	-	-	-	19 900 1847	-	-	-
	Male R 1"	-	-	-	-	-	-	-	-	19 900 1868	-
	Hose 1/4"	19 900 0821	19 900 1829	-	-	-	-	-	-	-	-
	Hose 3/8"	-	-	19 900 0831	19 900 0839	-	-	-	-	-	-
	Hose 1/2"	-	-	-	-	19 900 0841	19 900 0849	-	-	-	-
Hose 3/4"	-	-	-	-	-	-	19 900 0851	19 900 0859	-	-	
Hose 1"	-	-	-	-	-	-	-	-	19 900 0861	19 900 0869	

The Global



Quick Connect Specialist



Traditions and Innovations.
Quick connect couplings and systems
for compressed air, low- and high-
pressure hydraulic, fluid, gas, and
breathing air applications.

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