



Pneumatic Products





Industry Standouts for Over 50 Years

The benefits of an innovative, pneumatic coupling design were solid enough to single-handedly launch CEJN in 1955.

This reliable, easy-to-handle coupling replaced cumbersome and undependable compressed air couplings of the era and has remained a staple for customers around the world.


That original quick connect coupling keeps good company at CEJN. CEJN's strategy to provide what customers value most has enabled the company to offer numerous series of couplings that fill specific needs, as well as hose, hose kits, hose and cable reels, blowguns, air treatment products, and accessories.

Supported by global, ISO 9001-certified assembly and testing operations, CEJN products are manufactured to meet stringent functionality and quality requirements and are rigorously tested to ensure they can perform the tasks set before them.

No products are better suited to compressed air applications than CEJN pneumatic products. Each product benefits from a well-planned, well-made approach that makes it an industry standout.



CEJN Pneumatics Products

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Cost-saving Benefits



Delivering Cost-saving Benefits through Well-planned Features

One of the major costs in manufacturing environments is compressed air. Optimization of compressed air systems can have a major impact on controlling costs for this on-site generated energy source.

The most common causes of energy loss in compressed air systems are leaks and pressure drop.

Leaks can be a leading source of wasted energy in compressed air systems. They can cause a drop in system pressure and shorten the life of nearly all system components.

Pressure drop leads to insufficient power for tools. Efficiency losses on tools lead to longer work cycles and higher production costs result.

CEJN pneumatic couplings are specially designed to address the primary causes of energy loss in compressed air systems through well-planned features. In turn, CEJN couplings result in significant reduction in energy consumption.

In addition to energy costs, CEJN couplings also address such problems as safety concerns, shortened component life, and high maintenance costs.

Air Leakage

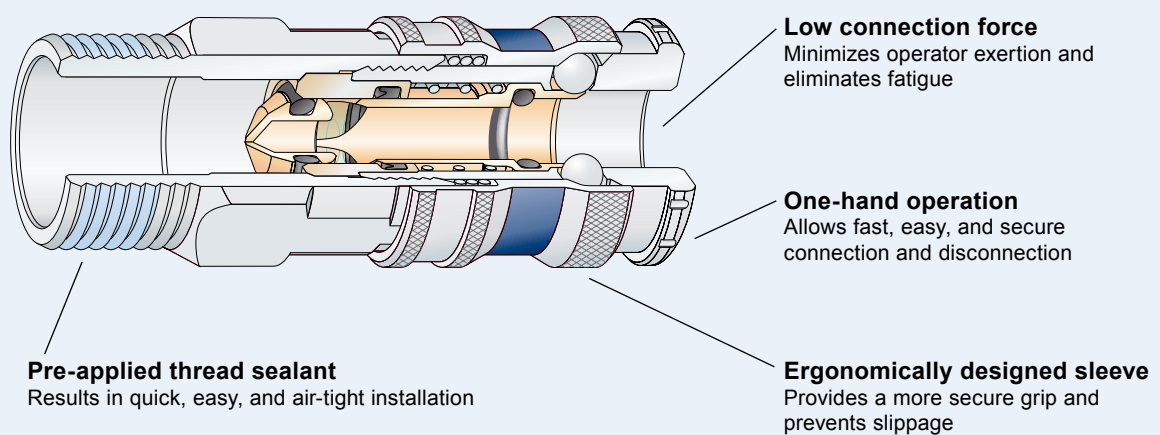
Hole diameter – Volume of leaking air at 8 bar

- 1 mm 75 l/min
- 3 mm 600 l/min
- 5 mm 1700 l/min

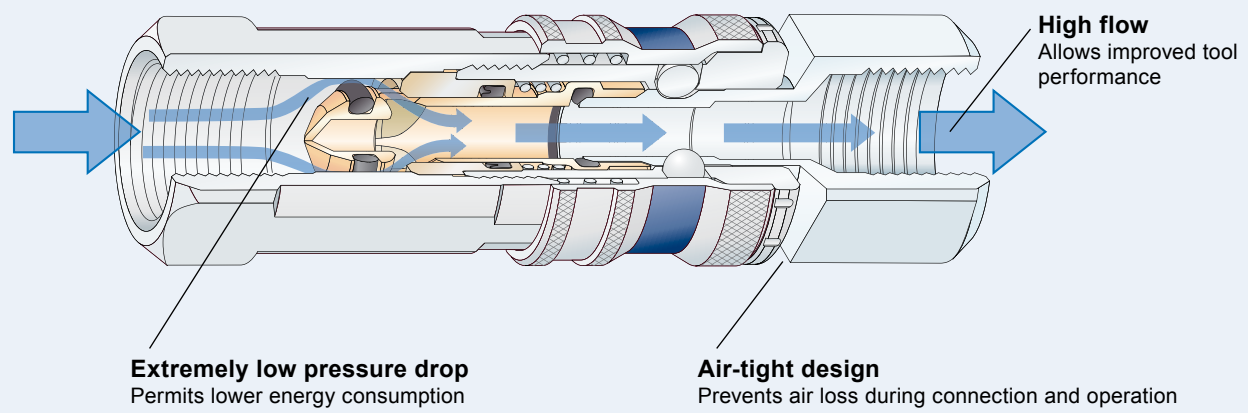




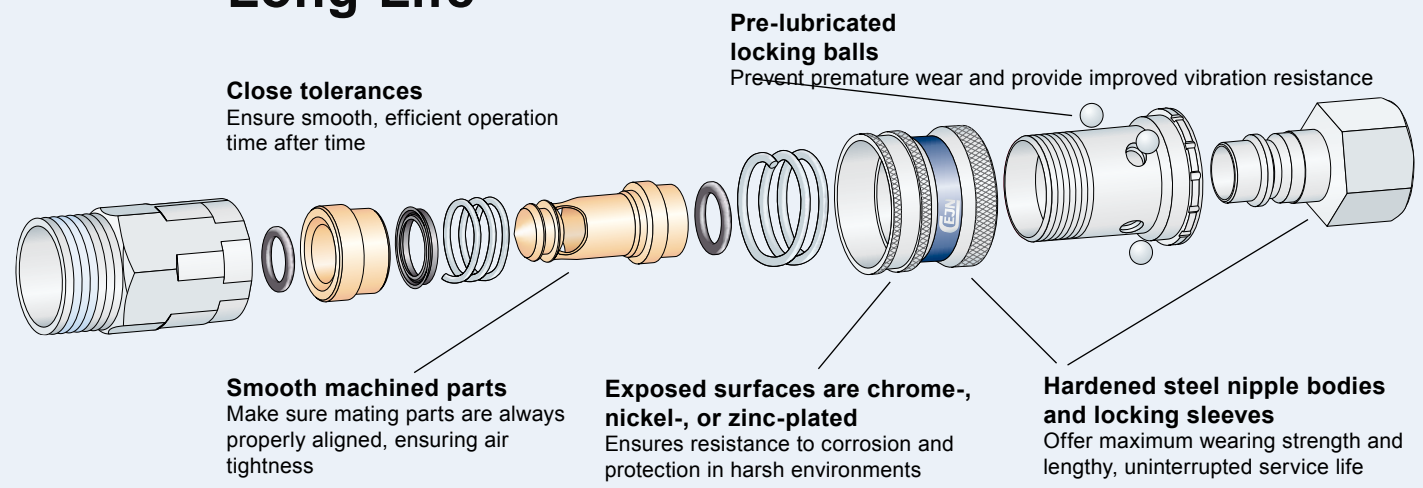
Easy To Handle



High Efficiency



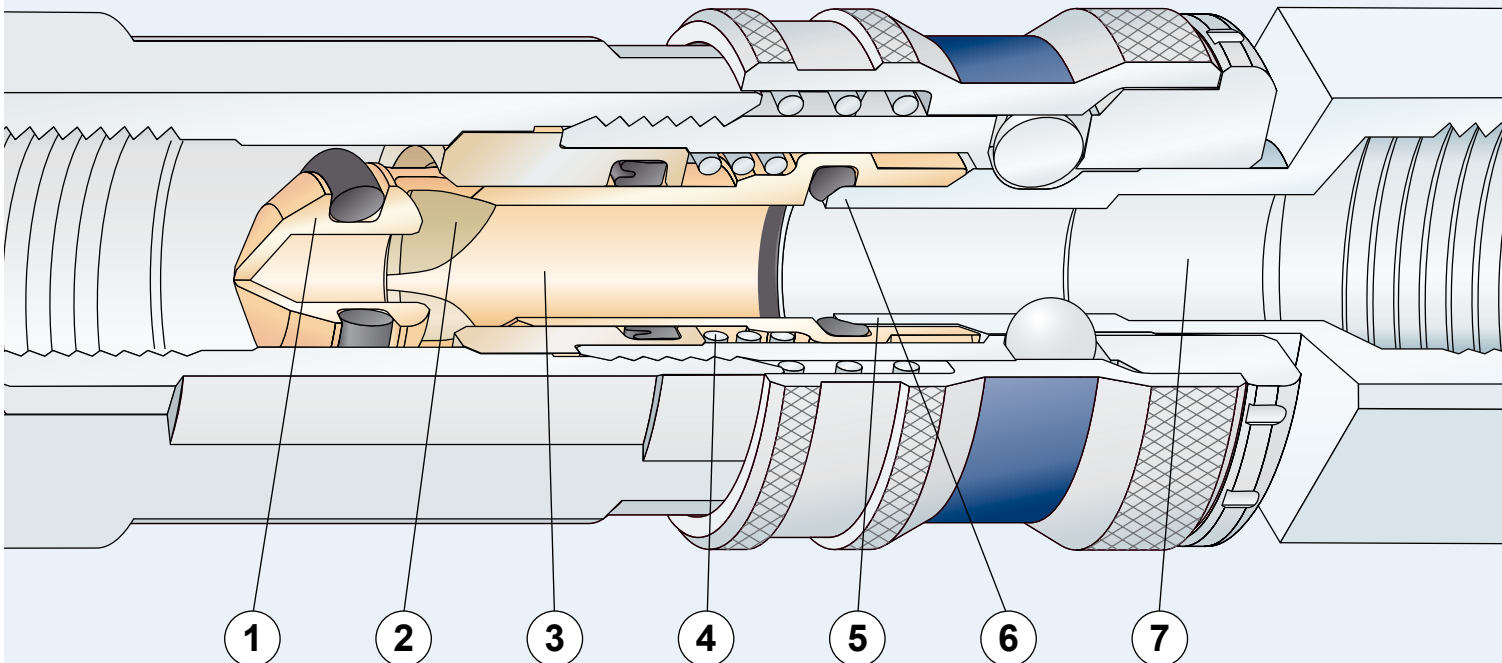
Long Life



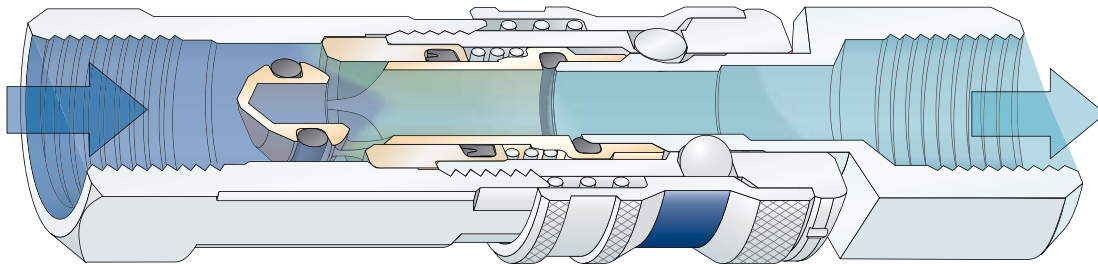
Unique Valve Construction Adds to Superior Performance of CEJN Pneumatic Couplings

Numerous construction features make the CEJN valve unique:

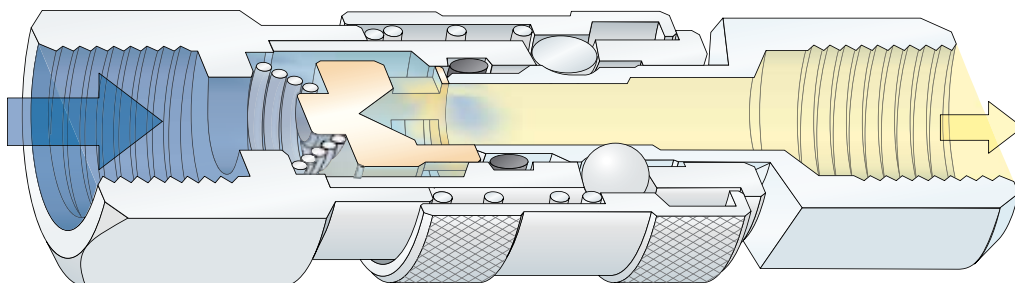
- 1. Aerodynamic, conical-shaped valve**
Air is allowed to flow into the valve without undue turbulence, resulting in less pressure drop and higher flow.
- 2. Extra-large, aerodynamic-shaped ports**
Air flow is enhanced, resulting in less pressure drop and higher flow.
- 3. Smooth, linear flow angles**
Instability and drag are eliminated, resulting in less pressure drop and higher flow.
- 4. Valve spring located outside the flow path**
A major obstruction to flow is eliminated, resulting in less pressure drop and higher flow.
- 5. Nipple goes into the valve**
The circumference of the nipple is sealed with an O-ring inside the valve, preventing leaks due to side loads and misalignment.
- 6. Minimal pressure area**
Less surface area of the valve is exposed to pressure, resulting in lower connection force.
- 7. Hardened steel nipple machined to precise specifications**
Properly opened valve and larger inside diameter result in less pressure drop and higher flow.



CEJN COUPLING



BRAND X COUPLING



Pressure (bar/PSI)

7.00 / 101.5
6.96 / 100.9
6.92 / 100.3
6.88 / 99.8
6.84 / 99.2
6.80 / 98.6
6.76 / 98.0
6.72 / 97.4
6.68 / 96.8
6.64 / 96.3
6.60 / 95.7

The smart design of CEJN couplings overcomes common problems associated with conventional couplings, such as:

Extremely high pressure drop

Caused by a valve that is flat with very sharp edges and severe flow angles

Excessive restrictions to flow

Caused by a spring in the flow path and very small valve ports, as well as nipples with small inside diameters

Leaks

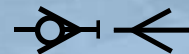
Caused by metal-to-metal contact between the valve and nipple

High connection force

Caused by excessive surface area exposed to pressure

Short coupling service life

Caused by less durable, brass nipples that are prone to wear and tear



Series 300 – Standard & Vented Safety

ARO 210 STANDARD

BENELUX, NORTH AMERICA, SWITZERLAND

- **Full automatic operation**
- **Strong and durable**
- **High flow capacity**

Series 300 couplings offer high flow and require only a low connection force, which ensures a safe working environment. Male threads on the couplings and nipples feature pre-applied thread sealant.

The Series 300 vented safety version is disconnected in two stages in order to vent the coupling and minimize the risk of sudden component separation, which has the potential to cause operator injury. Full automatic operation ensures easy handling. The vented safety version complies with ISO Standard 4414 and EN 983.



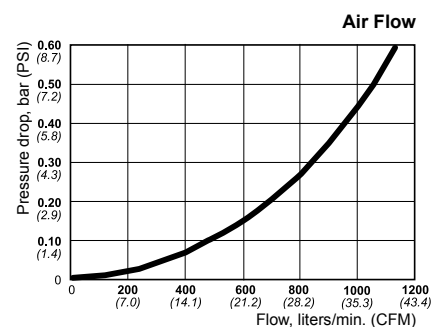
This series includes safety products.
For other safety products, see Page 67-74.



STANDARD

Technical Data

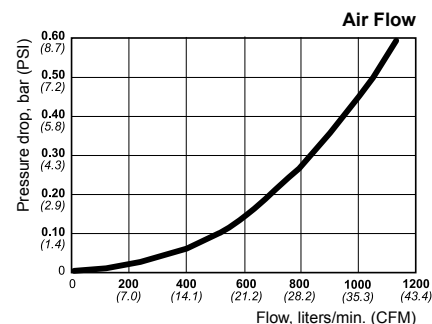
Nominal flow dia.....	5.5 mm (7/32")
Flow capacity.....	1050 l/min. (37.1 CFM)
Max. working pressure.....	16 bar (232 PSI)
Min. burst pressure.....	140 bar (2030 PSI)
Temperature range.....	-20°C to +100°C (-4°F to +212°F)
Coupling Material.....	Zinc-plated steel/brass
Nipple Material.....	Hardened zinc-plated steel
Connection force.....	70.7 N



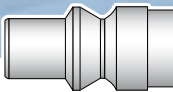
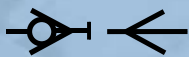
VENTED SAFETY

Technical Data

Nominal flow dia.....	5.5 mm (7/32")
Flow capacity.....	975 l/min. (34.4 CFM)
Max. working pressure.....	12 bar (174 PSI)
Min. burst pressure.....	48 bar (696 PSI)
Temperature range.....	-20°C to +80°C (-4°F to +176°F)
Coupling Material.....	Zinc-plated steel/brass
Connection force.....	59.8 N



Flow capacity is measured at 6 bar (87 PSI) inlet pressure, and pressure drop at 0.5 bar (7 PSI). Thread connections are listed according to ISO Standards (see Page 78 for more information). Check with an authorized CEJN distributor for availability and prices.

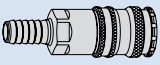

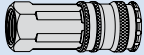
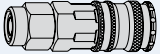


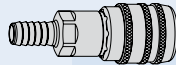
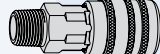

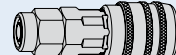
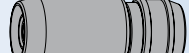
Series 300 – Standard & Vented Safety

ARO 210 STANDARD

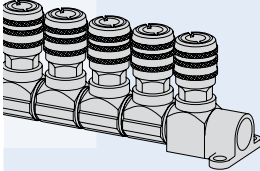
This series includes safety products.
For other safety products, see Page 67-74.







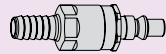

COUPLINGS	Part No.	Connection
Hose connection 	10 300 1002	6.3 mm (1/4")
	10 300 1003	8 mm (5/16")
	10 300 1004	10 mm (3/8")
Male thread 	10 300 1152	R 1/4"
	10 300 1154	R 3/8"
	10 300 1155	R 1/2"
	10 300 1452	NPT 1/4"
Female thread 	10 300 1202	G 1/4"
	10 300 1204	G 3/8"
	10 300 1402	NPT 1/4"
Stream-Line connection 	10 300 1060	6.5 x 10 mm
	10 300 1062	8 x 12 mm

VENTED SAFETY COUPLINGS	Part No.	Connection
Hose connection 	10 300 3002	6.3 mm (1/4")
	10 300 3003	8 mm (5/16")
	10 300 3004	10 mm (3/8")
	10 300 3005	13 mm (1/2")
Male thread 	10 300 3152	R 1/4"
	10 300 3154	R 3/8"
	10 300 3155	R 1/2"
	10 300 3452	NPT 1/4"
	10 300 3454	NPT 3/8"
	10 300 3455	NPT 1/2"
Female thread 	10 300 3202	G 1/4"
	10 300 3204	G 3/8"
	10 300 3205	G 1/2"
	10 300 3402	NPT 1/4"
	10 300 3404	NPT 3/8"
Stream-Line connection 	10 300 3060	6.5 x 10 mm
	10 300 3062	8 x 12 mm
	10 300 3063	9.5 x 13.5 mm
	10 300 3066	11 x 16 mm
Soft-Line (Page 26) Stream-Line connection 	10 300 3080	6.5 x 10 mm
	10 300 3082	8 x 12 mm

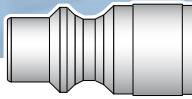
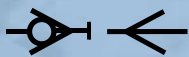
MULTI-LINK (Page 30)	Part No.	Connection
Center module, Vented Safety	19 902 1061	
Outlet module, Vented Safety	19 902 2061	G 1/2"
	19 902 2066	NPT 1/2"



NIPPLES	Part No.	Connection
Hose connection 	10 300 5002	6.3 mm (1/4")
	10 300 5003	8 mm (5/16")
	10 300 5004	10 mm (3/8")
Male thread 	10 300 5151	R 1/8"
	10 300 5152	R 1/4"
	10 300 5154	R 3/8"
	10 300 5155	R 1/2"
	10 300 5451	NPT 1/8"
	10 300 5452	NPT 1/4"
	10 300 5454	NPT 3/8"
Female thread 	10 300 5201	G 1/8"
	10 300 5202	G 1/4"
	10 300 5204	G 3/8"
	10 300 5401	NPT 1/8"
	10 300 5402	NPT 1/4"
	10 300 5404	NPT 3/8"
Stream-Line connection 	10 300 5058	5 x 8 mm
	10 300 5060	6.5 x 10 mm
	10 300 5062	8 x 12 mm
	10 300 5063	9.5 x 13.5 mm
	10 300 5066	11 x 16 mm

ANTI-HOSE WHIP NIPPLES	Part No.	Connection
Hose connection 	10 300 8003	8 mm (5/16")
	10 300 8004	10 mm (3/8")
Stream-Line connection 	10 300 8060	6 x 10 mm
	10 300 8062	8 x 12 mm

Flow capacity is measured at 6 bar (87 PSI) inlet pressure, and pressure drop at 0.5 bar (7 PSI). Thread connections are listed according to ISO Standards (see Page 78 for more information). Check with an authorized CEJN distributor for availability and prices.



Series 310 – Standard & Vented Safety

A-A 59439 (former U.S. Standard MIL C 4109 1/4"), ISO 6150 B

BENELUX, FRANCE, NORTH AMERICA, NORWAY, SWITZERLAND

- **High flow capacity**
- **One-hand operation**
- **Low connection force**

Series 310 offers a wide range of easy-to-grip couplings, including Soft-Line, Stream-Line, and Multi-Link connections. Male threads on the couplings and nipples feature pre-applied thread sealant.

The Series 310 vented safety version is disconnected in two stages in order to vent the coupling and minimize the risk of sudden component separation, which has the potential to cause operator injury. Full automatic operation ensures easy handling. The vented safety version complies with ISO Standard 4414 and EN 983.



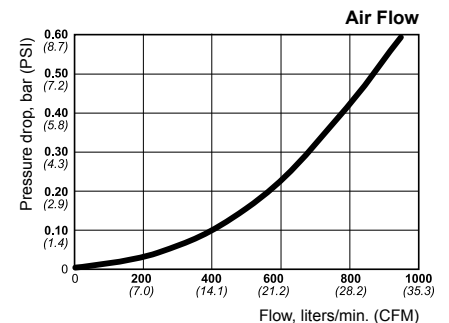
This series includes safety products. For other safety products, see Page 67-74.



STANDARD

Technical Data

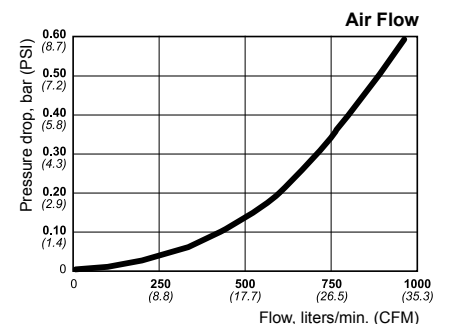
Nominal flow dia.	5.3 mm (7/32")
Flow capacity	925 l/min. (32.7 CFM)
Max. working pressure	16 bar (232 PSI)
Min. burst pressure	140 bar (2030 PSI)
Temperature range	-20°C – +100°C (-4°F – +212°F)
Coupling Material	Zinc-plated steel/brass
Nipple Material	Hardened zinc-plated steel
Connection force	70.7 N



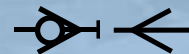
VENTED SAFETY

Technical Data

Nominal flow dia.	5.3 mm (7/32")
Flow capacity	900 l/min. (31.8 CFM)
Max. working pressure	12 bar (174 PSI)
Min. burst pressure	48 bar (696 PSI)
Temperature range	-20°C – +80°C (-4°F – +176°F)
Coupling Material	Zinc-plated steel/brass
Connection force	61.7 N



Flow capacity is measured at 6 bar (87 PSI) inlet pressure, and pressure drop at 0.5 bar (7 PSI). Thread connections are listed according to ISO Standards (see Page 78 for more information). Check with an authorized CEJN distributor for availability and prices.

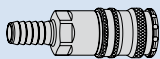
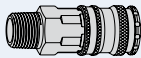
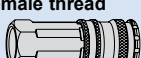

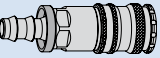



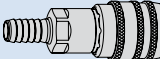

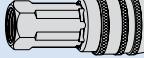


Series 310 – Standard & Vented Safety



A-A 59439 (former U.S. Standard MIL C 4109 1/4"), ISO 6150 B



This series includes safety products.
For other safety products, see Page 67-74.








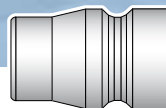
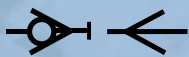
COUPLINGS	Part No.	Connection
Hose connection 	10 310 1002	6.3 mm (1/4")
	10 310 1003	8 mm (5/16")
	10 310 1004	10 mm (3/8")
	10 310 1005	13 mm (1/2")
Male thread 	10 310 1152	R 1/4"
	10 310 1154	R 3/8"
	10 310 1155	R 1/2"
	10 310 1452	NPT 1/4"
	10 310 1454	NPT 3/8"
	10 310 1455	NPT 1/2"
Female thread 	10 310 1202	G 1/4"
	10 310 1204	G 3/8"
	10 310 1205	G 1/2"
	10 310 1402	NPT 1/4"
	10 310 1404	NPT 3/8"
	10 310 1405	NPT 1/2"
	Stream-Line connection 	10 310 1058
10 310 1060		6.5 x 10 mm
10 310 1062		8 x 12 mm
10 310 1063		9.5 x 13.5 mm
10 310 1066		11 x 16 mm
CEJN-Lock hose connection 	10 310 1042	1/4"
	10 310 1044	3/8"
	10 310 1045	1/2"
Soft-Line (Page 26) 	Stream-Line connection	10 310 1083 6.5 x 10 mm
		10 310 1084 8 x 12 mm
	Female thread	10 310 1240 G 1/4"
		10 310 1241 G 3/8"
		10 310 1446 NPT 1/4"
	10 310 1447 NPT 3/8"	

VENTED SAFETY COUPLINGS	Part No.	Connection
Hose connection 	10 310 3002	6.3 mm (1/4")
	10 310 3003	8 mm (5/16")
	10 310 3004	10 mm (3/8")
	10 310 3005	13 mm (1/2")
Male thread 	10 310 3152	R 1/4"
	10 310 3154	R 3/8"
	10 310 3155	R 1/2"
	10 310 3452	NPT 1/4"
	10 310 3454	NPT 3/8"
Female thread 	10 310 3202	G 1/4"
	10 310 3204	G 3/8"
	10 310 3205	G 1/2"
	10 310 3402	NPT 1/4"
	10 310 3404	NPT 3/8"
Stream-Line connection 	10 310 3060	6.5 x 10 mm
	10 310 3062	8 x 12 mm
	10 310 3063	9.5 x 13.5 mm
Soft-Line (Page 26) 	Stream-Line connection	10 310 3080 6.5 x 10 mm
	Female thread	10 310 3082 8 x 12 mm
		10 310 3234 G 3/8"

MULTI-LINK (page 30)	Part No.	Connection
Center module	19 902 1070	
Outlet module	19 902 2070	G 1/2"
	19 902 2075	NPT 1/2"
 Center module, Vented Safety	19 902 1071	
 Outlet module, Vented Safety	19 902 2071	G 1/2"
	19 902 2076	NPT 1/2"

ANTI-HOSE WHIP NIPPLES	Part No.	Connection
Hose connection 	10 310 8003	8 mm (5/16")
	10 310 8004	10 mm (3/8")
Stream-Line connection 	10 310 8060	6.5 x 10 mm
	10 310 8062	8 x 12 mm

NIPPLES	Part No.	Connection
Hose connection 	10 310 5001	5 mm (3/16")
	10 310 5002	6.3 mm (1/4")
	10 310 5003	8 mm (5/16")
	10 310 5004	10 mm (3/8")
	10 310 5005	13 mm (1/2")
Male thread 	10 310 5151	R 1/8"
	10 310 5152	R 1/4"
	10 310 5154	R 3/8"
	10 310 5252	G 1/4"
	10 310 5451	NPT 1/8"
	10 310 5452	NPT 1/4"
	10 310 5454	NPT 3/8"
	10 310 5455	NPT 1/2"
Female thread 	10 310 5201	G 1/8"
	10 310 5202	G 1/4"
	10 310 5204	G 3/8"
	10 310 5401	NPT 1/8"
	10 310 5402	NPT 1/4"
	10 310 5404	NPT 3/8"
Stream-Line connection 	10 310 5058	5 x 8 mm
	10 310 5060	6.5 x 10 mm
	10 310 5062	8 x 12 mm
	10 310 5063	9.5 x 13.5 mm
	10 310 5066	11 x 16 mm
CEJN-Lock hose connection 	10 310 5042	1/4"
	10 310 5044	3/8"
	10 310 5045	1/2"



Series 315 – Standard

ASIAN STANDARD

ASIA, ITALY, SOUTH AMERICA

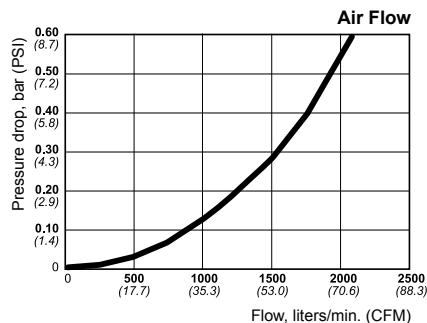
- **Extremely high flow capacity**
- **Low connection force**
- **One-hand operation**

Series 315 couplings are lightweight and easy to handle, yet strong and durable. The series includes a wide range of connections, as well as anti-hose whip nipples. Male threads on the couplings and nipples feature pre-applied thread sealant.



Technical Data

- Nominal flow dia..... 7.5 mm (5/16")
- Flow capacity..... 1950 l/min. (68.9 CFM)
- Max. working pressure 16 bar (232 PSI)
- Min. burst pressure 140 bar (2030 PSI)
- Temperature range -20°C to +100°C (-4°F to +212°F)
- Coupling Material Zinc-plated steel/brass
- Nipple Material..... Hardened zinc-plated steel
- Connection force..... 73.5 N



This series includes safety products.
For other safety products, see Page 67-74.

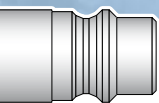
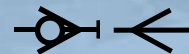
COUPLINGS	Part No.	Connection
 Hose connection	10 315 1002	6.3 mm (1/4")
	10 315 1043	7 mm (9/32")
	10 315 1004	10 mm (3/8")
	10 315 1005	13 mm (1/2")
 Male thread	10 315 1152	R 1/4"
	10 315 1154	R 3/8"
	10 315 1155	R 1/2"
	10 315 1452	NPT 1/4"
	10 315 1454	NPT 3/8"
	10 315 1455	NPT 1/2"
 Female thread	10 315 1102	Rc 1/4"
	10 315 1104	Rc 3/8"
	10 315 1105	Rc 1/2"
	10 315 1402	NPT 1/4"
	10 315 1404	NPT 3/8"
	10 315 1405	NPT 1/2"
 Stream-Line connection	10 315 1058	5 x 8 mm
	10 315 1060	6.5 x 10 mm
	10 315 1062	8 x 12 mm
	10 315 1066	11 x 16 mm

NIPPLES	Part No.	Connection
 Hose connection	10 315 5001	5 mm (3/16")
	10 315 5002	6.3 mm (1/4")
	10 315 5043	7 mm (9/32")
	10 315 5004	10 mm (3/8")
	10 315 5005	13 mm (1/2")
 Male thread	10 315 5151	R 1/8"
	10 315 5152	R 1/4"
	10 315 5154	R 3/8"
	10 315 5155	R 1/2"
	10 315 5452	NPT 1/4"
	10 315 5454	NPT 3/8"
	10 315 5455	NPT 1/2"

NIPPLES	Part No.	Connection
 Female thread	10 315 5101	Rc 1/8"
	10 315 5102	Rc 1/4"
	10 315 5104	Rc 3/8"
	10 315 5105	Rc 1/2"
	10 315 5402	NPT 1/4"
	10 315 5404	NPT 3/8"
	10 315 5405	NPT 1/2"
 Stream-Line connection	10 315 5058	5 x 8 mm
	10 315 5060	6.5 x 10 mm
	10 315 5062	8 x 12 mm
 Stream-Line connection with kink protector	10 315 5085	6.5 x 10 mm
	10 315 5086	8 x 12 mm

ANTI-HOSE WHIP NIPPLES	Part No.	Connection
 Hose connection	10 315 8012	6.3 mm (1/4")
	10 315 8013	7 mm (9/32")
	10 315 8014	10 mm (3/8")
	10 315 8015	13 mm (1/2")
 Male thread	10 315 8152	R 1/4"
	10 315 8154	R 3/8"
	10 315 8452	NPT 1/4"
 Female thread	10 315 8102	Rc 1/4"
	10 315 8402	NPT 1/4"
 Stream-Line connection	10 315 8068	5 x 8 mm
	10 315 8070	6.5 x 10 mm
	10 315 8072	8 x 12 mm
	10 315 8076	11 x 16 mm

Flow capacity is measured at 6 bar (87 PSI) inlet pressure, and pressure drop at 0.5 bar (7 PSI). Thread connections are listed according to ISO Standards (see Page 78 for more information). Check with an authorized CEJN distributor for availability and prices.



Series 320 – Standard & Vented Safety

CEJN ORIGINAL STANDARD, EUROSTANDARD 7.6 (7.4)
GLOBAL

- **Extremely high flow capacity**
- **Easy to connect**
- **Strong and durable**

Series 320 couplings feature the original high-flow valve design upon which all other CEJN pneumatic couplings are based. Their popularity has made Series 320 a European standard. The series is easy-to-handle and one-hand operated and offers long service life. Male threads on the couplings and nipples feature pre-applied thread sealant. Lightweight aluminum styles are also available (also see the Aluminum Couplings section of this catalog).

The Series 320 vented safety version is disconnected in two stages in order to vent the coupling and minimize the risk of sudden component separation, which has the potential to cause operator injury. Full automatic operation ensures easy handling. The vented safety version complies with ISO Standard 4414 and EN 983.

Refer to the CEJN Fluid Products Catalog for specialized versions of Series 320 with brass nipples (Series 321), high-pressure straight-through design (Series 322), two-way shutoff (Series 324), and stainless steel construction (Series 326).



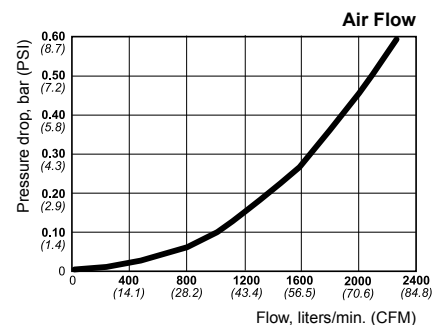
This series includes safety products.
For other safety products, see Page 67-74.



STANDARD

Technical Data

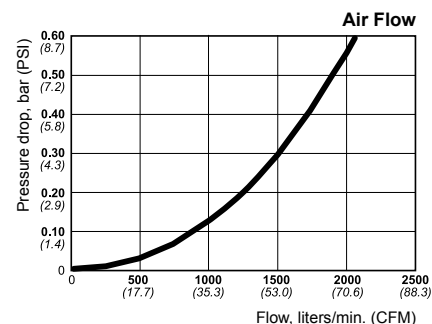
Nominal flow dia.....	7.6 mm (5/16")
Flow capacity.....	2100 l/min. (74.2 CFM)
Max. working pressure.....	16 bar (232 PSI)
Min. burst pressure.....	140 bar (2030 PSI)
Temperature range.....	-20°C to +100°C (-4°F to +212°F)
Coupling Material.....	Zinc-plated steel/brass
Nipple Material.....	Hardened zinc-plated steel
Connection force.....	70.7 N



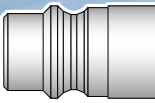
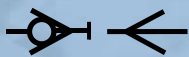
VENTED SAFETY

Technical Data

Nominal flow dia.....	7.6 mm (5/16")
Flow capacity.....	1900 l/min. (67.1 CFM)
Max. working pressure.....	12 bar (174 PSI)
Min. burst pressure.....	48 bar (696 PSI)
Temperature range.....	-20°C to +80°C (-4°F to +176°F)
Coupling Material.....	Zinc-plated steel/brass
Connection force.....	64.0 N



Flow capacity is measured at 6 bar (87 PSI) inlet pressure, and pressure drop at 0.5 bar (7 PSI). Thread connections are listed according to ISO Standards (see Page 78 for more information). Check with an authorized CEJN distributor for availability and prices.



Series 320 – Standard & Vented Safety

CEJN ORIGINAL STANDARD, EUROSTANDARD 7.6 (7.4)

This series includes safety products.
For other safety products, see Page 67-74.



COUPLINGS	Part No.	Connection																		
Hose connection 	10 320 1002	6.3 mm (1/4")																		
	10 320 1003	8 mm (5/16")																		
	10 320 1009	9 mm																		
	10 320 1004	10 mm (3/8")																		
	10 320 1005	13 mm (1/2")																		
Male thread 	10 320 1152	R 1/4"																		
	10 320 1154	R 3/8"																		
	10 320 1155	R 1/2"																		
	10 320 1452	NPT 1/4"																		
	10 320 1454	NPT 3/8"																		
	10 320 1455	NPT 1/2"																		
Female thread 	10 320 1202	G 1/4"																		
	10 320 1204	G 3/8"																		
	10 320 1205	G 1/2"																		
	10 320 1402	NPT 1/4"																		
	10 320 1404	NPT 3/8"																		
	10 320 1405	NPT 1/2"																		
Stream-Line connection 	10 320 1058	5 x 8 mm																		
	10 320 1060	6.5 x 10 mm																		
	10 320 1062	8 x 12 mm																		
	10 320 1063	9.5 x 13.5 mm																		
	10 320 1066	11 x 16 mm																		
CEJN-Lock hose connection 	10 320 1032	1/4"																		
	10 320 1034	3/8"																		
	10 320 1035	1/2"																		
Soft-Line (Page 26) <table border="0" style="display: inline-table; vertical-align: middle;"> <tr> <td>Hose connection</td> <td>10 320 1086</td> <td>10 mm (3/8")</td> </tr> <tr> <td>Stream-Line connection</td> <td>10 320 1087</td> <td>13 mm (1/2")</td> </tr> <tr> <td></td> <td>10 320 1089</td> <td>6.5 x 10 mm</td> </tr> <tr> <td></td> <td>10 320 1090</td> <td>8 x 12 mm</td> </tr> <tr> <td>Female thread</td> <td>10 320 1246</td> <td>G 1/4"</td> </tr> <tr> <td></td> <td>10 320 1247</td> <td>G 3/8"</td> </tr> </table>	Hose connection	10 320 1086	10 mm (3/8")	Stream-Line connection	10 320 1087	13 mm (1/2")		10 320 1089	6.5 x 10 mm		10 320 1090	8 x 12 mm	Female thread	10 320 1246	G 1/4"		10 320 1247	G 3/8"		
	Hose connection	10 320 1086	10 mm (3/8")																	
	Stream-Line connection	10 320 1087	13 mm (1/2")																	
		10 320 1089	6.5 x 10 mm																	
		10 320 1090	8 x 12 mm																	
Female thread	10 320 1246	G 1/4"																		
	10 320 1247	G 3/8"																		

ALUMINUM COUPLINGS (Page 28)	Part No.	Connection
Hose connection 	10 320 1932	6.3 mm (1/4")
	10 320 1934	10 mm (3/8")
	10 320 1935	13 mm (1/2")
Female thread 	10 320 1942	G 1/4"
	10 320 1972	NPT 1/4"
	10 320 1974	NPT 3/8"
Stream-Line Connection 	10 320 1960	6.5 x 10 mm
	10 320 1962	8 x 12 mm

MULTI-LINK (Page 30)	Part No.	Connection
Center module	19 902 1080	
Outlet module	19 902 2080	G 1/2"
	19 902 2085	NPT 1/2"
Center module, Vented Safety	19 902 1081	
Outlet module, Vented Safety	19 902 2081	G 1/2"
	19 902 2086	NPT 1/2"



VENTED SAFETY COUPLINGS	Part No.	Connection						
Hose connection 	10 320 3002	6.3 mm (1/4")						
	10 320 3003	8 mm (5/16")						
	10 320 3004	10 mm (3/8")						
	10 320 3005	13 mm (1/2")						
Male thread 	10 320 3152	R 1/4"						
	10 320 3154	R 3/8"						
	10 320 3155	R 1/2"						
	10 320 3452	NPT 1/4"						
	10 320 3454	NPT 3/8"						
	10 320 3455	NPT 1/2"						
Female thread 	10 320 3202	G 1/4"						
	10 320 3204	G 3/8"						
	10 320 3205	G 1/2"						
	10 320 3402	NPT 1/4"						
	10 320 3404	NPT 3/8"						
	10 320 3405	NPT 1/2"						
Stream-Line connection 	10 320 3060	6.5 x 10 mm						
	10 320 3062	8 x 12 mm						
	10 320 3063	9.5 x 13.5 mm						
	10 320 3066	11 x 16 mm						
Soft-Line (Page 26) <table border="0" style="display: inline-table; vertical-align: middle;"> <tr> <td>Stream-Line connection</td> <td>10 320 3080</td> <td>6.5 x 10 mm</td> </tr> <tr> <td></td> <td>10 320 3082</td> <td>8 x 12 mm</td> </tr> </table>	Stream-Line connection	10 320 3080	6.5 x 10 mm		10 320 3082	8 x 12 mm		
	Stream-Line connection	10 320 3080	6.5 x 10 mm					
	10 320 3082	8 x 12 mm						

NIPPLES	Part No.	Connection
Hose connection 	10 320 5001	5 mm (3/16")
	10 320 5002	6.3 mm (1/4")
	10 320 5003	8 mm (5/16")
	10 320 5004	10 mm (3/8")
	10 320 5005	13 mm (1/2")
Male thread 	10 320 5151	R 1/8"
	10 320 5152	R 1/4"
	10 320 5154	R 3/8"
	10 320 5155	R 1/2"
	10 320 5263	G 1/4"
	10 320 5264	G 3/8"
	10 320 5265	G 1/2"
	10 320 5451	NPT 1/8"
	10 320 5452	NPT 1/4"
	10 320 5454	NPT 3/8"
	10 320 5455	NPT 1/2"
Female thread 	10 320 5201	G 1/8"
	10 320 5202	G 1/4"
	10 320 5204	G 3/8"
	10 320 5205	G 1/2"
	10 320 5401	NPT 1/8"
	10 320 5402	NPT 1/4"
	10 320 5404	NPT 3/8"
	10 320 5405	NPT 1/2"
Stream-Line connection 	10 320 5058	5 x 8 mm
	10 320 5060	6.5 x 10 mm
	10 320 5062	8 x 12 mm
	10 320 5063	9.5 x 13.5 mm
	10 320 5066	11 x 16 mm
CEJN-Lock hose connection 	10 320 5032	1/4"
	10 320 5034	3/8"
	10 320 5035	1/2"

ANTI-HOSE WHIP NIPPLES	Part No.	Connection
Hose connection 	10 320 8002	6.3 mm (1/4")
	10 320 8003	8 mm (5/16")
	10 320 8004	10 mm (3/8")
	10 320 8005	13 mm (1/2")
Male thread 	10 320 8152	R 1/4"
Stream-Line connection 	10 320 8060	6.5 x 10 mm
	10 320 8062	8 x 12 mm
	10 320 8063	9.5 x 13.5 mm
	10 320 8066	11 x 16 mm

Flow capacity is measured at 6 bar (87 PSI) inlet pressure, and pressure drop at 0.5 bar (7 PSI). Thread connections are listed according to ISO Standards (see Page 78 for more information). Check with an authorized CEJN distributor for availability and prices.

Units, Conversion Tables, and Formulas

Pressure

FROM	TO	MULTIPLY BY	EXAMPLE
atm (atmosphere)	bar	1.01325	1.1 atm x 1.01325 = 1.115 bar
atm	MPa	0.10132	1.1 atm x 0.10132 = 0.111 MPa
atm	PSI	14.696	1.1 atm x 14.695 = 16.166 PSI
bar	atm	0.98692	10 bar x 0.98692 = 9.8692 atm
bar	MPa	0.1	10 bar x 0.1 = 1.0 MPa
bar	PSI	14.504	10 bar x 14.504 = 145 PSI
MPa (megapascal)	atm	9.8692	10 MPa x 9.8692 = 98.692 atm
MPa	bar	10	10 MPa x 10 = 100 bar
MPa	PSI	145.0	10 MPa x 145.0 = 1450 PSI
PSI (pounds / square inch)	atm	0.068	100 PSI x 0.068 = 6.80 atm
PSI	bar	0.0689	100 PSI x 0.0689 = 6.89 bar
PSI	MPa	0.00689	100 PSI x 0.00689 = 0.689 MPa

Flow

FROM	TO	MULTIPLY BY	EXAMPLE
CFM (cubic feet / minute)	l/min	28.32	100 CFM x 28.32 = 2832 l/min
CFM	l/s	0.472	100 CFM x 0.472 = 47.2 l/s
CFM	m ³ /h	1.699	100 CFM x 1.699 = 169.9 m ³ /h
l/min (liter / minute)	CFM	0.0353	100 l/min x 0.0353 = 3.5 CFM
l/min	l/s	0.0167	100 l/min x 0.0167 = 1.7 l/s
l/min	m ³ /h	0.06	100 l/min x 0.06 = 6 m ³ /h
l/s (liter / second)	CFM	2.119	10 l/s x 2.119 x 21.2 CFM
l/s	l/min	60	10 l/s x 60 = 600 l/min
l/s	m ³ /h	3.6	10 l/s x 3.6 = 36 m ³ /h
m ³ /h (cubic meter / hour)	CFM	0.5885	10 m ³ /h x 0.5885 = 5.885 CFM
m ³ /h	l/min	16.667	10 m ³ /h x 16.667 = 166.7 l/min
m ³ /h	l/s	0.2777	10 m ³ /h x 0.2777 = 2.777 l/s

Volume

FROM	TO	MULTIPLY BY	EXAMPLE
ft ³ (cubic foot)	gl UK	6.228	10 ft ³ x 6.228 = 62.28 gl UK
ft ³	gl U.S.	7.48	10 ft ³ x 7.48 = 74.8 gl U.S.
ft ³	l	28.32	10 ft ³ x 28.32 = 283.2 l
ft ³	m ³	0.0283	10 ft ³ x 0.0283 = 0.283 m ³
gl UK (gallon UK)	ft ³	0.1605	10 gl UK x 0.1605 = 1.605 ft ³
gl UK	gl U.S.	1.2009	10 gl UK x 1.2009 = 12.009 gl U.S.
gl UK	l	4.546	10 gl UK x 4.546 = 45.46 l
gl UK	m ³	0.0045	10 gl UK x 0.0045 = 0.045 m ³
gl U.S. (gallon U.S.)	ft ³	0.1336	10 gl U.S. x 0.1336 = 1.336 ft ³
gl U.S.	gl UK	0.8326	10 gl U.S. x 0.8326 = 8.326 gl UK
gl U.S.	l	3.785	10 gl U.S. x 3.785 = 37.85 l
gl U.S.	m ³	0.0037	10 gl U.S. x 0.0037 = 0.037 m ³
l (liter)	ft ³	0.0353	100 l x 0.0353 = 3.53 ft ³
l	gl UK	0.220	100 l x 0.220 = 22.0 gl UK
l	gl U.S.	0.264	100 l x 0.264 = 26.4 gl U.S.
l	m ³	0.001	100 l x 0.001 = 0.1 m ³
m ³ (cubic meter)	ft ³	35.3	10 m ³ x 35.3 = 353 ft ³
m ³	gl UK	219.96	10 m ³ x 219.96 = 2199.6 gl UK
m ³	gl U.S.	264.17	10 m ³ x 264.17 = 2641.7 gl U.S.
m ³	l	1000	10 m ³ x 1000 = 10 000 l

Force

FROM	TO	MULTIPLY BY	EXAMPLE
lbf (pound force)	kp	0.454	10 lbf x 0.454 = 4.54 kp
lbf	N	4.448	10 lbf x 4.448 = 44.48 N
kp (kilogram force)	lbf	2.205	10 kp x 2.204 = 22.05 lbf
kp	N	9.806	10 kp x 9.806 = 98.06 N
N (newton)	lbf	0.2248	10 N x 0.2248 = 2.25 lbf
N	kp	0.1020	10 N x 0.1020 = 1.02 kp

Length

FROM	TO	MULTIPLY BY	EXAMPLE
ft (foot)	inch	12	10 ft x 12 = 120 inch
ft	m	0.3048	10 ft x 0.3048 = 3.048 m
ft	mm	304.8	10 ft x 304.8 = 3048 mm
inch	ft	0.0833	10 inch x 0.0833 = 0.833 ft
inch	m	0.0254	10 inch x 0.0254 = 0.254 m
inch	mm	25.4	10 inch x 25.4 = 254 mm
m (meter)	ft	3.28083	10 m x 3.28083 = 32.8083 ft
m	inch	39.3699	10 m x 39.3699 = 393.699 inch
m	mm	1000	10 m x 1000 = 10 000 mm
mm (millimeter)	ft	0.00328	10 mm x 0.00328 = 0.0328 ft
mm	inch	0.0393	10 mm x 0.0393 = 0.393 inch
mm	m	0.001	10 mm x 0.001 = 0.01 m

Mass

FROM	TO	MULTIPLY BY	EXAMPLE
g (gram)	kg	0.001	10 g x 0.001 = 0.01 kg
g	lb	0.0022	10 g x 0.0022 = 0.022 lb
g	oz	0.0352	10 g x 0.001 = 0.352 oz
kg (kilogram)	g	1000	10 kg x 1000 = 10 000 g
kg	lb	2.205	10 kg x 2.205 = 22.05 lb
kg	oz	35.273	10 kg x 35.273 = 352.73 oz
lb (pound)	g	453.9	10 lb x 0.454 = 4535 g
lb	kg	0.4539	10 lb x 0.4539 = 4.535 kg
lb	oz	16	10 lb x 0.454 = 160 oz
oz (ounce)	g	28.349	10 oz x 28.349 = 283.49 g
oz	kg	0.0283	10 oz x 0.0283 = 0.283 kg
oz	lb	0.0625	10 oz x 0.0625 = 0.625 lb

Torque

FROM	TO	MULTIPLY BY	EXAMPLE
kpm (kilo pound meter)	lbfft	7.233	10 kpm x 7.233 = 72.33 lbfft
kpm	Nm	9.81	10 kpm x 9.81 = 98.1 Nm
lbfft (pound force foot)	Nm	1.356	10 kpm x 1.356 = 13.56 Nm
lbfft	Nm	0.1383	10 kpm x 0.1383 = 1.38 kpm
Nm (newton meter)	kpm	0.1020	10 Nm x 0.1020 = 1.02 kpm
Nm	lbfft	0.7376	10 Nm x 0.7376 = 7.38 lbfft

Equivalent Chart for Hose and Hose Fittings

Hose Size

Inner Dia. x Outer Dia. in mm	Inner Dia. x Outer Dia. in inch	U.S. Nominal
5 x 8	0.196 x 0.314	3/16" (0.1875 inch)
6.5 x 10	0.255 x 0.393	1/4" (0.250 inch)
8 x 12	0.314 x 0.472	5/16" (0.3125 inch)
9.5 x 13.5	0.374 x 0.531	3/8" (0.375 inch)
11 x 16	0.433 x 0.63	7/16" (0.4375 inch)

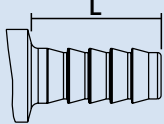
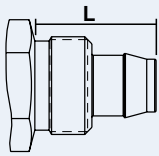
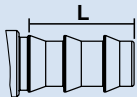
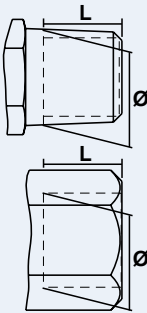
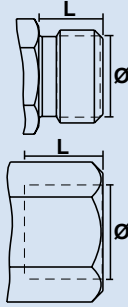
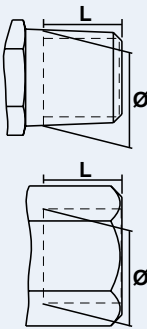
Hose Connection Size

Connection Size in mm	Connection Size in inch	U.S. Nominal
6.3	0.248	1/4" (0.250 inch)
10	0.393	3/8" (0.375 inch)
13	0.512	1/2" (0.5 inch)
16	0.630	5/8" (0.625 inch)
19	0.748	3/4" (0.75 inch)

Recommended Hose Dimension

	Working Length 4 m	Working Length 6 m	Working Length 10 m	Working Length >20 m
Required Flow <200 l/min	5 x 8 mm	6.5 x 10 mm	6.5 x 10 mm	8 x 12 mm
Required Flow <400 l/min	6.5 x 10 mm	8 x 12 mm	8 x 12 mm	9.5 x 13.5 mm
Required Flow <600 l/min	8 x 12 mm	8 x 12 mm / 11 x 6 mm	11 x 16 mm	11 x 16 mm / 13 x 18 mm

Connections and Thread Standards

	Connection	Ø (mm)	L (mm)	
Hose Connection Standard hose barb for hose clamp		6.3 mm (1/4") 8 mm (5/16") 10 mm (3/8") 13 mm (1/2") 16 mm (5/8")	- - - - -	18.0 18.0 21.0 21.0 23.0
Stream-Line Connection Hose barb with nut cap for reusable and safe hose clamping		5 x 8 mm 6.5 x 10 mm 8 x 12 mm 9.5 x 13.5 mm 11 x 16 mm	- - - - -	15.0 17.0 19.0 21.0 25.0
CEJN-Lock Connection For special non-clamping hose		1/4" 3/8" 1/2"	- - -	19.0 23.0 26.0
R/Rc Thread Connection Conical Pipe Thread Connection According to ISO 7/1 (Other common descriptions are BSPT, Kr) Male: ie. R 1/4" Female: ie. Rp 1/4" (parallel) ie. Rc 1/4" (taper)		Male Thread R 1/8" R 1/4" R 3/8" R 1/2" R 3/4" Female Thread Rc 1/8" Rc 1/4" Rc 3/8" Rc 1/2" Rc 3/4"	10.2 13.6 17.2 21.7 27.1 8.3 11.0 14.5 18.0 23.5	7.4 11.0 11.0 15.0 16.3 7.4 11.0 11.4 15.0 16.3
G Thread Connection Cylindrical Pipe Thread Connection According to ISO 228/1 (Other common descriptions are BSP, R) Male: ie. G 1/4" Female (ISO 1179): ie. G 1/4"		Male Thread G 1/8" G 1/4" G 3/8" G 1/2" G 3/4" Female Thread G 1/8" G 1/4" G 3/8" G 1/2" G 3/4"	9.6 13.0 16.5 20.8 26.3 8.75 11.8 15.25 19.0 24.5	8.0 10.0 10.0 12.0 12.0 7.4 11.0 11.4 15.0 16.3
NPT Thread Connection National Pipe Thread American standard according to ANSI/ASME B 1.20.1 Male and female: ie. 1/4" NPT		Male Thread NPT 1/8" NPT 1/4" NPT 3/8" NPT 1/2" NPT 3/4" Female Thread NPT 1/8" NPT 1/4" NPT 3/8" NPT 1/2" NPT 3/4"	10.5 14.0 17.5 21.8 27.1 8.5 11.0 14.5 18.0 23.0	6.7 10.2 10.4 13.6 13.9 6.9 10.0 10.3 13.6 14.1

Quick Reference Guide

CEJN SERIES	141	220	300	303	310	315	320	342	408	410	430	442	550
CEJN Original Profile	●	●					●	●		●		●	
Standards													
ARO 210 Standard			●										
A-A 59439* / ISO 6150 B					●						●		●
Eurostandard						●			●				
Asian Standard						●							
Body Size	N/A	1/8"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"	1/2"
Flow Diameter (mm)	2.5	5.0	5.5	6.5	5.3	7.5	7.6	7.4	9.5	10.4	9.5	10.4	11.0
Max Working Pressure (bar)**	10	35	16	16	16	16	16	35	16	16	16	35	16
Air Flow (l/min)***	80	580	1050	1450	925	1950	2100	1950	3450	3900	2350	3950	3750
Suitable for Vacuum Service	●	●		●					●				
Pre-applied Thread Sealant			●	●	●	●	●	●					
Multi-Link Version			●		●		●						
Integrated Soft-Line Version			●		●		●						
Safety Versions													
Vented safety coupling (ISO 4414)			●		●		●			●			●
Anti-hose whip nipple			●	●	●	●	●	●	●	●	●	●	●
Safety lock								●				●	
Connections													
Stream-Line connection			●	●	●	●	●	●	●	●	●		
CEJN-Lock connection					●		●						
Hose connection	●	●	●	●	●	●	●	●	●	●	●	●	●
Male thread	●	●	●	●	●	●	●	●	●	●	●	●	●
Female thread	●	●	●	●	●	●	●	●	●	●	●	●	●
Operation													
One-hand connection	●	●	●	●	●	●	●	●	●	●	●	●	●
One-hand disconnection	●	●	●	●	●	●	●		●	●	●		●
Two-hand disconnection								●				●	
Temperature Ranges**													
-30°C to +100°C	●	●						●				●	
-20°C to +100°C			●	●	●	●	●		●	●	●		●
Coupling Materials													
Brass	●	●											
Steel/Brass			●	●	●	●	●	●	●	●	●	●	●
Nickel plating		●											
Chrome plating	●												
Zinc plating			●	●	●	●	●	●	●	●	●	●	●
Nipple Materials													
Steel		●	●	●	●	●	●	●	●	●	●	●	●
Brass	●												
Zinc plating		●	●	●	●	●	●	●	●	●	●	●	●
Chrome plating	●												
Seal Material													
NBR (Nitrile rubber)	●	●	●	●	●	●	●	●	●	●	●	●	●
Tool Flow Requirements													
< 100 l/min	●	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬
< 300 l/min		▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬
< 600 l/min			▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬
< 900 l/min			▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬
< 1200 l/min				▬	▬	▬	▬	▬	▬	▬	▬	▬	▬
< 1500 l/min					▬	▬	▬	▬	▬	▬	▬	▬	▬
< 1800 l/min						▬	▬	▬	▬	▬	▬	▬	▬
< 2100 l/min							▬	▬	▬	▬	▬	▬	▬
< 2400 l/min								▬	▬	▬	▬	▬	▬
< 2700 l/min									▬	▬	▬	▬	▬
< 3000 l/min										▬	▬	▬	▬
< 3300 l/min											▬	▬	▬
< 3600 l/min												▬	▬

*Former U.S. Standard MIL C 4109 1/4". **Technical data for vented safety version may differ from standard version. *** With inlet pressure 6 bar at Δp 0.5).



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