eSafe
The New Generation

– No more need to choose between performance and safety!

www.cejn.com/esa
PROFESSIONAL, HIGH QUALITY AND INNOVATIVE PRODUCTS has been produced by us at CEJN since our first patented top of the line coupling was released in 1955. CEJN is an independent global niche company that have made expansions worldwide and we are proud that we have been able to maintain our roots in the heart of Sweden. We are committed to keep up our high standards of responsibility towards our customers, employees and the environment. “Made in Sweden” is for us a seal of high industrial quality. Add “by CEJN” and you get the assurance of quality and superior performance.

eSafe - THE NEW GENERATION COUPLING
With close to 60 years in business developing, manufacturing and selling products for all types of media to every corner of the world we know what we are doing. When we set the ambition to produce the new generation coupling that is just what we do. LEAN is our business philosophy and with project eSafe we had one goal in mind – eliminate waste for our customers. The patented eSafe coupling has been given the best features on the market with safety function as standard. The new ground breaking coupling gives you an efficient, ergonomic and energy saving product – a new CEJN generation of premium coupling for premium performance.

Content
- ESAFE - Your business is our business
- MADE IN SWEDEN - In cooperation with you
- APPLICATIONS - A multitude of applications
- HIGH FLOW AND LOW PRESSURE DROP
- PRODUCT INFORMATION
No more need to choose between performance and safety!

SAVES MONEY AND PROTECTS THE ENVIRONMENT
At CEJN we believe strongly in reducing our waste and negative impact on the environment. eSafe’s unique patented design does just that. The energy saving and efficient eSafe coupling’s high flow feature requires less compressed air at a lower pressure drop. Resulting in increased efficiency and reduced production time.

HIGH PERFORMING COUPLING WITH SAFETY FUNCTION IN COMPLIANCE TO SAFETY STANDARDS
Safety has been our top priority for many years and our constant strive to develop safe and high performing products finally led us to eSafe. As our customer you no longer have to choose between performance and safety. eSafe is a one hand operated, compact, high flow coupling that vents before disconnection eliminating the risk of hose-whip keeping the operator from harm.

eSafe comply with the international standard ISO 4414 and the European standard EN 983. These standards states that:
• The coupling shall not be forced apart in a hazardous manner
• Compressed air or particles shall not be expelled in a hazardous manner
• A controlled pressure-release system shall be provided where a hazard may exist

In addition eSafe couplings comply with OSHA 1910.95. By being disconnected in two steps the noise level is dramatically reduced.

In other words the function of the quick connect couplings should be safe and predictable for the operator.

eSafe  www.cejn.com/esafe
Made in Sweden

In cooperation with you

SWEDEN IS HOME to a number of old and well-respected high-quality industrial companies, still today in front of development producing state-of-the-art products. CEJN fits that category. We have close to 60 years of experience in the field as well as innovative thinking. Our customers benefit from our unbeatable combination of local presence and global resources. CEJN designers are on the frontier of quick connect technology and are constantly working on new products and innovative solutions. We thrive on taking solutions to the next level in close cooperation with our customers and their specific requirements and needs. Together, we constantly renew and redefine the boundaries of what is possible.

The top of the line features offered in our eSafe range require real craftsmanship and is the only coupling that allows you to get maximum capacity out of your tool. The job is done quicker using less energy and the result is higher productivity, cheaper energy bills and lower environmental impact. Can you afford not to change?

eSafe

Top 5 features

- Highest flow on the market
- Compact design
- Extreme durability
- Vented safety function
- Easy handling

HIGH FLOW
When designing eSafe we made no compromises in performance. We are proud of the fact that eSafe has the highest flow on the coupling market.

EASY HANDLING
eSafe is an ergonomic and one-hand push to connect and disconnect coupling. Other safety couplings usually have several steps. With eSafe, just pull the sleeve out and the coupling will automatically vent before disconnecting.

COMPACT DESIGN
CEJN couplings are known for their compact design. eSafe is no exception. It is the first safety coupling with dimensions like a standard coupling.

EXTREME DURABILITY
eSafe is designed to withstand tough handling in rough work environments in order to have a long service life. Tests have proven that eSafe is extremely durable against impacts, vibrations and swiveling.

SAFETY FUNCTION
Safe vents the downstream pressure before disconnection, reducing the noise level and eliminating the risk of operator injury caused by hose whip.

CONNECTION POSSIBILITIES
We know our products are used in a wide range of applications. That is why our eSafe coupling is available with a wide range of connection possibilities to fit each and every customer need.

www.cejn.com/esafe
Developed for professional use in a multitude of applications

EACH AND EVERY APPLICATION using compressed air is a workplace for eSafe. Whether it is within carpentry, the manufacturing industry, repair shop or mining eSafe provides the operator with a safe, durable and high performing coupling.

eSafe vents the downstream pressure before disconnection reducing noise level and the risk of operator injury during tool change.
A High Flow and low pressure drop

EVERY COMPANY WANTS TO increase its profitability and reduce their expenses. Words like efficiency and cost-saving are always in focus. The difficulty, however, is to transform these words into action. A large production site might not realize how much that can be saved by having regular check ups on their compressed air system. Ask yourself this simple question: Are you providing your tool with the correct pressure?

The most common courses of energy loss in compressed air systems are leakage and pressure drop. Optimize the effect in your system and you will witness an increased production, experience less energy waste and at the end of the year the cost savings will be obvious.

If pressure drop is too high you lose tool performance

Ove Gustafsson

Compressed air is not for free and to get the best economy you need to optimize your system. So, what do you need to achieve an optimized system? With more than 25 years of experience in pneumatics, Ove Gustafsson guides us through the complexity of compressed air step-by-step. Ove is product manager within pneumatics and LEAN coordinator at CEJN.

Ove Gustafsson Product Manager CEJN

How optimized is your system?

Spot your leaks!

Compressed air leaks are more common than you might think and leads to an increased energy consumption as well as it puts stress on the compressor. A 1 mm hole releases 75 litres per minute. They are most commonly found on ceiling pipes, hoses, worn tools, bad or broken couplings and loose hose clamping.

CEJN recommends you to identify the weak spots and to have annual leak seeks.

Save time & money!

To illustrate the benefits with eSafe, we put Series 320 eSafe coupling to the test and compared it to a competitive brand coupling.

Conditions

The test was carried out with wall outlet pressure of 7 Bar and a 5 meter 3/8" hose and two couplings feeding the tool.

Result

It is obvious that by switching to the new generation coupling your work is done in half the time. Cutting work time by approximately 240 minutes a day. * This means you could cut more than 176,000 products a year. Use eSafe and you'll witness an increased productivity.

Don't stress your system!

An air system that runs at a higher pressure will wear out faster and put unnecessary stress on tools. CEJN recommends you to run your system at a lower pressure and use right dimensioned hoses, high flow couplings and an air treatment system (FRL). FRL ensures a smooth, economical operation without interruption and a reliable energy source. By taking all those measures, you will prolong the life of your air system and tools.

Establishing a safe workplace is important in environments where compressed air is used. CEJN recommends you to install CEJN safety products; including couplings, nipples, hose and cable reels and blowguns. Our products were designed with the user in mind for a sustainable, safe and ergonomic workplace.

Work safely!

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www.cejn.com/eesafe

CEJN PNEUMATICS - HIGH FLOW AND LOW PRESSURE DROP

CEJN PNEUMATICS - HIGH FLOW AND LOW PRESSURE DROP
Series 300

**ARO 210 STANDARD**

- **BENELUX, NORTH AMERICA, SWITZERLAND**

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Nominal flow diameter</th>
<th>5.5 mm (7/32&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air flow</td>
<td>1030 mm (37 1/2&quot;)</td>
</tr>
<tr>
<td>Max. working pressure</td>
<td>16 bar (230 PSI)</td>
</tr>
<tr>
<td>Min. burst pressure</td>
<td>140 bar (2030 PSI)</td>
</tr>
<tr>
<td>Connection force</td>
<td>86 N</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-20°C to +100°C (-4°F to +212°F)</td>
</tr>
<tr>
<td>Material coupling</td>
<td>Zinc-plated steel/fbreas</td>
</tr>
<tr>
<td>Material nipple</td>
<td>Hardened zinc-plated steel</td>
</tr>
<tr>
<td>Interchangeable with</td>
<td>Parker Rectus 14/22, Prevost ASI06, Hansen 210, Orion 4415/4451</td>
</tr>
</tbody>
</table>

Series 300 is also available in standard, Soft-Line and Multi-Link versions.

*eSafe* Series 310 offers a wide range of easy-to-grip couplings, including Soft-Line and Stream-Line. Male threads on the couplings and nipples feature pre-applied thread sealant. *eSafe* Series 310 is a vented safety coupling that is disconnected in two stages in order to vent the coupling and minimize the risk of sudden component separation. The coupling is fully automatic to ensure quick and easy handling. *eSafe* series complies with ISO Standard 4414 and EN 983.

Series 310 is also available in standard, Soft-Line and Multi-Link versions.

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Nominal flow diameter</th>
<th>5.3 mm (7/32&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air flow</td>
<td>950 l/min (33.5 CFM)</td>
</tr>
<tr>
<td>Max. working pressure</td>
<td>16 bar (230 PSI)</td>
</tr>
<tr>
<td>Min. burst pressure</td>
<td>140 bar (2030 PSI)</td>
</tr>
<tr>
<td>Connection force</td>
<td>86 N</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-20°C to +100°C (-4°F to +212°F)</td>
</tr>
<tr>
<td>Material coupling</td>
<td>Zinc-plated steel/fbreas</td>
</tr>
<tr>
<td>Material nipple</td>
<td>Hardened zinc-plated steel</td>
</tr>
<tr>
<td>Interchangeable with</td>
<td>Atlas Copco QC8, Parker Rectus 23/24, Parker Tema 1402/1423, Prevost 50/50/50, Foster 303, Qeliker 81, Hansen 3000</td>
</tr>
</tbody>
</table>

Thread connections are listed according to ISO Standards. All measurements are in mm. Check with an authorized CEJN distributor for availability and prices. Please visit our website, www.cejn.com, for general maintenance tips.
Series 315

**ASIAN STANDARD** ASIA, ITALY, SOUTH AMERICA

- Extremely high flow capacity
- One-hand operated
- Safety coupling with extreme durability

**eSafe** Series 315 couplings are lightweight and easy to handle yet strong and durable. It is one hand operated safety coupling that vents before disconnection eliminating the risk of hose whip. The Series includes a wide range of connections. Male threads on the couplings and nipples feature pre-applied thread sealant. Full automatic operation ensures easy handling. eSafe complies with ISO Standard 4414 and EN 983.

Series 315 is also available in standard, Soft-Line and Multi-Link versions.

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**Series 320**

**CEIN ORIGINAL STANDARD, EUROSTANDARD 7.6 (7.4) GLOBAL**

- Vented safety function
- Extremely high flow capacity
- Compact design

**eSafe** Series 320 coupling is an easy-to-handle high performing coupling with a long service life. eSafe is a one hand operated safety coupling that vents before disconnection eliminating the risk of hose whip. Male threads on the couplings and nipples feature pre-applied thread sealant. The couplings have a smaller outside dimension than comparable designs. Full automatic operation ensures easy handling. eSafe complies with ISO Standard 4414 and EN 983.

Series 320 is also available in standard, Soft-Line and Multi-Link versions.

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### TECHNICAL DATA

**Series 315**

- Nominal flow diameter: 7.5 mm (5/32")
- Air flow: 1950 l/min (680 CFM)
- Max. working pressure: 16 bar (230 PSI)
- Min. burst pressure: 140 bar (2020 PSI)
- Connection force: 86 N
- Temperature range: -20°C ~ +100°C (-4°F ~ +212°F)
- Material coupling: Zinc-plated steel/brass
- Material nipple: Hardened zinc-plated steel
- Interchangeable with: Nitto Kohki 20/30/40, Daisen 23 SF/SOF, Parker Rectus 13, Prevost OSG/ORG 08, Harman CHS 03 F

**Series 320**

- Nominal flow diameter: 7.6 mm (5/32")
- Air flow: 2250 l/min (794 CFM)
- Max. working pressure: 16 bar (230 PSI)
- Min. burst pressure: 140 bar (2020 PSI)
- Connection force: 86 N
- Temperature range: -20°C ~ +100°C (-4°F ~ +212°F)
- Material coupling: Zinc-plated steel/brass
- Material nipple: Hardened zinc-plated steel
- Interchangeable with: Parker Rectus 25/26, Parker Tema 1600/1625, Prevost ESC07/ERC07/ES07/ERC07/ES07/EC08, Dabier SC C, Harman Auto-Flo 24

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### Nominal Flow Diameter

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Connection</th>
<th>Part No.</th>
<th>Connection</th>
<th>Part No.</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>103152002</td>
<td>4.2 mm (5/32&quot;)</td>
<td>103152003</td>
<td>5.0 mm (5/32&quot;)</td>
<td>103152004</td>
<td>5.7 mm (7/32&quot;)</td>
</tr>
<tr>
<td>103152005</td>
<td>6.3 mm (1/4&quot;)</td>
<td>103152006</td>
<td>7.0 mm (9/32&quot;)</td>
<td>103152007</td>
<td>7.6 mm (5/32&quot;)</td>
</tr>
<tr>
<td>103152008</td>
<td>8.0 mm (5/32&quot;)</td>
<td>103152009</td>
<td>8.7 mm (7/32&quot;)</td>
<td>103152010</td>
<td>9.4 mm (6/32&quot;)</td>
</tr>
<tr>
<td>103152011</td>
<td>10.0 mm (3/8&quot;)</td>
<td>103152012</td>
<td>10.7 mm (8/32&quot;)</td>
<td>103152013</td>
<td>11.4 mm (2/32&quot;)</td>
</tr>
<tr>
<td>103152014</td>
<td>12.0 mm (1/2&quot;)</td>
<td>103152015</td>
<td>12.7 mm (10/32&quot;)</td>
<td>103152016</td>
<td>13.4 mm (12/32&quot;)</td>
</tr>
</tbody>
</table>

### Hose Connection

- **Erase Vented Safety Coupling**
- **Male Thread Connection**
- **Female Thread Connection**
- **Stream-Line Connection**
- **Soft-Line Connection**

### Nipples

- **Male Thread**
- **Female Thread**
- **Stream-Line Connection**
- **Soft-Line Connection**

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Flow capacity is measured at 6 bar (87 PSI) inlet pressure, and pressure drop at 0.5 bar (7 PSI).
Series 410

**CEJN ORIGINAL STANDARD, EUROSTANDARD 10.4 GLOBAL**

- Extremely high flow capacity
- Strong and durable
- Compact design

eSafe Series 410 is a safety coupling based on CEJN Series 410, a CEJN original and European standard. The Series is one-hand operated and offers long service life. It is a one hand operated safety coupling that vents before disconnection eliminating the risk of hose whip. The fully automatic operation ensures quick and easy handling. It complies with ISO Standard 4414 and EN 983 and has a steel front part as standard. Series 410 is also available as standard couplings.

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Nominal flow diameter</th>
<th>10.4 mm (5/32&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air flow</td>
<td>4000 l/min (141.2 CFM)</td>
</tr>
<tr>
<td>Max. working pressure</td>
<td>16 bar (230 PSi)</td>
</tr>
<tr>
<td>Min. burst pressure</td>
<td>140 bar (2030 PSi)</td>
</tr>
<tr>
<td>Connection force</td>
<td>140 N</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-20°C – +100°C (-4°F – +212°F)</td>
</tr>
<tr>
<td>Material coupling</td>
<td>Zinc-plated steel</td>
</tr>
<tr>
<td>Material nipple</td>
<td>Hardened zinc-plated steel</td>
</tr>
</tbody>
</table>

Interchangeable with Parker Rectus 27, Parker Terna 1700/1727, Parker PEF (52/13)

Flow capacity is measured at 6 bar (87 PSi) inlet pressure, and pressure drop at 0.5 bar (7 PSi).

**MAX. WORKING PRESSURE**

<table>
<thead>
<tr>
<th>Connection</th>
<th>Max. working pressure</th>
<th>Min. burst pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>G 1/2&quot;</td>
<td>16 bar (230 PSi)</td>
<td>64 bar (930 PSi)</td>
</tr>
<tr>
<td>G 3/8&quot;</td>
<td>16 bar (230 PSi)</td>
<td>64 bar (930 PSi)</td>
</tr>
<tr>
<td>G 1/4&quot;</td>
<td>16 bar (230 PSi)</td>
<td>64 bar (930 PSi)</td>
</tr>
<tr>
<td>G 3/4&quot;</td>
<td>16 bar (230 PSi)</td>
<td>64 bar (930 PSi)</td>
</tr>
</tbody>
</table>

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Media</th>
<th>Hose material</th>
</tr>
</thead>
<tbody>
<tr>
<td>G 1/2&quot; Female thread</td>
<td>Ester-based polyurethane reinforced with polyester fiber</td>
</tr>
</tbody>
</table>

**Multi-Link Systems**

- Compact multiple outlets
- Ready-made units, no assembly necessary
- Safety function to reduce noise and prevent recoil accidents

The Multi-Link integrated quick connect couplings come in units of 2 and 3 outlets. The units can also easily be connected to create more access points. Ideal for undisturbing existing work areas or to create new flexible work stations. The integrated couplings provide flexibility and high performance, the design allows for a large number of outlets without restricting the flow with T-connections, bends or elbows. Combine with our high quality polyurethane hose to create a flexible high performance air distribution system.

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Max. working pressure</th>
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</tr>
</thead>
<tbody>
<tr>
<td>16 bar (230 PSi)</td>
<td>64 bar (930 PSi)</td>
</tr>
</tbody>
</table>

**Adapters – Stream-Line Connections**

**TECHNICAL DATA**

| Material | Plated brass |

**Straight Hose – Braided**

**TECHNICAL DATA**

| Hose material | Ester-based polyurethane reinforced with polyester fiber |

<table>
<thead>
<tr>
<th>ID x OD</th>
<th>Part No.</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 x 16 mm</td>
<td>199581615</td>
<td>R 1/2&quot;</td>
</tr>
<tr>
<td>13 x 18 mm</td>
<td>199581815</td>
<td>R 1/2&quot;</td>
</tr>
</tbody>
</table>

**Straight Hose – Braided**

**TECHNICAL DATA**

| Hose material | Ester-based polyurethane reinforced with polyester fiber |

<table>
<thead>
<tr>
<th>ID x OD</th>
<th>Total length</th>
<th>Part No.</th>
<th>Max working pressure</th>
<th>Burst pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 x 16 mm</td>
<td>100 m</td>
<td>199581600</td>
<td>12 bar (170 PSi)</td>
<td>48 bar (696 PSi)</td>
</tr>
<tr>
<td>13 x 18 mm</td>
<td>50 m</td>
<td>199581601</td>
<td>12 bar (170 PSi)</td>
<td>48 bar (696 PSi)</td>
</tr>
<tr>
<td>13 x 18 mm</td>
<td>50 m</td>
<td>199581801</td>
<td>10 bar (150 PSi)</td>
<td>48 bar (696 PSi)</td>
</tr>
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</table>

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Complete Your eSafe coupling with Other Safety Products from CEJN

A first and foremost concern must be safety in our workplace. Establishing a safe place to work is particularly important in environments in which compressed air systems are used. Because these systems are extremely forceful, implementing safety awareness programs and taking all necessary measures to prevent accidents are critical.

CEJN Air & Fluid Guns
CEJN’s Series 208 Blowgun and 210 MultiFLOW has a valve package that enables it to handle both air and non-explosive fluids. The blowgun is offered in several styles, including standard full-flow, noise-reducing Star-Tip and a pressure-regulated safety version. Various tubes and nozzles are available to meet specific application requirements.

CEJN Hose & Cable Reels
- **Hose reels for compressed air**: Available in several casing sizes and hose dimensions. Features high-quality, oil-resistant polyurethane hose and enclosed casing for longer service life.
- **Hose reels for water**: Also ideal for compressed air applications in damp and wet environment. Features high-quality, oil-resistant polyurethane hose and enclosed casing for longer service life.
- **Cable reels for electricity**: Available in two casing sizes. Features a thermal overload protection circuit. The cable is high made of high quality rubber. Available with schuko or CH plugs. CEJN cable reels are CE marked.

Hoses and Hose Kits
CEJN Hoses and Hose Kits have extremely smooth internal surfaces, which contribute to a high flow rate. A polyurethane, thin-wall design increases the flow rate even more.