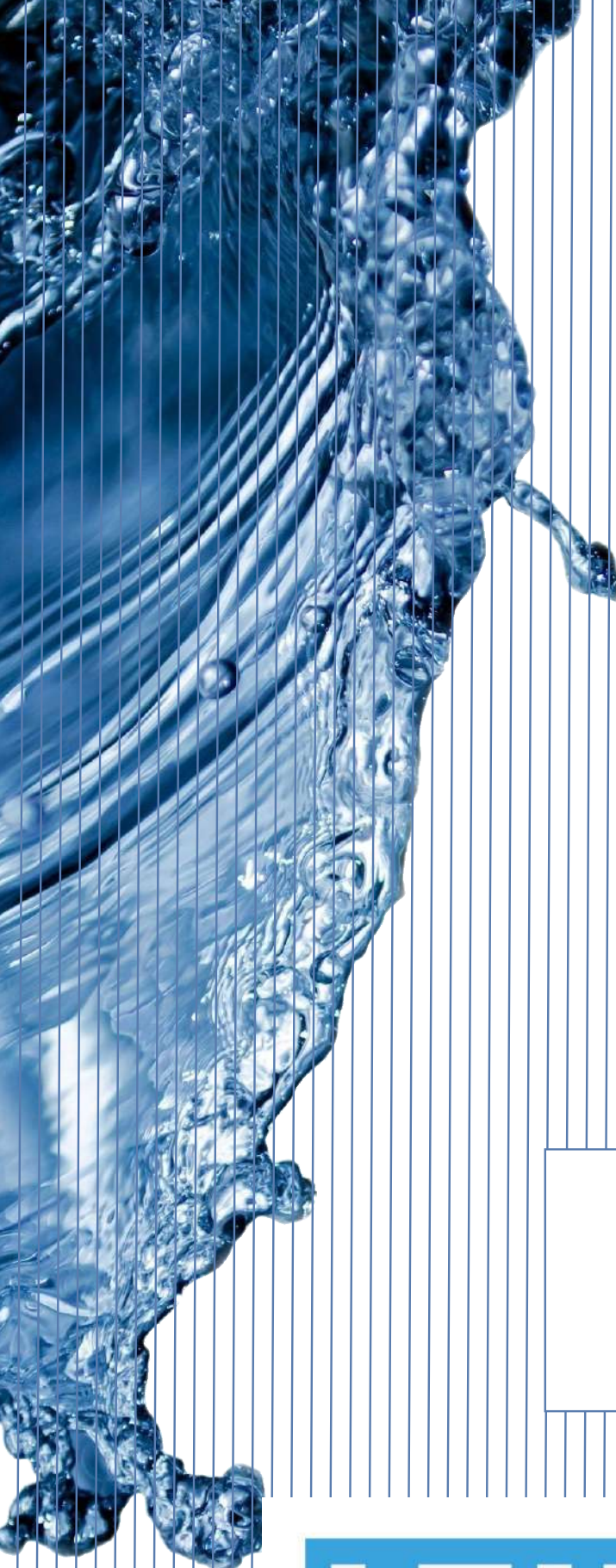




CEJN
Hydraulic Couplings
Ultra High-Pressure

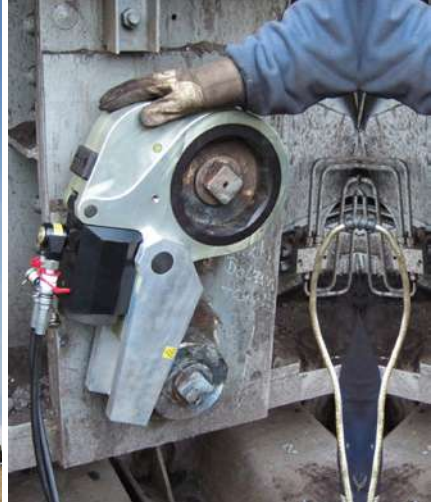


 HYDRAULIC
COMPONENTS
& FLUID CONTAMINATION
CONTROL



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Ultra High-Pressure Hydraulic Products

Combining top class technology, safety focus and responsiveness to stay one step ahead

CEJN has provided the world with top quality ultra high-pressure products for more than five decades. Our ultra high-pressure experience shows that extreme pressures require extreme safety and that is why we put our finished product through extensive testing before reaching the customer. Whether the application is nuclear, subsea, wind power, oil, gas or turbine CEJN is committed to meet the ever-changing requirement. Our wide range of ultra high-pressure couplings and hoses includes just what you need for a smooth and safe work environment with pressures of up to 400 MPa (58 000 PSI).

ULTRA HIGH-PRESSURE ASSEMBLIES – PRODUCED TO YOUR SPECIFIC REQUIREMENTS

To ensure safety and facilitate work, CEJN offers a wide range of pre-assembled hose assemblies pressure tested and ready to use. The many hoses, all with different pressure ratings, are a perfect choice for most applications. Each assembled kit is cut to your preferred length, fitted with one of our large range of fittings and ultra high-pressure couplings. Our toughest hose has a maximum pressure up to 400 MPa (58 000 PSI). If CEJN cannot do it, nobody can.

QUICK-ACTION SAFETY LOCK

Our newest feature is the quick and smooth locking ring giving extended security to your connection. Screw locks are sometimes considered by users to be time consuming and left unscrewed. With The Next Generation unintentional disconnection is practically eliminated, just a quick twist of the bayonet lock and your hydraulic coupling is secured!



Series 115

100 MPa

- Quick-action safety lock eliminates any risk of accidental disconnection
- Non-drip on connection and disconnection
- Dust caps included as standard
- Unique sealing design
- Nipple with hose rupture valve available

DN 2.5 mm (3/32"). Flow capacity of 6.0 l/min (1.32 GPM UK). Max working pressure 100 MPa. Made of hardened zinc chromate plated steel.



Series 115

Flat Face 80 MPa

- Flat-face design
- Non-drip on connection and disconnection
- Dust caps included as standard
- One-hand operated
- Automatic safety locking device
- Light weight design with an aluminum back-part
- Connects with nipple series 115 standard

DN 2.5 mm (3/32"). Flow capacity of 5.3 l/min (1.2 GPM UK). Max working pressure 80 MPa. Made of hardened zinc chromate plated steel/aluminum.



Series 115

High-Flow 80 MPa

- Flat-face design
- Non-drip on connection and disconnection
- Dust caps included as standard
- One-hand operated
- Automatic safety locking device

DN 4 mm (5/32"). Flow capacity of 11 l/min (2.4 GPM UK). Max working pressure 80 MPa. Made of hardened zinc chromate plated steel.



Series 116

150 MPa

- Quick-action safety lock eliminates any risk of accidental disconnection
- Compact design with small outer dimensions
- Non-drip on connection and disconnection
- Dust caps included as standard

DN 2.5 mm (3/32"). Flow capacity of 6.0 l/min (1.3 GPM UK). Max working pressure 150 MPa. Made of hardened zinc chromate plated steel.



Series 116 Stainless Steel**150 MPa**

- Quick-action safety lock eliminates any risk of accidental disconnection
- Compact design with small outer dimensions
- Non-drip on connection and disconnection
- Stainless steel
- Connects with other series 116 products
- Unique sealing design
- Dust caps included as standard

DN 2.5 mm (3/32"). Flow capacity of 6.0 l/min (1.3 GPM UK). Max working pressure 150 MPa. Made of Stainless steel.

**Series 116****Flat-Face 150 MPa**

- Flat-face design
- Non-drip on connection and disconnection
- Dust caps included as standard
- One-hand operated
- Automatic safety locking device
- Connects with nipple series 116 standard

DN 2.5 mm (3/32"). Flow capacity of 5.3 l/min (1.16 GPM UK). Max working pressure 150 MPa. Made of hardened zinc chromate plated steel.

**Series 116****T-Connection 150 MPa**

- One-piece design
- Lightweight, compact
- Cost-effective

Series 116 T-Connection is a lightweight, one-piece coupling and nipple combination for making serial connections on high-pressure hydraulic tools, such as bolt tensioners and cylinders

**Series 117****100 MPa**

- Quick-action safety lock eliminates any risk of accidental disconnection
- Compact design with small outer dimensions
- Non-drip on connection and disconnection
- Unique sealing design
- Dust caps included as standard

DN 2.5 mm (3/32"). Flow capacity of 6.0 l/min (1.3 GPM UK). Max working pressure 100 MPa. Made of hardened zinc chromate plated steel.

**Series 125****250 MPa**

- Quick-action safety lock eliminates any risk of accidental disconnection
- Compact design with small outer dimensions
- Non-drip on connection and disconnection
- High working pressure
- Unique sealing design
- Dust caps included as standard

DN 2.5 mm (3/32"). Flow capacity of 5.8 l/min (1.3 GPM UK). Max working pressure 250 MPa. Made of hardened zinc chromate plated steel.



Take Control Of Your Safety

– With CEJN Identification System for Ultra High-Pressure Hydraulics



IMPROVE YOUR SAFETY WITH CEJN CIS

TAKE CONTROL OF YOUR ULTRA HIGH-PRESSURE HYDRAULIC HOSE KITS.

Working with ultra high-pressure hydraulics if not handled properly can be dangerous, so it is vitally important to eliminate risk as far as possible.

When using ultra high-pressure products from CEJN, you can rest assured that you have made a safe choice, as we work on safety throughout the entire production chain using our knowledge gained from 50 years of experience.



Read more at: www.cejn.com/cis

Series 135

300 MPa

- Extremely high working pressure
- Non-drip on connection and disconnection
- Built-in safety device to avoid unintentional disconnection
- High safety factor
- Individual pressure tested up to max. working pressure before delivery
- Dust caps included as standard

DN 2.5 mm (3/32"). Flow capacity of 4.6 l/min (1.0 GPM uk). Max working pressure 300 MPa. Made of hardened black finished steel.



Series 218

100 MPa

- Small external dimensions
- Extremely high-flow capacity
- High working pressure
- Compact design
- Unique sealing design
- Non-drip on connection and disconnection
- Built-in safety device to avoid unintentional disconnection
- Dust caps included as standard

DN 4.5 mm (11/64"). Flow capacity of 15 l/min (3.3 GPM UK). Max working pressure 100 MPa. Made of hardened zinc chromate plated steel.



Series 140

400 MPa

- Non-drip on connection and disconnection
- Built-in safety device to avoid unintentional disconnection
- High safety factor, can withstand 600MPa
- Individual pressure tested up to max. working pressure before delivery
- Dust caps included as standard

DN 2.5mm (3/32"). Flow capacity 4.6l/min (1.0GPM UK). Max working pressure 400MPa. Made of hardened black finished steel.



Series 232

DN 6.3

- High-flow capacity
- Possible to connect under pressure
- Dust caps available
- According to ISO 14540

DN 6.3 mm (1/4"). Flow capacity of 16.1 l/min (3.5 GPM UK). Max working pressure 72 MPa (10 400 PSI). Made of zinc plated steel. Screw-to-connect couplings.

DN 10 Ball and Poppet type

- High-flow capacity
- Possible to connect under pressure
- Dust caps available
- According to ISO 14540

DN 10 mm (3/8"). Max working pressure 72 MPa (10 400 PSI). Made of zinc plated steel. Screw-to-connect couplings. Ball type: Flow capacity of 21.2 l/min (4.7 GPM UK). Poppet type: Flow capacity of 40 l/min (8.8 GPM UK).



Hand Pump, 70MPa

- Robust aluminium body with balanced handle
- Two stage high and low volume cylinder, reducing usage time
- Automatic spill free venting valve, no need to turn the valve to operate or to secure
- Large 1 liter oil tank capacity with easy-to-access filling point
- Double acting ready (available as an accessory)
- Pressure gauge kit (available as an accessory)

70MPa hand pump with a two stage cylinder and an automatic spill free venting valve to increase pumping efficiency.



Stainless Steel Range - Adapters

Stainless Steel Range HP (over 20k to 60k PSI)

CEJN's Stainless Steel HP range focuses on high-pressure accessories that operate safely and reliably at pressures up to 60k PSI (414MPa). Sizes are primarily based on 1/4", 3/8" and 9/16" tubes sizes, with additional sizes available upon request. Machined from acid resistant 316L stainless steel, these adapters, porting blocks, collars, and gland nuts will provide dependable service in the most extreme applications and are fully traceable. Designed and manufactured for use in traditional high-pressure applications, these components follow industry standard thread types and tolerances found in incumbent high-pressure valves, fittings and tubing.



Stainless Steel Range MP (up to 20k PSI)

CEJN's Stainless Steel MP range focuses on high-pressure accessories that operate safely and reliably at pressures up to 20k PSI (138MPa). Sizes are primarily based on 1/4", 3/8", 9/16" and 1" tubes sizes, with additional sizes available upon request. Machined from acid resistant 316L stainless steel, these adapters, porting blocks, collars, and gland nuts will provide dependable service in the most extreme applications and are fully traceable. Designed and manufactured for use in traditional high-pressure applications, these components follow industry standard thread types and tolerances found in incumbent high-pressure valves, fittings and tubing.



Stainless Steel Range LP (up to 15k PSI)

CEJN's Stainless Steel LP range focuses on high-pressure accessories that operate safely and reliably at pressures up to 15k PSI (103MPa). Sizes are primarily based on MP and HP 1/4", 3/8", 9/16" and 1" tubes sizes, together with JIC and NPT standards. Machined from acid resistant 316L stainless steel, these adapters, collars, and gland nuts will provide dependable service in the most extreme applications and are fully traceable. Designed and manufactured for use in traditional high-pressure applications, these components follow industry standard thread types and tolerances found in incumbent high-pressure valves, fittings and tubing.



Accessories

950 CEJN Porting Blocks - 300 MPa

CEJN's porting blocks make it possible to utilise/connect several hydraulic lines from a single pump to numerous tools as well as the possibility of connecting a pressure gauge. The blocks are available in different sizes and designs with a varying number of ports.



950 High-Pressure Hydraulic Adapters

CEJN provides an extensive range of high-pressure hydraulic adapters suitable for most couplings and hoses. All adapters are manufactured from black-zinc plated or stainless steel. Working pressure varies from 100 MPa to 300 MPa, see product table for data on respective adapters.



940 CEJN Pressure Gauges- up to 550 MPa

Bottom and panel mounted pressure gauges in models up to 5500 bar (550 MPa). All models are glycerine filled for improved performance and long life. The gauges are made of stainless steel and feature high accuracy and a long service life.



950 High-Pressure Seals - up to 150 MPa

CEJN's high-pressure range includes several rubber metal seals designed to complement the high-pressure hydraulic couplings and nipples. Max working pressure range from 100 to 150 MPa.



Hose Assemblies



The CEJN Ultra High-Pressure hose is a spiralized steel reinforced polymer hose that picks up where conventional product capabilities stop. It gives you ultra-high working pressure with maintained flexibility through entire life. Its low volumetric expansion gives fast response time in hydraulic systems while the smooth inner bores provide a minimized pressure drop. A long-lasting service time and extended hose life in even the toughest applications is a result of the kink-resistant steel-reinforced construction, abrasion-resistant covers and a superior chemical resistance. The small outside diameter makes the hose ideal for tight routing.



	70 MPa (DN 6) Non-conductive	70 MPa (DN 6) CEJN 060	70 MPa (DN 6)	70 MPa (DN 10)	72 MPa (DN 6)	100 MPa (DN 6)
Reinforcement	Two layers of braided high tensile aramid fibre	2 steel layers	2 steel + 2 synthetic layers	4 steel layers	4 steel layers	4 steel layers
Outer cover	TPU	Thermoplastic Polyurethane (TPU)	Thermoplastic Polyurethane (TPU)	Thermoplastic Polyurethane (TPU)	Thermoplastic Polyurethane (TPU)	Thermoplastic Polyurethane (TPU)
Inner tube	Polyamide 11 electrically non-conductive	Polyamide (PA)	Polyamide (PA)	Polyamide (PA)	Polyamide (PA)	Polyamide (PA)
ID x OD	6.4 x 13.8 mm	6.45 x 11.6 mm	6.4 x 12.5 mm	9.8 x 17.9 mm	6.4 x 12.5 mm	6.4 x 13.4 mm
Max. working pressure	70.0 MPa	70.0 MPa	70.0 MPa	70.0 MPa	72.0 MPa	100.0 MPa
Min. burst pressure	276.0 MPa	175.0 MPa	186.0 MPa	230.0 MPa	288.0 MPa	320.0 MPa
Min. bend radius	100 mm (3.9")	70 mm (2.8")	70 mm (2.8")	120 mm (4.7")	70 mm (2.8")	80 mm (3.1")
Weight	140 g/m (4.9 oz)	170 g/m (6.0 oz)	190 g/m (6.7 oz)	440 g/m (15.5 oz)	250 g/m (8.8 oz)	300 g/m (10.6 oz)
Temperature range	-40°C – +55°C (-40°F – +131°F)	-10°C – +80°C (14°F – +176°F)	-40°C – +100°C (-40°F – +212°F)	-40°C – +100°C (-40°F – +212°F)	-40°C – +100°C (-40°F – +212°F)	-40°C – +100°C (-40°F – +212°F)



	140 MPa (DN 4)	150 MPa (DN 4)	150 MPa (DN 5)	180 MPa (DN 5)	250 MPa (DN 5)	300 MPa (DN 4)	400 MPa (DN 5)
Reinforcement	2 spiral layers and 2 open spiral layers of ultra-high tensile steel wire	2 spiral layers of ultra-high tensile steel wire	2 steel layers	4 steel layers	6 steel layers	6 steel layers	8 spiral layers of maximum tensile steel wire
Outer cover	Polyurethane	Polyamide	Polyamide (PA)	Polyamide (PA)	Polyamide (PA)	Polyamide (PA)	Polyimide (PA)
Inner tube	Polyamide (PA)	Polyoxymethylene (POM)	Polyoxymethylene (POM)	Polyoxymethylene (POM)	Polyoxymethylene (POM)	Polyoxymethylene (POM)	Polyoxymethylene (POM)
ID x OD	4,0 x 9,7 mm	4,0 x 7,9 mm	4,9 x 9,5 mm	4,8 x 11,6 mm	4,8 x 12,9 mm	3,9 x 12,0 mm	4,6 x 15,0 mm
Max. working pressure	140.0 MPa	150.0 MPa	150.0 MPa	180.0 MPa	250.0 MPa	300.0 MPa	400.0 MPa
Min. burst pressure	350.0 MPa	375.0 MPa	375.0 MPa	450.0 MPa	625.0 MPa	700.0 MPa	800.0 MPa
Min. bend radius	55 mm (2.2")	75 mm (3.0")	95 mm (3.7")	130 mm (5.1")	175 mm (6.9")	140 mm (5.5")	200 mm (7.9")
Weight	160 g/m (5.6 oz)	110 g/m (3.9 oz)	140 g/m (4.9 oz)	280 g/m (9.9 oz)	410 g/m (14.4 oz)	290 g/m (10.2 oz)	633 g/m (22.3 oz)
Temperature range	-10°C – +70°C (14°F – +158°F)	-10°C – +70°C (14°F – +158°F)	-10°C – +70°C (14°F – +158°F)	-40°C – +100°C (-40°F – +212°F)	-40°C – +100°C (-40°F – +212°F)	-40°C – +100°C (-40°F – +212°F)	-10°C – +70°C (14°F – +158°F)

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