

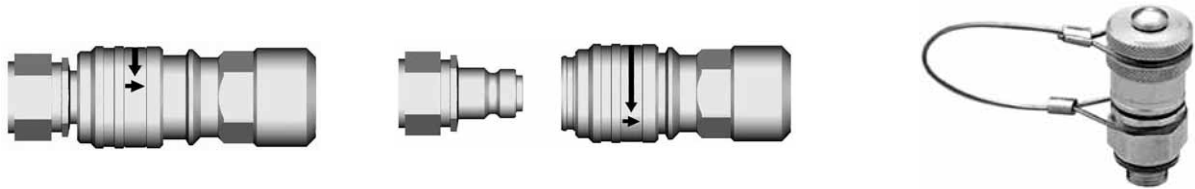
# HIGH PRESSURE - UHP equipment

## Quick release couplings

The series is specially designed for ultra-high pressure. The diversity of this product range enables using the couplings even in the most demanding applications. These couplings are made of hardened steel to ensure longer service life. They are compact and easy to connect. The unique design of these couplings minimizes possible fluid leakage and prevents air inclusion so that it enables keeping the coupling clean. Blank plugs that are provided with the couplings as a standard provide additional protection from dirt. Versions with a safety locking ring preventing accidental disconnection are available on request.

### Flat-Face series

The Flat-face, dry-brake series has been developed to meet the rigorous demands of ultrahigh pressure hydraulic applications. It is easier to control the cleanliness of a connecting surface as it is flat. Moreover the series is designed for one hand operation. It is enough to push the plug into the socket without any positioning. The plug is automatically locked in the socket. In order to disconnect the socket turn the locking sleeve by 30° and then pull it backwards to release the plug. The unique blank plug design with an integrated pressure eliminator is a solution to a problem of residual pressure that is sometimes present on the plug side, making it difficult to connect with the socket. By pressing the button on the blank plug, the internal pressure can be easily relieved and the plug can be pushed in into the socket without any problems.



### Sealing for threaded connection of a coupling with hose assembly or hydraulic system

type of sealing	application
metal - metal sealing 120° cone	For the pressure of 700 bar and above, the use of 120° cone sealing is recommended. The cone allows to achieve very good sealing properties at low tightening torque so the quick release couplings can be reassembled many times without any risk of damage to the sealing surfaces.
rubber - metal seals	Rubber - metal seals can be used for parallel thread or other components with appropriate sealing surface (flat surface). Rubber - metal seals are not recommended for pressures above 1000 bar.
liquid sealant or paste sealant	It is recommended to use liquid or paste sealant for NPT or BSPT threads. Sealing tape (e.g. PTFE tape) should be avoided as it may damage components during tightening or cause system malfunction if it accidentally enters the hydraulic system.

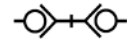
### Proper selection and handling of a quick release coupling

In order to choose a quick release coupling properly for certain application and to be sure that it is going to function faultlessly, we should:

- Account for the working pressure of a quick release coupling, flow rate and pressure drop as well as the type of sealing.
- Consider protection against accidental disconnection.
- Do not connect couplings under pressure.
- Keep the quick release coupling clean (wipe off the surface of the socket and plug before each connection).
- Use blank plugs and caps whenever the socket and plug are separated as they protect the quick release couplings against dirt and debris. It is important to wipe the socket and plug clean each time before putting the blank plugs and caps on. The blank plug and cap should be connected whenever the coupling is connected.
- Check the condition of the plug, socket and sealing on regular basis - replace them, if necessary.

# HIGH PRESSURE - UHP equipment





## Quick release couplings



### CEJN 115 series TEMA 1000 series

**Material:** Hardened, zinc-plated steel  
**Seal:** NBR  
**Flow rate:** 6 l/min. ( $\Delta p = 4$  bar)  
**Nominal diam.:** 2.5 mm  
**Working press.:** 1000 bar (connected coupling)  
**Bursting press.:** 2600 bar (CEJN)  
 3000 bar (TEMA)  
**Working temp.:** From -30°C up to +100°C

Double shut-off hydraulic quick release coupling designed for ultra-high pressure systems. Used in crimping machines, rescue equipment, jacks, cutters, etc. The socket is available with a safety locking ring preventing accidental disconnection as an option. Both sockets and plugs are supplied with blank plugs and caps as a standard.

picture	CEJN code	TEMA code	thread size	sealing	spanner [mm]	L [mm] ( $\pm 2$ mm)	D [mm] ( $\pm 2$ mm)
	CJ-HP-101151102	-	1/4" BSPT	-	24	59	28
	CJ-HP-101151104	-	3/8" BSPT	-		61	
	CJ-HP-101151201	-	1/8" BSP	1)		54	
	CJ-HP-101151202	TA-H-HP10104131	1/4" BSP	4)		60	
	CJ-HP-101151204	TA-H-HP10104171	3/8" BSP	3)		61	
	CJ-HP-101151222*	TA-H-HP10104132*	1/4" BSP	4)		60	
	-	TA-H-HP10104172*	3/8" BSP	3)		59	27
	CJ-HP-101151401	-	1/8" NPT	-		54	28
	CJ-HP-101151402	TA-H-HP10105131	1/4" NPT(F)	-		59	
	CJ-HP-101151404	TA-H-HP10105171	3/8" NPT(F)	-		60	
	CJ-HP-101151422*	TA-H-HP10105132*	1/4" NPT(F)	-		59	
	-	TA-H-HP10105172*	3/8" NPT(F)	-		59	
-	-	-	-	-	-	-	
	CJ-HP-101151252	-	1/4" BSP	2)	24	61	28
	CJ-HP-101151254	-	3/8" BSP	3)		62	
	CJ-HP-101151452	-	1/4" NPT	-		-	
	CJ-HP-101151454	-	3/8" NPT	-		-	
	CJ-HP-101156102	-	1/4" BSPT	-	22	37	25
	CJ-HP-101156104	-	3/8" BSPT	-	24	38	28
	CJ-HP-101156201	-	1/8" BSP	1)	17	33	20
	CJ-HP-101156202	TA-H-HP1020413	1/4" BSP	4)	22	38	26
	CJ-HP-101156204	TA-H-HP1020417	3/8" BSP	3)	24		
	CJ-HP-101156401	-	1/8" NPT	-	17	33	20
	CJ-HP-101156402	TA-H-HP1020513	1/4" NPT(F)	-	22	36	26
	CJ-HP-101156404	TA-H-HP1020517	3/8" NPT(F)	-	24	37	
	CJ-HP-101156152	-	1/4" BSPT	-	22	63	26
	CJ-HP-101156154	-	3/8" BSPT	-		50	
	CJ-HP-101156212	-	1/4" BSP	2)		52	
	CJ-HP-101156272**	-	1/4" BSP	2)		52	
	CJ-HP-101156452	-	1/4" NPT	-		62	
	CJ-HP-101156454	-	3/8" NPT	-		-	
	-	-	-	-		-	

\*) with safety locking ring

\*\*) with safety valve

1) metal-rubber seal CJ-HP-199500061

2) metal-rubber seal CJ-HP-199500062

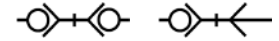
3) metal-rubber seal CJ-HP-199500064

4) cone 120°

CEJN code	TEMA code	description	colour
CJ-HP-091151005	TA-H-HP16	socket blank plug PVC	blue
CJ-HP-091151057	TA-H-HP26	plug blank cap PVC	
CJ-HP-091151004	-	socket blank plug PVC	black
CJ-HP-091151055	-	plug blank cap PVC	
CJ-HP-091151002	-	socket blank plug PVC	red
CJ-HP-091151053	-	plug blank cap PVC	

# HIGH PRESSURE - UHP equipment




## Quick release couplings



### CEJN 116 series TEMA 1500 series

**Material:** Hardened, zinc-plated steel  
**Seal:** NBR  
**Flow rate:** 6 l/min. ( $\Delta p = 4$  bar)  
**Nominal diam.:** 2.5 mm  
**Working press.:** 1500 bar (connected coupling)  
**Bursting press.:** 3000 bar (CEJN)  
 3500 bar (TEMA)  
**Working temp.:** From -30°C up to +100°C

Double shut-off hydraulic quick release coupling designed for ultra-high pressure systems. Used in crimping machines, rescue equipment, jacks, cutters, etc. The socket is available with a safety locking ring preventing accidental disconnection as an option. Both socket and plugs are supplied with blank plugs and caps as a standard.

picture	CEJN code	TEMA code	thread size	sealing	spanner [mm]	L [mm] ( $\pm 2$ mm)	D [mm] ( $\pm 2$ mm)	
	CJ-HP-101161201	-	1/8" BSP	1)	24	54	28	
	CJ-HP-101161202	TA-H-HP15104131	1/4" BSP	5)		60		
	CJ-HP-101161222 a)	TA-H-HP15104132 a)	1/4" BSP	5)		60		
	CJ-HP-101161230 c)	-	1/4" BSP	2)	28	67	35	
	CJ-HP-101161246 a) b)	-	1/4" BSP	2)	24	61	28	
	CJ-HP-101161250 c), f)	-	1/4" BSP	5)	22	66		
	CJ-HP-101161280 b)	-	1/4" BSP	5)	24	61		
	-	TA-H-HP15104171	3/8" BSP	3)		59		28
	-	TA-H-HP15104172 a)	3/8" BSP	3)				
	CJ-HP-101161402	TA-H-HP15105131	1/4" NPT(F)	-	24	59		
	CJ-HP-101161422 a)	TA-H-HP15105132 a)	1/4" NPT(F)	-				
	-	TA-H-HP15105171	3/8" NPT(F)	-				
-	TA-H-HP15105172 a)	3/8" NPT(F)	-	-	-	-		
	CJ-HP-101166201	-	1/8" BSP	1)	17	33	20	
	CJ-HP-101166202	TA-H-HP1520413	1/4" BSP	5)	22	38	25	
	CJ-HP-101166241 d)	-	1/4" BSP	5)		37		
	CJ-HP-101166402	TA-H-HP1520513	1/4" NPT(F)	-		37		
	CJ-HP-101165252 e)	-	1/4" BSP	4)	22	41	25	

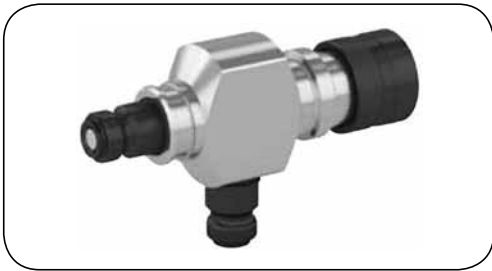
- a) with safety locking ring
- b) made of stainless steel
- c) with angular connection
- d) valve made of stainless steel
- e) plug without valve
- f) 360° rotation

- 1) metal-rubber seal CJ-HP-199500061
- 2) metal-rubber seal CJ-HP-199500083
- 3) metal-rubber seal CJ-HP-199500064
- 4) copper washer CJ-HP-099504600
- 5) 120° cone seal

CEJN code	TEMA code	description	colour
CJ-HP-091151005	TA-H-HP16	socket blank plug PVC	blue
CJ-HP-091151057	TA-H-HP26	plug blank cap PVC	
CJ-HP-091151004	-	socket blank plug PVC	black
CJ-HP-091151055	-	plug blank cap PVC	
CJ-HP-091151002	-	socket blank plug PVC	red
CJ-HP-091151053	-	plug blank cap PVC	

# HIGH PRESSURE - UHP equipment

## Quick release couplings



### CEJN 116 series - adapters

**Material:** Hardened zinc-plated steel  
**Seal:** NBR  
**Flow rate:** 6 l/min. ( $\Delta p = 4$  bar)  
**DN:** 2.5 mm  
**Working press.:** 1500 bar  
**Working temp.:** From -30°C up to +100°C

Hydraulic adapters intended for ultra-high pressure installations. 116 series quick release coupling is designed to be the core of the construction. Particularly recommended for bolt tensioners, actuators and other applications that require connection of several hose assemblies simultaneously. The application of adapters reduces the risk of leakage and facilitates installation, compared to standard solutions (a combination of porting blocks, washers, threaded adapters and quick release couplings). Safety factor 2:1.

picture	code	L [mm]	D [mm]	picture	code	L [mm]	D [mm]
	CJ-HP-101163166	103	62		CJ-HP-101163111	149	89
	CJ-HP-101163116	121	89		CJ-HP-101163616	94	89
	CJ-HP-101163161	149	62		CJ-HP-101163666	94	62



### CEJN 115 FF series

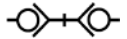
**Material:** Hardened zinc-plated steel, aluminium  
**Seal:** NBR  
**Flow rate:** 5.3 l/min. ( $\Delta p = 4$  bar)  
**Working press.:** 800 bar (connected coupling)  
**Bursting press.:** 2800 bar  
**Working temp.:** From -30°C up to +100°C

Double shut-off hydraulic quick release coupling designed for ultra-high pressure systems. For one hand operation. The unique flat surface face between socket and plug ensures dry-brake disconnection and prevents air inclusion. Lightweight design makes it a perfect choice for applications where weight is of highest importance. Highly recommended for rescue equipment, hydraulic tools and testing equipment. The 115 FF type socket can be connected to the standard 115 series type plug.

picture	code	DN [mm]	thread size	thread seal	spanner [mm]	L [mm]	D [mm]	weight [g]
Socket - female thread 	CJ-HP-101151200	2.5	1/4" BSP	rubber-metal seal	24	70.1	30	170

# HIGH PRESSURE - UHP equipment




## Quick release couplings



### CEJN 115 FF series - high flow

**Material:** Hardened zinc-plated steel  
**Seal:** NBR  
**Flow rate:** 11 l/min. ( $\Delta p = 4$  bar)  
**Working press.:** 800 bar  
**Bursting press.:** 2400 bar  
**Working temp.:** From -30°C up to +100°C

Double shut-off, hydraulic quick release coupling designed for ultra-high pressure systems. Designed for one hand operation. The unique flat surface of a face between a socket and a plug ensures dry-brake disconnection and prevents air inclusion. Highly recommended for hydraulic tools demanding high flow rates. supplied with dust caps as a standard.



picture	code	DN [mm]	thread size	thread seal	spanner [mm]	L [mm]	D [mm]
Socket - female thread 	CJ-HP-101152202	4	BSP 1/4"	120° cone	24	75.8	30
	CJ-HP-101152402		NPT 1/4"	-		72.8	
Socket - male thread 	CJ-HP-101152452		NPT 1/4"	-		74.3	
Plug - female thread 	CJ-HP-101157002		BSP 1/4"	120° cone	22	38	24.7
	CJ-HP-101157402	NPT 1/4"	-	35.7			



### CEJN 116 FF series

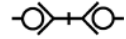
**Material:** Hardened zinc-plated steel  
**Seal:** NBR  
**Flow rate:** 5.3 l/min. ( $\Delta p = 4$  bar)  
**Working press.:** 1500 bar - 1/4", 1000 bar - 3/8"  
 (connected coupling)  
**Bursting press.:** 3000 bar  
**Working temp.:** From -30°C up to +100°C

Double shut-off hydraulic quick release coupling designed for ultra-high pressure systems. For one hand operation. The unique flat surface face between socket and plug ensures dry-brake disconnection and prevents air inclusion. Widely used in cylinders, hydraulic tools and testing equipment. The 116 FF type socket can be connected to the standard 116 series type plug.

picture	code	DN [mm]	thread size	thread seal	spanner [mm]	L [mm]	D [mm]	weight [g]
Socket - female thread 	CJ-HP-101161219	2.5	1/4" BSP	120° cone	24	72.1	30	215
	CJ-HP-101161229		3/8" BSP	rubber metal seal		72.6		225
	CJ-HP-101161419		1/4" NPT	-		69.1		225
	CJ-HP-101161429		3/8" NPT	-		70.6		220
Socket - male thread 	CJ-HP-101161269		1/4" BSP	rubber metal seal	24	70.6	30	205
	CJ-HP-101161279		3/8" BSP	rubber metal seal				210
	CJ-HP-101161469		1/4" NPT	-				200
	CJ-HP-101161479		3/8" NPT	-				210

# HIGH PRESSURE - UHP equipment




## Quick release couplings



### CEJN 117 series

**Material:** Hardened zinc-plated steel  
**Seal:** NBR  
**Flow rate:** 6 l/min. ( $\Delta p = 4$  bar)  
**Working press.:** 1000 bar (connected coupling)  
**Bursting press.:** 2600 bar  
**Working temp.:** From -30°C up to +100°C

Double shut-off hydraulic quick release coupling designed for ultra-high pressure systems. Although the 117 series is a sister coupling to 115 series and has the same working parameters, they are not compatible. The two series are widely used in rescue tools. CEJN 117 couplings are supplied with plastic blank plugs and caps as a standard.



picture	code	DN [mm]	thread size	thread seal	spanner [mm]	L [mm]	D [mm]	weight [g]
Coupling - female thread 	CJ-HP-101171202	2.5	1/4" BSP	120° cone	24	61.3	28	165
	CJ-HP-101171232*		1/4" BSP	120° cone		170		
	CJ-HP-101171404		3/8" NPT	-		60.3		165
	CJ-HP-101171434*		3/8" NPT	-		170		
Coupling - male thread 	CJ-HP-101171254		3/8" BSP	rubber metal seal	24	60.8	28	155
	CJ-HP-101171454		3/8" NPT	-		62.3		
Plug - female thread 	CJ-HP-101176202		1/4" BSP	120° cone	22	38	25.4	60
	CJ-HP-101176404		3/8" NPT	-	24	37	27.7	65



### CEJN 218 series

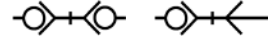
**Material:** Hardened zinc-plated steel  
**Seal:** NBR  
**Flow rate:** 15 l/min. ( $\Delta p = 4$  bar)  
**Working press.:** 1000 bar (connected coupling)  
**Bursting press.:** 2800 bar  
**Working temp.:** From -30°C up to +100°C

Double shut-off hydraulic quick release coupling designed for ultra-high pressure systems. The socket equipped with a safety locking ring preventing accidental disconnection. Developed for application where high flow rates are required. CEJN 218 couplings are supplied with plastic plugs and caps as a standard.

picture	code	DN [mm]	thread size	thread seal	spanner [mm]	L [mm]	D [mm]	weight [g]
Coupling - female thread 	CJ-HP-102181234	4.5	3/8" BSP	rubber metal seal	30	73.4	34.6	340
	CJ-HP-102181434		3/8" NPT	-				330
Plug - female thread 	CJ-HP-102186204		3/8" BSP	rubber metal seal	24	50.5	27.7	115
	CJ-HP-102186404		3/8" NPT	-		49		110

# HIGH PRESSURE - UHP equipment




## Quick release couplings



### CEJN 125 series

**Material:** Hardened zinc-plated steel  
**Seal:** NBR  
**Flow rate:** 5.8 l/min. ( $\Delta p = 4$  bar)  
**Working press.:** 2500 bar (connected coupling)  
**Bursting press.:** 5000 bar  
**Working temp.:** From -30°C up to +100°C

Hydraulic quick release coupling designed for ultra-high pressure systems. Available as a double or single shut-off version (there is no valve in the plug with male thread). Widely used for bolt tensioners, bearing pullers, etc. Supplied with plastic blank plugs and caps as a standard.



picture	code	DN [mm]	thread size	thread seal	spanner [mm]	L [mm]	D [mm]	weight [g]
 Socket - female thread	CJ-HP-101251203	2.5	1/4" BSP	120° cone	24	64.3	30	210
 Plug - female thread	CJ-HP-101256203		1/4" BSP	120° cone	22	38	25.4	60
 Plug - female (without valve)	CJ-HP-101255252		1/4" BSP	cooper washer	22	42.5	25.4	65



### CEJN 135 series

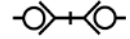
**Material:** Hardened zinc-plated steel  
**Seal:** NBR  
**Flow rate:** 4.6 l/min. ( $\Delta p = 4$  bar)  
**Working press.:** 3000 bar (disconnected or connected)  
**Bursting press.:** 6000 bar  
**Working temp.:** From -20°C up to +80°C

Double shut-off hydraulic quick release coupling for ultra-high pressure systems. The socket equipped with a safety locking ring preventing accidental disconnection. Widely used in hydraulic tools and testing equipment. The series enables connection even under high pressure. CEJN 135 couplings are supplied with blank plugs and caps as a standard. Swiveling of the plug in the socket can cause its wear and damage that is why quick release couplings with standard (swiveling) plugs (CJ-101351505) can only be exposed to 1000 cycles up to the maximum working pressure, whereas the couplings with non-swivel plugs (CJ-101356506) - 5000 cycles.

picture	code	DN [mm]	thread size	thread seal	spanner [mm]	L [mm]	D [mm]	weight [g]
 Socket - female thread	CJ-HP-101351505	2.5	M16x1.5	60° cone	22	64	30	210
 Plug - female thread	CJ-HP-101356505		M16x1.5	60° cone	22	55.3	25	125
	CJ-HP-101356506		M16x1.5	60° cone	22	55.3	25	125

# HIGH PRESSURE - UHP equipment

## Quick release couplings



### CEJN 230 series DNP PVS series HQ HPA series

**Material:** Galvanized steel  
**Seal:** NBR  
**Flow rate:** 1/4" - 16.4 l/min; ( $\Delta p = 4$  bar)  
 3/8" - 21.3 l/min; ( $\Delta p = 4$  bar)  
**Working press.:** 700 bar  
**Bursting press.:** 1/4" - 2100 bar (connected coupling)  
 3/8" - 1850 bar (connected coupling)  
 1/4" - 1800 bar (disconnected socket)  
 3/8" - 1850 bar (disconnected socket)  
 1/4" - 1490 bar (disconnected plug)  
 3/8" - 1500 bar (disconnected plug)  
**Working temp.:** From -25°C up to +100°C

Double shut-off, screw-to-connect, hydraulic quick release couplings designed for ultra-high pressure installations exposed to high mechanical loads. Widely used in hydraulic presses, rescue equipment, jacks, cutters, etc. Couplings can be connected/disconnected with residual pressure in the system. Steel or aluminium dust caps must be ordered separately.

picture	CEJN	DNP	HQ	size [inch]	thread size
	CJ-HP-102301452	DP-PVS3-0606022	HQ-HPA06-F-04NM	1/4	1/4" NPT male
	CJ-HP-102301484	DP-PVS3-1010022	HQ-HPA10-F-06NM	3/8	3/8" NPT male
	CJ-HP-102306402	DP-PVS1-0606013	HQ-HPA06-M-04N	1/4	1/4" NPT female
	CJ-HP-102306434	DP-PVS1-1010013	HQ-HPA10-M-06N	3/8	3/8" NPT female

CEJN	DNP	HQ	description	material	
				CEJN, HQ	DNP
CJ-HP-102304101	DP-SPVS-06102	HQ-HPA06-F-PLUG	1/4" socket cap	galvanized steel	aluminium
CJ-HP-102304103	DP-SPVS-10102C	HQ-HPA10-F-PLUG	3/8" socket cap		
CJ-HP-102304100	DP-SPVS-06103	HQ-HPA06-M-CAP	1/4" plug cap		
CJ-HP-102304102	DP-SPVS-10103C	HQ-HPA10-M-CAP	3/8" plug cap		

picture	code	size [inch]	working pressure [bar]	description
	CJ-HP-199500061	1/8	1000	1) rubber-metal seal
	CJ-HP-199500062	1/4		
	CJ-HP-199500064	3/8		
	CJ-HP-199500083	1/4	1500	2) rubber-metal seal
	CJ-HP-099504600	1/4	2000	3) copper washer