

HSP-DC CUPLA

For various applications with pressure fluctuations

Electroless Nickel-Phosphorous Plating

Electroless nickel-phosphorous plating, which is insoluble in fire-resistant water glycol type hydraulic fluid, is entirely adopted.

Enhanced Impact Resistance

Features valve materials with excellent impact resistance. Ideal for applications with large pressure fluctuations, such as die-casting machines.

Applicable fluid

Wide Range of Thread Sizes

Rc 1/4 Rc 3/8 Rc 1/2 Rc 3/4 Rc 1

Available in five thread sizes

C28en

Interchangeability

Interchangeable with standard HSP CUPLA plug or socket in the same size. However, use HSP-DC CUPLA for applications with pressure fluctuations.

The "DC" mark is engraved on the hex part of the plug and the flat part of the socket to distinguish from HSP CUPLA.

Semi-standard product













YouTube





Specifications									
Body material	Special steel (Nickel plated)								
Size (Thread)	1/4", 3/8", 1/2", 3/4", 1								
Pressure unit	MPa	I	kgf/cm ²	bar		PSI			
Working pressure *1	20.6	210		206		2990			
Seal material	Seal material Nitrile rubber		Mark		Working temperature range				
Working temperature range *2			NBR		-20°C to +80°C				

- This product is a semi-standard product.

*1: The normal allowable fluid pressure under continuous use. Exceeding the working pressure may cause damage and leakage.

*2: The operable temperature range depends on the operating condition.

Flow Direction





mouolo														
Plug	HP type (Female thread)								t HS ty	vpe (Ferr	ale thread	d)		
										4				
Madal	Application	Mass (r)		Di	mensions (n	ım)		Madal	Application	Mass (a)		Dimensio	ons (mm)	
Model	Application	Mass (g)	L	Di ØD	mensions (n C	1m) H (WAF)	Т	Model	Application	Mass (g)	L	Dimensio ϕ D	ons (mm) H (WAF)	Т
Model 2HP-DC	Application R 1/4	Mass (g) 40	L 32	р і Фр 20.5	mensions (n C 17.5	1 m) H (WAF) Hex.19	T Rc 1/4	Model 2HS-DC	Application R 1/4	Mass (g) 134	L 49	Dimensio \$\phi D\$ (27.5)	ons (mm) H (WAF) 19	T Rc 1/4
Model 2HP-DC 3HP-DC	Application R 1/4 R 3/8	Mass (g) 40 68	L 32 38	ΦD 20.5 25	mensions (n C 17.5 22.5	H (WAF) Hex.19 Hex.23	T Rc 1/4 Rc 3/8	Model 2HS-DC 3HS-DC	Application R 1/4 R 3/8	Mass (g) 134 226	L 49 60	Dimension Φ D (27.5) (33)	H (WAF) 19 23	T Rc 1/4 Rc 3/8
Model 2HP-DC 3HP-DC 4HP-DC	Application R 1/4 R 3/8 R 1/2	Mass (g) 40 68 124	L 32 38 44	Di	mensions (n C 17.5 22.5 27.5	H (WAF) Hex.19 Hex.23 Hex.29	T Rc 1/4 Rc 3/8 Rc 1/2	Model 2HS-DC 3HS-DC 4HS-DC	Application R 1/4 R 3/8 R 1/2	Mass (g) 134 226 485	L 49 60 72	Dimensio	H (WAF) 19 23 35	T Rc 1/4 Rc 3/8 Rc 1/2
Model 2HP-DC 3HP-DC 4HP-DC 6HP-DC	Application R 1/4 R 3/8 R 1/2 R 3/4	Mass (g) 40 68 124 148	L 32 38 44 50	Di	C 17.5 22.5 27.5 27.5	H (WAF) Hex.19 Hex.23 Hex.29 Hex.32	T Rc 1/4 Rc 3/8 Rc 1/2 Rc 3/4	Model 2HS-DC 3HS-DC 4HS-DC 6HS-DC	Application R 1/4 R 3/8 R 1/2 R 3/4	Mass (g) 134 226 485 460	L 49 60 72 72	Dimension \$\phi\$ D (27.5) (33) (43) (43)	H (WAF) 19 23 35 35	T Rc 1/4 Rc 3/8 Rc 1/2 Rc 3/4
Model 2HP-DC 3HP-DC 4HP-DC 6HP-DC 66HP-DC	Application R 1/4 R 3/8 R 1/2 R 3/4 R 3/4	Mass (g) 40 68 124 148 232	L 32 38 44 50 51	Di \$\phi D\$ 20.5 25 32 35 40	C 17.5 22.5 27.5 27.5 28	H (WAF) Hex.19 Hex.23 Hex.29 Hex.32 35	T Rc 1/4 Rc 3/8 Rc 1/2 Rc 3/4 Rc 3/4	Model 2HS-DC 3HS-DC 4HS-DC 6HS-DC 66HS-DC	Application R 1/4 R 3/8 R 1/2 R 3/4 R 3/4	Mass (g) 134 226 485 460 569	L 49 60 72 72 78.5	Dimensio	H (WAF) 19 23 35 35 35 35	T Rc 1/4 Rc 3/8 Rc 1/2 Rc 3/4 Rc 3/4
Model 2HP-DC 3HP-DC 4HP-DC 6HP-DC 66HP-DC 8HP-DC	Application R 1/4 R 3/8 R 1/2 R 3/4 R 3/4 R 3/4 R 1	Mass (g) 40 68 124 148 232 361	L 32 38 44 50 51 61	Di	C 17.5 22.5 27.5 27.5 28 36	H (WAF) Hex.19 Hex.23 Hex.29 Hex.32 35 41	T Rc 1/4 Rc 3/8 Rc 1/2 Rc 3/4 Rc 3/4 Rc 1	Model 2HS-DC 3HS-DC 4HS-DC 6HS-DC 66HS-DC 8HS-DC	Application R 1/4 R 3/8 R 1/2 R 3/4 R 3/4 R 1	Mass (g) 134 226 485 460 569 1042	L 49 60 72 72 78.5 93	Dimension Ø D (27.5) (33) (43) (43) (47) (58)	ns (mm) H (WAF) 19 23 35 35 35 35 46	T Rc 1/4 Rc 3/8 Rc 1/2 Rc 3/4 Rc 3/4 Rc 3/4

Safety Guide

∧ Danger Do not apply pressure to CUPLA socket or plug while they are disconnected.

• Do not use CUPLA continuously exceeding the rated working pressure. • Do not connect/disconnect CUPLA with fluid still under dynamic pressure or static residual pressure. **Warning** After connection, try to pull the socket and plug apart to confirm secure connection. If the connection is incomplete, the socket and plug may disconnect when pressurized.
 Do not disassemble CUPLA.

A Caution

• Prior to use, check the compatibility of the seal material and body material against the temperature and the fluid to be used. Selecting the wrong seal material will lead to leakage. As to the use of any special paint or solvent, make thoroughly sure of the material compatibility.

. Only use CUPLA that is within its rated temperature range

- The durability of CUPLA differs depending on the operating environment and conditions (pressure and temperature etc.). If necessary, conduct performance evaluation test under your actual operating environment and conditions. Also, stress corrosion cracking may occur if used under corrosive environment. Take note of sage conditions
- When cleaning CUPLA, care must be taken not to use any material that will affect the seal and body materials. • Make sure that O-rings are lubricated with grease or oil at all times.
- · Apply a fluoropolymer resin sealant tape on male tapered pipe threads to ensure no leak.
- Do not exceed the recommended maximum torque when screwing in to the male or female thread of CUPLA for installation.
- · Prior to use, always perform a leak test after installing CUPLA.
- Put a designated dust cap on CUPLA after disconnection when there is a possibility of foreign matter such as dirt sticking to the seal surface

· Always install a shut-off valve between the pressure source and CUPLA.

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• Design and keep the fluid flow speed through CUPLA below 8 m/s. . Do not use CUPLA in areas or environment where dust such as sand or metal powder can get in to CUPLA.

• Do not strike the tip of an automatic shut-off valve with a hammer or a similar tool. However, if you need to

- Do not let paint stick to CUPLA.
- · Be careful not to put scratches or dents on CUPLA.

relieve residual pressure, please consult us.

- · Do not drop CUPLA.
- Connecting CUPLA directly to vibrating or impacting equipment will result in reduced lifetime.
- Use only as quick connect couplings for fluid pipelines. (It cannot be used as a swivel joint)

· Do not use with any fluid or medium other than what is specified.

The use of inline filters is strongly advised and recommended.

- Only use CUPLA in a combination with NITTO KOHKI coupling "CUPLA"
- Check CUPLA regularly. Stop using immediately if anything unusual is found on CUPLA.

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