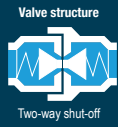


HSP-DC CUPLA

For high pressure / For hydraulic pressure up to 20.6 MPa {210 kgf/cm²}

Working pressure
20.6
20.6 MPa
(210 kgf/cm²)



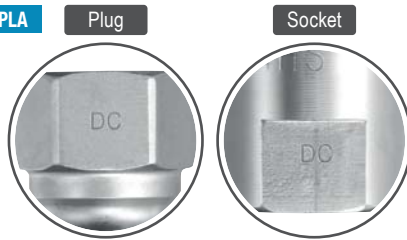
For various applications with large pressure fluctuations.

- "Electroless nickel phosphor plating" which is not soluble to fire-resistant "water glycol type hydraulic fluid" is entirely adopted.
- Valve material with high impact resistance. Available for die casting machines with large pressure fluctuations.
- Various thread sizes available.



How to distinguish from HSP CUPLA

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



Application examples

Die-casting machines, Various casting machines, Continuous casting machines, Pipe casting machines, Machine tools, Rolling mills, Molding presses, Forging presses, Powder alloy presses, Blast furnaces, Electric furnaces, Furnace switchgear, Injection molding machines, Adaptable to connections of hydraulic piping such as glass forming equipment, etc.

Admixture of Air on Connection May vary depending upon the usage conditions. (mL)

Model	2HS-DC x 2HP-DC	3HS-DC x 3HP-DC	4HS-DC x 4HP-DC	6HS-DC x 6HP-DC	66HS-DC x 66HP-DC	8HS-DC x 8HP-DC
Volume of air	0.7	1.9	3.5	3.5	8.2	12.4

Models and Dimensions (4HSP with 6HSP can be connected with each other whereas 6HSP with 66HSP cannot be connected.)

WAF : WAF stands for width across flats.

Model	Application	Mass (g)	Dimensions (mm)				
			L	øD	C	H (WAF)	T
2HP-DC	R 1/4	40	32	20.5	17.5	Hex.19	Rc 1/4
3HP-DC	R 3/8	68	38	25	22.5	Hex.23	Rc 3/8
4HP-DC	R 1/2	124	44	32	27.5	Hex.29	Rc 1/2
6HP-DC	R 3/4	148	50	35	27.5	Hex.32	Rc 3/4
66HP-DC	R 3/4	232	51	40	28	35	Rc 3/4
8HP-DC	R 1	361	61	47	36	41	Rc 1

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

*1: The operable temperature range depends on the operating conditions.

Maximum Tightening Torque Nm {kgf·cm}					
Size (Thread)	1/4"	3/8"	1/2"	3/4"	1"
Torque	28 {286}	45 {459}	90 {918}	100 {1020}	180 {1836}

Flow Direction

Fluid flow can be bi-directional when socket and plug are connected.

Interchangeability

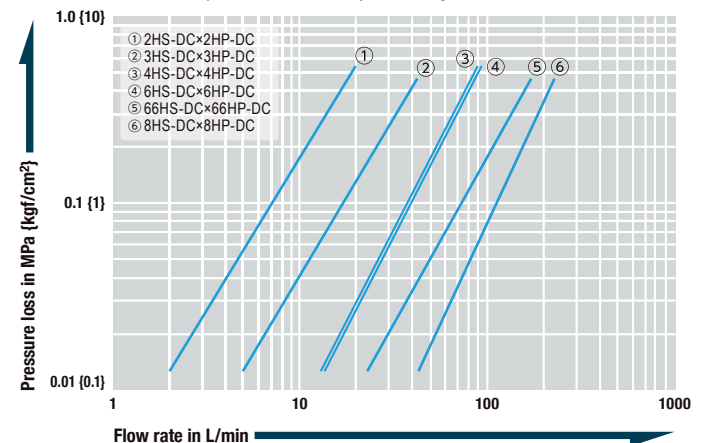
Interchangeable with standard HSP CUPLA plug or socket in the same size. Use HSP-DC CUPLA for die-casting machines with large pressure fluctuations. The "DC" mark is engraved on the hex. part of the plug and the flat part of the socket to distinguish from HSP CUPLA.

Minimum Cross-Sectional Area (mm ²)						
Model	2HS-DC x 2HP-DC	3HS-DC x 3HP-DC	4HS-DC x 4HP-DC	6HS-DC x 6HP-DC	66HS-DC x 66HP-DC	8HS-DC x 8HP-DC
Min. cross-sectional area	21	37	77	77	145	203

Suitability for Vacuum 1.3×10 ⁻¹ Pa {1×10 ⁻³ mmHg}		
Socket only	Plug only	When connected
—	—	Operational

Flow Rate – Pressure Loss Characteristics

[Test conditions] - Fluid : Hydraulic oil - Temperature : 35°C±5°C
- Fluid viscosity : 32×10⁻⁶ m²/s - Density : 0.87×10³ kg/m³



Model	Application	Mass (g)	Dimensions (mm)			
			L	øD	H (WAF)	T
2HS-DC	R 1/4	134	49	(27.5)	19	Rc 1/4
3HS-DC	R 3/8	226	60	(33)	23	Rc 3/8
4HS-DC	R 1/2	485	72	(43)	35	Rc 1/2
6HS-DC	R 3/4	460	72	(43)	35	Rc 3/4
66HS-DC	R 3/4	569	78.5	(47)	35	Rc 3/4
8HS-DC	R 1	1,042	93	(58)	46	Rc 1