

For Heat Transfer Oil

HCF Cupla

Piping for heat transfer oil

Working pressure



1.5MPa
(15kgf/cm²)

Valve structure



Two-way shut-off

Applicable fluids



Heat medium oil



Designed for heat transfer oil lines in die casting equipment, best with those features such as heat-resistance of up to 280°C and “airless valve shut-off”. Flat contact face design on both plug and socket prevents oil spillage.

- Both socket and plug have built-in automatic shut-off valves to minimize fluid spill out when disconnected.
- Push-to-connect type!
- Special PTFE seal prevents leakage even at high temperature.
- Special surface treatment prevents dried oil deposits on the surface.
- Optional accessories exclusively for HCF Cupla are available.

Specifications

Body material	Steel (with special surface treatment)		
Size	1/2" • 3/4"		
Working pressure MPa (kgf/cm ²)	1.5 (15)		
Pressure resistance MPa (kgf/cm ²)	2.0 (21)		
Seal material	Seal material	Mark	Working temperature range
Working temperature range	Fluoro-resin	PTFE (TF)	+10°C~+280°C

Max. Tightening Torque

N·m (kgf·cm)

Size	1/2"	3/4"
Torque	60 (612)	90 (918)

Flow Direction

Fluid may flow in either direction from plug or from socket side when coupled.



Interchangeability

HCF-4SP and HCF-6SP are interchangeable.

Min. Cross-Sectional Area

(mm²)

Model	HCF-4SP	HCF-6SP
Min. Cross-Sectional Area	61.7	61.7

Suitability for Vacuum

Not suitable for vacuum application in either connected or disconnected condition.

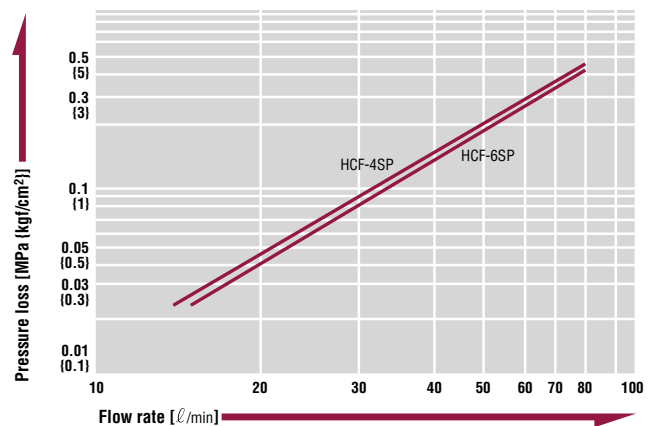
Admixture of air on connection

(mℓ)

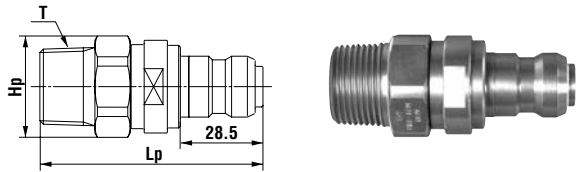
Model	HCF-4SP	HCF-6SP
Volume of spillage	0.15	0.15

Flow Rate – Pressure Loss Characteristics

[Test conditions] • Fluid : Hydraulic oil • Temperature : 30°C ± 5°C
• Fluid viscosity : 32 × 10⁻⁶m²/s • Density : 0.87 × 10³kg/m³

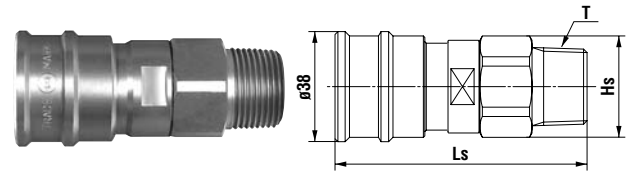


Plug PM type (Male thread)



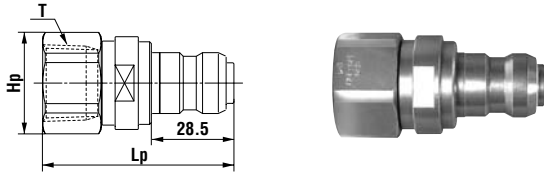
Model	Application	Mass (g)	Dimensions (mm)		
			Lp	Hp(WAF)	T
HCF-4PM	Rc 1/2	192	73	Hex.29 x ø32	R 1/2
HCF-6PM	Rc 3/4	201	77	Hex.32 x ø35	R 3/4

Socket SM type (Male thread)



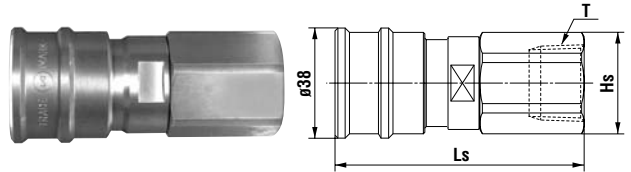
Model	Application	Mass (g)	Dimensions (mm)		
			Ls	HS(WAF)	T
HCF-4SM	Rc 1/2	392	99	Two flats 29 x ø32	R 1/2
HCF-6SM	Rc 3/4	345	87	Hex.32 x ø35	R 3/4

Plug PF type (Female thread)



Model	Application	Mass (g)	Dimensions (mm)		
			Lp	Hp(WAF)	T
HCF-4PF	R 1/2	136	56	Hex.29 x ø32	Rc 1/2
HCF-6PF	R 3/4	165	66	Hex.32 x ø35	Rc 3/4

Socket SF type (Female thread)

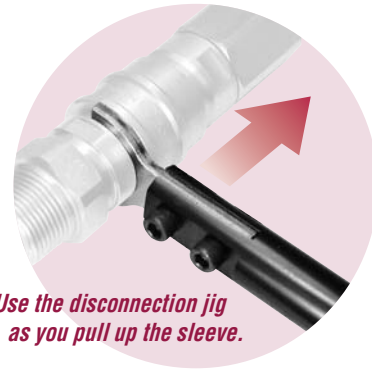


Model	Application	Mass (g)	Dimensions (mm)		
			Ls	HS(WAF)	T
HCF-4SF	R 1/2	373	86	Two flats 29 x ø32	Rc 1/2
HCF-6SF	R 3/4	366	86	Hex.32 x ø35	Rc 3/4

Optional accessories exclusively for HCF Cupla

Metal jig for disconnection

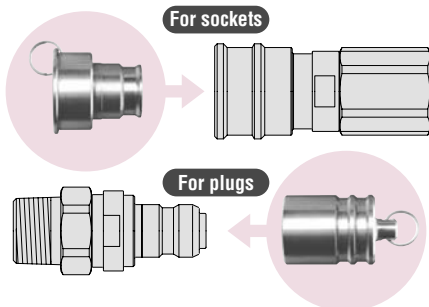
The jig is used when it is hard to disconnect Socket and Plug. The jig will help users to easily pull up the sleeve for disconnection, when it is difficult by hand, such as when Cuplas are hot, or placed in an extremely restricted area, or when strong force is required for disconnection.



Use the disconnection jig as you pull up the sleeve.

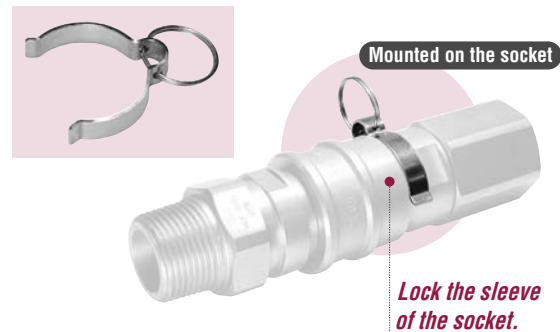
Protection cap

Metal caps equipped with dust-proof function are available for socket and plug.



Stainless Steel Sleeve Stopper

Mount the sleeve stopper after connection of socket and plug and then it locks the sleeve of the socket and prevents unexpected disconnection.



Lock the sleeve of the socket.