

High Flow Cupla

Piping for water and fluids for temperature control

Working pressure



1.0 MPa
(10 kgf/cm²)

Valve structure



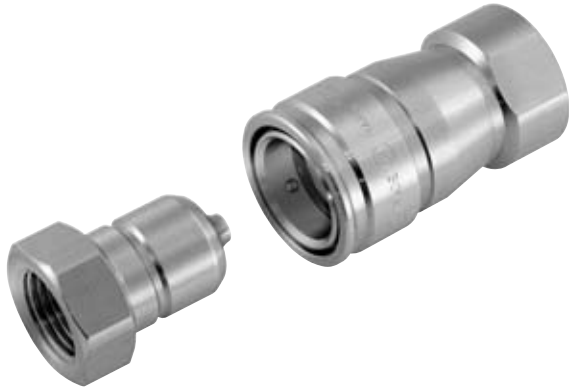
Two-way shut-off

Applicable fluids



Water

Cooling water



- Minimizes pressure drop and increases flow volume drastically. Compared with conventional SP Cupla, flow volume has been increased by up to 80%.
- Both socket and plug have built-in automatic shut-off valves.
- High flow rate type to increase cooling effect.
- Quick connection and disconnection of cooling pipes.
- Compact and space-saving design.
- Installation and maintenance can be done within a short time.

Before use, please be sure to read "Safety Guide" described at the end of this book and "Instruction Sheet" that comes with the products.

High Flow Cupla BI Type

Cupla with ferrule flange for piping of water and fluids for temperature control

Working pressure



1.0 MPa
(10 kgf/cm²)

Valve structure



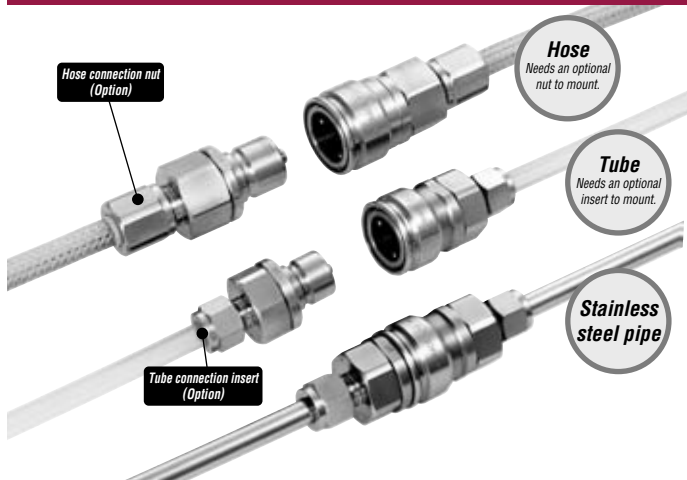
Two-way shut-off

Applicable fluids



Water

Cooling water



- High Flow Cupla and ferrule flange mount are united to realize efficient piping.
- Easy connection with stainless steel pipe.
- Connection with hose can be done, too.
- With an optional hose connection kit, connection to plastic hose is possible.
- Connection with various tubes can be done if an appropriate insert to the tube is adopted.

Before use, please be sure to read "Safety Guide" described at the end of this book and "Instruction Sheet" that comes with the products.

Specifications

Body material	Stainless steel • Brass			
Size	1/4" • 3/8" • 1/2"			
Working pressure MPa (kgf/cm ²)	1.0 (10)			
Pressure resistance MPa (kgf/cm ²)	1.5 (15)			
Seal material Working temperature range	Seal material	Mark	Working temperature range	Remarks
	Ethylene-propylene rubber	EPDM (EPT)	-5°C~+100°C	Standard material
	Fluoro rubber	FKM (X-100)	-5°C~+150°C	Available on request

Min. Cross-Sectional Area

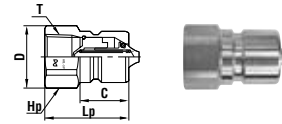
(mm²)

Model	HFL-2SP	HFL-3SP	HFL-4SP
Min. Cross-Sectional Area	33	59	93

Models and Dimensions

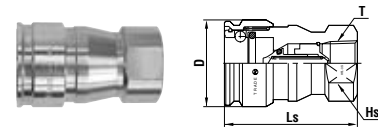
WAF : WAF stands for width across flats.

Plug HFL-P type (Female thread)



Model	Application	Mass (g)	Dimensions (mm)				
			Lp	C	øD	Hp(WAF)	T
HFL-2P	R 1/4	28	30	16.5	18.5	Hex.17	Rc 1/4
HFL-3P	R 3/8	43	31	18	23	Hex.21	Rc 3/8
HFL-4P	R 1/2	82	37.5	22.5	32	Hex.29	Rc 1/2

Socket HFL-S type (Female thread)



Model	Application	Mass (g)	Dimensions (mm)				
			Ls	øD	Hs(WAF)	T	
HFL-2S	R 1/4	99	47	26	Two flats 19	Rc 1/4	
HFL-3S	R 3/8	150	49	32	Two flats 24	Rc 3/8	
HFL-4S	R 1/2	211	60	35	Two flats 29	Rc 1/2	

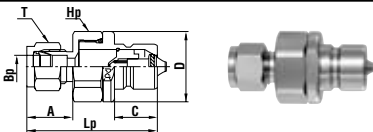
Specifications

Body material	Stainless steel			
Applicable pipe size	1/8" • 1/4" • 3/8" • 1/2"			
Working pressure MPa (kgf/cm ²)	1.0 (10)			
Pressure resistance MPa (kgf/cm ²)	1.5 (15)			
Seal material Working temperature range	Seal material	Mark	Working temperature range	Remarks
	Ethylene-propylene rubber	EPDM (EPT)	-5°C~+100°C	Standard material
	Fluoro rubber	FKM (X-100)	-5°C~+150°C	Available on request

Models and Dimensions

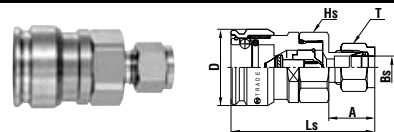
WAF : WAF stands for width across flats.

Plug HFL-P-BI type (For pipe connection)



Model	Application (Pipe size)	Dimensions (mm)						
		Lp	C	A	øD	øBp	Hp(WAF)	T(WAF)
CO-1P-BI 1/8"	1/8"	42.4	11.3	15.15	15.5	3.18	Hex.9/16	Hex.7/16
HFL-2P-BI 1/4"	1/4"	51.9	16.5	17.86	23	6.35	Hex.13/16	Hex.9/16
HFL-2P-BI 3/8"	3/8"	53.4	16.5	19.29	23	9.53	Hex.13/16	Hex.11/16
HFL-3P-BI 3/8"	3/8"	54.8	18	19.29	29.5	9.53	Hex.1 1/16	Hex.11/16
HFL-3P-BI 1/2"	1/2"	59	18	22.2	29.5	12.7	Hex.1 1/16	Hex.7/8
HFL-4P-BI 1/2"	1/2"	68.7	22.5	22.2	32	12.7	Hex.1 1/8	Hex.7/8

Socket HFL-S-BI type (For pipe connection)



Model	Application (Pipe size)	Dimensions (mm)					
		Ls	A	øD	øBs	Hs(WAF)	T(WAF)
CO-1S-BI 1/8"	1/8"	45.2	15.15	16.5	3.18	Hex.9/16	Hex.7/16
HFL-2S-BI 1/4"	1/4"	54.9	17.86	26	6.35	Hex.13/16	Hex.9/16
HFL-2S-BI 3/8"	3/8"	56.5	19.29	26	9.53	Hex.13/16	Hex.11/16
HFL-3S-BI 3/8"	3/8"	60.3	19.29	32	9.53	Hex.1 1/16	Hex.11/16
HFL-3S-BI 1/2"	1/2"	64.6	22.2	32	12.7	Hex.1 1/16	Hex.7/8
HFL-4S-BI 1/2"	1/2"	73.2	22.2	35	12.7	Hex.1 1/8	Hex.7/8