

Cupla for Braided Hose Connection

No hose clamp required

Unique two piece design

- Hose deterioration at the hose barb part has been eliminated.
Thus additional tightening work of the hose clamp is no longer required.

Mold Cupla for Braided Hose Connection

Model K-90SN

Can be connected with plugs for K-01, K-02, and K-03 series

- Push-to-connect design
- Long sleeve socket facilitates connection / disconnection with plug embedded in mold
- Socket has built-in automatic shut-off valve

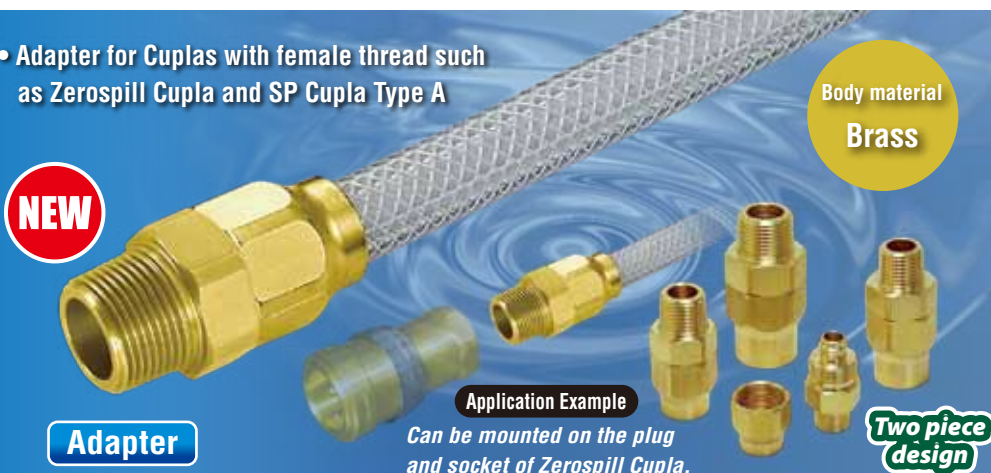


Cupla Adapter for Braided Hose Connection

Model BH□-□M

Can be screwed into Cuplas with female threads, 3/8", 1/2", 3/4"

- Adapter for Cuplas with female thread such as Zerospill Cupla and SP Cupla Type A

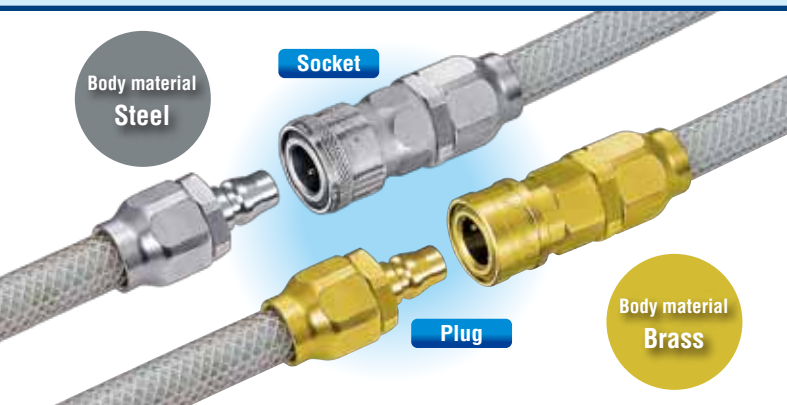


Two piece design

Lineup of Cuplas for Braided Hoses

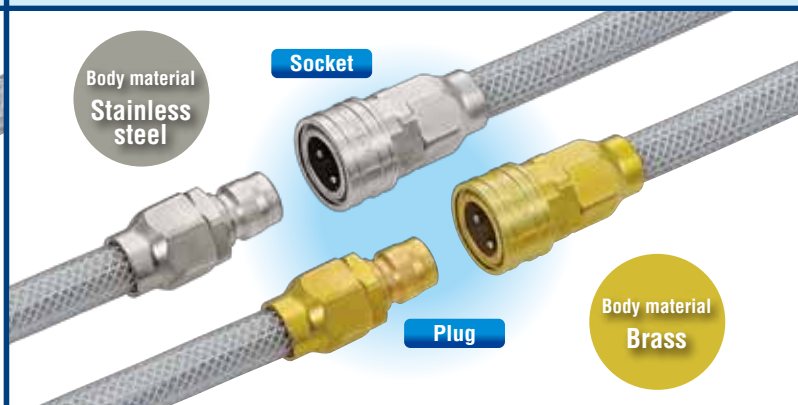
Hi Cupla

Applicable hose size (mm)
ø9 × ø15



TSP Cupla

Applicable hose size (mm)
ø6 × ø11, ø9 × ø15, ø12 × ø18, ø15 × ø22, ø19 × ø26, ø25 × ø33

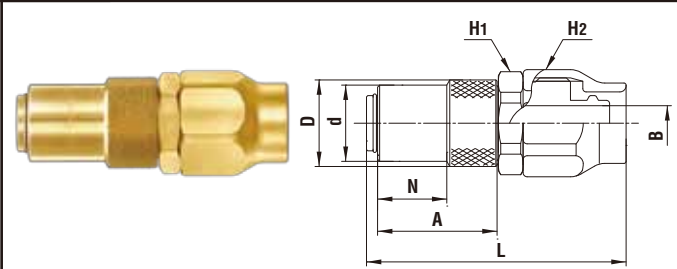


Mold Cupla for Braided Hose Connection

Models and Dimensions

WAF : WAF stands for width across flats.

Socket SN type (For braided hose connection)



Model	Application (Hose) (mm)	Hose wall thickness (mm)	Mass (g)	Dimensions (mm)							
				L	øD	ød	N	A	H1 (WAF)	H2 (WAF)	øB
K-90SN	ø9 x ø15	3±0.3	122	(63)	(21)	18.5	16.8	29	Hex.23	Hex.24	8.5

Specifications

Body material		Brass		
Application (Hose)		ø9 x ø15 mm		
Working pressure *1,*2	MPa	1.0		
	kgf/cm ²	10		
	bar	10		
	PSI	145		
Applicable fluids *3		Water, Oil		
Seal material *4 Working temperature range *2	Seal material	Mark	Working temperature range	
	Nitrile rubber	NBR	-20°C to +80°C	
	Fluoro rubber	FKM	-20°C to +180°C	

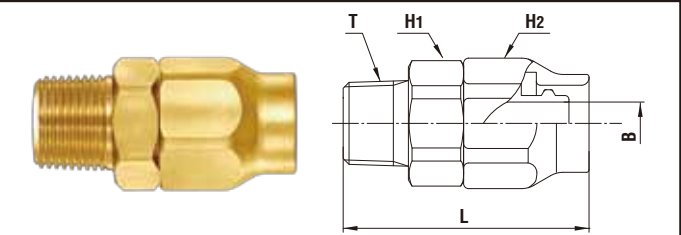
Tighten the nut until it is flush against the hose barb base after pushing a braided hose to the end.

Cupla Adapter for Braided Hose Connection

Models and Dimensions

WAF : WAF stands for width across flats.

BH-M type (Male thread)



Model	Application (Hose) (mm)	Hose wall thickness (mm)	Mass (g)	Dimensions (mm)				
				L	H1 (WAF)	H2 (WAF)	T	øB
BH90-3M	ø9 x ø15	3±0.3	106	(49)	Hex.23	Hex.24	R 3/8	8.5
BH120-4M	ø12 x ø18	3±0.3	159	(59)	Hex.27	Hex.27	R 1/2	11
BH150-4M	ø15 x ø22	3.5±0.35	210	(67)	Hex.30	Hex.30	R 1/2	13
BH190-6M	ø19 x ø26	3.5±0.35	301	(74)	Hex.35	Hex.35	R 3/4	17

Specifications

Body material		Brass			
Model		BH90-3M	BH120-4M	BH150-4M	BH190-6M
Size (Thread)		3/8"	1/2"	1/2"	3/4"
Braided hose size		ø9 x ø15 mm	ø12 x ø18 mm	ø15 x ø22 mm	ø19 x ø26 mm
Working pressure *1,*2	Depends upon the specifications of braided hoses to be used.				
Working temperature range *2	Depends upon the specifications of braided hoses to be used.				
Applicable fluids *3	Air, Water, Oil				

Max. Tightening Torque

Nm {kgf·cm}

Model	BH90-3M	BH120-4M	BH150-4M	BH190-6M
Torque (Taper Pipe Threads) *5,*6	12 {122}	30 {306}	30 {306}	50 {510}

Safety Guide (For Mold Cupla and Cupla Adapter for Braided Hoses)

Be sure to read the "Instruction Sheet" that comes with the products, and "Caution" on the package before use.

- *1 : This shows the normal allowable fluid pressure under continuous use.
- *2 : Working pressure and working temperature of Cupla and Adapter for braided hoses depend upon the specifications of braided hoses to be used.
- *3 : Use within the specification of the seal material and the braided hose to be used.
- *4 : The standard seal is nitrile rubber.
- *5 : Stress corrosion crack may happen on brass Cupla and Adapter if they are used under corrosive environment. Take note of usage conditions.
- *6 : Tighten the nut until it is flush against the hose barb base after pushing a braided hose to the end.

WARNING

- Do not use Cuplas continuously exceeding the rated working pressure. It may cause leakage or damage.
- The fluid inside the plug side piping will flow out when disconnected. Take special care when handling a dangerous fluid such as high temperature fluid.

CAUTION

- Do not apply any excessive impact, bend or tension more than is necessary to connect or disconnect Cuplas. It may cause leakage or damage.
- Do not use Cuplas in a place where dust or metal dust gets in. It may cause malfunction or leakage.
- Only use Cuplas as quick connect fluid couplings.
- Do not use Cuplas as a swivel joint.
- The inclusion of foreign matter in the fluid to be used may cause malfunction. Fluid must be cleaned through filters before reaching to Cuplas.
- Do not drop Cuplas. It may cause leakage or malfunction.
- Do not connect Cuplas directly to a vibrating or impact device. It may result in reduced lifetime.
- Only use Cuplas within the range of the rated temperature. Otherwise the seal may get damaged or deteriorate and cause leakage. Do not use Cuplas continuously at the lowest or highest working temperature.
- Do not connect or disconnect Cuplas while they are pressurized or residual pressure remains.
- Make sure that O-rings are lubricated at all times.
- A shut-off valve must be installed between pressure source and the Cupla.
- Only use Cuplas with a combination of Nitto Cuplas.
- Check up on Cuplas periodically. Stop using Cuplas if malfunction is found.
- Do not disassemble Cuplas.
- If something is wrong with the braided hose, replace it with a new one.
- When pushing a braided hose onto the hose barb of Cupla or Adapter, never strike the Cupla or Adapter. It may cause malfunction.
- Do not use a deteriorated braided hose.
- Push a braided hose onto the hose barb to the hose barb base and tighten the nut until it is flush against the hose barb base.
- Cut off and throw away the braided hose at least 5 cm from the end before it is reused.
- After connection, try to pull the Cupla plug and socket apart to check secure connection. Incomplete connection may cause accidental disconnection of the socket and the plug when they are pressurized.
- Working pressure and working temperature of Cupla and Adapter for braided hoses depend upon the specifications of braided hoses to be used.
- Be sure to install a Cupla on one end or both ends of a braided hose. If both ends of the hose are connected to the fixed pipe, it will result in hose twisting or loosening of the adapter for the braided hose.

Benefits without a hose clamp

- Risk of injuries to fingers or palms has been reduced.
- Deterioration of the braided hose at the hose barb part has been eliminated.
- Unique nut construction increases the pulling load of braided hoses.

A tool and a hose clamp are not required.

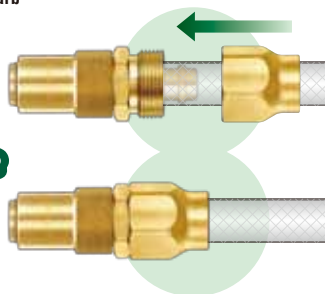
Not Required



Unique two piece design

- Simply push a braided hose onto the hose barb to the end and tighten the nut until it is flush against the hose barb base.
- No inner parts for conventional braided hose fittings are required. Thus incorrect assembling does not occur.

Two piece design



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