

For Low Pressure (Air)

# HI CUPLA Two Way Type

For bi-directional compressed air flow

Working pressure



Valve structure



Applicable fluid



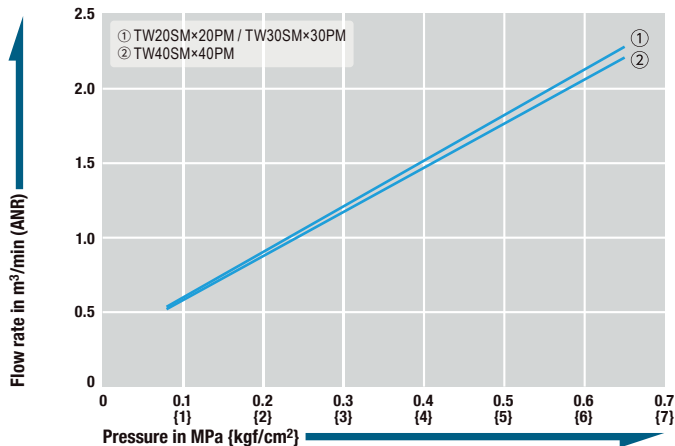
Air flows in either direction from plug or from socket side when coupled.  
Ideal for connection of factory air supply lines to pneumatic devices.

- Can be connected with plugs for HI CUPLA Models 10, 17, 20, 30 and 40 and allows fluid to flow from either plug or socket side when coupled.
- Wide range of connections such as from ports on air pipes in factory to individual pneumatic devices.
- Critical structural parts are heat-treated for increased strength giving greater durability and resistance to wear.
- Available in various sizes and end configurations to suit a wide range of applications.



## Pressure - Flow Characteristics

[Test conditions] - Fluid : Air



## Specifications

Body material		Steel (Chrome plated)			
Size	Thread	1/4", 3/8", 1/2"			
	Hose barb	For ø6.5 mm×ø10 mm, ø8.5 mm×ø12.5 mm hose			
Pressure unit	MPa	kgf/cm <sup>2</sup>	bar	PSI	
Working pressure	1.5	15	15	218	
Seal material	Seal material	Mark	Working temperature range	Remarks	
Working temperature range *1	Nitrile rubber	NBR	-20°C to +80°C	Standard material	
	Fluoro rubber	FKM	-20°C to +180°C	Made-to-order item	

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

## Maximum Tightening Torque

Size (Thread)	1/4"	3/8"	1/2"
Torque	14 {143}	22 {224}	60 {612}

## Flow Direction

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



## Interchangeability

Interchangeable with plugs of HI CUPLA models 10, 17, 20, 30 and 40.  
Interchangeable with each models of NUT CUPLA series and HI CUPLA series.  
Please see page 21 for "HI CUPLA Series Interchangeability".

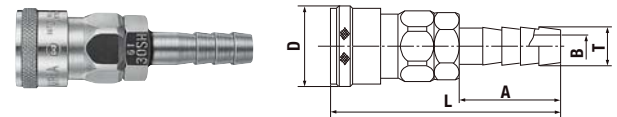
## Suitability for Vacuum

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

## Models and Dimensions

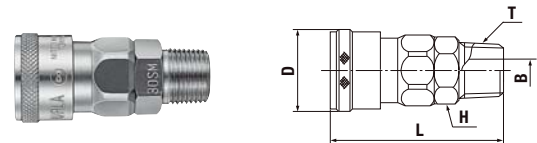
WAF : WAF stands for width across flats.

### Socket SH type (Hose barb)



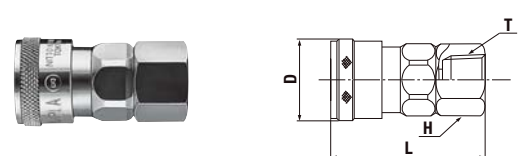
Model	Application (Hose)	Mass (g)	Dimensions (mm)				
			L	øD	A	øT	øB
TW20SH	1/4"	98	(72.5)	(26.5)	30	9	5
TW30SH	3/8"	102	(76.5)	(26.5)	34	11.3	7.5
TW40SH	1/2"	117	(78.5)	(26.5)	36	15	9

### Socket SM type (Male thread)



Model	Application (Thread)	Mass (g)	Dimensions (mm)				
			L	øD	H(WAF)	T	øB
TW20SM	Rc 1/4	95	(55.5)	(26.5)	Hex.19	R 1/4	7
TW30SM	Rc 3/8	109	(56.5)	(26.5)	Hex.19	R 3/8	8
TW40SM	Rc 1/2	116	(59.5)	(26.5)	Hex.23	R 1/2	9

### Socket SF type (Female thread)



Model	Application (Thread)	Mass (g)	Dimensions (mm)			
			L	øD	H(WAF)	T
TW20SF	R 1/4	95	(49.5)	(26.5)	Hex.19	Rc 1/4
TW30SF	R 3/8	96	(50.5)	(26.5)	Hex.21	Rc 3/8
TW40SF	R 1/2	137	(52.5)	(26.5)	Hex.29	Rc 1/2