

For Air

Hi Cupla Two Way Type

For bi-directional compressed air flow

Working pressure



1.5 MPa
(15 kgf/cm²)

Valve structure



One-way shut-off

Applicable fluid



Air

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 from Hi Cupla Models 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.

Specifications Body material of brass or stainless steel is available as made-to-order item.

Body material	Steel (Chrome-plated)			
Size	1/4" (20 type) • 3/8" (30 type) • 1/2" (40 type)			
Working pressure MPa (kgf/cm ²)	1.5 (15)			
Pressure resistance MPa (kgf/cm ²)	2.0 (20)			
Seal material Working temperature range	Seal material	Mark	Working temperature range	Remarks
	Nitrile rubber	NBR (SG)	-20°C~+80°C	Standard material
	Fluoro rubber	FKM (X-100)	-20°C~+180°C	Available on request

Max. Tightening Torque N·m {kgf·cm}

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

Flow Direction

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



Interchangeability

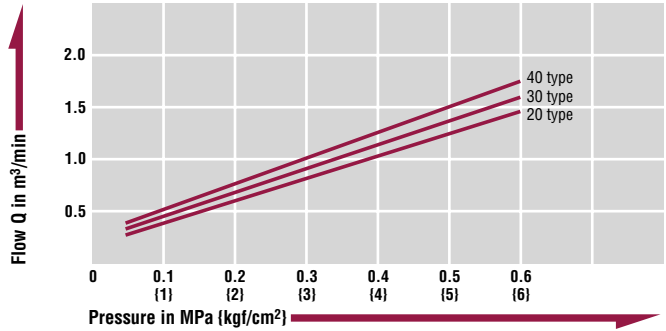
Can be connected with plugs of Hi Cupla Models 20, 30 and 40. Interchangeable with each corresponding Hi Cupla Series models.

Suitability for Vacuum

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

Pressure - Flow Characteristics

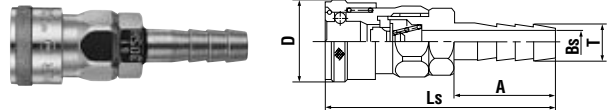
[Test conditions] •Fluid : Air •Temperature : Room temperature



Models and Dimensions

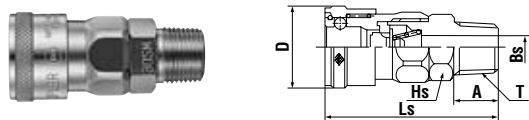
WAF : WAF stands for width across flats.

Socket SH type (Hose barb)



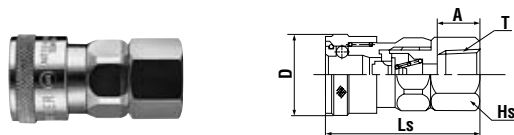
Model	Application (Hose)	Mass (g)	Dimensions (mm)				
			Ls	øD	A	øT	øBs
TW20SH	1/4"	98	72.5	26.5	30	9	5
TW30SH	3/8"	102	76.5	26.5	34	11.3	7.5
TW40SH	1/2"	117	78.5	26.5	36	15	9

Socket SM type (Male thread)



Model	Application	Mass (g)	Dimensions (mm)					
			Ls	øD	HS(WAF)	A	T	øBs
TW20SM	Rc 1/4	95	55.5	26.5	Hex.19	13	R 1/4	7
TW30SM	Rc 3/8	109	56.5	26.5	Hex.19	14	R 3/8	8
TW40SM	Rc 1/2	116	59.5	26.5	Hex.23	16	R 1/2	9

Socket SF type (Female thread)



Model	Application	Mass (g)	Dimensions (mm)				
			Ls	øD	HS(WAF)	A	T
TW20SF	R 1/4	95	49.5	26.5	Hex.19	13	Rc 1/4
TW30SF	R 3/8	96	50.5	26.5	Hex.21	14	Rc 3/8
TW40SF	R 1/2	137	52.5	26.5	Hex.29	15	Rc 1/2

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