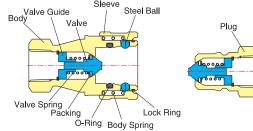
# **HP COUPLER**

#### Application

- Used for plant piping of chemicals, steam and oil.

#### Feature

- Bi-directional shut-off coupler with an automatic shut-off valve incorporated on the both sides of CORK and HOLE. - Excellent airtight effect, designed with high precision
- processing technology.



**Structural Diagram** 

# **HP Coupler**



H

Socket Female

MODEL[T]													
Tube (Metric) - Thread(R)													
MODEL	L	С	Rc										
HP 1C(BRASS)	29	19	Rc1										
HP 2C(BRASS)	36	22	Rc1										
HP 3C(BRASS)	40	25	Rc3										
HP 4C(BRASS)	44	28.4	Rc1										
HP 6C(BRASS)	52	36	Rc3										
HP 8C(BRASS)	62	40	Rc1										
HP 10C(BRASS)	70	45	Rc1										
HP 12C(BRASS)	75	49	Rc1										
HP 16C(BRASS)	80	52	Rc2										

### Specification

Fluid	Air, Water, Oil, Steam, Medicines, Gasolin (Another way air for Special Order)
Material	Brass
Working Pressure Range	0~70kgf/cm(7000kpa)
Temperature Range	-20~80 °C

#### Product Code System



#### (1) Thread Size(T)

©												
	Thread Size											
Code	1	2	3	4	6	8	10	12	16			
Size	Rc1/8"	Rc1/4"	Rc3/8"	Rc1/2"	Rc3/4 "	Rc1″	Rc11/4"	Rc1½"	Rc2″			

2	Ν.		
G	IVI	ou	C

0	
С	Plug
Н	Socket

Valve Symbols Working Pressure





#### ► Minimum Sectional Area

Products Cade	1HP	2HP	3HP	4HP	6HP	8HP	10HP	12HP	16HP
Mnimum Sectonal Area(cd)	11	23	46	89	198	315	580	870	1240
Inflow air volume(mm)	0.52	1.02	2.40	3.20	10.50	17.00	27.20	2980	60.00

#### ►Flow Rate

	1																
	3	2	1P 3	4H	P		6	P					8	ΗP		10H	,
(III)	2	1HP		U			Ζ									$\sim$	
Pressure loss(kg/c#)	2	$\parallel$		/			(					$\boldsymbol{r}$		$\sim$			
e los	4	//	//			/				$\sim$						1	개
sure	ľ	L	Ľ		Z			Z	2	$\sim$				_	/	$\leq$	
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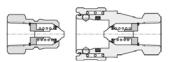
Measuring Conditions Fluid type : Water Temperature :  $30^{\circ}C \pm 5^{\circ}C$ Motional viscosty : 50cm-Strokes Specific gravity : 0.8727 ×10-3kg/cm<sup>2</sup>

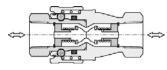
#### How to check table

For example, when flowing 1001/mm of fluid at 6HP, the intersection of the horizontal axis flow at 1001 mm, makes a pressure loss of 2 kg/cm<sup>2</sup>.

#### ► Automatic air flow control

When disconnecting, the valves in the socket and plug instantly seal the air flow to prevent leakage. On the contrary, when connected, the valves in the socket and plug are opened and permit free flow of fluid through the couplings.





## Common Using Precautions of Coupler Series

MODEL[T]

HP 1H(BRASS)

HP 2H(BRASS)

HP 3H(BRASS)

HP 4H(BRASS)

HP 6H(BRASS)

HP 8H(BRASS)

HP 10H(BRASS)

HP 12H(BRASS)

HP 16H(BRASS)

MODEL

Tube (Metric) - Thread(R)

ØD

23.6

27.5

34.5

44.5

54.5

64.5

77.5

87.8

109

48

58

65

72

88

102

115

124

132

Rc

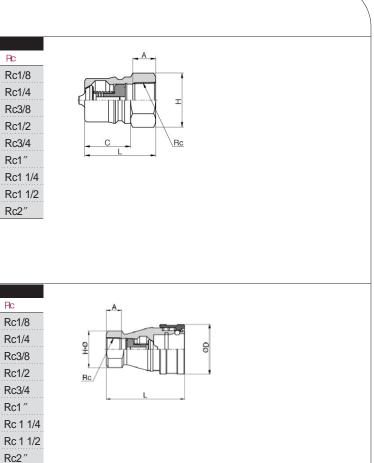
Never fail to check the following

### /! WARNING

- 1. Avoid applying or removing when pressure is on. It causes the danger of jumping of plug body.
- 3. Never use coupler in place of rotary joint or other revolving joint.
- 4. Secure to flow the fluid from socket to plug.
- 5. Avoid the instrument or machine giving strong bending weight, excessive vibration or shock.

### /!\CAUTION

- 1. When putting plug into socket, secure to push it until it stops.
- Otherwise it may cause leakage. In addition, be sure to check whether it will come out or not by pulling it out.
- 2. Be careful of plug body jumping by compressed air discharging when disconnecting.
- 3. Be sure not only to have dust or contamination with intended fluid but also to have flaws on body. It may cause leakage.
- 4. When pushing tube into the socket body, fix it with hose-band after wearing silicon.
- 5. Never fasten the thread over maximum limit of torque. It may cause breakage.



2. Never touch the equipment under pressure in the state of putting plug and socket on the body. It causes "opening" by touch.

6. To use the coupler on a vibration tool such as jet chisel, be sure to connect with 30<sub>cm</sub> rubber tube between tool and coupler.