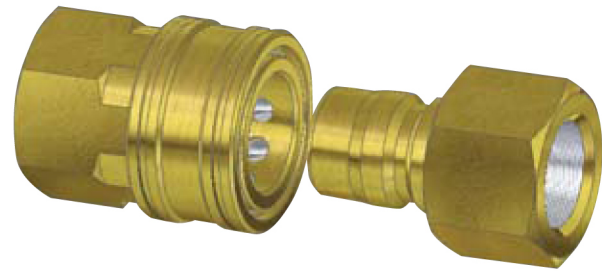


DOUBLE PATH OPEN COUPLER



This is a double path, open type coupler which does not have a valve mechanism at neither the socket nor the plug.

Features

- Double path open coupler is used in piping system that does not need to block the fluid when disconnected.
- It is designed specifically for extremely low pressure loss, which can lead to more fluid flow.
- It is ideal for high viscosity fluids or steaming pipe lines.
- A variety of other types are available according to the place of use and purpose of use.

Specifications

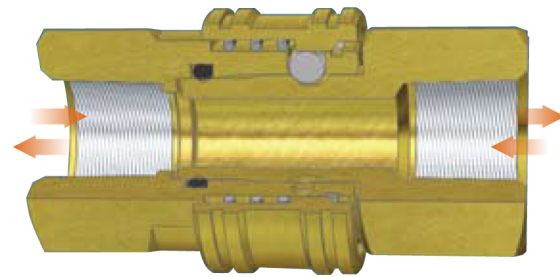
Application Size	1/8" 1/4" 3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2"							
Body Material	Brass, Stainless steel, Steel							
Sealing Material / Operating Temperature	Sealing Material	Operating Temperature	Notes					
	Nitrile rubber (NBR)	-20°C ~ +80°C	Standard material					
	Viton	-20°C ~ +180°C	Option available					
	Neoprene rubber	-20°C ~ +80°C						
Ethylene-propylene rubber	-40°C ~ +150°C							

Maximum Recommended Torque: N-m(kgf-cm)

Size	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	
Torque	Steel	9(92)	14(143)	22(224)	60(612)	90(918)	120(124)	260(2652)	280(2856)	500(5100)
	Brass	5(51)	9(92)	12(122)	30(306)	50(510)	65(663)	150(1530)	150(1530)	260(2652)
	Stainless Steel	9(92)	14(143)	22(224)	60(612)	90(918)	12(1224)	260(2652)	280(2856)	500(5100)

Direction of fluid flow

Fluid can flow from either the socket or plug side.



Use

Material	Brass	Stainless steel	Steel
Applicable fluids	Gasoline, Heavy oil, Kerosene, Water	Acid, Alkali, Chlorine	Hydraulic fluid
Use	<ul style="list-style-type: none"> • Hydraulic equipments / pipes • Sea water / Steam pipes • Chemicals • High-pressure gas (nitrogen freon etc.) 		

Pressure

Material	Brass				
Size	1/8" 1/2" 3/8"	1/2" 3/4" 1"	1 1/4" 1 1/2"	2"	
Max. Working Pressure	5 MPa (51kg/cm ²)	3 MPa (31kg/cm ²)	2 MPa (20kg/cm ²)	1.5 MPa (15kg/cm ²)	
Proof Pressure	7.5 MPa (76kg/cm ²)	4.5 MPa (46kg/cm ²)	3 MPa (31kg/cm ²)	2.3 MPa (24kg/cm ²)	
Material	Stainless steel, Steel				
Size	1/8" 1/2" 3/8"	1/2" 3/4" 1"	1 1/4" 1 1/2"	2"	
Max. Working Pressure	7.5 MPa (76kg/cm ²)	4.5 MPa (46kg/cm ²)	3 MPa (31kg/cm ²)	2 MPa (20kg/cm ²)	
Proof Pressure	10MPa (102kg/cm ²)	6.5 MPa (66kg/cm ²)	4.5 MPa (46kg/cm ²)	3 MPa (31kg/cm ²)	

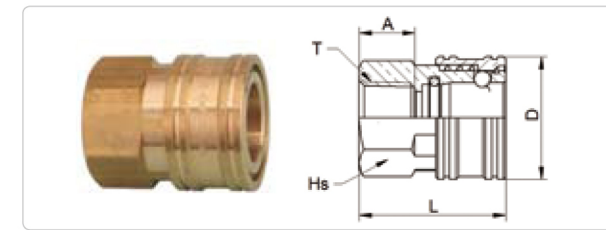
Instructions for use

- Please select the appropriate sealing materials according the type of fluid and temperature.
- Please make sure to check the following before use: the greater dimension, the lower ability to resist pressure.

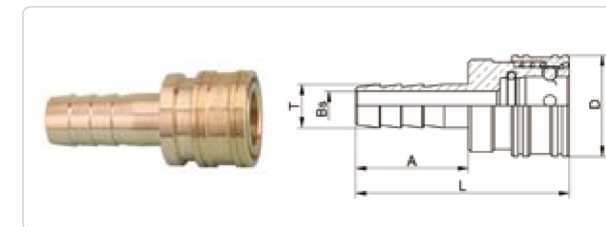
DOUBLE PATH OPEN COUPLER DIMENSIONS

* Dimension of A can be adjusted upon request.

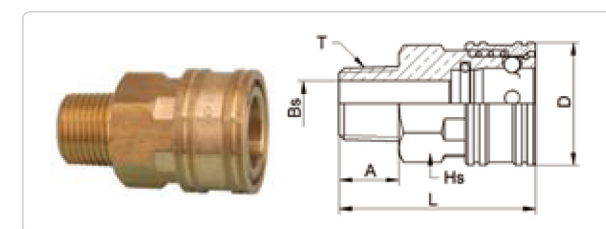
* Special dimensions and specifications are available upon request.



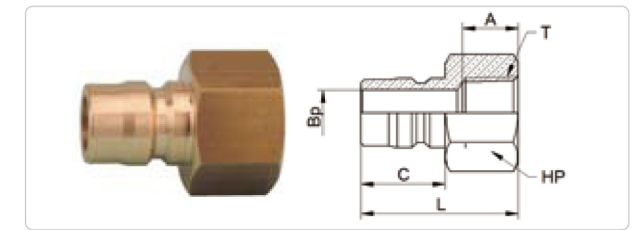
S (SOCKET)						
TSF Type						
Model	Application	Dimensions (mm)				
		L	D	Hs	A	T
1TSF	PT 1/8"	27	17.5	Hex 14	9	PT 1/8"
2TSF	PT 1/4"	32	24	Hex 19	13	PT 1/4"
3TSF	PT 3/8"	35	28	Hex 23	14	PT 3/8"
4TSF	PT 1/2"	42	35	Hex 29	17	PT 1/2"
6TSF	PT 3/4"	48	45	Hex 38	19	PT 3/4"
8TSF	PT 1"	59	58	Hex 50	22	PT 1"
10TSF	PT 1 1/4"	64	69	ø62xTwo flats 54	23	PT 1 1/4"
12TSF	PT 1 1/2"	71	75	ø66xTwo flats 58	25	PT 1 1/2"
16TSF	PT 2"	80	95	ø82xTwo flats 77	27	PT 2"



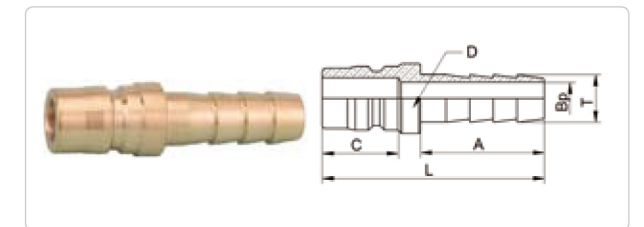
S (SOCKET)						
TSH Type						
Model	Application	Dimensions (mm)				
		L	D	A	Bs	T
1TSH	1/8" HOSE	40	17.5	20	3	6.5
2TSH	1/4" HOSE	55	24	29	5	8
3TSH	3/8" HOSE	62	28	32	7	11
4TSH	1/2" HOSE	74	35	39	10	15
6TSH	3/4" HOSE	90	45	48	15	21
8TSH	1" HOSE	102	58	57	19	27
10TSH	1 1/4" HOSE	163	69	70	26	34.5
12TSH	1 1/2" HOSE	183	75	75	32	41
16TSH	2" HOSE	185	95	80	40	54



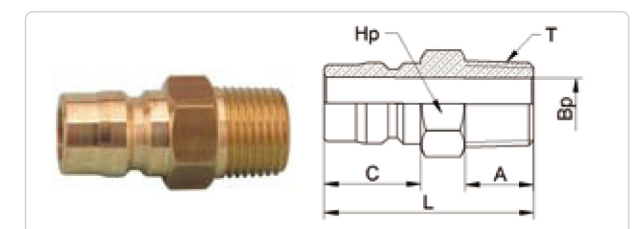
S (SOCKET)							
TSM Type							
Model	Application	Dimensions (mm)					
		L	D	A	Hs	Bs	T
1TSM	PT 1/8"	30	17.5	9	Hex 14	4.5	PT 1/8"
2TSM	PT 1/4"	42	24	13	Hex 19	7	PT 1/4"
3TSM	PT 3/8"	46	28	14	Hex 23	10	PT 3/8"
4TSM	PT 1/2"	56	35	17	Hex 29	13	PT 1/2"
6TSM	PT 3/4"	65	45	19	Hex 38	18	PT 3/4"
8TSM	PT 1"	76	58	22	Hex 50	24	PT 1"
10TSM	PT 1 1/4"	86	69	25	ø62xTwo flats 54	32	PT 1 1/4"
12TSM	PT 1 1/2"	95	75	25	ø66xTwo flats 58	38	PT 1 1/2"
16TSM	PT 2"	108	95	29	ø82xTwo flats 77	49	PT 2"



P (PLUG)							
TPF Type							
Model	Application	Dimensions (mm)					
		L	Hp	A	C	T	Bp
1TPF	PT 1/8"	26	Hex 14	9	15.5	PT 1/8"	4.5
2TPF	PT 1/4"	34	Hex 17	13	18	PT 1/4"	6.5
3TPF	PT 3/8"	38	Hex 21	14	21	PT 3/8"	10
4TPF	PT 1/2"	45	Hex 29	17	24	PT 1/2"	13
6TPF	PT 3/4"	51	Hex 35	19	28	PT 3/4"	17
8TPF	PT 1"	60	Hex 41	22	36	PT 1"	26
10TPF	PT 1 1/4"	64	ø59xTwo flats 45	23	39	PT 1 1/4"	32
12TPF	PT 1 1/2"	75	ø65xTwo flats 58	25	45	PT 1 1/2"	38
16TPF	PT 2"	83	ø82xTwo flats 77	29	51	PT 2"	50



P (PLUG)							
TPH Type							
Model	Application	Dimensions (mm)					
		L	D	A	C	T	Bp
1TPH	1/8" HOSE	41	12	20	15.5	6.5	3
2TPH	1/4" HOSE	53	14	29	18	8	5
3TPH	3/8" HOSE	60	18	32	21	11	7
4TPH	1/2" HOSE	70	22	39	24	15	10
6TPH	3/4" HOSE	84	28	48	28	21	15
8TPH	1" HOSE	105	40	57	36	27	19
10TPH	1 1/4" HOSE	121	48	70	39	34.5	26
12TPH	1 1/2" HOSE	132	55	75	45	41	32
16TPH	2" HOSE	142	70	80	51	54	40



P (PLUG)							
TPM Type							
Model	Application	Dimensions (mm)					
		L	Hp	A	C	T	Bp
1TPM	PT 1/8"	32	Hex 12	9	15.5	PT 1/8"	4.5
2TPM	PT 1/4"	38	Hex 17	13	18	PT 1/4"	6.5
3TPM	PT 3/8"	43	Hex 19	14	21	PT 3/8"	10
4TPM	PT 1/2"	52	Hex 23	17	24	PT 1/2"	13
6TPM	PT 3/4"	59	Hex 32	19	28	PT 3/4"	17
8TPM	PT 1"	73	Hex 41	22	36	PT 1"	25
10TPM	PT 1 1/4"	83	ø55xTwo flats 50	23	39	PT 1 1/4"	32
12TPM	PT 1 1/2"	93	ø60xTwo flats 55	26	45	PT 1 1/2"	38
16TPM	PT 2"	102	ø80xTwo flats 75	27	51	PT 2"	50