

HYDRAULIC COUPLER



Hydraulic coupler is a double path, switching type coupler made of special steel.

Features

- Since Hydraulic coupler is designed to have an extremely low pressure loss, it is ideal for use in hydraulic equipments.
- Highly resistant to vibration and shock.
- An automatic shut off valve is installed on both sides of the socket and plug to prevent leakage of fluid during separation.

Specifications

Application Size	1/4" 3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2"
Body Material	Special Steel (zinc plated)
Sealing Material / Operating Temperature	Sealing Material: Nitrile rubber (NBR)
	Operating Temperature: -20°C ~ +80°C
Notes	Standard material
	Option available

Pressure ISO-7241-1 A Standard

Thread Size	1/4" 3/8"	1/2" 3/4"	1" 1 1/4"	1 1/2"	2"
Max. Working Pressure	31.5MPa (321kgf/cm ²)	25MPa (255kgf/cm ²)	20MPa (204kgf/cm ²)	16MPa (163kgf/cm ²)	10MPa (102kgf/cm ²)

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

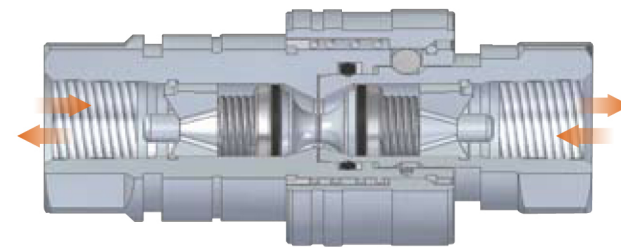
Size	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Torque	28(286)	45(459)	90(918)	100(1020)	180(1836)	290(2958)	350(3570)	500(5100)

Instructions for use

- Please provide specific information and details if hydraulic couplings are needed for use in fluids and in environments where rust can develop.
- Do not over-tighten any connections. Over-tightening may result in the damage or breakage of hydraulic couplings.
- Please install the tightening torque in each dimension.

Direction of fluid flow

Fluid can flow from either the socket or plug side.



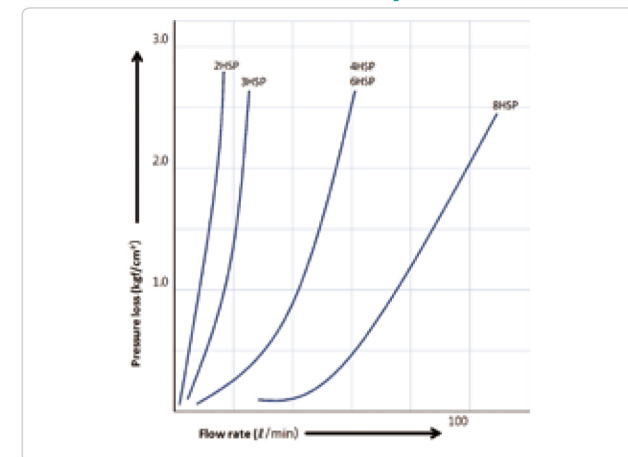
Use

Material	Special Steel
Applicable fluids	Hydraulic fluid
Use	Hydraulic equipments

Minimum Cross-Sectional Area (mm²)

Model	2HSP	3HSP	4HSP	6HSP	8HSP
Min. Cross-Sectional Area	22	37	75	75	230

Flow rate-Pressure loss Graph



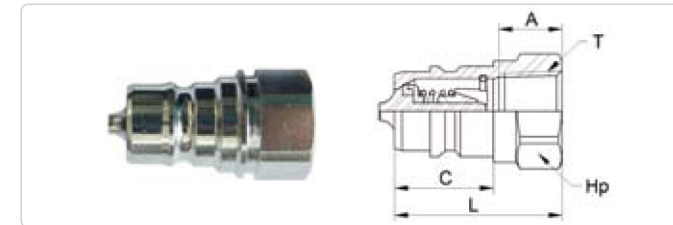
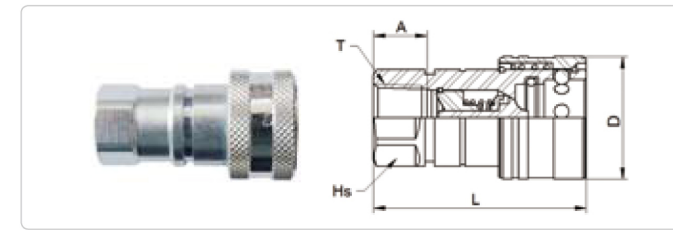
Application example



HYDRAULIC COUPLER DIMENSIONS

* Special shapes and dimensions are available upon request.

* ISO-7241-1 A&B, 5675, 16028 (Flat Face) standard available.



S (SOCKET)						
Model	Application	Dimensions (mm)				
		L	D	Hs	A	T
2HS	PT 1/4"	53	25	19	13	PT 1/4"
3HS	PT 3/8"	57	32	22	14	PT 3/8"
4HS	PT 1/2"	66	38	27	15	PT 1/2"
6HS	PT 3/4"	82.5	48	34	17	PT 3/4"
8HS	PT 1"	100	56	41	20	PT 1"

P (PLUG)						
Model	Application	Dimensions (mm)				
		L	C	Hp	A	T
2HP	PT 1/4"	38.5	15	19	13	PT 1/4"
3HP	PT 3/8"	39	18.5	22	14	PT 3/8"
4HP	PT 1/2"	44	26	27	15	PT 1/2"
6HP	PT 3/4"	55	29	34	17	PT 3/4"
8HP	PT 1"	66	35	41	20	PT 1"

HYDRAULIC JACK COUPLER

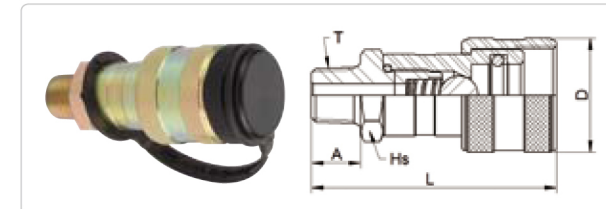
- Ball Type: Since the valve has a metal to metal airtight type, there may be a small amount of oil leaking when disconnected.
- Non Leak Type: Since valve has a special rubber packing on both sides of the female and male, there is no leakage of oil.

* Both PT and NPT thread specifications are available.

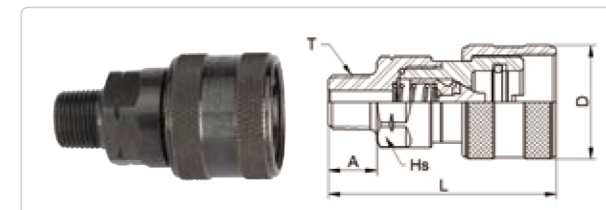


Type	Thread size	Material	Max. Working Pressure
FEMALE	PT 3/8"	STEEL & SUS	700 kgf/cm ²
	NPT 3/8"		
	PT 1/2"		
	NPT 1/2"		

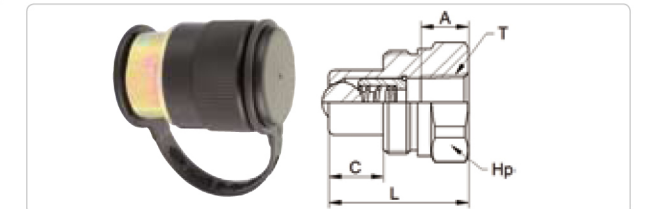
Type	Thread size	Material	Max. Working Pressure
MALE	PT 3/8"	STEEL & SUS	700 kgf/cm ²
	NPT 3/8"		
	PT 1/2"		
	NPT 1/2"		



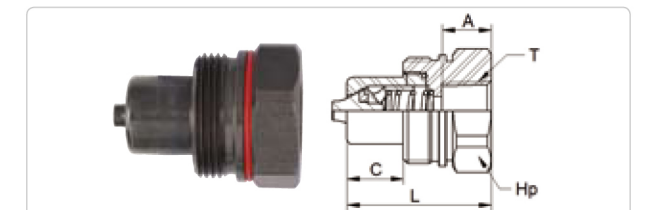
FEMALE (Ball Type)						
Model	Dimensions (mm)					
	L	D	Hs	A	T	
JFB83	75	35	25	15	PT 3/8"	
JFB21	77	35	25	16	PT 1/2"	



FEMALE (Non Leak Type)						
Model	Dimensions (mm)					
	L	D	Hs	A	T	
JFN83	70	35	25	15	NPT 3/8"	
JFN21	71	35	25	16	NPT 1/2"	



MALE (Ball Type)						
Model	Dimensions (mm)					
	L	C	Hp	A	T	
JMB83	41	16	32	14	PT 3/8"	
JMB21	41	16	33	15	PT 1/2"	



MALE (Non Leak Type)						
Model	Dimensions (mm)					
	L	C	Hp	A	T	
JMN83	41	16	32	14	NPT 3/8"	
JMN21	42	16	33	15	NPT 1/2"	