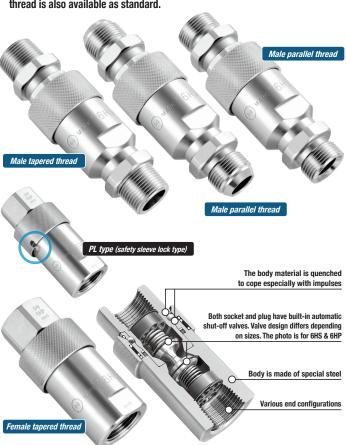


Special steel body is tough against vibration and impact! Male and female thread end configurations are available. Low pressure loss characteristic suits hydraulic equipment applications.

- Quenched special steel body! Powerful impact resistance, especially against impulses.
- · Automatic shut-off valves in both socket and plug prevent fluid spill out on disconnection.
- . In addition to conventional female thread type, male thread types (male tapered thread, male parallel thread with 30° flare, and male parallel thread with 30° cone-seat) are available. Male thread types are designed especially for direct connection to hydraulic power units effectively.
- Male parallel thread type complies with both metal seal and 0-ring seal. (In case of 0-ring seal, 0-rings available in the market can be used.)
- Optional HSP-DC CUPLA series are available for die-casting machine applications with severe pressure variation.
- The overall length of male thread type is shorter than that of female thread type plus conversion nipple available in the market.
- PL type (Safety sleeve lock type) for 2HS to 8HS (except 66HS) with female thread is also available as standard.



Specifications					
Body material			Special steel	(Nickel plated)	
Size (Thread)		1/4", 3/8", 1	/2", 3/4", 1"	1 1/4", 1 1/2"	2"
	MPa	20	.6	18.0	14.0
Working pressure	kgf/cm ²	21	10	183	142
Working pressure	bar	20)6	180	140
	PSI	2990		2610	2030
Seal material		Seal material	Mark	Working temperature range	Remarks
Working temperature	range	Nitrile rubber	NBR (SG)	-20°C to +80°C	Standard material
		Fluoro rubber	FKM (X-100)	-20°C to +180°C	Available on request

Maximum Tightening Torque Nm {kgf·cm}										
Size (Threa	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"		
	Female thread	28 {286}	45 {459}	90 {918}	100 {1020}	180 {1836}	290 {2958}	350 {3570}	500 {5100}	
Torque	Male taper thread	28 {286}	45 {459}	90 {918}	100 {1020}	_	_	_	_	
	Parallel male thread	25 {255}	35 {357}	60 {612}	120 {1224}	_	I	_	-	

Flow Direction				
Fluid flow can be bi-	directional when socket and	plug are connec	cted.	
4	888	HO WARAN DO	W ₀	4

Interchangeability

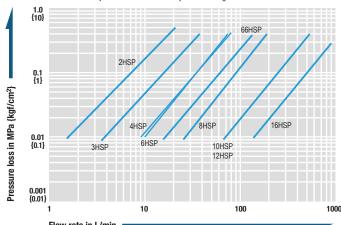
4HSP with 6HSP or 10HSP with 12HSP can be connected with each other. Other combinations of different sizes are not connectable.

Minimum Cross-Sectional Area (m										
Model	2HSP	3HSP	4HSP	6HSP	66HSP	8HSP	10HSP	12HSP	16HSP	
Minimum cross- sectional area	21	37	77	77	145	203	595	595	1084	

Suitability for Vacuum	cuum 1.3 × 10 ⁻¹ Pa {1 × 10 ⁻³ mm				
Socket only	Plug only	When connected			
_	_	Operational			

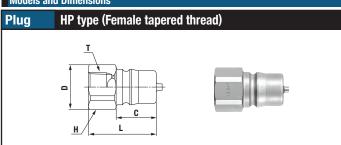
Admixture of Air on Connection May vary depending upon the usage conditions. (m										
Model	2HSP	3HSP	4HSP	6HSP	66HSP	8HSP	10HSP	12HSP	16HSP	
Volume of air	0.7	1.9	3.5	3.5	8.2	12.4	44	44	156	

[Test conditions] •Fluid: Hydraulic oil •Temperature: 30°C±5°C •Fluid viscosity: 32 x 10⁻⁶ m²/s •Density: 0.87 x 10³ kg/m³

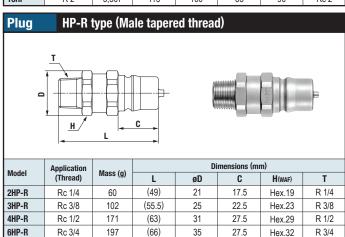


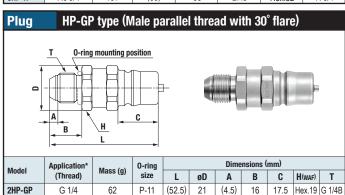
The flow volume of male thread type is increased by 5 to 10% compared with that of female thread type with conversion nipple.

There is no interchangeability between HSP CUPLA and 210 CUPLA or 280 CUPLA. Do not connect to each other even if sizes are similar.



Madal	Application	M (-)	Dimensions (mm)							
Model	(Thread)	Mass (g)	L	øD	C	H(WAF)	T			
2HP	R 1/4	40	32	20.5	17.5	Hex.19	Rc 1/4			
3HP	R 3/8	68	38	25	22.5	Hex.23	Rc 3/8			
4HP	R 1/2	124	44	32	27.5	Hex.29	Rc 1/2			
6HP	R 3/4	148	50	35	27.5	Hex.32	Rc 3/4			
66HP	R 3/4	232	51	40	28	35	Rc 3/4			
8HP	R 1	361	61	47	36	41	Rc 1			
10HP	R 1 1/4	886	80	64	58	58	Rc 1 1/4			
12HP	R 1 1/2	810	80	64	58	58	Rc 1 1/2			
16HP	R 2	3,307	115	100	83	90	Rc 2			

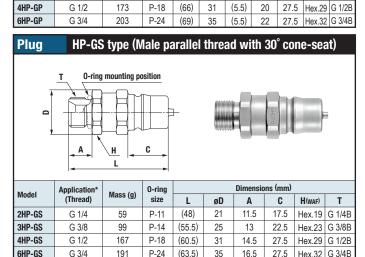


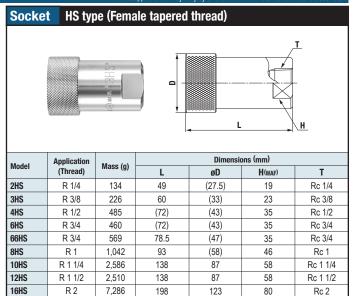


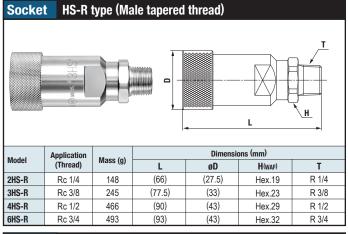
(60.5) 25 (4.5)

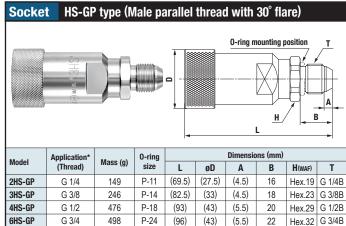
22.5 Hex.23 G 3/8B

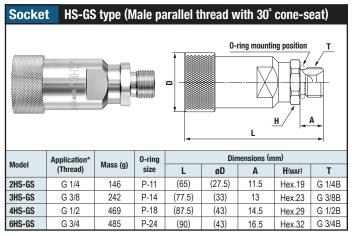
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^{*}The counterpart of GP type must be the female parallel thread specified in JIS B 8363 with 30° cone-seat or the coupling with O-ring seal.

3HP-GP

G 3/8

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P-14

The counterpart of GS type must be the female parallel thread JIS B 8363 with 30° flare or the coupling with O-ring seal

Sleeve stopper design is available for models 2HS to 8HS (except 66HS).