

Connectable with residual pressure

SP CUPLA Type A PV Type

With Purge Valve

Equipped with residual pressure eliminating valve (up to 1 MPa)

Made-to-order



Smooth connection even when there is residual pressure when connecting.

No residual pressure eliminating operation required on your piping.
Just connect to purge the remaining pressure.

Mechanism

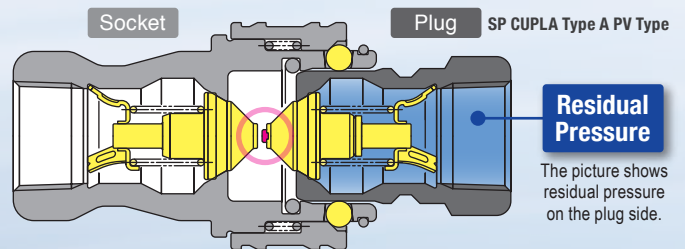
The purge valve is pressed (the red part in the picture) and completes the connection by releasing the residual pressure.

Use the SP CUPLA Type A PV on the line where the residual pressure remains, and use the standard SP CUPLA Type A for the counterpart.

It does not operate when both sides are SP CUPLA Type A PV Types.

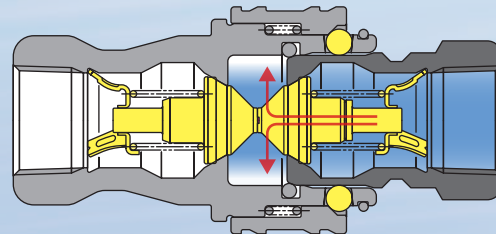
Before Connection

Use the SP CUPLA Type A PV on the line where the residual pressure remains.



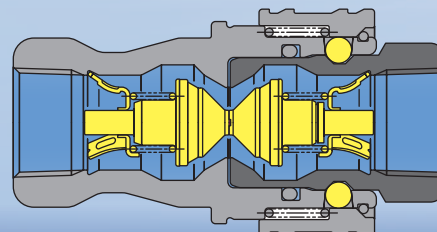
During connection

The purge valve opens and the residual pressure starts to release.



After connection

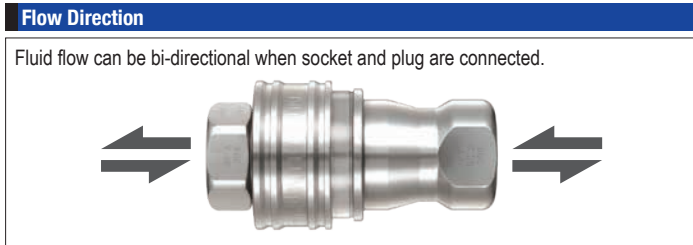
The residual pressure is fully released and the connection is complete.



Specifications										
Body material		Brass, Stainless steel (SUS304)								
Model	6S-A-PV	6P-A-PV	8S-A-PV	8P-A-PV	10S-A-PV	10P-A-PV	12S-A-PV	12P-A-PV		
	Socket	Plug	Socket	Plug	Socket	Plug	Socket	Plug		
Size (Thread)		Rc 3/4		Rc 1		Rc 1 1/4		Rc 1 1/2		
Working pressure *1	Brass	MPa	3.0			2.0				
		kgf/cm ²	31			20				
		bar	30			20				
	Stainless steel	PSI	435			290				
		MPa	4.5			3.0				
		kgf/cm ²	46			31				
Connectable residual pressure *2		1.0 MPa, 10 kgf/cm ² , 10 bar, 145 PSI								
Seal material		Nitrile rubber		Mark		NBR (SG)		Working temperature range		Remarks
Working temperature range *3						-20°C to +80°C		Standard material		

*1: The normal allowable fluid pressure under continuous use.
 *2: The allowable residual pressure that can be connected when the fluid is limited to liquid.
 *3: The working temperature range depends upon the operating conditions.

Max. Tightening Torque		Nm {kgf·cm}			
Application		Rc 3/4	Rc 1	Rc 1 1/4	Rc 1 1/2
Torque	Brass	50 {510}	65 {663}	150 {1530}	180 {1836}
	Stainless steel	90 {918}	120 {1224}	260 {2652}	280 {2856}



Interchangeability

Different size socket and plug cannot be connected to each other.
 Interchangeable with SP CUPLA Type A and SP-V CUPLA in the same size.

Models and Dimensions

Model	Application	Mass (g)		Dimensions (mm)			
		Brass	Stainless steel	L	C	H (WAF)	T
6P-A-PV	R 3/4	204	189	52	36	Hex.35	Rc 3/4
8P-A-PV	R 1	330	307	62	40	Hex.41	Rc 1
10P-A-PV	R 1 1/4	627	617	70	45	Hex.54 (*1)	Rc 1 1/4
12P-A-PV	R 1 1/2	917	877	75	49	Hex.63 (*2)	Rc 1 1/2

(*1) Stainless steel: WAF 54×ø59 (*2) Stainless steel: WAF 63×ø68

Safety Guide

This product can be connected under residual pressure, but do not connect under dynamic pressure applied. It may lead to incomplete connection, deteriorated durability or possible valve fly out. Read without fail and observe the "Instruction sheet" that comes with the product and the following pages in the general Quick Connect Coupling Catalog; [Precautions Relating to the Use of All Cuplas] and "Cupla for Low Pressure (Water, Liquid) and for Medium Pressure" in the [Safety Guide] page.

Focused on you
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Min. Cross-Sectional Area (mm²)

Model	6S-A-PV 6P-A	6P-A-PV 6S-A	8S-A-PV 8P-A	8P-A-PV 8S-A	10S-A-PV 10P-A	10P-A-PV 10S-A	12S-A-PV 12P-A	12P-A-PV 12S-A
Min. Cross-Sectional Area	178		229		395		553	

Suitability for Vacuum May vary depending upon the usage conditions. **1.3×10⁻¹ Pa**

Socket only	Plug only	When connected
—	—	Operational

Admixture of Air on Connection May vary depending upon the usage conditions. **(mL)**

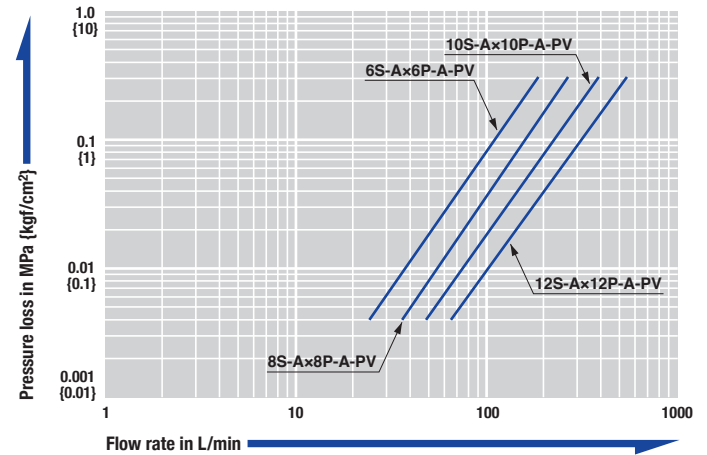
Model	6S-A-PV 6P-A	6P-A-PV 6S-A	8S-A-PV 8P-A	8P-A-PV 8S-A	10S-A-PV 10P-A	10P-A-PV 10S-A	12S-A-PV 12P-A	12P-A-PV 12S-A
Volume of air	11		17		29		45	

Volume of Spillage on Disconnection May vary depending upon the usage conditions. **(mL)**

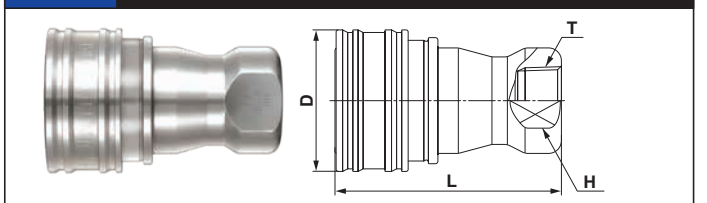
Model	6S-A-PV 6P-A	6P-A-PV 6S-A	8S-A-PV 8P-A	8P-A-PV 8S-A	10S-A-PV 10P-A	10P-A-PV 10S-A	12S-A-PV 12P-A	12P-A-PV 12S-A
Volume of spillage	8.4		12		26		36	

Flow Rate - Pressure Loss Characteristics

[Test Conditions] •Fluid : Water •Temperature: 25°C±5°C



Socket Female thread



Model	Application	Mass (g)		Dimensions (mm)			
		Brass	Stainless steel	L	øD	H (WAF)	T
6S-A-PV	R 3/4	685	644	88	55	WAF 35	Rc 3/4
8S-A-PV	R 1	1021	959	102	65	WAF 41	Rc 1
10S-A-PV	R 1 1/4	1517	1437	115	77	WAF 54	Rc 1 1/4
12S-A-PV	R 1 1/2	2267	2147	124	88	WAF 63	Rc 1 1/2

WAF : WAF stands for width across flats.