For Medium Pressure

ZEROSPILL CUPLA

Low spill type for medium pressure use















Unique seal design reduces both liquid spillage and air ingress.

- New valve design offers smooth zero-friction movement.
- Push to connect design.
- A variety of body materials and sizes have been standardized to support a wide range of applications and situations.
- Automatic shut-off valves in both socket and plug prevent fluid spill out on disconnection.



Specifications						
Body material	Bra	ISS	Stainless steel (SUS 304)			
Size (Thread)	1/4", 3/8", 1/2", 3/4", 1"					
Pressure unit	MPa	kgf/cm ²	bar	PSI		
Working pressure	3.5	36	36	508		
Seal material Working temperature range ·1	Seal material	Mark	Working temperature range	Remarks		
	Nitrile rubber	NBR	-20°C to +80°C	Standard material		
	Fluoro rubber	FKM	-20°C to +180°C	Standard material		
	Ethylene-propylene rubber	EPDM	-40°C to +150°C	Standard material		

^{*1:} The operable temperature range depends on the operating conditions.

Maximum Tightening Torque Nm {kgf·cm						
Size (Thread)		1/4"	3/8"	1/2"	3/4"	1"
Torque	Brass	9 {92}	12 {122}	30 {306}	50 (510)	65 {663}
ioique	Stainless steel	14 {143}	22 {224}	60 (612)	90 (918)	120 {1224}

Flow Direction Fluid flow can be bi-directional when socket and plug are connected.

Interchangeability

Socket and plug of different sizes cannot be connected

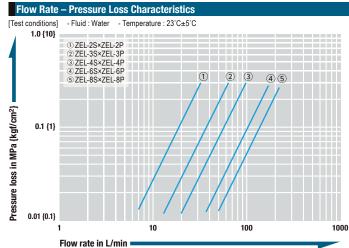
Minimum Cross-Sectional Area (mm²)					
Model	ZEL-2SP	ZEL-3SP	ZEL-4SP	ZEL-6SP	ZEL-8SP
Min. cross-sectional area	31	60.5	86.5	160.6	188.7

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

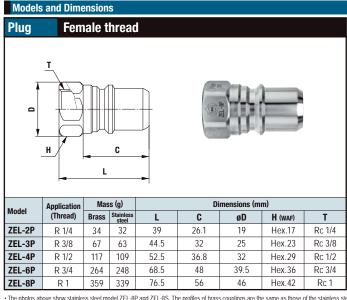
Admixture of Air on Connection May vary depending upon the usage conditions. (mL)					
Model	ZEL-2SP	ZEL-3SP	ZEL-4SP	ZEL-6SP	ZEL-8SP
Volume of air admixture	0.16	0.21	0.37	1.12	1.52

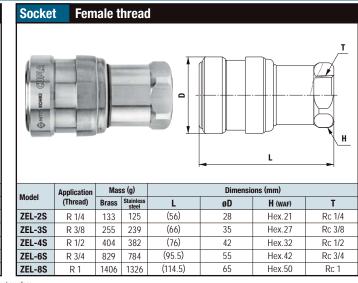
Volume of Spillage per Disconnection May vary depending upon the usage conditions. (m						
Model	ZEL-2SP	ZEL-3SP	ZEL-4SP	ZEL-6SP	ZEL-8SP	
Volume of spillage	0.06	0.12	0.20	0.43	0.55	

Repeated connections and disconnections of CUPLA or the use of fluids with low viscosity may cause some spillage.





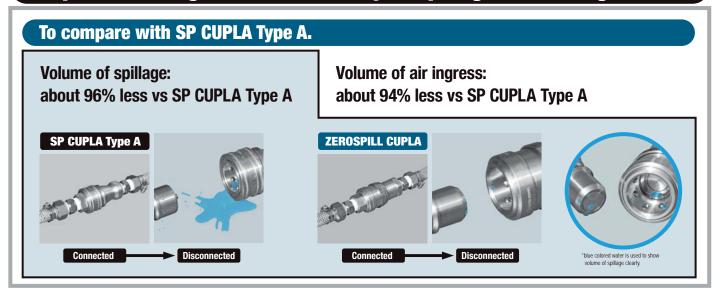




The photos above show stainless steel model ZEL-8P and ZEL-8S. The profiles of brass couplings are the same as those of the stainless steel couplings

Main Features

Unique seal design reduces both liquid spillage and air ingress



Reliable zero friction valve

New valve design offers smooth zero-friction movement resulting in reduced chance of malfunction caused by deterioration of valve parts.

One-hand easy operation Push-to-connect design

Just push the plug into the socket for simple and secure This reduces connection time and improves efficiency.



→ Simple and secure connection Just push the plug into the socket

