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.
- The variety of body materials, sizes and end configurations has been standardized to comply with wide range of applications.
- Automatic shut-off valves in both socket and plug prevent fluid spill out on disconnection.





Specifications							
Body material	Bra	ass	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	Seal material	Mark	Working temperature range	Remarks			
	Nitrile rubber	NBR (SG)	-20°C to +80°C	Standard material			
	Fluoro rubber	FKM (X-100)	-20°C to +180°C	Standard material			
	Ethylene-propylene rubber	EPDM (EPT)	-40°C to +150°C	Standard material			

Note: Applicable fluids depend on the body material and seal material. Acceptable working temperature range depends on operating conditions.

Maximum Tightening Torque N m {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.
William took and a second and a

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

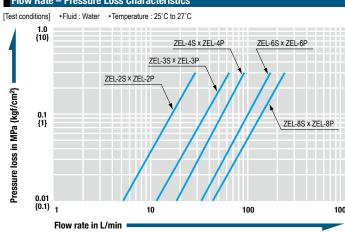
Suitability for Vacuum	ity for Vacuum 1.3 × 10 ⁻¹ Pa {1 × 10 ⁻³ mmHg		
Socket only	Plug only	When connected	
_	_	Operational	

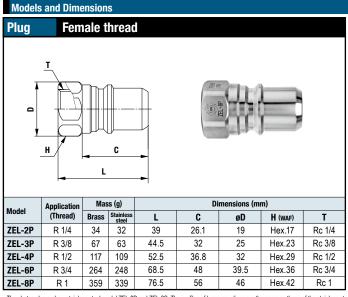
Admixture of Air on Connection May vary depending upon the usage conditions.					(mL)
Model	ZEL-2SP	ZEL-3SP	ZEL-4SP	ZEL-6SP	ZEL-8SP
Volume of air admixture	0.16	0.21	0.37	1.12	1.52

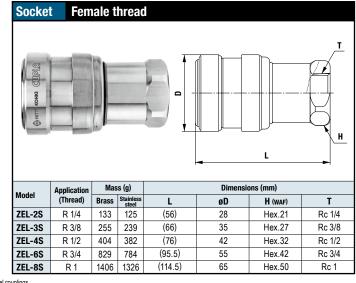
Volume of Spillage per Disconnection May vary depending upon the usage conditions.					(mL)
Model	ZEL-2SP ZEL-3SP ZEL-4SP ZEL-6SP				
Volume of spillage	0.06	0.12	0.20	0.43	0.55

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

Flow Rate - Pressure Loss Characteristics



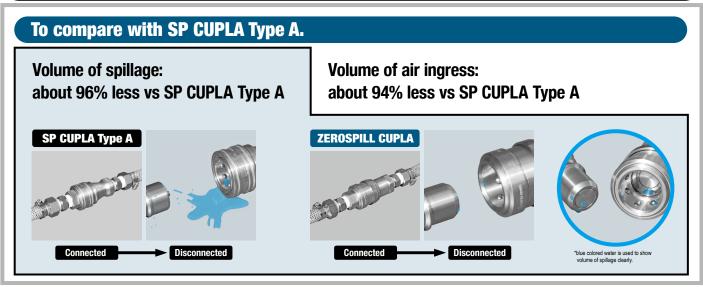




The photos above show stainless steel model ZEL-8P and ZEL-8S. The profiles of brass couplings are the same as those of the stainless steel couplings

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

