For Medium Pressure

Zerospill Cupla

Low spill type for medium pressure use

















- 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	Brass Stainless steel (SUS 304)						
Size (Thread)	1/4", 3/8", 1/2", 3/4", 1"						
Pressure unit	MPa kgf/cm² bar PSI						
Working pressure	3.5	35	35	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.

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May	Tightonin	a Toi	oun,				

Max. Tightening Torque N m {kgf•cm							
Size (Threa	d)	1/4"	3/8"	1/2"	3/4"	1"	
Torque	Brass	9 {92}	12 {122}	30 {306}	50 {510}	65 {663}	
	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.

Different size socket and plug cannot be connected to each other.

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

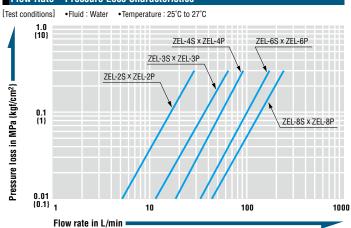
Suitability for Vacuum	n 1.3 × 10 ⁻¹ Pa {1 × 10 ⁻³ mmHg			
Socket only	Plug only	When connected		
_	-	Operational		

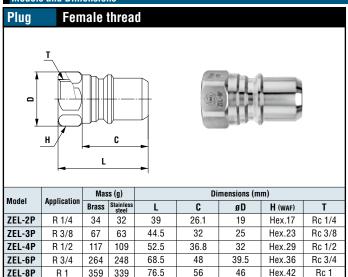
Admixture of Air on Connection May vary depending upon the usage conditions. (mL)						
Model	ZEL-8SP					
Volume of air admixture	0.16	0.21	0.37	1.12	1.52	

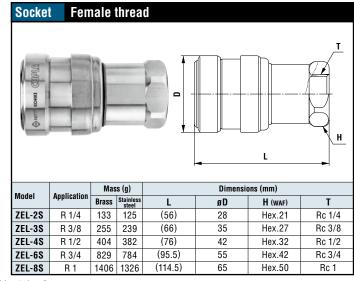
Volume of Spillage per Disconnection May vary depending upon the usage conditions.						
Model	ZEL-2SP	ZEL-3SP	ZEL-4SP	ZEL-6SP	ZEL-8SP	
Volume of spillage	0.06	0.12	0.20	0.43	0.55	

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

Flow Rate - Pressure Loss Characteristics



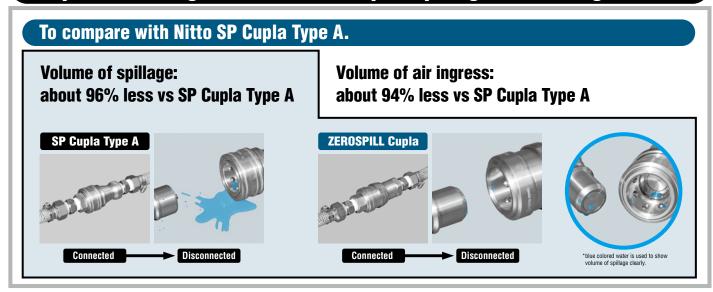




[•] The photos above show stainless steel model ZEL-8P and ZEL-8S. The profiles of brass couplings are the same as those of the stainless steel couplings

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.

