For Medium Pressure Zerospill Cupla Low spill type for medium pressure use Working pressure Valve structure Working pressure Working

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		Brass, Stainless steel (SUS 304)				
Applicable fluids		Water, Hydraulic Oil, Air, Gas				
Size (Thread)		1/4", 3/8", 1/2", 3/4", 1"				
	MPa	3.5				
Working pressure	kgf/cm ²	35				
Working prosourc	bar	35				
	PSI	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.

Max. Tightening Torque N m {kgf•cm}							
Size (Threa	i)	1/4"	3/8"	1/2"	3/4"	1"	
Torque	Brass	9 {92}	12 {122}	30 {306}	50 {510}	65 {663}	
ivique	Stainless steel	14 {143}	22 {224}	60 {612}	90 {918}	120 {1224}	

Flow Direction
Fluid may flow in either direction from plug or from socket side when coupled.
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Interchangeability

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

Min. 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	x 10 ⁻¹ Pa {1 x 10 ⁻³ mmHg}	
Socket only	Plug only	When connected
_	_	Operational

Admixture of Air	(mL)				
Model	odel ZEL-2SP ZEL-3SP ZEL-4SP ZEL-6SP				
Volume of air admixture	0.16	0.21	0.37	1.12	1.52

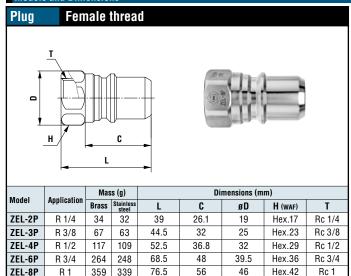
Volume of Spillage per Disconnection Volume of spillage may vary depending upon the usage conditions.						
Model	ZEL-2SP	ZEL-3SP	ZEL-4SP	ZEL-6SP	ZEL-8SP	
Volume of spillage	0.06	0.12	0.20	0.43	0.55	

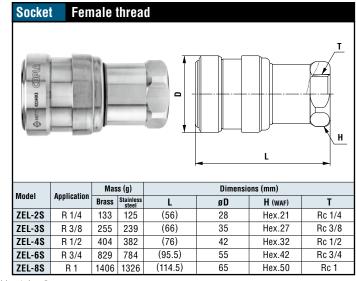
Repeated connections and disconnections of Cuplas or the use of fluids with low viscosity may cause some spillage.

Flow Rate - Pressure Loss Characteristics

Flow rate in L/min

Models and Dimensions WAF: WAF stands for width across flats.

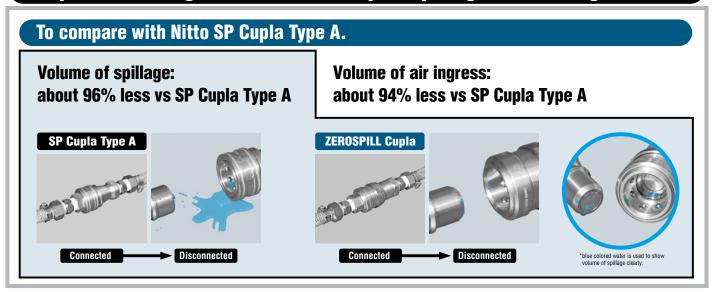




[•] The photos above show stainless steel model ZEL-8P and ZEL-8S. The profiles of brass couplings are the same as those of the stainless steel couplings

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.

