

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)				
Size (Thread)	1/4", 3/8", 1/2", 3/4", 1"				
Pressure unit	MPa	kgf/cm²	bar	PSI	
Working pressure	3.5	36	36	508	
	Seal material	Mark	Working temperature range	Remarks	
Seal material Working temperature range	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 materia	

Note: Applicable fluids depend on the body material and seal material.

Acceptable working temperature range depends on 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}	
ivique	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.

Interchangeabilit

Socket and plug of different sizes cannot be connected.

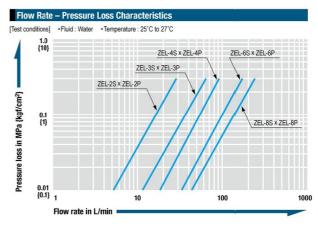
Minimum Cross-Sectional Area					(mm²)
Model	ZEL-2SP	ZEL-3SP	ZEL-4SP	ZEL-6SP	ZEL-8SP
Min. cross-sectional area	31	60.5	86.5	160.6	188.7

Suitability for Vacuum	1	1.3 x 10 ⁻¹ Pa {1 x 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	112	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 chillage	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



Models and Dimensions

Female thread

Mass (g)

264 248

34 32

67 63

117 109

Plug

ZEL-2P

ZEL-3P

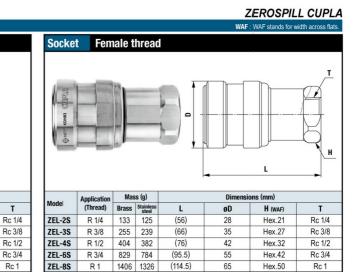
ZEL-4P

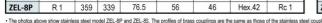
ZEL-6P

R 1/4

R 3/8

R 1/2





C

26.1

32

36.8

48

øD

19

25

32

39.5

H (WAF)

Hex.17

Hex.23

Hex.29

Hex.36

L

39

44.5

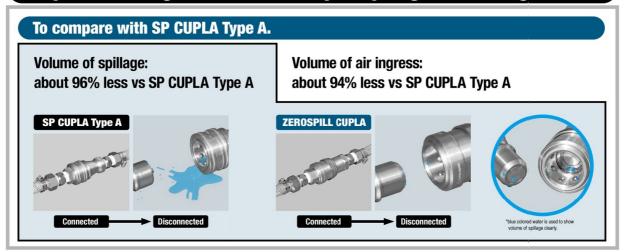
52.5

68.5

Main Features

Unique seal design reduces both liquid spillage and air ingress

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Reliable zero friction valve

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

