# SUZPV22

# **Quick Connectors**



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#### **Features**

- Quick connector can be installed on a variety of containers such as small container, tank lorry and ISO container, and it is reliable on chemical supply stably and safely.
- There is a option of body materials such as fluorine resin and polyethylene to meet cost and applications.

#### **Model Selection Table**

	Model	Connection size	Body material	Feature / Overview	Reference application	Connection type	Miss-connection preventing structure
For high purity chemicals	QCH	3/8"~40A	PCTFE	Multipurpose connector	For pressurized container 100L, 200L, 1m³, 2m³ Lorry, ISO container	Pull sleeve	Contact us
	QC4F	1/2" · 3/4"	PTFE	No compatibility with other connectors	For pressurized container 100L, 200L, 1m³, 2m³	Pull sleeve	Not available
	MQC-ML	1/4"	PTFE	Tube fitting also available	For pump up	Super one-touch	Not available
	TKM	1/2" · 3/4"	PCTFE	Liquid drop prevention	For pressurized container 100L, 200L	Super one-touch	Contact us
	TKM-BPF	+	PFA	Liquid drop prevention	For pressurized container 15L, 18L	Super one-touch	Available
	TKM-BQ4F		PTFE	for compact bottle			Available
	BQC		PCTFE	Multipurpose connector for compact bottle	For pressurized container 15L, 18L	Pull sleeve	Not available
	BPF		PFA				Not available
	BQ4F		PTFE				Not available
	PDC	1/2" · 3/4"	PFA (PCTFE)	Liquid drop prevention for link	For pump up 200L power drum	Super one-touch	Available
	AQCB	50A	Fluorine resin	With safety lock with washing & drying function SUS-made Auto connector is available.	For pressurized container 1m³, 2m³ Lorry, ISO container	Air operation	Available
For general chemicals	USE		HDPE	For one-way PE molded and low cost No-valve and prevention liquid spout type	For pump up 200L drum	Super one-touch	Available
	USE1000	equiv. 3/4"	(Plug side)		For pump up IBC power tote, 1000L container	Super one-touch	Not available
	USE20	equiv. 3/8"	HDPE	For Compact bottle	For pump up 20L, gallon bottle	Screw in	Not available
For DI water	QCP	3/8"~1/2"	PP	lightweight	Semiconductor device hand shower etc.	Pull sleeve	Not available



## **Connector Variation**

#### **Total Coordination**

## **Auto Connector**

Auto Connector Model AQCB has been developed to supply chemicals safely and clean when high purity chemicals are supplied to semiconductor and FPD factory.



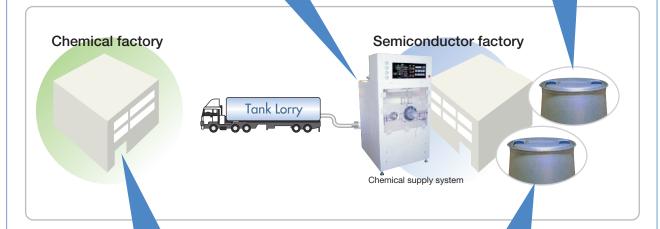
: No need for manual connection. Clean

: Washing & drying by Surpass original Eddy-cyclone method.

Compact: Easy to use compact design.



#### Push down Connector PDC Push-Down Connector is a handy Repeat connector used to transfer high purity EL chemicals. The new mechanism is developed specially for PDC. It eliminates liquid drop when detaching the connector. The auto-stop structure minimized interfusion of foreign particles in case of the attaching/detaching of the connector. Surpass original "Super one-touch method" enables the connection of the PDC by one single push. Push-Down connector Push-Down co Surpass original Key-groove and dimension systems prevent connection-error and contamination with wrong types of chemicals. Push-Down -connector plug Ø16ר13 Gas side Liquid side



#### **Takumi Connector**

Takumi is a new manual type connector that implementing the new function of PDC.



- Employs Auto-stop structure. The new mechanism is developed, which eliminates
- liquid drop when detaching the connector.

   Surpass original "Super one-touch method" enables the connection of the TKM by one single push.

# Liquid drop prevention type

### **USE-ONE Connector**

## **USE-ONE**



USE-ONE Connector is used for chemicals in general industry and semiconductor / liquid crystal market.



- It is easy installation on the drum for siphon tube is integrated into the connector.

  The connector is designed for simple structure such as no-moving part or no excess parts on it.

  "Super One-touch connection method" can make operation easier.

  Surpass original Key-groove and dimension systems prevent connection-error and contamination with wrong types of chemicals.

  The mechanism to prevent liquid spouting is employed. No vave simple structure is ensuring safety measure.

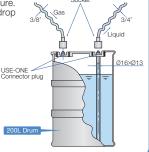
  Socket on fluid side has a liquid drop prevention mechanism.

  Push-Down connector Socket

  Gas

  3/4\*





# **Connector Variation**

One-port type



Cleaning type



Pail can



**22L PE Container** 



QCH Color ring



●200L Drum



**STKM** 



Comprehensive line up



●100/200L pressurized container



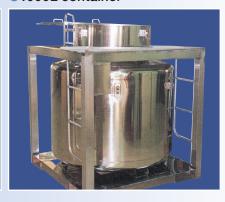
PFA 18L Container



Chemical drum



●1000L container



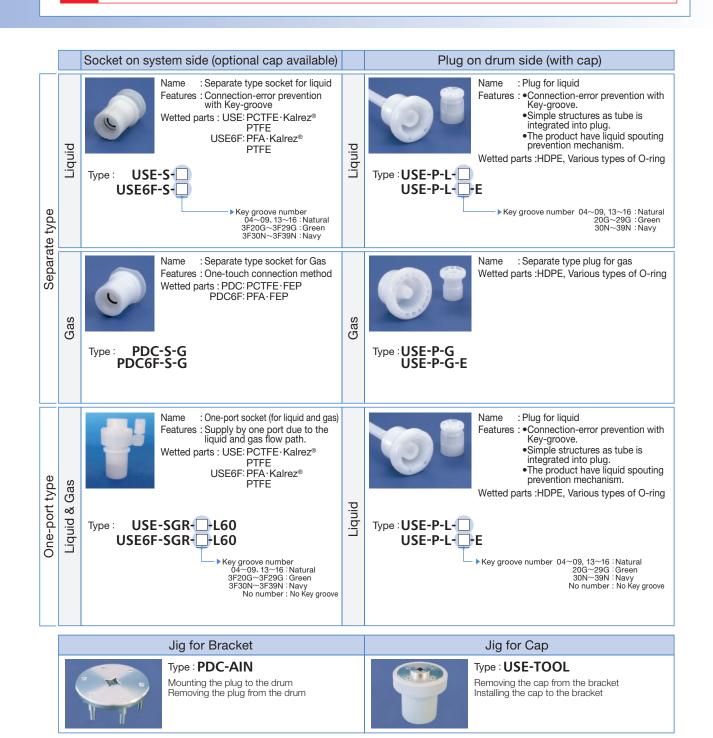


## Model USE One-way PE Connector (For 200L plastic drum) RoHS2

#### **Features**

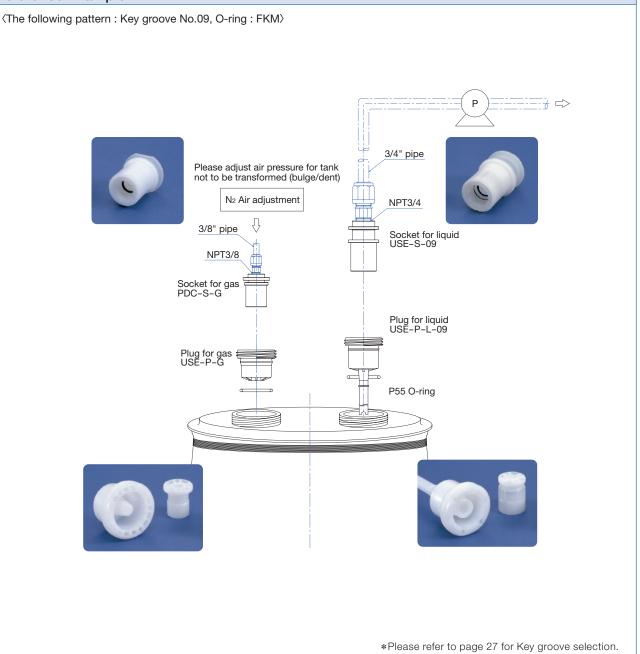
- The plug side have no-moving part and simple structure due to one piece of molding.
- OUSE plug is easy to connect to drum.
- The product have liquid spouting prevention mechanism to ensure safety.
- OConnection-error prevention type with key grooves are available.
- O Super one-touch connection method makes smooth operation.
- OLiquid drop prevention structure adopted when detaching

Caution Please be cautious that cracking may occur depending on the chemical (surface-active agent etc.) used in PE.



# Model USE One-way PE Connector (Separate type) RoHS2

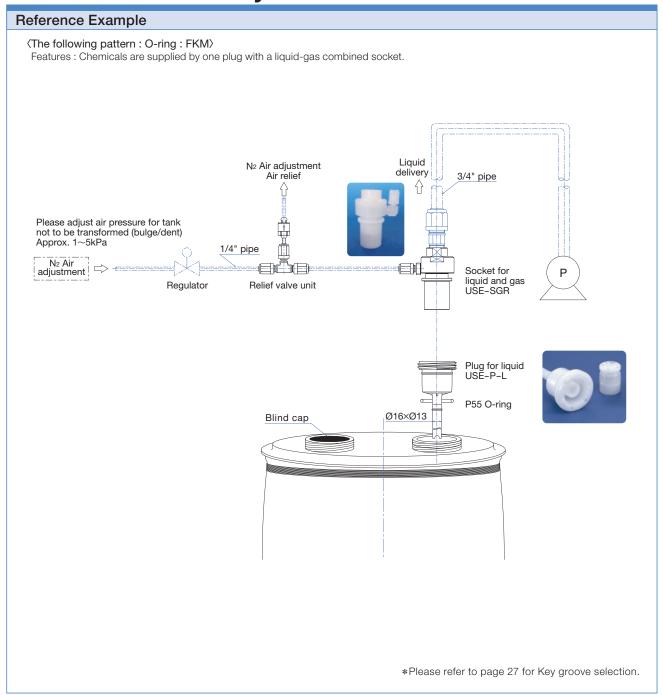
Reference Example

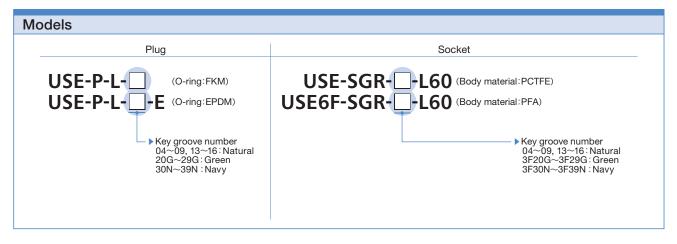


	Plug	Socket		
70	USE-P-L- (O-ring:FKM)	USE-S- (Body material: PCTFE)		
iquid	USE-P-L- (O-ring:EPDM)	USE6F-S- (Body material: PFA)		
	► Key groove number 04~09, 13~16 : Natural 20G~29G : Green 30N~39N : Navy	► Key groove number 04~09, 13~16∶Natural 3F20G~3F29G∶Green 3F30N~3F39N∶Navy		
	USE-P-G (O-ring:FKM)	PDC-S-G (Body material: PCTFE)		
Gas	USE-P-G-E (O-ring:EPDM)	PDC6F-S-G (Body material:PFA)		

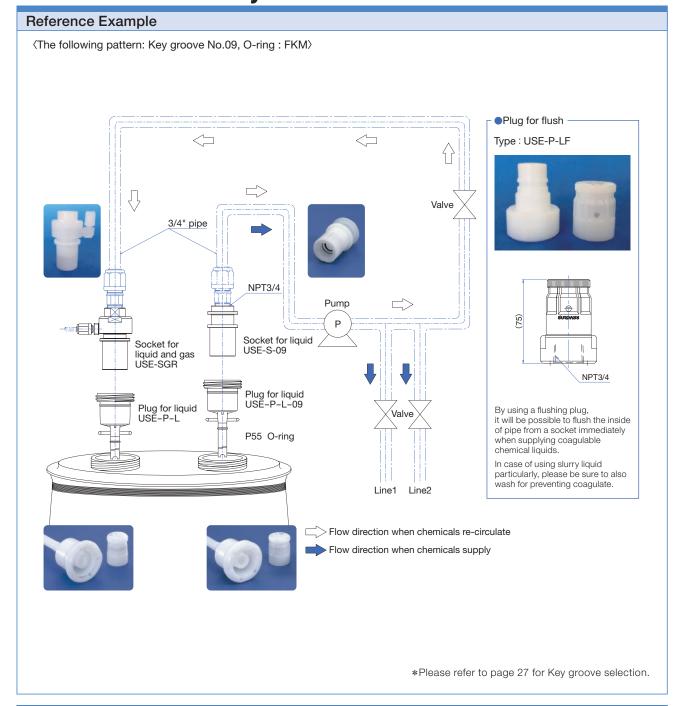


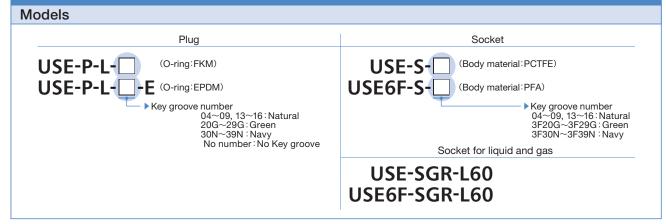
# Model USE One-way PE Connector (One-port type) RoHS2





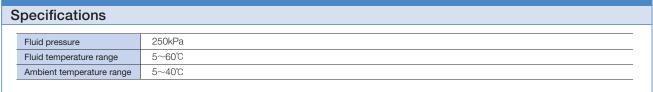
## Model USE One-way PE Connector (Re-circulation type) RoHS2

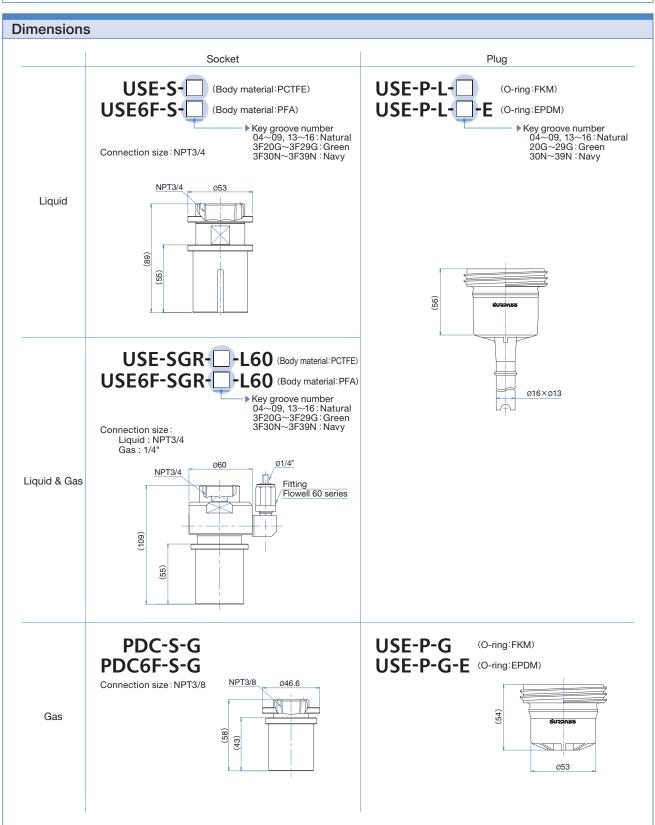




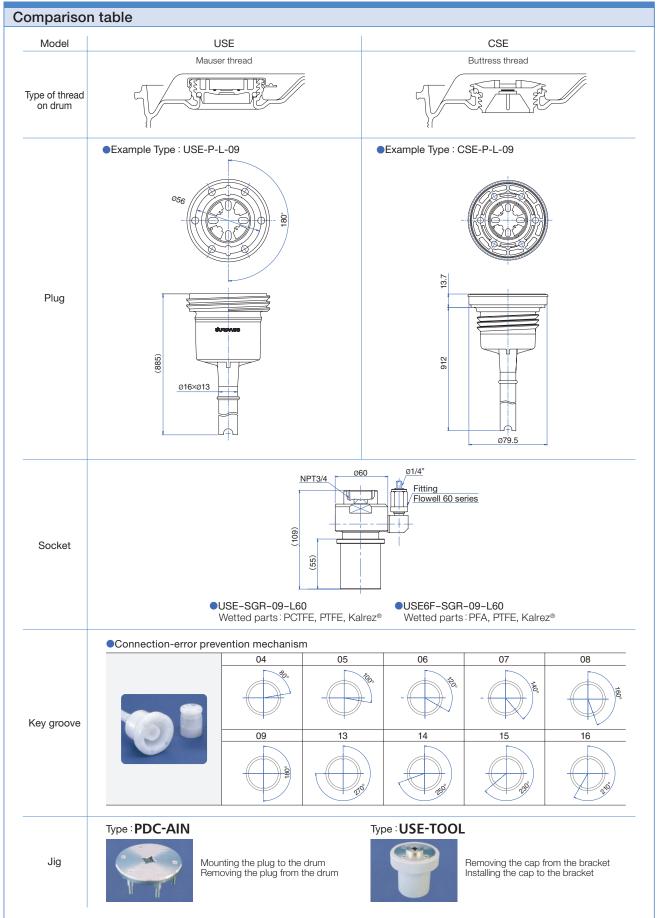


# Model USE One-way PE Connector Specifications / Dimensions





# Model USE/Model CSE One-way PE Connector Comparison table





# Model USE One-way PE Connector (Key Groove Selection Table)

Voy Cross List							
Key Groove List							
	04	05	06	07	08		
Standard Key groove	\$50	ig.	- (1)	- Ada	160°		
	09	13	14	15	16		
	180°	210	258	228	218		
	20G	21G	22G	23G	24G		
Type-G Key groove	***	(a)		, tao	1600		
	25G	26G	27G	28G	29G		
	180°	210	2505	250	2/15		
	30N	31N	32N	33N	34N		
Type-N Key groove	<b>%</b>	600		Tá l	1500		
	35N	36N	37N	38N	39N		
	180°	270	299		2,8		
Please contact us for key groove selection.							

#### Safety Instructions -



- Sefore using the product, read the instruction manual carefully and use it correctly.
  We are not liable for accidents that occurred during use other than those described in the instruction manual.
- OUse this product within the specified range.
- Confirm the compatibility of the product material with the type of fluid and ambient atmosphere before use.
- ©Do not detach quick connectors under pressurized conditions. It may cause chemical fluid to splash out, and injuries or serious accidents.
- OUsing inappropriate O-ring material may cause leakage. Before specifying O-ring material to be used, make sure that is compatible with fluid type and temperature.
- ODo not use fluids that contain refuse or foreign matter, as this may interfere with normal function.
- OAbrasive or coagulate fluids may interfere with normal function, and take measures to prevent stacking residue on the wetted parts.
- ODo not use quick connectors in applications subject to flexural or tensile stress.
- OMake sure that every detachments of quick connectors are done in a clean, dust-free area.
- ODo not use the product with excessive vibration or shock.
- OWhen detach quick connectors, always wear a protective face mask, gloves, clothing.
- ©Fully examine and select the appropriate material for the wetted parts.
- ODo not use the product in a harsh environment where fluid temperature changes rapidly, as this may cause damage to the product.
- OWhen storing the USE type connector, manage it indoors in a dark place or a place not exposed to ultraviolet rays.
- OThe data is reference value, not a guaranteed value.
- OThere is a risk of cracking connector material based upon the chemical solution used. Please be cautious to select the material before use.
- Periodic inspection should be performed for safety when using chemical solution with high permeability for long time.
- Olf static electricity is generated, the equipment may seriously damage. Please use after applying antistatic measures.
- Do not warm up the product directly from the outside. It may cause external or internal leakage failure.
- Kalrez® is a registered trademark of DuPont.
- Flowell 60 series is a trademark of Flowell Co., Ltd.