

# Series KDM

## Rectangular Multi-connector

Multi-connector is effective in saving labor for separate transportation of the panel and the machine and for exchanging units due to failure.

### Substantial reduction in mounting space

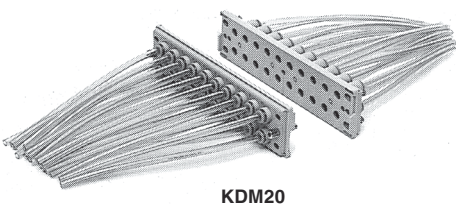
In comparison with a model requiring many union joints for panels and partitions, this model needs only a small space.

### One-touch connection/disconnection of tubing

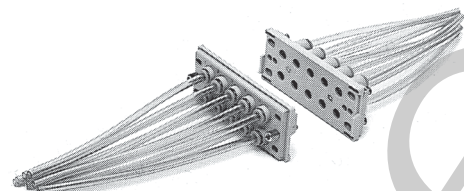
Multiple pipes can be connected/disconnected in one-touch operation without connection error. Thus man-hours for connection/disconnection is cut down substantially.

### One-touch tube connection

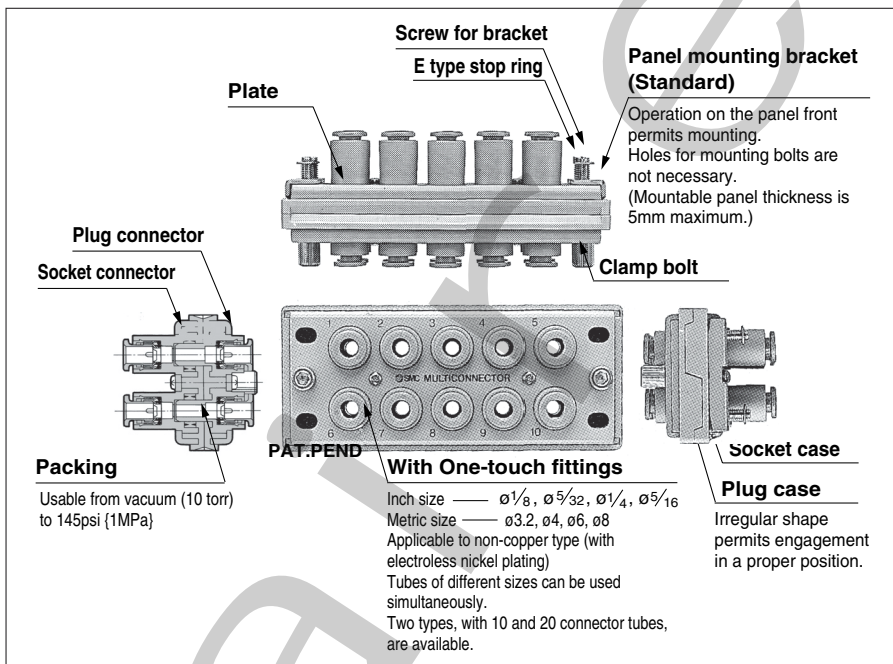
One-touch fittings substantially cuts down man-hour for piping.



KDM20



KDM10



### Model

Number of connecting tubes	Tube O.D.	Part No. Inch		Color of release button	Tube O.D.	Part No. Metric		Color of release button
		Plug	Socket			Plug	Socket	
		Inch	Inch			Inch	Inch	
10	$\phi 1/8$	KDM10P-01	KDM10S-01	Red	$\phi 3.2$	KDM10P-23	KDM10S-01	Blue
	$\phi 5/32$	KDM10P-03	KDM10S-03		$\phi 4$	KDM10P-04	KDM10S-03	
	$\phi 1/4$	KDM10P-07	KDM10S-07		$\phi 6$	KDM10P-06	KDM10S-07	
	$\phi 5/16$	KDM10P-09	KDM10S-09		$\phi 8$	KDM10P-08	KDM10S-09	
20	$\phi 1/8$	KDM20P-01	KDM20S-01	Red	$\phi 3.2$	KDM20P-23	KDM20S-01	Blue
	$\phi 5/32$	KDM20P-03	KDM20S-03		$\phi 4$	KDM20P-04	KDM20S-03	
	$\phi 1/4$	KDM20P-07	KDM20S-07		$\phi 6$	KDM20P-06	KDM20S-07	
	$\phi 5/16$	KDM20P-09	KDM20S-09		$\phi 8$	KDM20P-08	KDM20S-09	

### Applicable Tube Material

Tube material	Nylon, Soft nylon, Polyurethane	
Tube O.D.	Inch	$\phi 1/8, \phi 5/32, \phi 1/4, \phi 5/16$
	Metric	$\phi 3.2, \phi 4, \phi 6, \phi 8$

### Specifications

Operating fluid	Air
Max. operating pressure	145psi {1.0MPa}
Max. operating vacuum pressure	1.3KPa {10Torr}
Proof pressure	220psi {1.5MPa}
Ambient and fluid temperature	32 to 140°F {0 to 60°C}

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## Principal Element Material

Plug case, Socket case		POM
Plate, Bracket		SPCC Plated
Plug connector Socket connector	Body	PBT, C3604BD Electroless nickel plated (ø5/16, ø8)
	Chuck	Stainless steel (SUS304)
	Guide	C3604BD Electroless nickel plated, POM (ø5/16, ø8)
	Collet Release button	POM
	Packing	NBR
Clamp bolt, Screw for bracket, Cross-recessed head machine screw		SWRM Nickel Plated
E type stop ring		Stainless steel (SUS304)

## Part No.

Number of connecting tubes	Tube O.D.	Part No. Inch		Color of release button	Tube O.D.	Part No. Metric		Color of release button
		Plug	Socket			Plug	Socket	
10	ø1/8	KDM10P-01	KDM10S-01	Red	ø3.2	KDM10P-23	KDM10S-01	Blue
	ø5/32	KDM10P-03	KDM10S-03		ø4	KDM10P-04	KDM10S-03	
	ø1/4	KDM10P-07	KDM10S-07		ø6	KDM10P-06	KDM10S-07	
	ø5/16	KDM10P-09	KDM10S-09		ø8	KDM10P-08	KDM10S-09	
20	ø1/8	KDM20P-01	KDM20S-01	Red	ø3.2	KDM20P-23	KDM20S-01	Blue
	ø5/32	KDM20P-03	KDM20S-03		ø4	KDM20P-04	KDM20S-03	
	ø1/4	KDM20P-07	KDM20S-07		ø6	KDM20P-06	KDM20S-07	
	ø5/16	KDM20P-09	KDM20S-09		ø8	KDM20P-08	KDM20S-09	

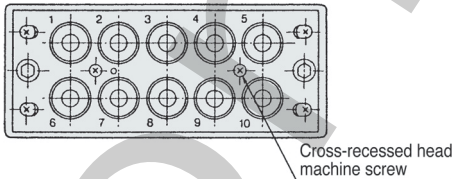
## Mixed sizes of plug connectors and socket connectors

The rectangular multi-connector permits connector exchange in any desired position, thus allowing use of different sizes of tubes.

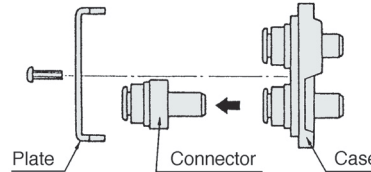
## Part No.

Connector	Tube O.D.	Part No.		Color of release button	Tube O.D.	Part No.		Color of release button
		Inch	Metric			Metric	Metric	
Plug Connector	ø1/8	KDMP-01		Red	ø3.2	KDMP-23		Blue
	ø5/32	KDMP-03			ø4	KDMP-04		
	ø1/4	KDMP-07			ø6	KDMP-06		
	ø5/16	KDMP-09			ø8	KDMP-08		
Socket connector (With packing)	ø1/8	KDMP-01		Red	ø3.2	KDMP-23		Blue
	ø5/32	KDMP-03			ø4	KDMP-04		
	ø1/4	KDMP-07			ø6	KDMP-06		
	ø5/16	KDMP-09			ø8	KDMP-08		

- Loosen the cross-recessed head machine screw using a Phillips screwdriver to remove the plate from the case.



- After placing connectors in desired location, affix the plate to the case with a Phillips screwdriver.

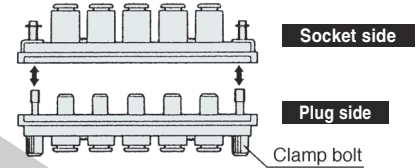


## How to Use

### Caution

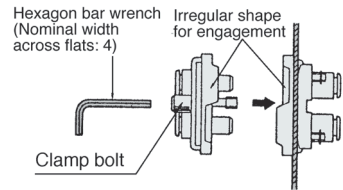
#### Separation

Loosen the clamp bolt to separate the plug side from the socket side.



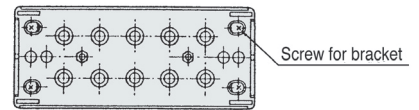
#### Connection

Put together the irregular faces for engagement and connect the plug case to the socket. After tightening the clamp bolt by hand, tighten it further with hexagon bar wrench (nominal width across flats:4)

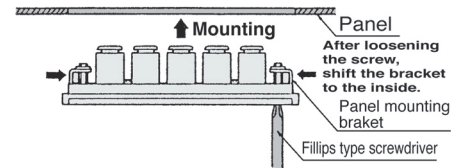


#### Panel mounting

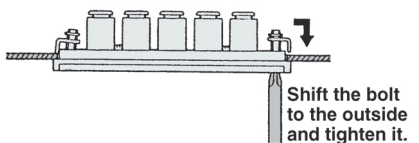
- Loosen (4) screws for bracket on the socket side using a Phillips type screwdriver (JIS nominal No.2) until the bracket touches the stop ring.



- Shift the panel mounting bracket to the inside (Move the screw for bracket in the longitudinal direction of the slot) and put the connector in the panel mounting hole. (Panel mounting hole: See Dimensions.)



- After shifting the bolt for bracket to the outside, tighten the bolt with a Phillips type screwdriver to fix the socket case.



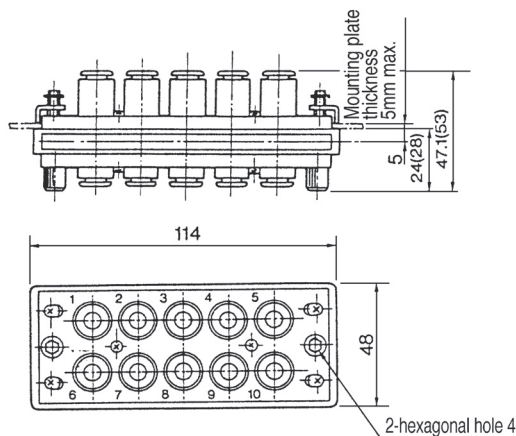
- Loosen the screw for bracket until the bracket touches the stop ring and shift the bracket to the inside to remove the connector from the panel.

# Series KDM

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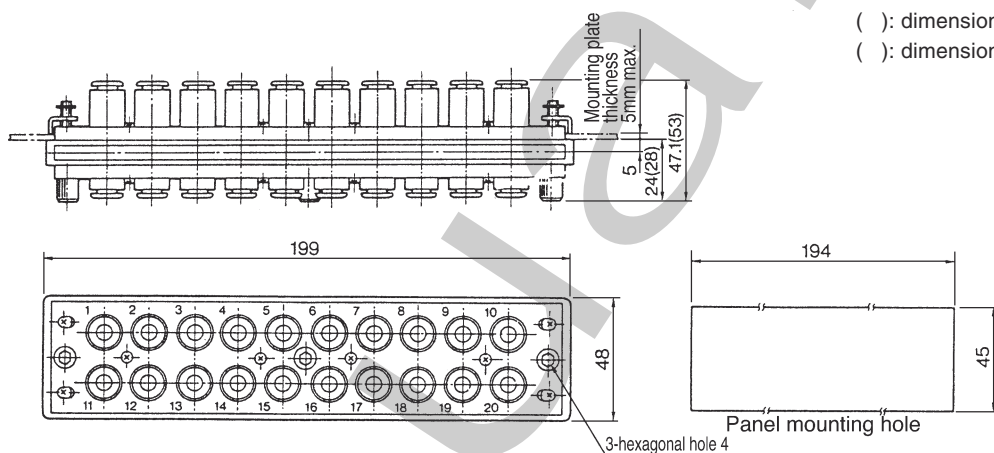
### Dimensions

#### KDM10



( ) : dimensions for KDM10-09 Inch  
( ) : dimensions for KDM10-08 Metric

#### KDM20



( ) : dimensions for KDM20-09 Inch  
( ) : dimensions for KDM20-08 Metric

### ⚠ Precautions

Be sure to read before handling.

### ⚠ Caution

Refer to "Air Fittings & Tubing Precautions" for the details of installation/removal of One-touch fittings and other precautions.

### Made to Order

Contact P/A for detailed specifications, dimensions and delivery.

#### Mixed tube size type

Mixed tube size manifolds are available to meet your individual requirements. Consult your P/A sales representative for availability.

#### Other tube sizes

Tube size (O.D.)	Number of connection	Part No.
ø10	6	IN-254-52
ø12	6	IN-254-53