Rectangular Multi-connector **KDN Series** No. of Connecting Tubes: 10, 20



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 connector

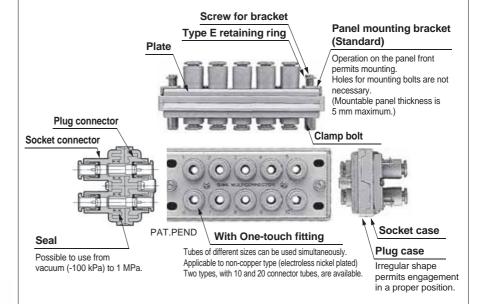
Multiple pipes can be connected/disconnected in one-touch operation without connection error. Thus man-hours for connection/dis-connection are cut down substantially.

One-touch tube connection

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







Model

No. of connecting tubes	Tubing O.D.	Model	Weight (g)	Colour of release button
10	Ø 3.2	KDM10-23		
	Ø 4	KDM10-04	300	
	Ø6	KDM10-06		
	Ø8	KDM10-08	520	Dive
20	Ø 3.2	KDM20-23		Blue
	Ø 4	KDM20-04	520	
	Ø6	KDM20-06		
	Ø8	KDM20-08	950	

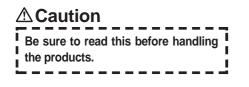
Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon, Polyurethane
Tubing O.D.	Ø 3.2, Ø 4, Ø 6, Ø 8

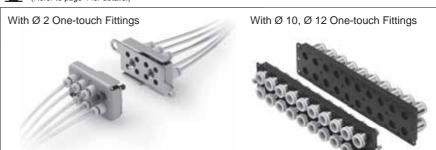
Specifications

Fluid	Air	
Operating pressure range Note)	-100 kPa to 1 MPa	
Proof pressure	1.5 MPa	
Ambient and fluid temperature	-5 to 60 °C (No freezing)	

Note) Please avoid using in a vacuum holding application such as a leak tester, since there is leakage.



Made to Order Order (Refer to page 4 for details.)



SMC

KDM Series

Principal Parts Material

Plug case, Socket case		POM	
Plate, Bracket		SPCC plated	
	Body	PBT, C3604 Electroless nickel plated (Ø 8)	
	Chuck	Stainless steel 304	
Plug connector, Socket connector	Guide	Stainless steel 304, C3604 Electroless nickel plated, PBT (Ø 8)	
	Collet, Release button	POM	
	Seal	NBR	
Clamp bolt, Screw for bracket, Cross-recessed head machine screw		SWRM (Nickel plated)	
Type E retaining ring		Stainless steel 304	

Model

No. of connection	Tubing	Model		Colour of
tubes	O.D.	Plug	Socket	release button
	Ø 3.2	KDM10P-23	KDM10S-23	
10 -	Ø 4	KDM10P-04	KDM10S-04	
	Ø 6	KDM10P-06	KDM10S-06	
	Ø 8	KDM10P-08	KDM10S-08	Blue
20 -	Ø 3.2	KDM20P-23	KDM20S-23	Diue
	Ø 4	KDM20P-04	KDM20S-04	
	Ø6	KDM20P-06	KDM20S-06	
	Ø 8	KDM20P-08	KDM20S-08	

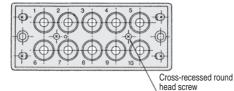
Mixed Sizes of Plug Connectors and Socket Connectors

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

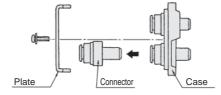
Model

Connector	Tubing O.D.	Model	Colour of release button
	Ø 3.2	KDMP-23	
Plug	Ø 4	KDMP-04	
connector	Ø6	KDMP-06	
	Ø 8	KDMP-08	Blue
Socket	Ø 3.2	KDMS-23	Dide
	Ø 4	KDMS-04	
(with seal)	Ø6	KDMS-06	
(min occi)	Ø 8	KDMS-08	

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

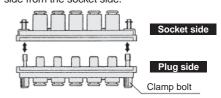


2. After exchanging connectors in desired places, fix the plate to the case by using a Phillips screwdriver.



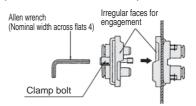


Separation Loosen the clamp bolt to separate the plug side from the socket side.



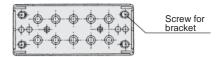
Connection

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 allen wrench (nominal width across flats: 4).

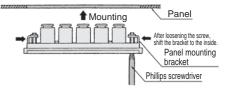


Panel mounting

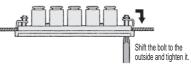
 Loosen (4) screws for bracket on the socket side using a Phillips screwdriver (JIS nominal No. 2) until the bracket touches the stop ring.



 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.)

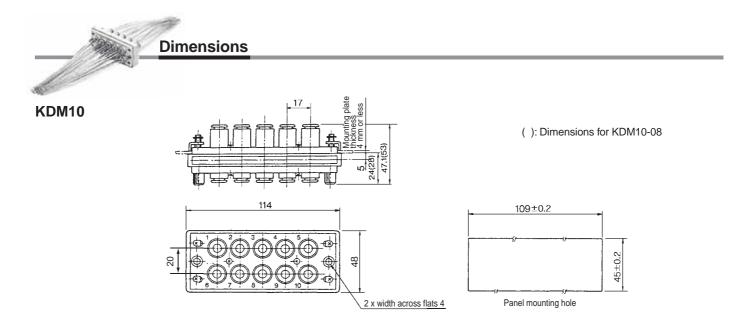


3. After shifting the bolt for bracket to the outside, tighten the bolt by a Phillips screwdriver to fix the socket case.

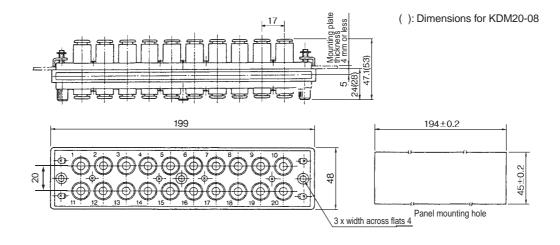


4. Loosen the screw for bracket until the bracket touches the stop ring and shift the bracket to the inside to remove the connector from the panel.

Rectangular Multi-connector **KDM Series**



KDM20



KDM Series **Made to Order Specifications**



Please contact SMC for detailed dimensions, specifications and lead times.

1 Grease-free Specifications

Symbol	Specifications
X17	Grease-free Rubber material: NBR (With fluorine coating) Release button colour: Light blue
X39	Grease-free Rubber material: NBR (With fluorine coating) Release button colour: Light blue Clean (Copper-free, air blow, double package)

Suffix "-X17" to the end of part number.

Example) KDM10-04-X17

2 Other Specifications

Symbol	Specifications	
X12	Lubricant: White Vaseline Release button colour: White	
X1526	Non-standard mounting panel thickness (4 to 5 mm)	

3 Mixed Tubing Size Type

Tubes of different sizes can be used simultaneously.

• Tubing size: Ø 3.2, Ø 4, Ø 6, Ø 8

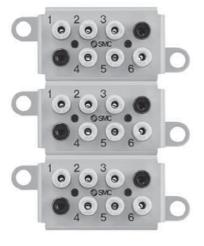
Number of connecting tubes: 10, 20

4 Other Tubing Size

Tubing size O.D.	Connection no.	Part no.
Ø 10	6	IN-254-52
Ø 12	6	IN-254-53

5 With Ø 2 One-touch Fittings

Mounting example



Secure mounting

A single panel side opening for full access.

Socket case

SMC

Clamp bolt Fix the socket case and the plug case with the clamp bolts.

Socket case fixing bolt (M4 with head diameter of Ø 7 or less) Provided by customer.

Panel side

Inch-size Rectangular Multi-connector **KDM** Series RoHS No. of Connecting Tubes: 10, 20

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 connector

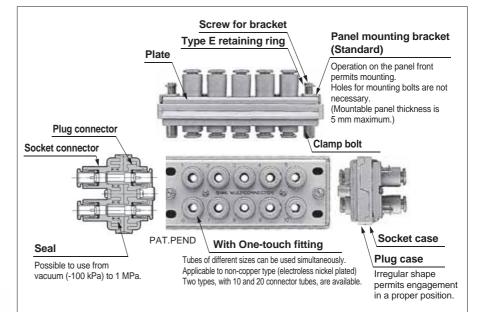
Multiple pipes can be connected/disconnected in one-touch operation without connection er-ror. Thus man-hours for connection/dis-connection are cut down substantially.

One-touch tube connection

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







Model

L				
No. of connecting tubes	Tubing O.D.	Model	Weight (g)	Colour of release button
10	Ø 1/8"	KDM10-01		
	Ø 5/32"	KDM10-03	300	
	Ø 1/4"	KDM10-07		
	Ø 5/16"	KDM10-09	520	Ded
20	Ø 1/8"	KDM20-01		Red
	Ø 5/32"	KDM20-03	520	
	Ø 1/4"	KDM20-07		
	Ø 5/16"	KDM20-09	950	

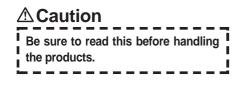
Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon, Polyurethane
Tubing O.D.	Ø 1/8", Ø 5/32", Ø 1/4", Ø 5/16"

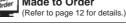
Specifications

-		
Fluid	Air	
Operating pressure range Note)	-100 kPa to 1 MPa	
Proof pressure	1.5 MPa	
Ambient and fluid temperature	-5 to 60 °C (No freezing)	

Note) Please avoid using in a vacuum holding application such as a leak tester, since there is leakage.









KDM Series

Principal Parts Material

Plug case, Socket case		POM
Plate, Bracket		SPCC plated
Plug connector, Socket connector	Body	PBT, C3604 Electroless nickel plated (Ø 8)
	Chuck	Stainless steel 304
	Guide	Stainless steel 304, C3604 Electroless nickel plated, PBT (Ø 8)
	Collet, Release button	POM
	Seal	NBR
Clamp bolt, Screw for bracket, Cross-recessed head machine screw		SWRM (Nickel plated)
Type E retaining ring		Stainless steel 304

Model

No. of connection	Tubing	Tubing Model		Colour of
tubes	O.D.	Plug	Socket	release button
10	Ø 1/8"	KDM10P-01	KDM10S-01	
	Ø 5/32"	KDM10P-03	KDM10S-03	
	Ø 1/4"	KDM10P-07	KDM10S-07	
	Ø 5/16"	KDM10P-09	KDM10S-09	Red
20	Ø 1/8"	KDM20P-01	KDM20S-01	Reu
	Ø 5/32"	KDM20P-03	KDM20S-03	
	Ø 1/4"	KDM20P-07	KDM20S-07	
	Ø 5/16"	KDM20P-09	KDM20S-09	

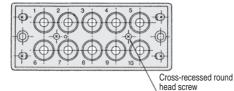
Mixed Sizes of Plug Connectors and Socket Connectors

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

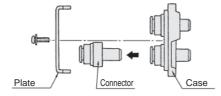
Model

Connector	Tubing O.D.	Model	Colour of release button
	Ø 1/8"	KDMP-01	
Plug	Ø 5/32"	KDMP-03	
connector	Ø 1/4"	KDMP-07	
	Ø 5/16"	KDMP-09	Red
Socket	Ø 1/8"	KDMS-01	Reu
connector	Ø 5/32"	KDMS-03	
(with seal)	Ø 1/4"	KDMS-07	
	Ø 5/16"	KDMS-09	

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



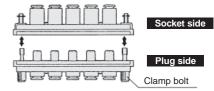
2. After exchanging connectors in desired places, fix the plate to the case by using a Phillips screwdriver.





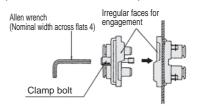
Separation

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



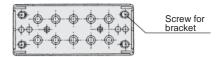
Connection

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 allen wrench (nominal width across flats: 4).

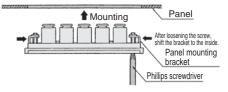


Panel mounting

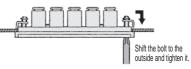
 Loosen (4) screws for bracket on the socket side using a Phillips screwdriver (JIS nominal No. 2) until the bracket touches the stop ring.



 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.)

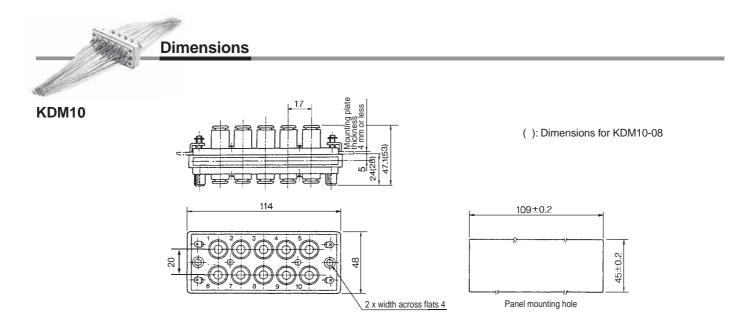


3. After shifting the bolt for bracket to the outside, tighten the bolt by a Phillips screwdriver to fix the socket case.

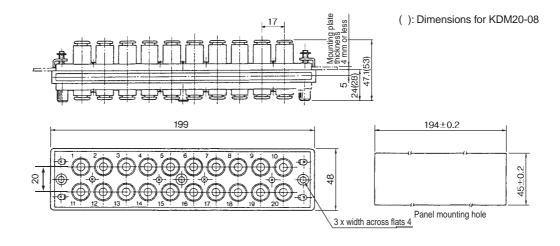


4. Loosen the screw for bracket until the bracket touches the stop ring and shift the bracket to the inside to remove the connector from the panel.

Inch-size Rectangular Multi-connector **KDM Series**



KDM20



KDM Series Made to Order Specifications Please contact SMC for detailed dimensions, specifications and lead times.



1 Grease-free Specifications

Symbol	Specifications	
X17	Grease-free Rubber material: NBR (With fluorine coating) Release button colour: Light blue	
X39	Grease-free Rubber material: NBR (With fluorine coating) Release button colour: Light blue Clean (Copper-free, air blow, double package)	

Suffix "-X17" to the end of part number.

Example) KDM10-04-X17

2 Other Specifications

Symbol	Specifications
X12	Lubricant: White Vaseline Release button colour: White
X1526	Non-standard mounting panel thickness (4 to 5 mm)

3 Mixed Tubing Size Type

Tubes of different sizes can be used simultaneously.

• Tubing size: Ø 3.2, Ø 4, Ø 6, Ø 8

• Number of connecting tubes: 10, 20