Rectangular Multi-connector Series KDM

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.

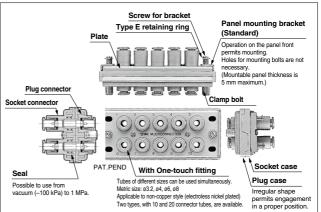






∧ Caution

Be sure to read before handling. I Refer to front matter 56 for Safety Instructions and pages 13 to 16 for Fittings and Tubing Precautions.



NA - -I - I

wodei				
No. of connecting tubes	Tubing O.D.	Model	Weight (g)	Color of release button
	ø3.2	KDM10-23		
10	ø 4	KDM10-04	300	
10	ø 6	KDM10-06		
	ø 8	KDM10-08	520	5.
	ø3.2	KDM20-23		Blue
20	ø 4	KDM20-04	520	
20	ø 6	KDM20-06		
	ø 8	KDM20-08	950	

Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon, Polyurethane
Tubing O.D.	ø3.2, ø4, ø6, ø8

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.

KQ2

KQB2

KM

KF

M H/DL L/LL

KC

KK130

DM KDM

KB

KR

KA

KOG2 KG

KFG2

MS

KKA KP

L₀

MQR

Principal Parts Material

incipai i ai tə iv	iatoriai		
Plug case, Socket case Plate, Bracket		POM	
		SPCC plated	
	Body	PBT, C3604 Electroless nickel plated (ø8)	
	Chuck	Stainless steel 304	
Plug connector, Socket connector	Guide	Stainless steel 304, C3604 Electroless nickel plated, PBT (Ø8)	
Cocket conficctor	Collet, Release button	POM	
	Seal	NBR	
Clamp bolt, Screw for bracket, Cross-recessed head machine screw Type E retaining ring		SWRM (Nickel plated)	
		Stainless steel 304	

Model

No. of connection	Tubing	Model		Color of
tubes	O.D.	Plug	Socket	release button
	ø3.2	KDM10P-23	KDM10S-23	
10	ø 4	KDM10P-04	KDM10S-04	
10	ø 6	KDM10P-06	KDM10S-06	
	ø 8	KDM10P-08	KDM10S-08	Blue
	ø3.2	KDM20P-23	KDM20S-23	Diue
20	ø 4	KDM20P-04	KDM20S-04	
20	ø 6	KDM20P-06	KDM20S-06	
	ø 8	KDM20P-08	KDM20S-08	

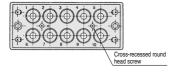
Mixed Sizes of Plug Connectors and Socket Connectors

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

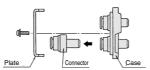
Model

Connector	Tubing	Model	Color of
	O.D.	inodo.	release button
	ø3.2	KDMP-23	
Plug	ø 4	KDMP-04	
connector	ø 6	KDMP-06	
	ø 8	KDMP-08	Blue
Socket	ø3.2	KDMS-23	blue
connector	ø 4	KDMS-04	
(with seal)	ø 6	KDMS-06	
(with sour)	ø 8	KDMS-08	

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



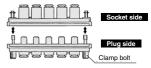
After exchanging connectors in desired places, fix the plate to the case by using a Phillips screwdriver.



How to Use

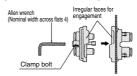
Separation

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).

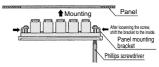


Panel mounting

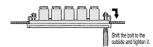
 Loosen (4) screws for bracket on the socket side using a Phillips screwdriver (JIS nominal No. 2) until the bracket touches the stop ring.



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.)



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

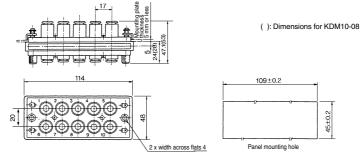


4. Loosen the screw for bracket until the bracket touches the stop ring and shift the bracket to the inside to remove the connector from the panel.

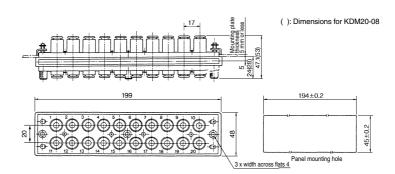
Rectangular Multi-connector Series KDM



KDM10



KDM20



KQ2

KQB2

KM

KF

M H/DL L/LL

KC

KK

KK130

DM

KDM KB

KR

KA

KQG2

KG KFG2

MS

KKA KP

LQ

MQR T

Made to Order Specifications



Please contact SMC for detailed dimensions, specifications, and delivery.

1 Grease-free Specifications

Symbol	Specifications
X17	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue
X39	Grease-free Rubber material: NBR (With fluorine coating) Release button color: 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	
AIZ	Release button color: White	

3 Mixed Tubing Size Type and Other Tubing Size

■ Mixed Tubing Size Type

Mixed tubing size manifolds are available to meet your individual requirements. Please consult with SMC for availability.

■ Other Tubing Size

	Tubing size O.D.	Connection no.	Part no.
	ø10	6	IN-254-52
ı	a12	6	INI-254-53

Inch-size Rectangular Multi-connector Series KDM 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

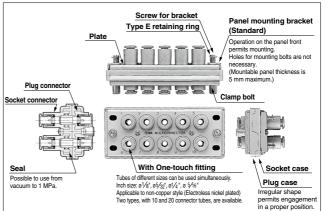
Multiple pipes can be connected/disconnected in one-touch operation without connection error. Thus man-hours for connection/disconnection are cut down substantially.

One-touch tube connection

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







Model

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

Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon, Polyurethane
Tubing O.D.	ø1/8", ø5/32", ø1/4", ø5/16"

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.

KQ2 KQB2

KM

M H/DL

L/LL KC

KK

KK130 DM

KDM

KB KR

KA

KOG2 KG

KFG2

MS KKA

KP

L₀ MQR

Principal Parts Material

Plug case, Socket case		POM	
Plate, Bracket		SPCC plated	
Plug connector, Socket connector	Body	PBT, C3604BD Electroless nickel plated (ø5/1	
	Chuck	Stainless steel 304	
	Guide	Stainless steel 304, C3604BD Electroless nickel plated, POM (ø5/16)	
	Collet, Release button	РОМ	
	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		Color 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 ½"	KDM20P-01	KDM20S-01	ned
	ø 5/32 "	KDM20P-03	KDM20S-03	
	ø 1/4"	KDM20P-07	KDM20S-07	
	ø 5/16 "	KDM20P-09	KDM20S-09	

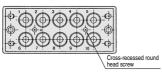
Mixed Sizes of Plug Connectors and Socket Connectors

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

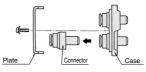
Model

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



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

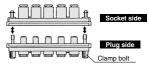


How to Use

△ Caution

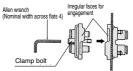
Separation

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 allen wrench (nominal width across flats: 4).

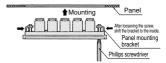


Panel mounting

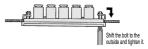
 Loosen (4) screws for bracket on the socket side using a Phillips screwdriver (JIS nominal No. 2) until the bracket touches the stop ring.



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

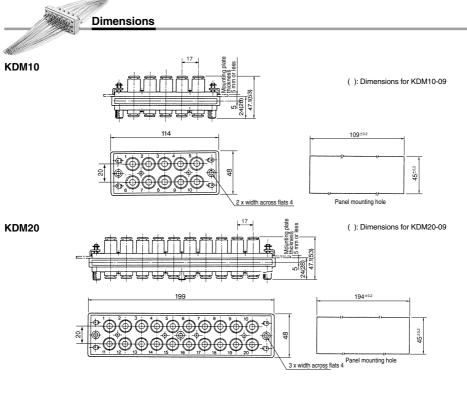


After shifting the bolt for bracket to the outside, tighten the bolt by a Phillips screwdriver to fix the socket case.



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.

Inch-size Rectangular Multi-connector Series KDM



Handling of One-touch Fittings

⚠ Caution
Refer to "Fittings & Tubing Precautions" for the details of installation/removal of One-touch fittings on the pages 13 to 16.

KQ2

KQB2

KS KX KM

KF

M H/DL L/LL

KC

KK

KK130

DM KDM

KB

KR

KA

KQG2 KG

KFG2

MS

KKA

KΡ LQ

MQR T

Made to Order Specifications



Please contact SMC for detailed dimensions, specifications, and delivery.

1 Grease-free Specifications

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

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

Example) KDM10-03-X17

2 Other Specifications

Symbol	Specifications
X12	Lubricant: White Vaseline Release button color: White

3 Mixed Tubing Size Type

■ Mixed Tubing Size Type

Mixed tubing size manifolds are available to meet your individual requirements. Please consult with SMC for availability.