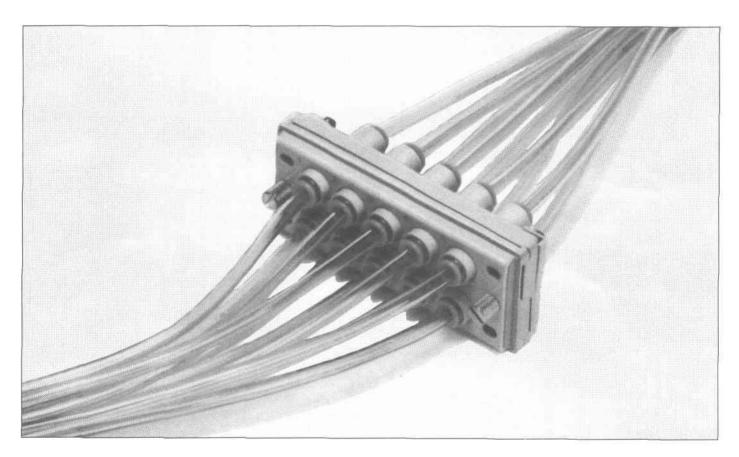


Rectangular Multi-Connector Series KDM



*I*ulti-connector is effective in labor savings for separate ransportation of the panel and the machine. Excellent for xchanging panels when a failure occurs.

Rectangular Multi-Connector Series KDM

Substantial reduction in mounting area

In comparison with a panel requiring many bulkhead unions, this model needs only a small mounting area.

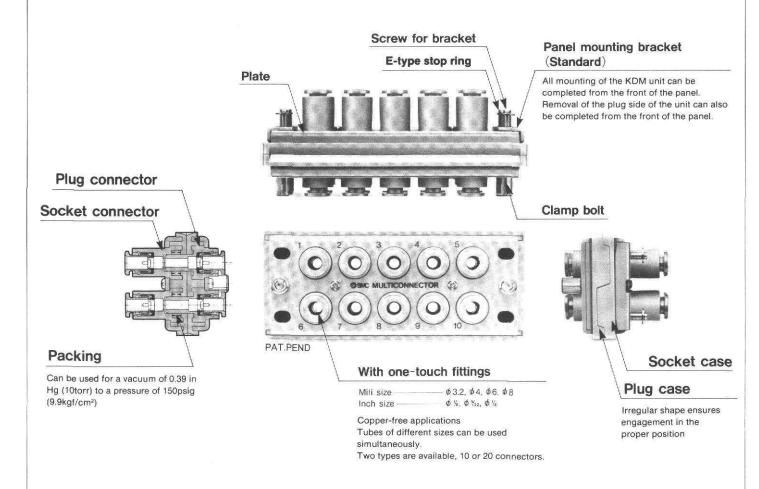
One-touch connection/disconnection of multi-connector unit.

Multiple tubes can be connected/disconnected in a one-touch operation without error. Man-hours for connection/disconnection is reduced substantially.

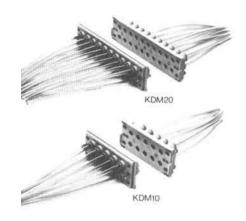
One-touch tube connection

One-touch fittings substantially reduces man-hours when inserting tubing.

No cumbersome nut and ferrul to contend with.







Model

Number of connecting tubes	Tub	be O. D. Model		Weight (oz.)	Color of release button
	Mili size	φ3.2	KDM10-23		Blue
		Ø 4	KDM10-04	10.6 (300gf)	
		Ø6	KDM10-06		
10		ø8	KDM10-08		
	Inch size	Ø 1/8	KDM10-01		Red
		Ø 3/32	KDM10-03		
		Φ1/ ₄	KDM10-07		
	Mili size	Ø3.2	KDM20-23	18.3 (520gf)	Blue
		ø 4	KDM20-04		
		ø6	KDM20-06		
20		Ø8	KDM20-08		
	Inch size	Ø 1/8	KDM20-01		Red
		Ø 3/32	KDM20-03		
		Ø ¼	KDM20-07		

Applicable Tubing

Tube mat	erial	Nylon, Soft nylon, Polyurethane, Polyethylene
Tube O. D.	Mili Size	Ø3.2, Ø4, Ø6, Ø8
	Inch Size	Φ 1/8, Φ 5/32, Φ 1/4

Specifications

Air		
150psig (9.9kgf/cm²)		
0.39in Hg~ (10torr~)		
215psig (15kgf/cm²)		
32-140° F (0~60° C)		

Principal Element Material

Plug case, Socket case		Polyacetal	
Plate, Bracket		SPCC Plating	
	Body	PBT	
	Chuck	SUS304	
Plug connector. Socket connector	Guide	C3604BD with Electroless nickel plating	
	Collet Release bushing	Polyacetal	
	Packing	NBR	
Clamp bolt, Screw for bracket, Phillips head machine screw		SWRM with Nickel Plating	
E-type stop ring		SUS304	

Parts No.

No. of connecting tubes	Tube	Mo	del	Color of release button	
	O.D.	Plug	Socket		
10	Ø3.2	KDM10P-23	KDM10S-23	Dive	
	φ4	KDM10P-04	KDM10S-04		
	ø 6	KDM10P-06	KDM10S-06	Blue	
	Ø8	KDM10P-08	KDM10S-08		
	Ø 1/8	KDM10P-01	KDM10S-01		
	Ø 3/32	KDM10P-03	KDM10S-03	Red	
	Φ1/4	KDM10P-07	KDM10S-07		
20	Ø3.2	KDM20P-23	KDM20S-23		
	Ø 4	KDM20P-04	KDM20S-04	Blue	
	ø 6	KDM20P-06	KDM20S-06		
	Ø8	KDM20P-08	KDM20S-08		
	Φ1/8	KDM20P-01	KDM20S-01		
	Ø 1/32	KDM20P-03	KDM20S-03	Red	
	Φ1/4	KDM20P-07	KDM20S-07		

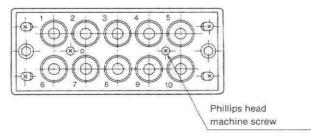
Mixing sizes of plug connectors and socket connectors

The rectangular multi-connector permits connector exchange in any desired position. This allows use of different size of tubes in one multi-connector.

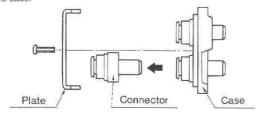
Parts No.

Connector	Tube O.D.	Model	Color of release button
	ø3.2	KDMP-23	
	ø4	KDMP-04	Blue
	ø6	KDMP-06	Biue
Plug connector	ø 8	KDMP-08	
	Ø 1/8	KDMP-01	
	φ5/ ₃₂	KDMP-03	Red
	φ ¹ / ₄	KDMP-07	
	∮ 3.2	KDMS-23	
	ø 4	KDMS-04	Blue
	Ø6	KDMS-06	biue l
Socket connector	ø8	KDMS-08	
(With packing)	Ø 1/8	KDMS-01	
	φ ⁵ / ₃₂	KDMS-03	Red
	Ø 1/4	KDMS-07	

1 Loosen the Phillips head machine screw using a Phillips type screwdriver to remove the plate from the case.



2 After exchanging connectors in desired positions, re-affix the plate with a Phillips type screwdriver to the case.



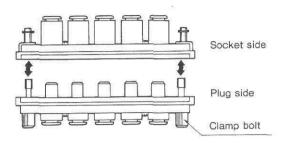
Precautions

- When using a brand of tube other than SMC, be careful of the tolerance of the tube's O.D.
- Nylon tube ±0.004" (±0.1mm)
- Soft nylon tube ... ±0.004" (±0.1mm)
- Polyurethane tube +0.006", -0.008" (+0.15,-0.2mm)
- Polyethylene tube ±.004" (±0.1mm)
 (Some commercially available tubes will not satisfy the above tolerance requirements.)
- The bending radius of the tube in the vicinity of the fitting should be at least the minimum bending radius of the tube. (For details of minimum bending radius, see Air Fittings and Tubing catalog.)
- Sometimes of the second of

How to Use

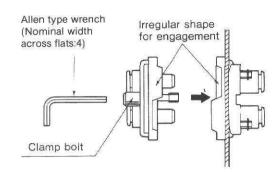
paration

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



Connection

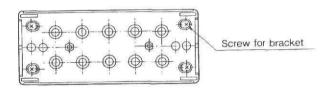
Put together the irregular faces for engagement and connect the plug case to the socket. After tightening the clamp bolt by hand, tighten it further with an Allen type wrench (nominal width across flats:4).

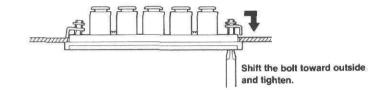


nel mounting

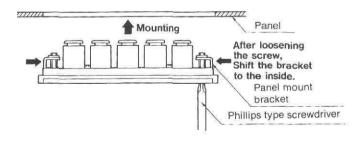
Loosen (4) screws for the panel mounting bracket on the socket side ng a Phillips screwdriver (JIS nominal No.2) until the stop ring touches bracket.

Shift the bolt for the bracket toward the outside. Tighten the bolt with a Phillips type screwdriver to attach the socket case to the panel.





Shift the panel mounting bracket to the inside (Move the screw for bracket the longitudinal direction of the slot) and put the connector in the panel runt cut out. (Panel mount cut out, see page 4.)



REMOVAL FROM PANEL

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

Installation and Removal of One-touch Fittings

talling Tube

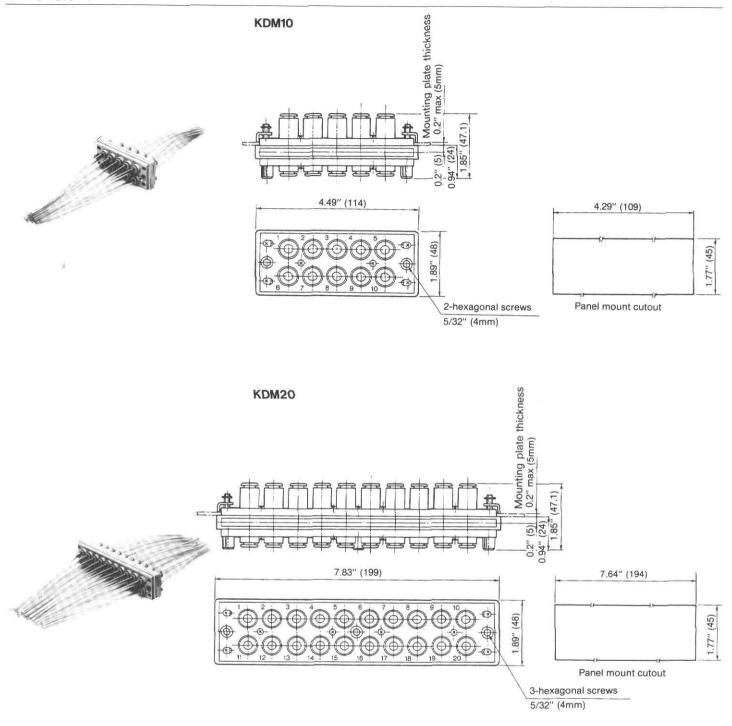
Cut the tube perpendicularly, being careful not to damage the outside face, use tube cutter TKA-1. (Do not cut the tube with pliers, nippers, ssors, utility knife, etc.)

Grasp the tube, then slowly push it until it comes to a dead-end. Then pull it back gently to make sure that it has a positive seal.

Removing Tube

- Push in evenly on the release button.
- Pull out the tube while keeping the release button depressed. (If the release button is not held down, the tube cannot be withdrawn.)
- To reuse the tubing, cut off the previously lodged portion of the tube.

Dimensions



Made-To-Order Specifications

ixed tube size type

ou want to place a special order for a mixed tube size type, other than tandard type, please refer to the specifications.

Tube size

Tube size (0.D.)	Number of connecting	Part No.
610 M W W W W	6	IN-254-52
ø12	6	IN-254-53

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