

Multi-connector DM Series

RoHS

The use of the multiconnector enables panel mount connections with other apparatus and can provide the reliability of one-touch installation and removal of multi-tubes (nylon, polyurethane).

As a result, separate transportation of panel, machinery, and backup units is made easy.

One-touch installation and removal

Employs the unique built-in keying mechanism which provides one-touch installation and removal capability even in hard to see locations. In addition, it prevents installation mistakes when re-connecting.

Installation processes are reduced considerably

As compared with the use of many bulkhead unions, this installation is very easy and installation time is reduced considerably.

Reliable tube retaining force

This construction mechanism enables clamping and unclamping of every tube in use by one operation and can provide a reliable tube retaining force.

No. of connecting tubes

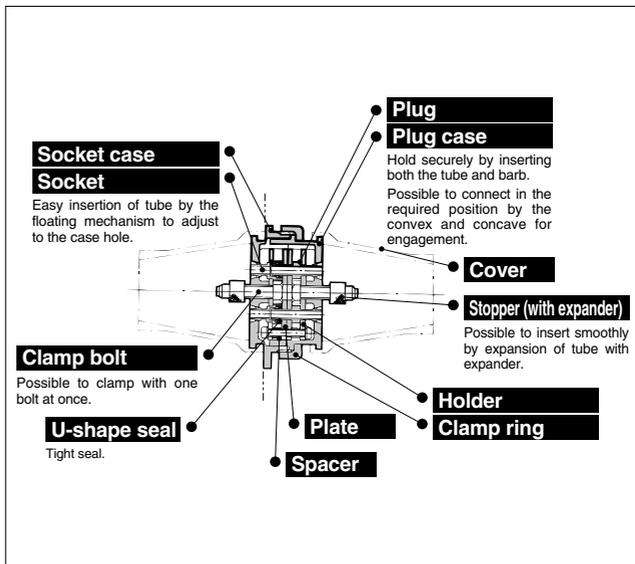
2 types—6 tubes & 12 tubes.



DM6
With cover



DM12
With cover



Model

| No. of connecting tubes | Model | | | Applicable tubing | | | Replacement parts no. | |
|-------------------------|-----------------|------------|-------------|-------------------|------------|--------------|-----------------------|------------|
| | Multi-connector | Plug side | Socket side | Nylon | Soft nylon | Polyurethane | Cover | Clamp ring |
| 6 | DM6-04N | DM6P-04N | DM6S-04N | T0425 | — | — | DM-C-6 | DM6-P01 |
| | DM6-04NU | DM6P-04NU | DM6S-04NU | T0403 | TS0425 | TU0425 | | |
| | DM6-06N | DM6P-06N | DM6S-06N | T0604 | — | — | | |
| | DM6-06NU | DM6P-06NU | DM6S-06NU | T0645 | TS0604 | TU0604 | | |
| | DM12-04N | DM12P-04N | DM12S-04N | T0425 | — | — | | |
| | DM12-04NU | DM12P-04NU | DM12S-04NU | T0403 | TS0425 | TU0425 | | |
| 12 | DM12-06N | DM12P-06N | DM12S-06N | T0604 | — | — | DM-C-12 | DM12-P01 |
| | DM12-06NU | DM12P-06NU | DM12S-06NU | T0645 | TS0604 | TU0604 | | |

Specifications

| | |
|-------------------------------|--------------------------|
| Fluid | Air |
| Operating pressure range | 0 to 1 MPa |
| Ambient and fluid temperature | -5 to 60°C (No freezing) |

Principal Parts Material

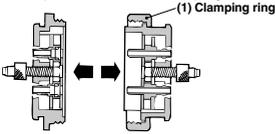
| | |
|---|---|
| Socket case, Plug case, Clamp ring | ADC12, Black semi-gloss baking finish after chromated |
| Plate | SPCC, Chromated |
| Holder | SPCC, Zinc chromated |
| Socket, Plug, Stopper | C3604 |
| U packing | NBR |
| Cover | CR |
| Cross-recessed head machine screw, Clamp bolt | SWRM Zinc chromated |
| Spacer | SPC Zinc chromated |

How to Use

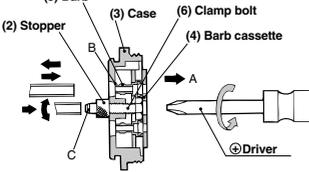
⚠ Caution

Removing

Loosen clamp ring (1), and separate the multiconnector into two parts, multiconnector into two parts, socket side and plug side.



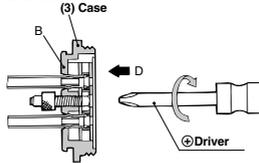
Insertion and removal of tube



1. Turn the clamp bolt (6) to the left with a screwdriver, loosen until the stopper (2) touches the case (3), and barb cassette (4) will be pulled out in the direction A. Then clamp portion B, consisting of barb (5) and case (3), will be freed. Next, insert or remove the tube.
2. The corresponding numbers are stamped on both the socket and plug sides for each tube connection.
3. If it is hard to insert the tube, enlarge the tube end with the head of stopper (2), expander C, before inserting tube.
4. Insert tube until it clears mounting of barb (5) completely.

Clamping of tube

1. After inserting tube, tighten clamp bolt (6) clockwise with a screwdriver.
2. Barb cassette creeps into the direction D and the tube will be clamped at the B clamp portion (5) consisting of barb (3) and case.



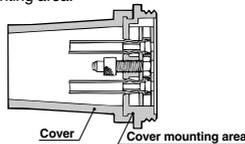
Connection

1. Push together and rotate both of the cases, and the plug side will slide into the socket side at the proper position.
2. The ring E, male and female, of the plug side and socket side will interlock with each other at the proper position by pushing together and rotating.
3. Final process of connection is to screw-in the clamp ring.



Cover mounting

1. Cover is mountable on both sides, plug side and socket side.
2. Enlarge cover and mount cover onto mounting area.



How to Order

DM 6 - 04 N -

Number of connecting tubes ↓

| | |
|----|----|
| 6 | 6 |
| 12 | 12 |

Type ↓

| | |
|-----|-----------------|
| NII | Multi-connector |
| P | Plug side |
| S | Socket side |

Accessory (Option) ↓

| | |
|----|-----------------------|
| C1 | 1 cover (Single side) |
| C2 | 2 covers (Both sides) |

Tube material ↓

| | |
|----|----------------------------|
| N | Nylon |
| NU | Soft nylon Polyurethane |

Tubing O.D. ↓

| | |
|----|------|
| 04 | 4 mm |
| 06 | 6 mm |

KQ2

KQB2

KS
KX

KM

KF

M

H/DL
L/LL

KC

KK

KK130

DM

KDM

KB

KR

KA

KQG2

KG

KFG2

MS

KKA

KP

LQ

MQR

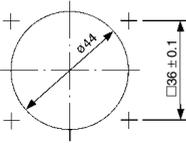
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IDK

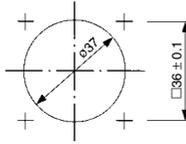
DM Series

Dimensions: DM6/12

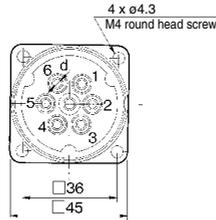
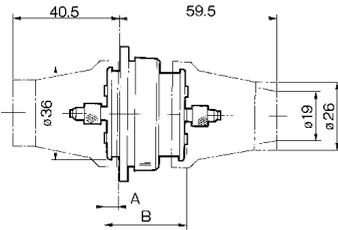
DM6



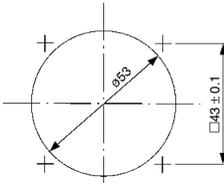
Panel mounting hole
(with the cover at socket side)



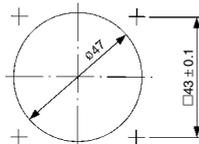
Panel mounting hole



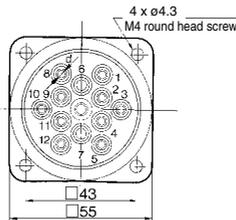
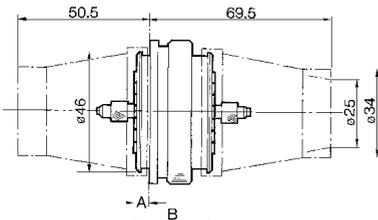
DM12



Panel mounting hole
(with the cover at socket side)



Panel mounting hole



| Mode | | Barb I.D. (d) | A | B |
|----------|-----------|---------------|---|----|
| DM6-04N | DM12-04N | 1.6 | 5 | 31 |
| DM6-06N | DM12-06N | 3 | | |
| DM6-04NU | DM12-04NU | 1.6 | 6 | 31 |
| DM6-06NU | DM12-06NU | 3 | | |



DM Series

Specific Product Precautions

Be sure to read this before handling the products.

Refer to back page 50 for Safety Instructions and pages 13 to 17 for Fittings and Tubing Precautions.

Installing of Tube

Caution

1. Be sure to insert the tube slowly so that you will feel it move smoothly and can feel it touch the end. Once the tube has been properly inserted, pull it back gently, to make sure that it has a positive seal. If not inserted properly, it may cause air to leak or tube to release.
2. When the number of tubes to be used is less than 6 (DM6) or 12 (DM12), the positioning of the tube should be symmetrical to the center.

KQ2

KQB2

KS
KX

KM

KF

M

H/DL
L/LL

KC

KK

KK130

DM

KDM

KB

KR

KA

KQG2

KG

KFG2

MS

KKA

KP

LQ

MQR

T

IDK