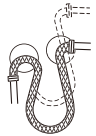
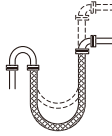
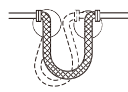
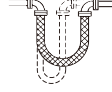
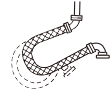
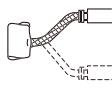
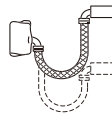
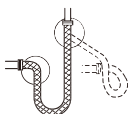
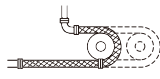
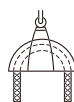
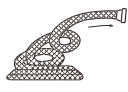
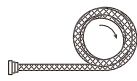
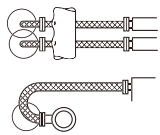
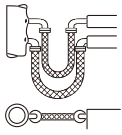
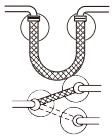
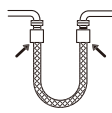
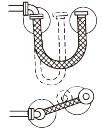
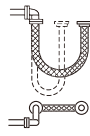


## Flexible Hose Installation Guidelines

|                                              | Incorrect Installation                                                                                                                                                                                                              |                                                                                     |   | Correct Installation/Recommendation                                                                                                                                                    |                                                                                       |   |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---|
|                                              |                                                                                                                                                                                                                                     |                                                                                     |   |                                                                                                                                                                                        |                                                                                       |   |
| Threaded Type<br>Flexible Hose               | Direct bending at connection points.                                                                                                                                                                                                |    | × | Install elbow fittings at bend locations and maintain a straight hose section adjacent to the fitting.                                                                                 |    | ○ |
|                                              | Excessive U- or S-shaped hose routing.                                                                                                                                                                                              |    | × | Use rigid piping or elbow fittings for tight bends and maintain the minimum allowable bend radius.                                                                                     |    | ○ |
| F1<br>Flanged Type<br>Flexible Hose          | Same as above                                                                                                                                                                                                                       |    | × | Same as above                                                                                                                                                                          |    | ○ |
|                                              | Continuous flexing at localized bend points.                                                                                                                                                                                        |    | × | Use elbow fittings to maintain a proper U-shaped hose configuration.                                                                                                                   |    | ○ |
| F2<br>Quick Connection<br>Type Flexible Hose | Same as above                                                                                                                                                                                                                       |   | × | Same as above                                                                                                                                                                          |   | ○ |
|                                              | Hose twisting caused by continuous movement.                                                                                                                                                                                        |  | × | Use a rotating trolley or guide system to prevent torsion and improper bending.                                                                                                        |  | ○ |
| F3<br>Vacuum<br>Flexible Hose                | Excessive hose bending.                                                                                                                                                                                                             |  | × | Use a properly sized pulley to maintain the minimum bend radius.                                                                                                                       |  | ○ |
|                                              | Pulling a folded hose may exceed the minimum bend radius.                                                                                                                                                                           |  | × | Maintain the minimum allowable bend radius when folding or storing the hose.                                                                                                           |  | ○ |
| F4<br>Fluororesin<br>Flexible Hose           | Same as above                                                                                                                                                                                                                       |  | × | Same as above                                                                                                                                                                          |  | ○ |
|                                              | Hose subjected to torsional stress caused by rotational movement at the end connection.                                                                                                                                             |  | × | Use rotary joints or swivel fittings to eliminate hose torsion during operation.                                                                                                       |  | ○ |
| F5<br>Other<br>Flexible Hoses                | Mounting the hose with its ends misaligned relative to the direction of movement introduces torsional stress during operation. Such twisting may cause deformation, reduce service life, and compromise overall system performance. |  | × | Install the tube so that it remains parallel to the direction of movement. Proper alignment eliminates torsional loading, ensures stable operation, and enhances long-term durability. |  | ○ |
|                                              |                                                                                                                                                                                                                                     |                                                                                     |   |                                                                                                                                                                                        |                                                                                       |   |

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