

GILPRO



Flexible Hose with Fittings

[Braided and Unbraided]

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Flexible Hose

TECHNICAL SPECIFICATIONS

Unbraided Flexible Hoses



Braided Flexible Hoses



Flexible Hose is a fire fighting equipment for initial-attack on fire. In a Sprinkler system, this flexible hose links fire protection piping to the sprinkler head.

- Economic Efficiency: Cost reduction in labor and other costs.
- Convenient Construction: Great flexibility enhances field-adaptability.
- Excellent corrosion resistance: The corrugated tubes are made of stainless steel, to prevent corrosion.

MATERIALS OF CONSTRUCTION

Flexible Tube:

AISI 304 Stainless Steel.

Braid:

AISI 304 Stainless Steel.

Outlet extension Nipple:

Steel with Zinc Plating.

Inlet Nipple:

Steel with Zinc Plating.

Reducer Bar:

Steel with Zinc Plating.

Bar Fixing Clamps:

Steel with Zinc Plating.

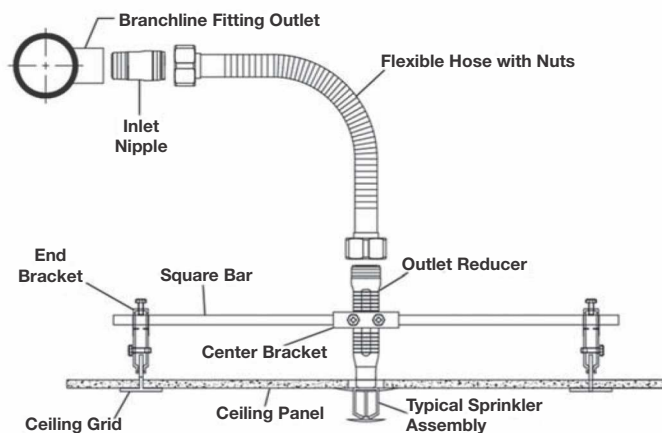
Support Bar:

Steel with Zinc plating.

Insulating Collar:

Nylon 66

SPECIFICATIONS



Flexible Hose Installation

- Design Pressure: 175 psi
- Tube Material: STS304
- Tube Thickness: 0.3mm
- Length: 700-1800mm

Braided Flexible Hose

TECHNICAL DATA:

Braided hose diameter:

28 mm outside diameter

Available Lengths:

610mm/790mm/915mm/1220mm/1525mm/1800mm

Inlet Size:

1" NPT - male threads.

Outlet reducer:

1/2" NPT - female thread.

Braid exterior:

Braid and corrugated tube of AISI 304 SST.

Corrugated tube:

Annealed stresses and removal of all scale.

Flexibility:

Limited.

Intended Application:

For direct connection to wet fire sprinkler system.

Maximum Working Pressure:

175 PSI (1205 kPa)

Maximum ambient temperature:

225 °F (107 °C)

Minimum Bend:

10" (254 mm) radius for FM Approval.

<i>Model</i>	<i>k-Factor</i>	<i>Min. Bending Radius in. (mm)</i>	<i>No. of Bends</i>	<i>Rated Working Pressure psi (kPa)</i>	<i>Hose Assembly length in (mm)</i>	<i>Equivalent Length of 1 in. Schedule 40 Pipe, ft. (m)</i>
GIL-DB-610	5.6	10 (254)	1	175 (1205)	24 (610)	26.4 (8)
GIL-DB-790	5.6	10 (254)	1	175 (1205)	31.2 (792)	32 (9.7)
GIL-DB-915	5.6	10 (254)	1	175 (1205)	36 (915)	34.1 (10.4)
GIL-DB-1220	5.6	10 (254)	2	175 (1205)	48 (1220)	46.8 (14.2)
GIL-DB-1525	5.6	10 (254)	3	175 (1205)	60 (1525)	61.4 (18.7)
GIL-DB-1800	5.6	10 (254)	4	175 (1205)	72 (1830)	76.1 (23.2)
GIL-DB-610	8	10 (254)	1	175 (1205)	24 (610)	19.4 (5.9)
GIL-DB-790	8	10 (254)	1	175 (1205)	31.2 (792)	24 (7.3)
GIL-DB-915	8	10 (254)	1	175 (1205)	36 (915)	28.4 (8.6)
GIL-DB-1220	8	10 (254)	2	175 (1205)	48 (1220)	39.5 (12.0)
GIL-DB-1525	8	10 (254)	3	175 (1205)	60 (1525)	54.8 (16.7)
GIL-DB-1800	8	10 (254)	4	175 (1205)	72 (1830)	70.1 (21.4)

Un-Braided Flexible Hose

TECHNICAL DATA:

Unbraided hose diameter:

26 mm outside diameter

Available Lengths:

700mm/1000mm/1200mm/1500mm/1800mm

Inlet Size:

1" NPT - male threads.

Outlet reducer:

1/2" NPT - female thread.

Braid exterior:

Corrugated tube of AISI 304 SST.

Corrugated tube:

Annealed stresses and removal of all scale.

Flexibility:

Limited.

Intended Application:

For direct connection to wet fire sprinkler system.

Maximum Working Pressure:

175 PSI (1205 kPa)

Maximum ambient temperature:

225 °F (107 °C)

Minimum Bend:

10" (254 mm) radius.

<i>Model</i>	<i>k-Factor</i>	<i>Minimum Bend Radius in. (mm)</i>	<i>Number of Bends</i>	<i>Rated Working Pressure psi (kPa)</i>	<i>Hose Assembly length in (mm)</i>	<i>Equivalent Length of 1 in. Schedule 40 Pipe, ft. (m)</i>
GIL-D-700	5.6	10 (254)	1	175 (1205)	27 (700)	24 (7.3)
GIL-D-1000	5.6	10 (254)	2	175 (1205)	39 (1000)	44 (13.4)
GIL-D-1200	5.6	10 (254)	2	175 (1205)	45 (1200)	49 (14.9)
GIL-D-1500	5.6	10 (254)	2	175 (1205)	57 (1500)	59 (18)
GIL-D-1800	5.6	10 (254)	3	175 (1205)	69 (1800)	84 (25.6)
GIL-D-700	8	10 (254)	1	175 (1205)	27 (700)	30 (9.1)
GIL-D-1000	8	10 (254)	2	175 (1205)	39 (1000)	48 (14.6)
GIL-D-1200	8	10 (254)	2	175 (1205)	45 (1200)	55 (16.8)
GIL-D-1500	8	10 (254)	2	175 (1205)	57 (1500)	64 (19.5)
GIL-D-1800	8	10 (254)	3	175 (1205)	69 (1800)	86 (26.2)

Installation Instructions...

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1. Inspect the hose thoroughly for signs of physical damage, if any.
 2. Inspect the O-ring and insulation ring for signs of physical damage, if any.
 3. Connect the reducer to the nut using a wrench.
- ★ Torque for connecting nut and reducer - 500kgf/cm.

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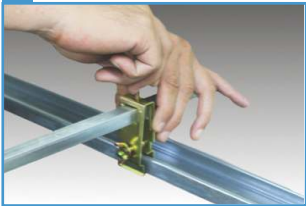


4. Wind the teflon tape on the inlet nipple thread. Connect the inlet nipple to the branch line using a pipe wrench.
5. Connect the flexible hose to the outer nipple.

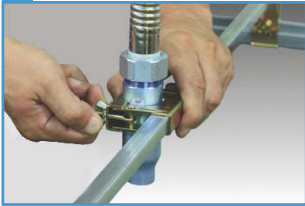
Warning: DO NOT wind teflon tape on the outer nipple thread while connecting to the flexible hose.

- ★ Torque for nipple + main pipe - 850-900 kgf/cm.
- ★ Torque for nut + nipple - 500 kgf/cm.
6. Place two end brackets to the aimed position of rails on suspended ceiling properly.
 7. Assemble two end brackets and a center bracket to the square bar.

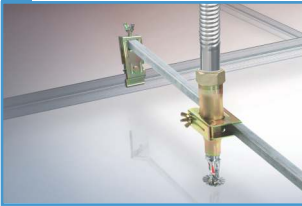
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8. Tighten wing nuts to a torque of 20-25 kgf/cm.
9. Locate the center bracket to a desired position of the square bar and join the reducing nipple to center bracket. Tighten the wing nut to a torque of 20-30 kgf/cm.
10. Check if all the parts are securely tightened and well connected.
11. Install sprinkler to the reducing nipple of the flexible hose.

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