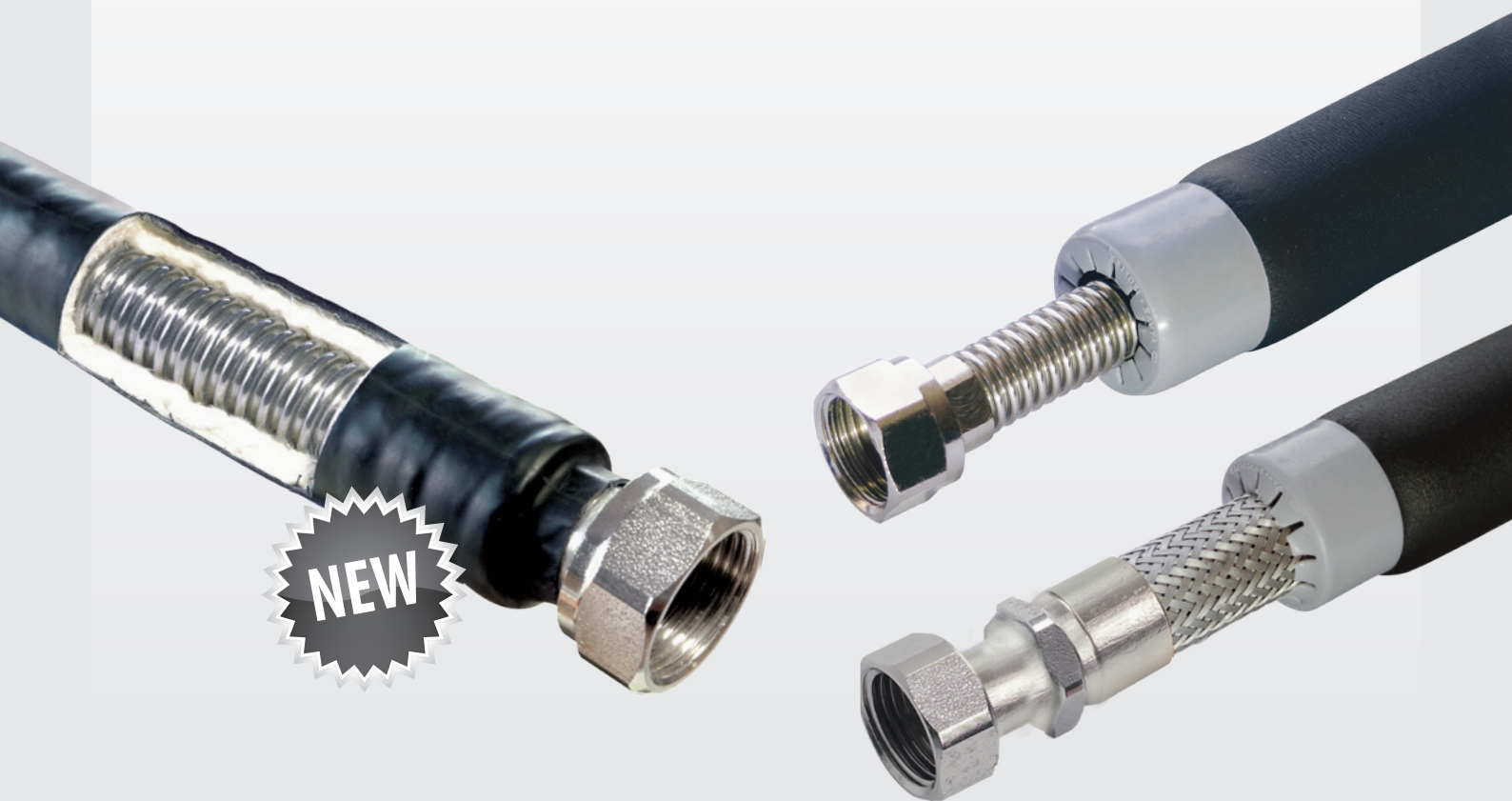




## FAN COIL CONNECTION HOSES



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## FAN COIL CONNECTION HOSES

Ayvaz's fan-coil connection hose is a highly flexible structured, time and cost saving hose assembly which is highly resistant against pressure and temperature. It may be produced with or without braiding and insulation.

### Application Areas:

- Fan-Coil Applications
- Heating, Air Conditioning and ventilization applications
- Chemical and petrochemical plants
- Oil and gas processing
- Ship building and drilling
- Food processing

### ADVANTAGES

- The flexible design of the hose enables the connection between collectors and the pump with using no additional fittings (elbows etc.). This reduces the time spent on assemblies and the cost as well.
- Ayvaz's Fan-coil hose which has a great service life provides easy, quick and safe connections and prevents the vibration and noise by its flexible structure.

### Design:

Flexible Fan-coil connection hose brings economical solutions for the difficulties of rigid connections.

The special welding process prevents the potential corrosion caused by the moisture around the connection points.

The insulation and the welding protection cover applied on the insulation help to sort problems may be caused by wrong earthing.

Hose Type : Standard corrugated metal hose acc. to DIN EN ISO 10380

Hose Material : Stainless Steel AISI 316L  
AISI 304, 321 also available upon request

Braiding Material : Stainless Steel AISI 304

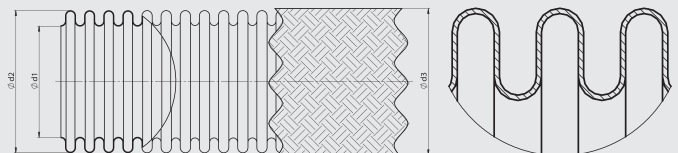
Temperature Range : Min. -270 °C up to max. 600 °C

Fittings Materials : Carbon Steel St.37.2/Stainless Steel

### Nominal Dimensions

DN	CONNECTION	LENGTH (mm)
12	1/2"x1/2" 1/2"x3/4"	200 all sizes are available in between 2000
16	3/4"x3/4"	

### Standard Corrugated Flexible Metal Hose



AYVAZ STANDARD CORRUGATED METAL HOSE								
DN	Model	Internal Dia.	External Dia.	Tol.	Min. Bending Radius	Nominal Bending Radius	Max. Operating Pressure at 20°C Safety Factor: 3	Nominal Operating Pressure DIN EN ISO 10380 Safety Factor: 4
		mm	mm	mm	rmin mm	rn mm	P1 bar	PN
12	Non-braided	12,2	16,2	0,2	20	140	12	10
	Braided		17,5		45		85	65
16	Non-braided	15,6	20,8	0,2	28	160	8	6
	Braided		22		58		90	65

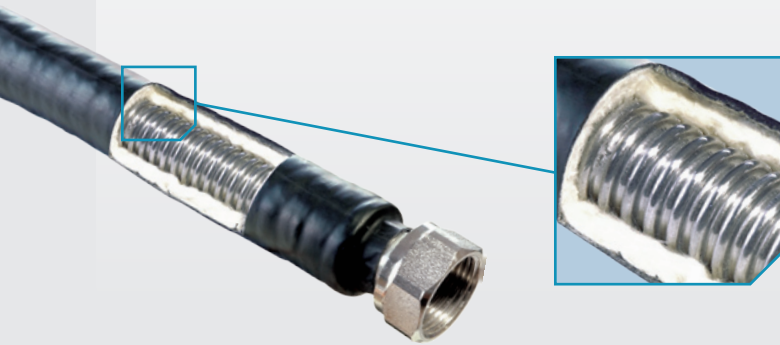
## Insulation:

Ayvaz Fan-coil hoses may be provided as insulated in order to prevent sweating may be exist in the heating and cooling systems. Correct insulation selection is suggested for long service life and high efficiency as a result of preventing heat losses through hose assemblies.

Ayvaz offers its Fan-coil connection hoses with two types of insulation materials.

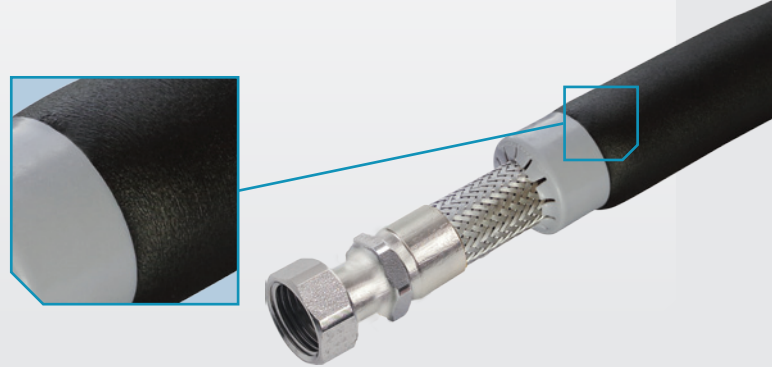
### Option 1

High-tech nano insulation Cryogel X201 (Aspen Aerogels)



### Option 2

Rubber based EPDM insulation

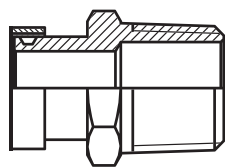
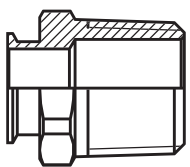
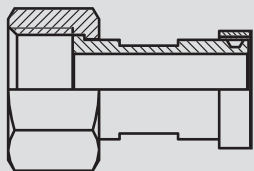
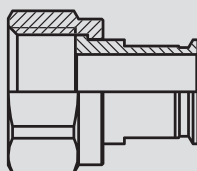


Feature	Value	
Thickness	5 mm	10 mm
Max. Operating Temperature	-270 °C/200 °C	
Thermal Conductivity Value	0.015 W/Mk	
Colour	White	
Density	180 kg/m³	
Hydrophoby	Yes	

At 37.5 °C. ASTM C 177/TS EN 12665

Operating Temperature	-40/+150
Max. Temperature (°C)	+175
Heat λ, Tort=0 °C, DIN 52613 (W/mK)	< 0,038
Vapour Diffusion Resistance, 4 DIN 52615	> 3000
Amount of Shrinkage ASTM D 1506	1,5
Luftflammableness Class	Class 1
UV Resistance	Good
Insulation Thickness	9mm,13mm

## Connection Types:

No	Type of Connection	Material	DN	inch	
1	 	Male Connection EN ISO 7/1 thread	12 16	1/2" 3/4"	Ni Coated Carbon Steel St.37.2
2	 	Swivel Female Connection EN ISO 228/1 thread	12 16	1/2" 3/4"	Ni Coated Carbon Steel St.37.2



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