



Flexible
Connection...
Safe
Use...



Flexible Stainless Gas Connection Hoses...

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About Us

DMS HEAT SYSTEMS IND. TİC.A.Ş. Our company, which started to serve in the natural gas sector in 2004 with the vision of "Everything about natural gas", has also started to produce all kinds of Flexible Stainless Gas Connection Hoses for Residential and Industrial uses under the OPEX brand.

Our company continues on its way with its dynamic, quality staff and effective service principle in order to closely follow current innovations and demands, expand its product range, become one of the leading companies in the sector with new investments, and meet customer satisfaction and demands with developing technology.

It offers products that do not harm human health, are hygienic, durable in difficult conditions, long-lasting, easy to assemble and user-friendly.

As a manufacturer, the **OPEX** brand has the capacity to meet all the demands and needs of its customers with its new investments, high technology and experienced staff.

Our products are tested for compliance with the relevant quality standards in our well-equipped laboratory in our factory and then offered for use.

It carries the excitement of the first day about ensuring the sustainability of success with the principle of continuous improvement at the point of maximizing customer satisfaction.

Quality Policy

Our company, operating in the field of "Flexible Metal Hoses", has determined its policy in line with the following issues.

- * Based on the principle of customer satisfaction, first of all, to fully perceive customer needs and expectations,
- * To deliver our products at the desired time, quality and safety,
- * To be a quality and competitive company,
- * Using advanced technology in production,
- * Working with expert technical staff,
- * To meet the applicable requirements of the ISO 9001:2015 Quality Management System and to continuously improve the system.

OPEX operates with the principle of 'Quality comes first'. Customer satisfaction with the best service and quality production is always at the forefront.

All stages, from raw material procurement to packaging and delivery to our customers, are carried out meticulously.

Our products are tested for compliance with the relevant quality.

Production is carried out at standards in our well-equipped laboratory in our factory. Our quality has been approved by KIOSCERT CERTIFICATE with the ISO 9001:2015 quality certificate.

All of our products comply with standards approved by notified bodies.





Flexible

Stainless

Gas Connection

Hoses...



STANDARD FLEXIBLE METAL HOSE



Standard corrugated flexible metal hose can be used to transport many liquids in a variety of applications.

Standard hoses are highly resistant to temperature and pressure, are easy to install thanks to their flexible design, and have a longer life due to their resistance to corrosion.

Material: Stainless Steel

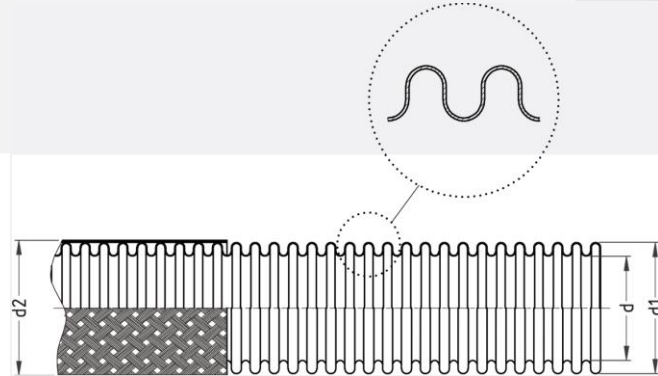
Diameter Range: DN6 – DN50

Temperature Range: -270°C +600°C

Test Pressure: 1.5 times the maximum working pressure

Burst Pressure: 4 times the maximum working pressure

Standard: EN ISO 10380



PRODUCT CODE	DN		INNER DIAMETER	OUTER DIAMETER	TOLERANCE	MIN. BENDING DIAMETER	NOMINAL BENDING DIAMETER DYNAMIC	MAX OPERATING PRESSURE	WEIGHT
	mm.	inch.							
			d	d1	d.d1				
OPEX.STH001	6	1/4"	6,20	9,60	± 0,2	15	80	24	0,055
OPEX.STH002	8	5/16"	8,20	12,20	± 0,2	16	125	16	0,085
OPEX.STH003	10	3/8"	10,20	14,20	± 0,2	18	127	12	0,087
OPEX.STH004	12	1/2"	12,20	16,30	± 0,3	20	140	9	0,103
OPEX.STH005	16	5/8"	16,30	21,60	± 0,2	27	155	7	0,165
OPEX.STH006	20	3/4"	20,20	26,90	± 0,2	32	170	5	0,26
OPEX.STH007	25	1"	25,30	32,10	± 0,2	40	190	4	0,265
OPEX.STH008	32	1 1/4"	34,10	40,70	± 0,3	49	257	3	0,403
OPEX.STH009	40	1 1/2"	40,10	49,70	± 0,3	59	295	2,5	0,705
OPEX.STH010	50	2"	50,20	60,20	± 0,4	69	310	1,5	0,85

CORRUGATED FLEXIBLE METAL HOSE

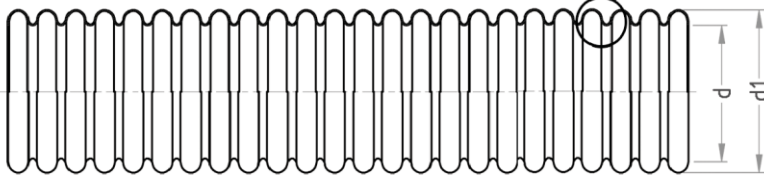
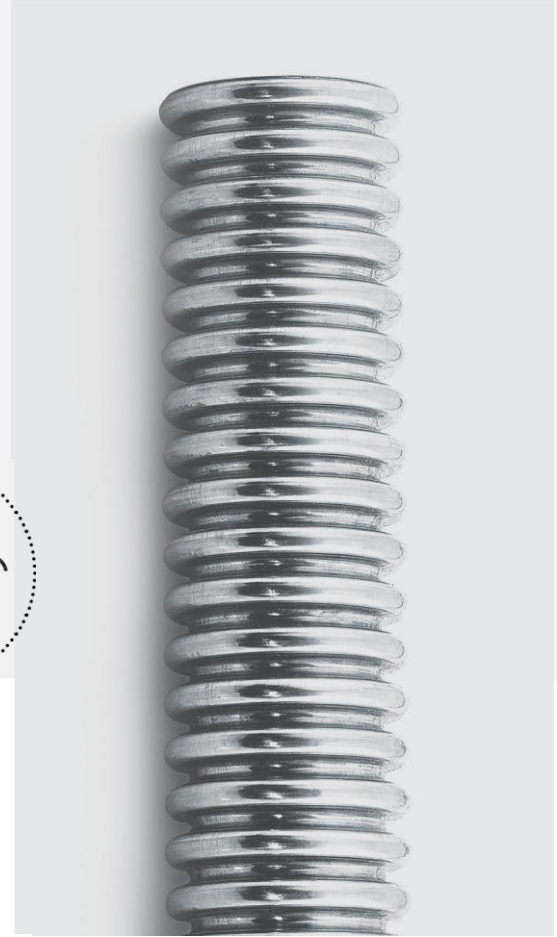


Corrugated flexible metal hose can be used to transport many liquids in various fields.

Open-pitch flexible metal hoses are mostly used in solar energy systems and hot water transmission applications.

These hoses are highly resistant to temperature and pressure, are easy to install thanks to their flexible design, and have a longer life due to their resistance to corrosion.

Material: Stainless Steel
Diameter Range: DN10 -DN50
Temperature Range: -270° C +600°C
Test Pressure: 1.5 times the maximum working pressure
Burst Pressure: 4 times the maximum working pressure
Standard: EN iso 10380



PRODUCT CODE	DN		INNER DIAMETER	OUTER DIAMETER	TOLERANCE	MIN. BENDING DIAMETER	NOMINAL BENDING DIAMETER DYNAMIC	MAX OPERATING PRESSURE	WEIGHT
	mm.	inch.							
			d	d1	d.d1				
OPEX.AH003	10	3/8"	10,40	14,20	± 0,3	18		21	0,076
OPEX.AH004	12	1/2"	12,10	15,90	± 0,4	20		21	0,084
OPEX.AH005	16	5/8"	16,30	21,40	± 0,4	25		16	0,147
OPEX.AH006	20	3/4"	20,50	26,70	± 0,4	30		10	0,19
OPEX.AH007	25	1"	25,40	32,80	± 0,4	35		10	0,245
OPEX.AH008	32	1 1/4"	34,00	40,50	± 0,5	40		4	0,4
OPEX.AH009	40	1 1/2"	40,50	49,60	± 0,5	50		4	0,545
OPEX.AH010	50	2"	50,70	60,20	± 0,5	60		3	0,695



FLEXIBLE METAL BRAIDED HOSE

Flexible braided hoses are widely used in areas such as heating, ventilation, air conditioning systems, iron and steel industry, chemical and petrochemical plants, oil and gas refineries, chemical and food industries, aircraft and ship construction facilities.

Its main advantages over solid pipes and tubes are additional protection against wear and pressure and dampening vibration

it is also much less sensitive to high temperatures and pressures than many other hose types.

For this reason, braided flexible metal hoses are used for connection in places where there is high temperature and high pressure in the system.

They easily meet requirements regarding pressure resistance, vacuum tightness, temperature stability, corrosion resistance, flexibility and durability

Hose Material: Stainless Steel

Weave Material: Stainless Steel

Diameter Range: DN6 – DN50

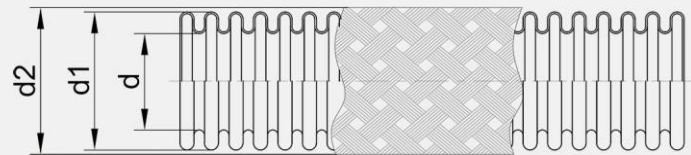
Fittings Type: Nut-Nipple-Flange-Pipe End

Fittings Material: Stainless Steel / Carbon Steel

Test Pressure: 1.5 times the maximum working pressure

Burst Pressure: 4 times the maximum working pressure

Standard: EN ISO 10380



PRODUCT CODE	DN		INNER DIAMETER	OUTER DIAMETER	TOLERANCE	MIN. BENDING DIAMETER	NOMINAL BENDING DIAMETER DYNAMIC	MAX OPERATING PRESSURE	WEIGHT
	mm.	inch.							
			d	d1	d.d1				
OPEX.ÖH001	6	1/4"	6,20	9,60	± 0,2	25	80	190	0,143
OPEX.ÖH002	8	5/16"	8,20	12,20	± 0,2	34	125	175	0,193
OPEX.ÖH003	10	3/8"	10,20	14,20	± 0,2	38	127	130	0,214
OPEX.ÖH004	12	1/2"	12,20	16,30	± 0,3	44	140	95	0,218
OPEX.ÖH005	16	5/8"	16,30	21,60	± 0,2	48	155	90	0,372
OPEX.ÖH006	20	3/4"	20,20	26,90	± 0,2	69	170	82	0,475
OPEX.ÖH007	25	1"	25,30	32,10	± 0,2	84	190	62	0,728
OPEX.ÖH008	32	1 1/4"	34,10	40,70	± 0,3	104	257	45	0,882
OPEX.ÖH009	40	1 1/2"	40,10	49,70	± 0,3	129	295	40	1,386
OPEX.ÖH010	50	2"	50,20	60,20	± 0,4	160	310	34	1,649



FLEXIBLE GAS CONNECTION HOSES



These hoses are generally used in the domestic area to connect gas appliances to the gas distribution system.

It is lined with yellow heat shrink tubing to protect the tubing from acid attack (pitting) and thermal changes.

Thanks to its extendable structure, the hose can be adjusted to any installation



Diameter Range: DN12 – DN50

Hose Material: Stainless Steel

Fittings Type: Nut - Nipple

Fittings Material: Stainless Steel / Carbon Steel

Outer Material: Polyolefin Heat Shrink Tubing

Gasket Material: NBR



GAS COUNTER CONNECTION HOSES



These types of hoses are installed in the system for gas connection of gas meter devices..

Diameter Range: DN12 – DN50

Hose Material: Stainless Steel

Fittings Type: Nut - Nipple

Fittings Material: Stainless Steel / Carbon Steel

Outer Cover: Polyolefin Heat Shrink Tubing

Gasket Material: NBR



Counter Type	Length (mm.)	Nut (inch)	Nipple (inch)
G4	200	1 1/4"	1"
G6	200	1 1/4"	1"
G10	400	2"	1 1/2"
G16	400	2"	1 1/2"
G20	400	2 1/2"	2"
G25	400	2 1/2"	2"



REGULATOR CONNECTION HOSES



These types of hoses are installed in the system for gas connection of regulator devices.

Hose Material: DN12 – DN50

Hose Material: Stainless Steel

Fittings Type: Nut - Nipple - Sleeve

Fittings Material: Stainless Steel / Carbon Steel

Outer Material: Polyolefin Heat Shrink Tubing

Gasket Material: NBR



BURNER CONNECTION HOSES

Hoses of this type are connected to the system for gas connection of burner devices.

Hose Material: Stainless Steel

Fittings Type: Nipple - Nipple

Fittings Material: Stainless Steel / Carbon Steel

Outer Coating: Polyolefin Heat Shrink Pipe Gasket

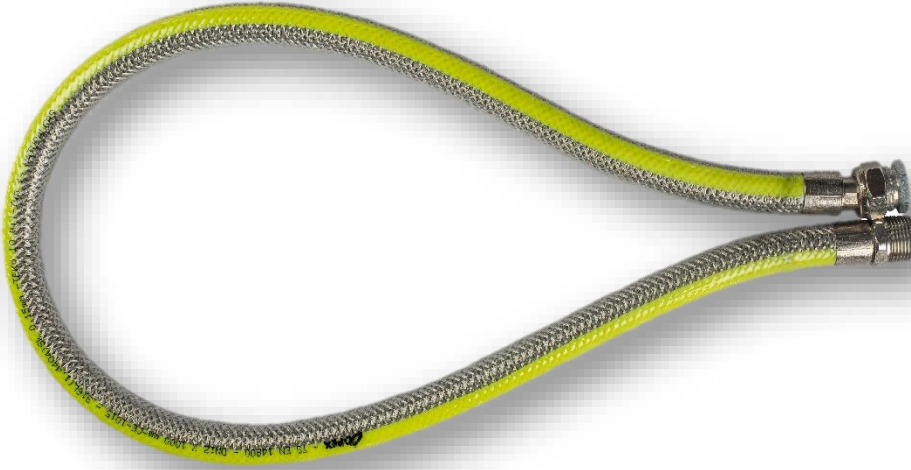
Material: NBR



DN	Length (mm.)	Nippel (inch)	Nippell (inch)
25	170	1"	1"
32	170	1 1/4"	1 1/4"
40	210	1 1/2"	1 1/2"
50	230	2"	2"



EN14800 GAS HOSES



Corrugated metal gas hoses according to this European Standard are suitable for the connection of household appliances inside or outside a dwelling using gas at a pressure of less than 0.5 bar. Gas hoses are suitable for 1st, 2nd and 3rd family gases. These gases are commonly referred to as manufactured gases, natural gases, and liquid petroleum gases (LPG).

The gas hose is designed in accordance with EN14800 and EN1775 (to maintain resistance to high temperature - 650°C for at least 30 minutes). The hose is made of stainless steel. There is stainless steel braid welded to the fittings to strengthen the hose and provide the necessary resistance to traction. PVC Cover is a sheath that protects the hose from environmental and other external factors. In this way, the gas hose has the highest level of quality, safety and flexibility.

Opex EN14800 gas hoses, when properly installed and used correctly, provide long-term safe operation without degradation under normal chemical, mechanical and thermal conditions.

Materials

Hose: Stainless Steel

Weave: Stainless Steel

Fittings: Stainless Steel / Brass

(Female and Valve connections can be Brass - acc. according to EN12164 and EN12165)

Coating: PVC

Gasket: NBR

The length of the hose can be:

0.50m - 0.75m - 1.00m - 1.25m - 1.50m and 2.00m.

Max. Operating pressure . 0.5 bar

Some countries use different types of fittings. Opex EN14800 gas hoses have a wide range of fittings.

Female - Male - Valve - Thermal Socket - 90° Elbow - Rotated Male - Fixed Female.



WATER CONNECTION HOSES

Flexible metal water connection hoses are suitable for remote water and cold water applications.

The use of these hoses is very healthy and durable due to their stainless steel material structure.



FAN-COIL CONNECTION HOSE



Fan-coil connection hoses are used to easily and safely connect the distribution pipes of heating and cooling systems to fan-coil units. There are two types: braided and unbraided.

The material used in insulation is EPDM Rubber. Insulation material prevents heat loss and sweating.

Hose Material: Stainless Steel
Diameter Range: DN12 – DN50
Fittings Type: Nut - Nipple
Fittings Material: Stainless Steel / Carbon Steel
Mesh Material: Stainless Steel
Insulation Material: EPDM Rubber
Test Pressure: 1.5 times the maximum working pressure
Burst Pressure: 4 times the maximum working pressure
Standard: EN ISO 10380



EN15266 CSST HOSE

Set of stainless steel flexible corrugated pipes for gas installation with working pressure up to 0.5 bar. It is a very easy, fast, cheap and safe gas installation system. The flexible pipe is made of high quality AISI316L stainless steel and has been heat treated to make it more flexible. Yellow polyolefin coating protects the tube from external factors and prevents corrosion.



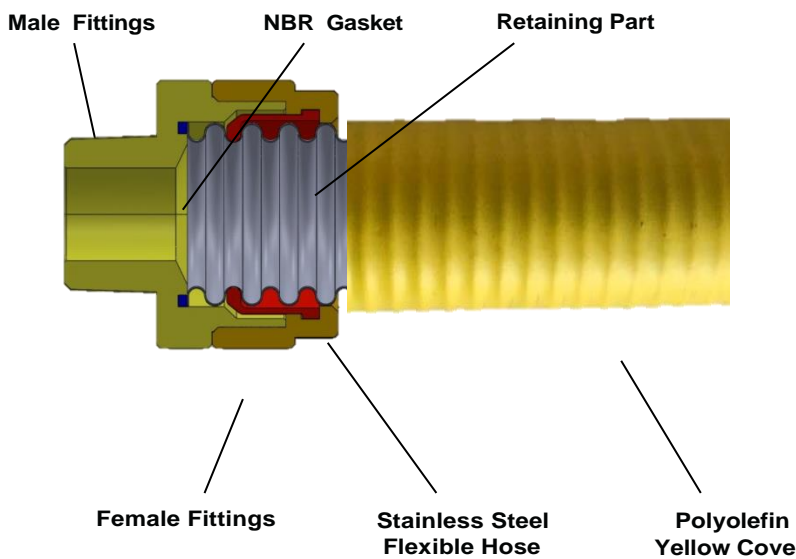
OPEX CSST System is TSE approved

Problems arising from the use of additional parts at turns and joints during installation with semi-rigid pipes are eliminated with the OPEX CSST system.

This system significantly reduces labor time. More practical and safe installation can be achieved with the Push Fit system.

Opex CSST system is produced and offered to the market with a total quality approach from the production process to the assembly process..

CODE	DIMENSION
P2625	DN25



The Opex Secure Mounting System provides: Long-lasting and safe use thanks to components



CSST FITTINGS

OPEX CSST accelerates the progress of plumbing projects. It makes the installation of heating gas lines significantly more economical. The mounting system allows easy installation and permanently leak-proof connection of fittings and pipes. Fittings system is OPEX design..

OPEX TS EN 15266 INDOOR FLEXIBLE GAS INSTALLATION CONNECTION PARTS

"T" Socket



CODE	DIMENSION
OPEX ST 001	DN25XDN25XDN25

Male Socket



CODE	DIMENSION
OPEX EKS 001	DN25X3/4"
OPEX EKS 002	DN25X1/2"

Test Socket With Swivel Fitting



CODE	DIMENSION
OPEX DRTS 001	DN25 X 1 1/4"

Male Socket



CODE	DIMENSION
OPEX ES 001	DN25X1"

Outer Corner



CODE	DIMENSION
OPEX DK 001	DN25

Bracket



CODE	DIMENSION
OPEX DI 001	DN25

Inner Corner



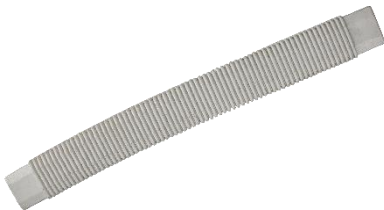
CODE	DIMENSION
OPEX IK 001	DN25

Joint



CODE	DIMENSION
OPEX EK 001	DN25

Flexible Attachment



CODE	DIMENSION
OPEX ESEK 001	DN25

Hose Duct



CODE	DIMENSION
OPEX HK 001	DN25

"T" Duct



CODE	DIMENSION
OPEX TEK 001	DN25

Counter Entry Connection



CODE	DIMENSION
OPEX SGB 001	DN25



CSST FITTINGS

Metal Clamp



CODE	DIMENSION
OPEX MK 001	

T Connection Clamp



CODE	DIMENSION
OPEX VK 001	

Pipe Clamp



CODE	DIMENSION
OPEX BK 001	

Fixing Device



CODE	DIMENSION
OPEX SA 001	

Curved Knife



CODE	DIMENSION
OPEX FAL 001	

Pipe Cutting Tool



CODE	DIMENSION
OPEX KES 001	

FLEXIBLE

Metal Hose





OPEX

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