

Helical type flexible tube & Fitting (KS marked item for cold and hot water) (Model-003)

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Dong-A's stainless steel corrugated tubes, which is approved by UL(USA), RWTUV(Germany) and is certified as quality products with NET, KS(KSD3628) by the Korean government, are supplied in a roll up to 1,200m and used for water piping system inside buildings. The corrugation pitch is slightly wider to reduce the fluid resistance and thus generate no vibration or noise. It connects with screw-in-field type of fitting with cone packing (NBR, E.P.D.M, Silicon, Graphite).



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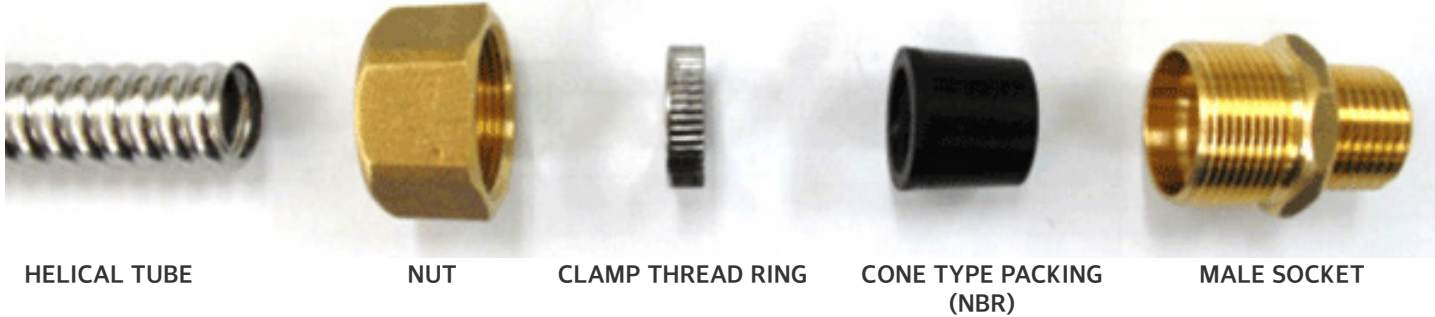
Product Specification

	Nominal Diameter	Thickness	O.D.(mm)	I.D.(mm)	No. of Pitch (EA/M)	Length (m)	Coating thickness (mm)	Min. Bending Radius (mm)	Max. Working Pressure (kgf/cm ²)
MODEL-003 FLEXIBLE TUBES (HELICAL TYPE) AISI 304, 316L	DN15(1/2")	0.3t~0.4t	18.0~18.2	13.9~14.1	200+/-1	25, 50 (Max. Length 300)	0.6	30	13
	DN20(3/4")		25.6~25.8	21.1~21.3	180+/-1			40	12
	DN25(1")		32.6~32.8	27.2~27.4	160+/-1			50	10
	DN32 (1 1/4")		39.5~39.7	34.0~34.2				80	8
	DN40 (1 1/2")		49.5~49.7	42.4~42.6				120	
	DN50(2")		62.0~62.2	53.3~53.5	145+/-1			150	

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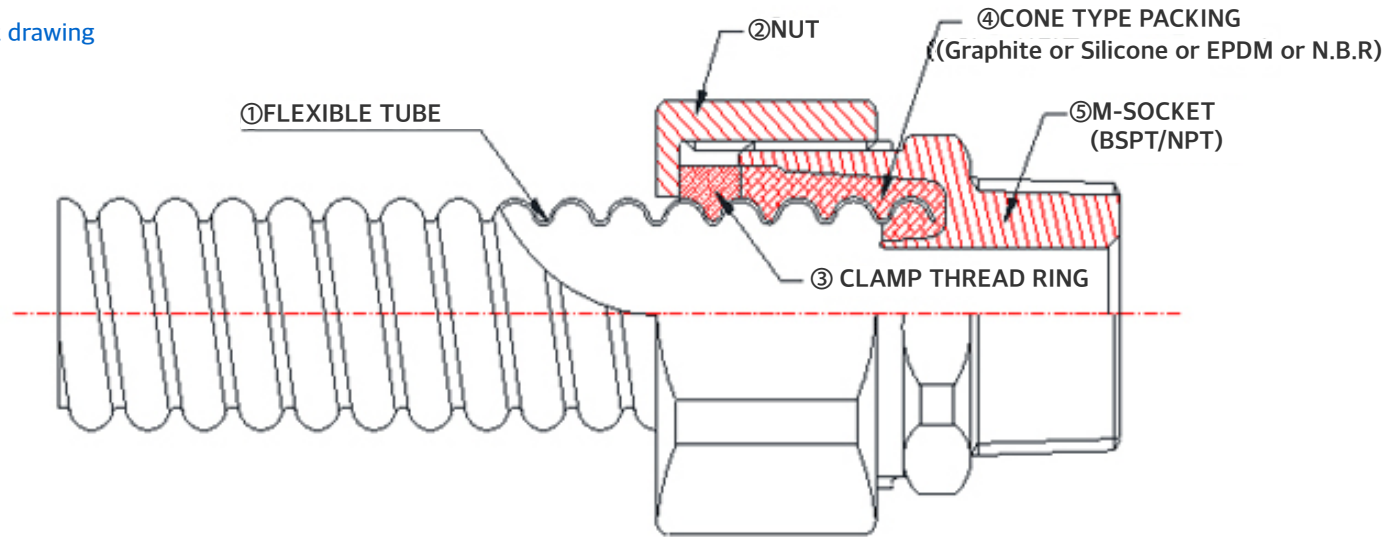
Helical type fitting (Cone type packing)

For solar heating system, heat-exchanger & drinking water



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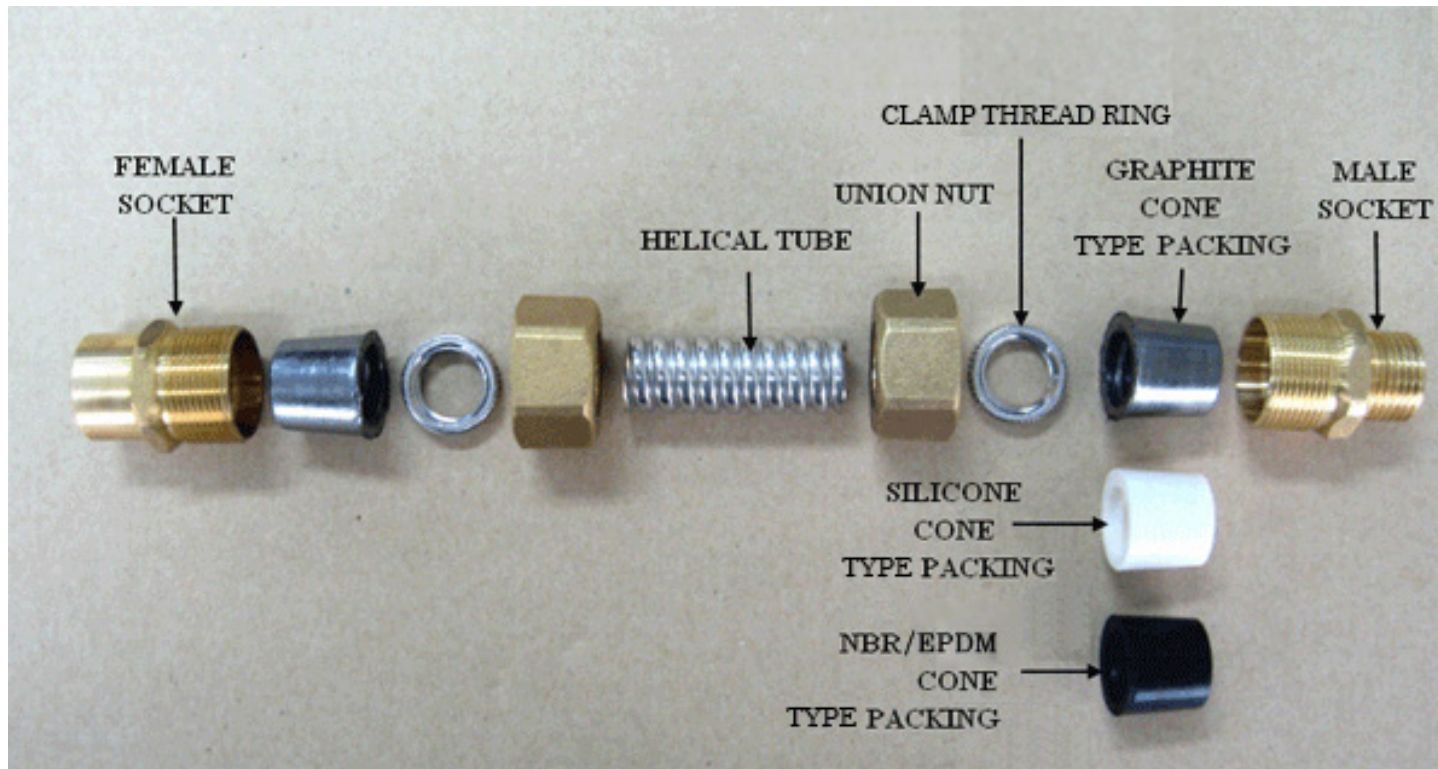
• Cross-cut drawing



• Component & Material

No	Component	Material	No	Component	Material
①	FLEXIBLE TUBE	AISI 304/316L	④	CONE TYPE PACKING	GRAPHITE(Heat resistance350℃)
					SILICONE(Heat resistance150℃)
					EPDM(Heat resistance130℃)
					N.B.R(Heat resistance120℃)
②	NUT	BRASS	⑤	M-SOCKET	BRASS
③	CLAMP THREAD RING	ZINC	⑥	F-SOCKET	BRASS

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Fitting Assembly Guidelines

For helical type tube and cone type packing (graphite, silicone, EPDM and NBR) fitting



Step 1 : Cut Tube

Cut tube at right angle to tube length using an electric tube cutter.
Make sure the cut end to be clean and flat.



Step 2 : Remove Burr on Tube End

Use stainless steel brush to remove all burr on tube cut-end.



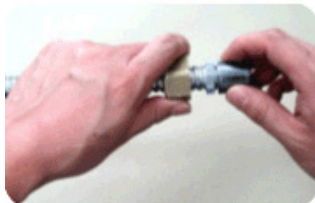
Step 3 : Assemble Nut

Put nut onto tube.



Step 4 : Assemble Clamp Thread

Put clamp thread ring on tube and screw in clock-wise.



Step 5 : Assemble Threaded Cone Packing

Screw threaded cone packing onto tube it doesn't spin anymore. (Do Not screw the packing by force)



Step 6 : Tighten Helical Type Clamp Thread Ring and Packing

Tighten Clamp Thread ring to meet cone packing and fix it.
(Double Nut Tightening)



Step 7 : Assemble Socket

Put sealant on tapered thread of brass socket, then screw the socket into piping system or boiler with high torque using a crescent wrench.



Step 8 : Assemble Fitting

Make a whole assembly set of tube, nut, stopper ring, DO NOT use sealant on parallel thread of unino nut!



Step 9 : Tighten Nut

Tighten up the nut and complete the fitting assemble

Torque

NBR & SILICONE & EPDM PACKING/

15A:85kgf · cm(8.23N · m),

20A : 120kgf · cm(11.83N · m),

25A : 180kgf · cm(17.65N · m)

Graphite Packing/15A : 276kgf · cm(27.22N · m),

20A : 360kgf · cm(35.50N · m),

25A : 570kgf · cm(56.21N · m)

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Certifications

