

Flexible Heated Hose Series 400

DEKORON®
Unitherm™
Tubing Bundle Experts Since 1962

Electrically Heated Convoluted Core Hose

Model 410 Fluoropolymer Core (to 400°F)
Model 450/460 Stainless Steel Core Hose (to 625°F)

DEKORON®/Unitherm™ Series 400 Electrically Heated Convoluted Core Hose products are custom engineered to your specific application requirements and equipment. Hydraulically and electrically complete, each hose is designed for fast, easy installation. Cores (convoluted fluoropolymer and stainless steel) are designed to meet all requirements while offering improved flexibility on large diameter and bulk transfer products. All models can be operated in continuous movement conditions. The heating element is a nickel alloy wire that is spiral wound to extremely close tolerances providing optimum temperature uniformity throughout the heated length.

Applications for this product include:

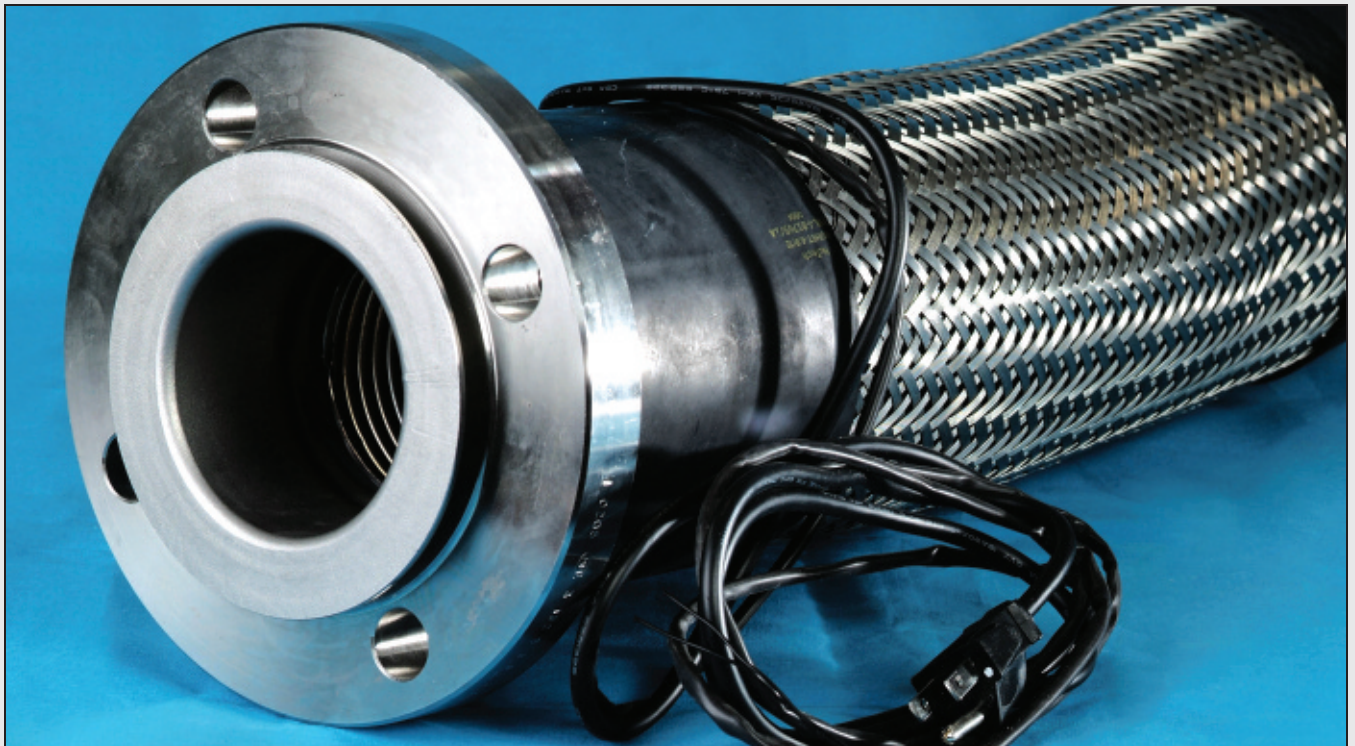
Product transfer (hot melt adhesives, urethanes, oils, fats, chemicals and wax) Viscosity control (asphalt, tar, fats, oil, wax, chemicals)

Features of this product include:

- Ready to use
- Constant power density and self-limiting heating elements
- Reinforced with stainless steel braid
- Electrical insulation is:
Fiberglass reinforced, silicone rubber insulation (Model 410)
Fiberglass/polyamide film (Models 450/460)
- 1 / 2" reinforced fiberglass thermal insulation
- External jacket is an abrasion resistant braided polyester sleeve (indoor) or a tough, extruded flame-retardant polyurethane (outdoor use).
- Power/control cable standard length is six (6) feet. Longer lengths are available.

Temperature control

With the exception of the self-limiting version, Series 400 hoses must be controlled to maintain the desired operating temperature. A temperature sensor is installed during construction and unless otherwise specified, will be installed three (3) feet from the power of the hose.



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Flexible Heated Hose Series 400

Model 410 Convuluted Fluoropolymer Low Pressure to 400°F (204°C)

Tube Size	Outside Diameter	Nominal Finished Diameter	Max. Operating Pressure	Minimum Bend Radius	Nominal Weight lbs/ft
8	0.50"	2.00"	1100 PSI	12"	0.6
12	0.75"	2.35"	1000 PSI	14"	0.7
16	1.00"	2.62"	1000 PSI	16"	0.8
20	1.25"	3.00"	800 PSI	18"	1.0
24	1.50"	3.25"	600 PSI	20"	1.5
32	2.00"	3.75"	400 PSI	24"	1.9
48	3.00"	4.75"	225 PSI	30"	3.2
64	4.00"	5.75"	150 PSI	48"	4.5

Model 450 Convuluted Stainless Steel to 625°F (329°C)

Tube Size	Finished Diameter	Max. Operating Pressure 400°	Max. Operating Pressure 600°	Minimum Bend Radius	Nominal Weight lbs/ft
0.25"	1.75"	1650 PSI	1608 PSI	10"	0.43
3/8"	1.85"	1171 PSI	1141 PSI	12"	0.50
0.50"	2.10"	839 PSI	817 PSI	14"	0.54
0.75"	2.30"	618 PSI	602 PSI	16"	0.80
1.00"	2.50"	445 PSI	434 PSI	18"	1.10
1.25"	3.00"	414 PSI	404 PSI	20"	1.30
1.50"	3.25"	368 PSI	359 PSI	24"	1.60
2.00"	3.80"	402 PSI	392 PSI	26"	2.00
2.50"	4.30"	294 PSI	294 PSI	30"	2.40
3.00"	4.80"	240 PSI	240 PSI	34"	2.80
4.00"	5.80"	181 PSI	176 PSI	38"	3.30

Model 460 High Pressure to 625°F (329°C)

Tube Size	Finished Diameter	Max. Operating Pressure 400°	Max. Operating Pressure 600°	Minimum Bend Radius	Nominal Weight lbs/ft
0.25"	1.75"	2438 PSI	2375 PSI	10"	0.45
3/8"	1.85"	1873 PSI	1825 PSI	12"	0.52
0.50"	2.10"	1342 PSI	1307 PSI	14"	0.56
0.75"	2.30"	988 PSI	963 PSI	16"	0.82
1.00"	2.50"	713 PSI	695 PSI	18"	1.12
1.25"	3.00"	663 PSI	646 PSI	20"	1.32