Engineering Specs

Pressure Equivalents

1 psi = 27.7 inches w.g.

1 psi = 2.04 inches of mercury (Hg)

1 inch of mercury (Hg) = 13.6 inches w.g.

1 inch of mercury (Hg) = 0.491 psi

Temperature Conversion

 $^{\circ}F = (^{\circ}C \times 1.8) + 32$

 $^{\circ}C = 0.555 (^{\circ}F - 32)$

Inch/Metric Size Conversion Table

Inches	cm	mm
1.00	2.5	25.4
1.25	3.2	31.8
1.50	3.8	38.1
2.00	5.1	50.8
2.36	6.0	60.0
2.50	6.4	63.5
2.95	7.5	75.0
3.00	7.6	76.2
3.94	10.0	100.0
4.00	10.2	101.6
4.72	12.0	120.0
5.00	12.7	127.0
6.00	15.2	152.4
6.30	16.0	160.0
7.00	17.8	177.8
7.09	18.0	180.0
8.00	20.3	203.2
10.00	25.4	254.0
12.00	30.5	304.8
14.00	35.6	355.6
16.00	40.6	406.4
18.00	45.7	457.2

Temperature Conversion Table

°F	°C
-65	-53.9
-40	-40.0
-20	-28.9
0	-17.8
20	-6.7
32	0.0
40	4.4
60	15.6
80	26.7
100	37.8
125	51.7
150	65.6
175	79.4
200	93.3
212	100.0
225	107.2
250	121.1
300	148.9
325	162.8
350	176.7
400	204.4
450	232.2
500	260.0
550	287.8

Inches Lbs. Per Inches Water Square In. Mercury 100 7.35 3.61 90 6.62 3.25 80 5.88 2.89 70 5.15 2.53 60 4.41 2.17 50 3.68 1.81 40 2.94 1.44 30 2.21 1.08 20 1.47 0.72 10 0.74 0.36 0.00 0 0.00

Mercury Water Square In. 29 394.4 14.2 26 353.6 12.7 24 326.4 11.8 22 299.2 10.8 20 272.0 9.8 18 244.8 8.8 7.8 16 217.6 14 190.4 6.9 12 163.2 5.9 10 136.0 4.9 8 108.8 3.9 6 81.6 2.9 54.4 2.0 2 27.2 1.0 0.5 13.6 0.5 6.8 0.25

Inches

Lbs. Per

Inches

All data based on average approximation.



FLEXADUX® PU







Dust Material

Flx-Thane® LD



Size Range (In)	stock 2" to 18"
Standard Length (Ft)	25'
Standard Colors	clear, black
Temperature Range (°F)	65° to 225°









- · Light weight polyurethane hose reinforced with a bronze coated spring steel wire helix
- Great compressibility
- Great abrasion resistance
- Superior chemical resistance
- Excellent flexibility
- Designed for applications with wide temperature ranges
- Clear is manufactured with FDA acceptable materials
- Available in metric sizes, consult sales team on pricing & minimums
- Wall Thickness = .020"



Flx-Thane® MD

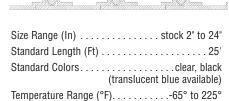




- Medium weight polyurethane hose reinforced with a bronze coated spring steel wire helix
- Good compressibility
- Great abrasion resistance & high tear strength
- Superior chemical resistance
- **Excellent flexibility**
- Designed for applications with wide temperature ranges
- Very good low temperature flexibility
- Clear is manufactured with FDA acceptable materials
- Available in metric sizes, consult sales team on pricing & minimums
- Wall Thickness = .030"



Flx-Thane® HD

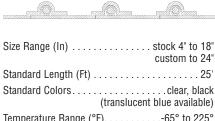




- · Heavy weight polyurethane hose reinforced with a coated spring steel wire helix (sizes 14" I.D. & above not available with a coated wire)
- Great abrasion resistance & high tear strength
- Superior chemical resistance
- **Excellent flexibility**
- Designed for applications with wide temperature ranges
- Ideal for severe service applications
- Very good low temperature flexibility
- Clear is manufactured with FDA acceptable materials
- Available in metric sizes, consult sales team on pricing & minimums
- Wall Thickness = .045"



Flx-Thane® VHD



- custom to 24"
- Temperature Range (°F)....-65° to 225°

- · Very heavy weight polyurethane hose reinforced with a coated spring steel wire helix (sizes 14" I.D. & above not available with a coated wire)
- Great abrasion resistance & high tear strength
- Superior chemical resistance
- **Excellent flexibility**
- Designed for applications with wide temperature
- Ideal for severe service applications
- Very good low temperature flexibility
- Clear is manufactured with FDA acceptable materials
- Available in metric sizes, consult sales team on pricing & minimums
- Wall Thickness = .060"





FLEXADUX® PU









Flx-Thane® SD



- · Medium weight static dissipative polyurethane hose reinforced with a bronze coated spring steel wire helix
- Great abrasion resistance & high tear strength
- Superior chemical resistance & excellent flexibility
- Designed for applications with wide temperature
- Ideal for clean rooms and material plastic processing applications
- Reduces static build-up in material handling applications
- Surface resistance level: 108-1010 Ohms/Square
- Clear is manufactured with FDA acceptable materials
- Wall Thickness = .030"





Flx-Thane® SE





 $\mathbb{U}\mathbb{R}_{\mathbb{S}}$

- Self-extinguishing medium weight polyurethane hose reinforced with a bronze coated spring steel wire helix
- Halogen-free
- Good compressibility
- Great abrasion resistance & high tear strength
- Superior chemical resistance
- **Excellent flexibility**
- Designed for applications with wide temperature ranges
- Good low temperature flexibility
- · Listed as UL 94V-0 flame retardant
- Wall Thickness = .030"



Flexadux® **Accessories**

Also available for our Flexaust®, Heat-Flex™, Flex-Lok® (excluding Screw Clamps) & Springflex® hoses.



Reducers



Transitions







Connectors



Y's



Bridge Clamps



Pin-Locks



T's



J-Locks



Latch-Locks



Branches



FLEX-LOK®









Flex-Lok® SF



Size Range (In) stock 3" to 18"
Standard Length (Ft)
Standard Colorssilver
Temperature Range (°F)65° to 550°





- Single-ply silicone coated fiberglass fabric hose mechanically crimped in a continuous process
- Fabric is locked around a coated steel wire by a metal strip formed into a clip
- Metal strip acts as a wearstrip
- Outstanding resistance to external abrasion
- Extremely flexible
- Ideal for vehicle exhaust applications with external abrasion
- Available with Hypalon® and neoprene coated materials (Flex-Lok® HP & Flex-Lok® NPB)
- Available with a polyurethane (PU-75 shore material) clip cover to protect the helix & the equipment that is attached to the hose



Flex-Lok® SF-2











- Double-ply silicone coated fiberglass fabric hose mechanically crimped in a continuous nrocess
- Fabric is locked around a coated steel wire by a metal strip formed into a clip
- Metal strip acts as a wearstrip
- Outstanding resistance to external abrasion
- Extremely flexible
- Ideal for high temperature fume control & vehicle exhaust applications with external abrasion
- Available with a polyurethane (PU-75 shore material) clip cover to protect the helix & the equipment that is attached to the hose



Flex-Lok® ET







Size Range (In)	stock 3" to 12"
Standard Length (F	t)
Standard Colors	silver
Temperature Range	(°F)65° to 1050°
	intermittent to 1250°



- Single-ply aluminum coated fiberglass fabric hose mechanically crimped in a continuous process
- Fabric is locked around a coated steel wire by a metal strip formed into a clip
- Metal strip acts as a wearstrip
- Outstanding resistance to external abrasion
- Extremely flexible & compressible
- Ideal for vehicle exhaust applications
- Available with a polyurethane (PU-75 shore material) clip cover to protect the helix & the equipment that is attached to the hose
- Not recommended for continuous flexing



Flex-Lok® TF







Size Range (In) stock 3" to 18"
Standard Length (Ft) 25'
Standard Colors silver
Temperature Range (°F)65° to 500°



- · Single-ply Teflon® coated fiberglass fabric hose mechanically crimped in a continuous process
- Fabric is locked around a coated steel wire by a metal strip formed into a clip
- Metal strip acts as a wearstrip
- Outstanding resistance to external abrasion
- Extremely flexible
- Ideal for venting many of today's harsh chemicals
- Available with a polyurethane (PU-75 shore material) clip cover to protect the helix & the equipment that is attached to the hose





SPRINGFLEX®

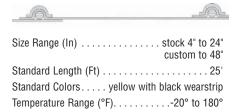








FSP-5







- Single-ply PVC vinyl coated polyester fabric hose reinforced with a spring steel wire helix & external PVC wearstrip
- Lightweight duct for blower applications
- Great compressibility with an 11:1 compressibility ratio
- Retractability allows for convenient storage & easy transport in a fraction of its fully extended length
- Wearstrip offers additional external abrasion & drag resistance
- Listed as UL 94V-0 flame retardant
- Manufactured with materials that meet NFPA 701 standards
- Shown with optional cuff



SD-W







- Single-ply neoprene coated polyester fabric hose reinforced with a spring steel wire helix & external PVC wearstrip
- Ideal for moving large volumes of air in portable or permanent ventilation/exhaust systems
- Wearstrip offers additional external abrasion & drag resistance
- Great compressibility
- Retractability allows for convenient storage & easy transport in a fraction of its fully extended length
- Listed as UL 94V-0 flame retardant
- Available in a self-retracting version (STO), 4" to
- Shown with optional cuff



SD

Size Range (In) stock 4" to 24 custom to 60
Standard Length (Ft)
Standard Colors
Temperature Range (°F)65° to 250°



₽

- Single-ply neoprene coated polyester fabric hose reinforced with a spring steel wire helix
- Ideal for moving large volumes of air in portable or permanent ventilation/exhaust systems
- Great compressibility
- Retractability allows for convenient storage & easy transport in a fraction of its fully extended
- Listed as UL 94V-0 flame retardant
- Shown with optional cuff



Springflex® End Finishes

Flexaust offers a variety of end finishes including several types of fabric cuffs for the Springflex[®] product line. Assembling hoses with various types of required end finishes is another way in which Flexaust services its customers and reduces costs.



Sewn Cuff



Standard/Enclosed Belted Cuff

SPRINGFLEX®

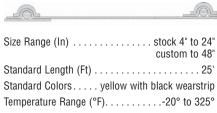






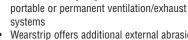


AWP-W





®R⊌



Ideal for moving large volumes of air in

Wearstrip offers additional external abrasion & drag resistance

Single-ply acrylic coated polyester fabric hose

reinforced with a spring steel wire helix &

Great compressibility

external PVC wearstrip

- Retractability allows for convenient storage & easy transport in a fraction of its fully extended lenath
- Listed as UL 94V-0 flame retardant
- Shown with optional cuff



Arctic Duct 3



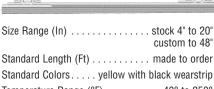
Size Range (In) stock 4" to 24" Standard Length (Ft) 25' Standard Colors yellow with black wearstrip Temperature Range (°F)....-20° to 180°

- · Two single-ply PVC vinyl coated polyester fabric plies protecting an insulation barrier reinforced with a spring steel wire helix & external PVC wearstrip
- Ideal use for both permanent & mobile air conditioning applications
- PVC material resists ozone, UV rays & moisture
- Compressibility allows for convenient storage
- Wearstrip offers additional external abrasion & drag resistance
- Other Arctic Duct constructions available
- Manufactured with flame retardant materials
- Made with sewn cuff on each end





Arctic Duct U



- custom to 48" Standard Length (Ft) made to order Standard Colors yellow with black wearstrip Temperature Range (°F)....-40° to 250°

- Two single-ply neoprene coated polyester fabric plies protecting an insulation barrier reinforced with a spring steel wire helix & external PVC coated polyester wearstrip
- Good for air handling applications
- High tensile strength
- Wearstrip offers additional external abrasion & drag resistance
- Compressibility allows for convenient storage
- Designed for applications with wide temperature
- Manufactured with flame retardant materials
- Made with sewn cuff on each end



Springflex® End Finishes continued...



Funnel Cuff



Belt Loop & Pull Tabs



Flat Band/Nylon Ring



Sto-Sack®

HEAT-FLEXTM







Dust Material

GS



Size Range (In) stock 1" to 12" Standard Colors iron oxide red Temperature Range (°F)....-65° to 550° intermittent to 600°

- Double-ply silicone coated fiberglass fabric hose reinforced with a spring steel wire helix & external filament fiberglass cord
- Suited for high temperature air handling applications
- The narrow pitch allows for tight bending radius while maintaining a smooth air flow
- Ideal for plastic processing applications
- Non-kinking
- Resistant to many oils & solvents, ozone, water, fungus & alkalis
- Not recommended for continuous flexing









CWGS



- Single-ply silicone coated fiberglass fabric hose reinforced with a spring steel wire helix
- Light weight & flexible
- Available in longer lengths than traditional mandrel-built hose
- Resistant to many oils & solvents, ozone, water, fungus & alkalis
- Not recommended for continuous flexing







BDS



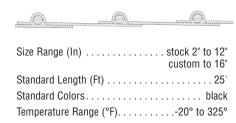
- · Single-ply silicone coated fiberglass fabric hose reinforced with a spring steel wire helix & external filament fiberglass cord
- Suited for high temperature air handling applications
- The narrow pitch allows for tight bending radius while maintaining a smooth air flow
- Non-kinking
- Resistant to many oils & solvents, ozone, water, fungus & alkalis
- Not recommended for continuous flexing







CW-325









- · Single-ply acrylic coated polyester fabric hose reinforced with a spring steel wire helix
- Ideal for air & fume handling applications
- Excellent choice for overhead vehicle exhaust systems
- Light weight & flexible
- Listed as UL 94V-0 flame retardant
- Available with an external wearstrip (CW-325-W)

