

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

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

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

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

$^{\circ}\text{F}$	$^{\circ}\text{C}$
-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 Mercury	Inches Water	Lbs. Per 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
16	217.6	7.8
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
4	54.4	2.0
2	27.2	1.0
1	13.6	0.5
0.5	6.8	0.25

Inches Water	Inches Mercury	Lbs. Per Square In.
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	0.00	0.00

All data based on average approximation.



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



Size Range (In) stock 2" to 24"
 Standard Length (Ft) 25', 50'
 Standard Colors black, clear
 Temperature Range (°F) -65° to 225°



- 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



Size Range (In) stock 2" to 24"
 Standard Length (Ft) 25'
 Standard Colors clear, black
 (translucent blue available)
 Temperature Range (°F) -65° to 225°



- 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



Size Range (In) stock 4" to 18"
 custom to 24"
 Standard Length (Ft) 25'
 Standard Colors clear, black
 (translucent blue available)
 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 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 = .060"



Flx-Thane® SD



Size Range (In) stock 2" to 12"
 Standard Length (Ft) 25', 50'
 Standard Colors black, clear
 Temperature Range (°F) -65° to 225°

- 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 ranges
- 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



Size Range (In) stock 2" to 12"
 custom to 24"
 Standard Length (Ft) 25', 50'
 Standard Colors clear
 Temperature Range (°F) -65° to 225°

- 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.



Screw Clamps



Bridge Clamps



J-Locks



Connectors



Pin-Locks



Latch-Locks



Reducers



Transitions



Y's



T's



Branches

Flex-Lok® SF



Size Range (In) stock 3" to 18"
 Standard Length (Ft) 25'
 Standard Colors silver
 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



Size Range (In) stock 3" to 12"
 custom to 18"
 Standard Length (Ft) 25'
 Standard Colors silver
 Temperature Range (°F) -65° to 750°



- Double-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 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 (Ft) 25'
 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



GS



Size Range (In) stock 1" to 12"
 Standard Length (Ft) 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



Size Range (In) stock 2" to 12"
 Standard Length (Ft) 25'
 Standard Colors iron oxide red
 Temperature Range (°F) -65° to 550°

- 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



Size Range (In) stock 1" to 8"
 Standard Length (Ft) 12'
 Standard Colors iron oxide red
 Temperature Range (°F) -65° to 500°

- 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



Size Range (In) stock 2" to 12"
 custom to 16"
 Standard Length (Ft) 25'
 Standard Colors black
 Temperature Range (°F) -20° to 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)

