

# Thermoid®



Made in U.S.A.

**Air/Multipurpose**

## VALUFLEX®/GS - RED

Valuflex®/GS is one of the most versatile general service air and water hoses available today. Featuring multiple plies of rubber, spiral reinforced polyester fiber and an EPDM tube and cover, it is both lightweight and flexible, and resists abrasion, heat and ozone, making it useful in various applications, including industrial, agriculture and construction. Valuflex is available in a wide variety of sizes and colors to provide constant working pressures of 150, 200, 250, or 300 psi and offer color coding for safety and operational improvement. Not recommended as a steam hose or where oil is present.



**RESISTANCE**     
**BRANDING** Thermoid Valuflex/GS Size PSI WP  
 Made In USA Month/Day/Year-DOM

**Cover Color:** Red  
**Oil Resistance:** Limited  
**Construction:**  
     **Tube:** EPDM  
     **Cover:** EPDM  
     **Reinforcement:** Spiral polyester yarn  
**Temperature Range:** -40°F to +200°F  
**Packaging:** -40°C to +93°C  
 Reels or †50 ft. length – 1 per carton

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
00114503200▲	3/16	4.76	0.44	11.11	2	200	1.38	N/A	N/A	0.08	0.12
00114504100▲	1/4	6.35	0.49	12.45	2	150	1.03	1.50	38.10	0.08	0.12
00114504200	1/4	6.35	0.49	12.45	2	200	1.38	1.50	38.10	0.08	0.12
00114504300	1/4	6.35	0.50	14.22	2	250	1.72	1.50	38.10	0.08	0.12
00114504400	1/4	6.35	0.50	15.75	2	300	2.07	1.50	38.10	0.08	0.12
00114505200	5/16	7.94	0.58	14.73	2	200	1.38	2.00	50.80	0.09	0.13
00114505400	5/16	7.94	0.58	15.75	2	300	2.07	2.00	50.80	0.09	0.13
00114506100▲	3/8	9.53	0.69	17.53	2	150	1.03	2.25	57.15	0.15	0.22
00114506200	3/8	9.53	0.69	17.53	2	200	1.38	2.25	57.15	0.15	0.22
00114506251†	3/8	9.53	0.69	17.53	2	200	1.38	2.25	57.15	0.15	0.22
00114506300	3/8	9.53	0.69	17.53	2	250	1.72	2.25	57.15	0.15	0.22
00114506400	3/8	9.53	0.69	17.53	2	300	2.07	2.25	57.15	0.15	0.22
00114506451†	3/8	9.53	0.69	17.53	2	300	2.07	2.25	57.15	0.15	0.22
00114508100	1/2	12.70	0.81	20.64	2	150	1.03	3.00	76.20	0.20	0.30
00114508200	1/2	12.70	0.81	20.64	4	200	1.38	3.00	76.20	0.25	0.37
00114508300	1/2	12.70	0.84	21.43	4	250	1.72	3.00	76.20	0.25	0.37
00114508400	1/2	12.70	0.84	21.43	4	300	2.07	3.00	76.20	0.25	0.37
00114510100	5/8	15.88	0.93	23.62	4	150	1.03	3.75	95.25	0.24	0.36
00114510200	5/8	15.88	0.93	23.62	4	200	1.38	3.75	95.25	0.30	0.45
00114510300▲	5/8	15.88	1.00	25.40	4	250	1.72	3.75	95.25	0.30	0.45
00114510400	5/8	15.88	1.00	25.40	4	300	2.07	3.75	95.25	0.30	0.45
00114512100	3/4	19.05	1.12	28.45	4	150	1.03	4.50	114.30	0.34	0.51
00114512200	3/4	19.05	1.15	29.21	4	200	1.38	4.50	114.30	0.38	0.57
00114512251†	3/4	19.05	1.15	29.21	4	200	1.38	4.50	114.30	0.38	0.57
00114512500	3/4	19.05	1.15	29.21	4	250	1.72	4.50	114.30	0.38	0.57
00114512550†	3/4	19.05	1.15	29.21	4	250	1.72	4.50	114.30	0.38	0.57
00114512400	3/4	19.05	1.15	29.21	4	300	2.07	4.50	114.30	0.41	0.61
00114512451†	3/4	19.05	1.15	29.21	4	300	2.07	4.50	114.30	0.41	0.61
00114516200	1	25.40	1.37	34.80	4	150	1.03	7.00	177.80	0.43	0.64
00114516300	1	25.40	1.37	34.80	4	200	1.38	7.00	177.80	0.51	0.76
00114516400	1	25.40	1.43	36.20	4	300	1.38	7.00	177.80	0.51	0.76
00114520200	1-1/4	31.75	1.75	44.45	4	200	1.38	8.75	222.25	0.81	1.21
00114524200	1-1/2	38.10	2.00	50.80	4	200	1.38	10.50	266.70	0.89	1.34
00114532200	2	50.80	2.55	64.77	4	200	1.38	14.00	355.60	1.28	1.90

▲ = Make To Order (MTO)  
 † = 50 ft. length – 1 per carton

## VALUFLEX®/GS - BLACK

Valuflex®/GS is one of the most versatile general service air and water hoses available today. Featuring multiple plies of rubber, spiral reinforced polyester fiber and an EPDM tube and cover, it is both lightweight and flexible, and resists abrasion, heat and ozone, making it useful in various applications, including industrial, agriculture and construction. Valuflex is available in a wide variety of sizes and colors to provide constant working pressures of 150, 200, 250, or 300 psi and offer color coding for safety and operational improvement. Not recommended as a steam hose or where oil is present.



**RESISTANCE**   
**BRANDING** Thermoid Valuflex/GS Size PSI WP  
 Made In USA Month/Day/Year-DOM

**Cover Color:** Black  
**Oil Resistance:** Limited  
**Construction:**  
     **Tube:** EPDM  
     **Cover:** EPDM  
     **Reinforcement:** Spiral polyester yarn  
**Temperature Range:** -40°F to +200°F  
**Packaging:** -40°C to +93°C  
 Reels or †50 ft. length – 1 per carton

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
00114603200▲	3/16	4.76	0.44	11.11	2	200	1.38	N/A	N/A	0.07	0.11
00114604100▲	1/4	6.35	0.49	12.45	2	150	1.03	1.50	38.10	0.08	0.12
00114604200	1/4	6.35	0.49	12.45	2	200	1.38	1.50	38.10	0.08	0.12
00114604300▲	1/4	6.35	0.50	14.22	2	250	1.72	1.50	38.10	0.08	0.12
00114604400	1/4	6.35	0.50	15.75	2	300	2.07	1.50	38.10	0.08	0.12
00114605200	5/16	7.94	0.58	14.73	2	200	1.38	2.00	50.80	0.09	0.13
00114605400	5/16	7.94	0.58	15.75	2	300	2.07	2.00	50.80	0.09	0.13
00114606100▲	3/8	9.53	0.69	17.53	2	150	1.03	2.25	57.15	0.15	0.22
00114606200	3/8	9.53	0.69	17.53	2	200	1.38	2.25	57.15	0.15	0.22
00114606300▲	3/8	9.53	0.69	17.53	2	250	1.72	2.25	57.15	0.15	0.22
00114606400	3/8	9.53	0.69	17.53	2	300	2.07	2.25	57.15	0.15	0.22
00114608100	1/2	12.70	0.81	20.64	2	150	1.03	3.00	76.20	0.19	0.28
00114608200	1/2	12.70	0.81	20.64	4	200	1.38	3.00	76.20	0.24	0.36
00114608300▲	1/2	12.70	0.84	21.43	4	250	1.72	3.00	76.20	0.24	0.36
00114608400	1/2	12.70	0.84	21.43	4	300	2.07	3.00	76.20	0.24	0.36
00114610100	5/8	15.88	0.93	23.62	4	150	1.03	3.75	95.25	0.23	0.34
00114610200	5/8	15.88	0.93	23.62	4	200	1.38	3.75	95.25	0.29	0.43
00114610400	5/8	15.88	1.00	25.40	4	300	2.07	3.75	95.25	0.29	0.43
00114612100	3/4	19.05	1.12	28.45	4	150	1.03	4.50	114.30	0.33	0.49
00114612200	3/4	19.05	1.15	29.21	4	200	1.38	4.50	114.30	0.36	0.54
00114612251†▲	3/4	19.05	1.15	29.21	4	200	1.38	4.50	114.30	0.36	0.54
00114612300▲	3/4	19.05	1.15	29.21	4	250	1.72	4.50	114.30	0.36	0.54
00114612400	3/4	19.05	1.15	29.21	4	300	2.07	4.50	114.30	0.40	0.60
00114612454†▲	3/4	19.05	1.15	29.21	4	300	2.07	4.50	114.30	0.40	0.60
00114616100	1	25.40	1.37	34.80	4	150	1.03	7.00	177.80	0.41	0.61
00114616200	1	25.40	1.37	34.80	4	200	1.38	7.00	177.80	0.49	0.73
00114616400	1	25.40	1.43	36.32	4	300	2.07	7.00	177.80	0.49	0.73
00114620200	1-1/4	31.75	1.75	44.45	4	200	1.03	8.75	222.25	0.79	1.18
00114624200	1-1/2	38.10	2.00	50.80	4	200	1.03	10.50	266.70	0.90	1.34
00114632200	2	50.80	2.55	64.77	4	200	1.03	14.00	355.60	1.08	1.61

▲ = Make To Order (MTO)  
 † = 50 ft. length – 1 per carton

## VALUFLEX®/GS - GREEN, YELLOW OR BLUE

Valuflex®/GS is one of the most versatile general service air and water hoses available today. Featuring multiple plies of rubber, spiral reinforced polyester fiber and an EPDM tube and cover, it is both lightweight and flexible, and resists abrasion, heat and ozone, making it useful in various applications, including industrial, agriculture and construction. Valuflex is available in a wide variety of sizes and colors to provide constant working pressures of 150, 200, 250, or 300 psi and offer color coding for safety and operational improvement. Not recommended as a steam hose or where oil is present.



**RESISTANCE**     
**BRANDING** Thermoid Valuflex/GS Size PSI WP  
 Made In USA Month/Day/Year-DOM

**Cover Color:** Green, Yellow or Blue  
**Oil Resistance:** Limited  
**Construction:**  
     **Tube:** EPDM  
     **Cover:** EPDM  
     **Reinforcement:** Spiral polyester yarn  
**Temperature Range:** -40°F to +200°F  
**Packaging:** -40°C to +93°C  
 Reels or †50 ft. length – 1 per carton

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
<b>Green</b>											
00114806300	3/8	9.53	0.69	17.53	2	250	1.73	2.25	57.15	0.18	0.27
00114808300	1/2	12.70	0.84	21.34	4	250	1.73	3.00	76.20	0.25	0.37
00114808400▲	1/2	12.70	0.84	21.34	4	300	2.07	3.00	76.20	0.25	0.37
00114812500	3/4	19.05	1.15	29.21	4	250	1.73	4.50	114.30	0.37	0.55
00114812400	3/4	19.05	1.15	29.21	4	300	2.07	4.50	114.30	0.41	0.61
00114812551†	3/4	19.05	1.15	29.21	4	250	1.73	4.50	114.30	0.37	0.55
00114812455†▲	3/4	19.05	1.15	29.21	4	300	2.07	4.50	114.30	0.41	0.61
00114816300▲	1	25.40	1.43	36.20	4	250	1.73	7.00	177.80	0.54	0.80
00114816400	1	25.40	1.43	36.20	4	300	2.07	7.00	177.80	0.54	0.80
<b>Yellow</b>											
00114912356▲	3/4	19.05	1.15	29.21	4	250	1.73	4.50	114.30	0.37	0.55
00114912351†▲	3/4	19.05	1.15	29.21	4	250	1.73	4.50	114.30	0.37	0.55
<b>Blue</b>											
00115008300▲	1/2	12.70	0.84	21.43	4	250	1.73	3.00	76.20	0.25	0.37
00115012300	3/4	19.05	1.15	29.21	4	250	1.73	4.50	114.30	0.37	0.55
00115012355†	3/4	19.05	1.15	29.21	4	250	1.73	4.50	114.30	0.37	0.55
00115016300▲	1	25.40	1.43	36.20	4	250	1.73	7.00	177.80	0.54	0.80

▲ = Make To Order (MTO)  
 † = 50 ft. length – 1 per carton

## MAINLINER®

The Mainliner® air and multipurpose hose is designed to handle the oily mists used to lubricate pneumatic tools. Featuring a medium oil-resistant tube with multi-spiral polyester reinforcement, the hose remains flexible even in extreme temperatures. Its durable cover resists abrasion, cracking, weathering and ozone. Mainliner offers constant working pressures of 200, 250 and 300 psi.



**RESISTANCE**     
**BRANDING** Thermoid Mainliner Size PSI WP  
 Made In USA

### Not recommended for handling fuels

**Cover Color:** Red  
**Oil Resistance:** Medium  
**Construction:**  
     **Tube:** EPDM, RMA Class C  
     **Cover:** EPDM - Limited  
     **Reinforcement:** Spiral polyester yarn  
**Temperature Range:** -40°F to +200°F  
**Packaging:** -40°C to +93°C  
 Reels or †50 ft. length – 1 per carton

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
00225504200▲	1/4	6.35	0.50	12.70	2	200	1.38	1.50	38.10	0.09	0.13
00225504400	1/4	6.35	0.50	12.70	2	300	2.07	1.50	38.10	0.15	0.22
00225505400	5/16	7.94	0.62	15.75	4	300	2.07	2.00	50.80	0.14	0.21
00225506200▲	3/8	9.53	0.69	17.53	2	200	1.38	2.25	57.15	0.15	0.22
00225506400	3/8	9.53	0.69	17.53	2	300	2.07	2.25	57.15	0.18	0.27
00225508200▲	1/2	12.70	0.81	20.64	2	200	1.38	3.00	76.20	0.19	0.28
00225508400	1/2	12.70	0.84	21.34	4	300	2.07	3.00	76.20	0.25	0.37
00225510400	5/8	15.88	1.00	25.40	4	300	2.07	3.75	95.25	0.30	0.45
00225512300	3/4	19.05	1.15	29.21	4	250	1.72	4.50	114.30	0.37	0.55
00225512351†▲	3/4	19.05	1.15	29.21	4	250	1.72	4.50	114.30	0.37	0.55
00225512400	3/4	19.05	1.15	29.21	4	300	2.07	4.50	114.30	0.37	0.55
00225512451†▲	3/4	19.05	1.15	29.21	4	300	2.07	4.50	114.30	0.37	0.55
00225516200▲	1	25.40	1.37	34.80	4	200	1.38	7.00	177.80	0.42	0.62
00225516400	1	25.40	1.43	36.20	4	300	2.07	7.00	177.80	0.50	0.74
00225520200	1-1/4	31.75	1.75	44.45	4	200	1.38	8.75	222.25	0.81	1.21
00225524200	1-1/2	38.10	2.00	50.80	4	200	1.38	10.50	266.70	0.94	1.40
00225532200	2	50.80	2.55	64.77	4	200	1.38	14.00	355.60	1.12	1.67

▲ = Make To Order (MTO)  
 † = 50 ft. length – 1 per carton

## AIRFLEX™

Airflex™ hose is the quality choice for any application where a medium oil resistant tube is needed to lubricate air tools. Airflex™ has a working pressure to 300 psi in a full range of sizes from 1/4" I.D. to 3/4" I.D. It has a durable 4-spiral construction and a highly visible yellow cover that is weather, ozone and abrasion resistant.



**RESISTANCE**     
**BRANDING** Thermoid Size WP Airflex  
 Made In USA

**Cover Color:** Yellow  
**Oil Resistance:** Medium  
**Construction:**  
     **Tube:** EPDM, RMA Class C  
     **Cover:** EPDM - Limited  
     **Reinforcement:** Spiral polyester yarn  
**Temperature Range:** -40°F to +200°F  
**Packaging:** -40°C to +93°C  
 Reels or †50 ft. length – 1 per carton

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
00235504400▲	1/4	6.35	0.62	15.75	4	300	2.07	1.50	38.10	0.15	0.22
00235506400	3/8	9.53	0.69	17.53	4	300	2.07	2.25	57.15	0.18	0.27
00235508400	1/2	12.70	0.84	21.34	4	300	2.07	3.00	76.20	0.25	0.37
00235512400	3/4	19.05	1.15	29.21	4	300	2.07	4.50	114.30	0.37	0.55
00235512451†	3/4	19.05	1.15	29.21	4	300	2.07	4.50	114.30	0.37	0.55
00235516400	1	25.40	1.43	36.20	4	300	2.07	7	177.80	0.54	0.80

▲ = Make To Order (MTO)  
 † = 50 ft. length – 1 per carton

## DURA-RED™

Dura-Red™ is the premium non-conductive multipurpose hose that handles oil mist, air, water and mild chemicals. While not recommended for fuels, Dura-Red™ meets the electrical resistance portion of the Alcoa Potroom air and water specs (30.4.2), and features 4-spiral, 300 psi construction to handle harsh applications.



**RESISTANCE**    
**BRANDING** Thermoid Dura-Red™  
 Non-conductive Size PSI WP  
 Made In USA

**Cover Color:** Red  
**Oil Resistance:** Medium  
**Construction:** Non-conductive  
**Tube:** EPDM, RMA Class C  
**Cover:** EPDM Class C  
**Reinforcement:** Spiral polyester yarn  
**Temperature Range:** -40°F to +200°F  
**Packaging:** -40°C to +93°C  
 Packaging: Reels or †50 ft. length –  
 1 per carton (3/4" I.D. only)

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
00275504400▲	1/4	6.35	0.62	15.75	4	300	2.07	1.50	38.10	0.16	0.24
00275506400	3/8	9.53	0.71	18.03	4	300	2.07	2.25	57.15	0.18	0.27
00275508400	1/2	12.70	0.84	21.34	4	300	2.07	3.00	76.20	0.25	0.37
00275512400	3/4	19.05	1.15	29.21	4	300	2.07	4.50	114.30	0.38	0.57
00275516400	1	25.40	1.43	36.20	4	300	2.07	7.00	177.80	0.51	0.76

▲ = Make To Order (MTO)  
 † = 50 ft. length – 1 per carton

## MAXECON™/GP

Maxecon™ is a versatile general purpose air and water service hose that can be used across all industries. It is incredibly durable and flexible, ideal for uses in mining, steel and petroleum applications. It is non-conductive and offers a medium-high oil resistance, as well as dependable performance with two working pressures: 250 or 300 psi in varying sizes up to 1-1/2" I.D. Not recommended for fuel applications.

It is tested to have a minimum of 1,000,000 ohms per inch resistance when tested with a 1,000 volt D.C. meggar.



**RESISTANCE**   
**BRANDING** Thermoid Maxecon /GP  
 Non-conductive Size PSI WP  
 Made In USA

**Cover Color:** Red  
**Oil Resistance:** Cover (Medium) – Tube (High)  
**Construction:** Non-conductive  
**Tube:** Nitrile blend, RMA Class A  
**Cover:** Nitrile blend, RMA Class B  
**Reinforcement:** Spiral polyester yarn  
**Temperature Range:** -20°F to +160°F or 180°F (intermittent)  
**Packaging:** -29°C to +71°C or 82°C (intermittent)  
 Reels or †50 ft. length

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
00336504300	1/4	6.35	0.50	12.70	2	250	1.72	1.50	38.10	0.08	0.12
00336504400	1/4	6.35	0.62	15.75	4	300	2.07	1.50	38.10	0.13	0.19
00336505300	5/16	7.94	0.63	15.88	2	250	1.72	2.00	50.80	0.14	0.21
00336506300	3/8	9.53	0.69	17.53	4	250	1.72	2.25	57.15	0.17	0.25
00336506400	3/8	9.53	0.69	17.53	4	300	2.07	2.25	57.15	0.17	0.25
00336508300	1/2	12.70	0.84	21.34	4	250	1.72	3.00	76.20	0.24	0.36
00336508400	1/2	12.70	0.84	21.34	4	300	2.07	3.00	76.20	0.24	0.36
00336510400	5/8	15.88	1.00	25.40	4	300	2.07	3.75	95.25	0.28	0.42
00336512300	3/4	19.05	1.15	29.21	4	250	1.72	4.50	114.30	0.36	0.54
00336512400	3/4	19.05	1.15	29.21	4	300	2.07	4.50	114.30	0.40	0.60
00336516300	1	25.40	1.43	36.20	4	250	1.72	7.00	177.80	0.49	0.73
00336516400	1	25.40	1.43	36.20	4	300	2.07	7.00	177.80	0.58	0.86
00336520300	1-1/4	31.75	1.78	45.24	4	250	1.72	8.75	222.25	0.78	1.16
00336524300	1-1/2	38.10	2.03	51.59	4	250	1.72	10.50	266.70	0.90	1.34

† = 50 ft. length –1 per carton

## VERSICON®

Versicon® is designed to stand up to the tough working conditions found in shipyards, steel processing automotive plants and construction industries, as well as aluminum reduction and other applications where a high degree of electrical non-conductivity is required. Its spiral polyester reinforcing cords provide strength and flexibility even in extreme temperatures, and its NBR tube and synthetic cover can convey oil, diesel, kerosene, fuel oil and other petroleum based products while resisting oil, solvents, cracking, abrasion and ozone. It provides a constant pressure of either 250 or 300 psi 1/4" through the 1-1/2" sizes. Not recommended for a variety of unleaded gasoline.

It is tested to have a minimum of 1,000,000 ohms per inch resistance when tested with a 1,000 volt D.C. meggar.



**RESISTANCE**     
**BRANDING** Thermoid Versicon  
 Non-conductive Size WP  
 Made In USA

**Cover Color:** Red  
**Oil Resistance:** High  
**Construction:** Non-conductive  
**Tube:** NBR, RMA Class A  
**Cover:** Nitrile/PVC Class A  
**Reinforcement:** Spiral polyester yarn  
**Temperature Range:** -20°F to +180°F  
 -29°C to +82°C  
**Packaging:** Reels

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
00447504400	1/4	6.35	0.62	15.75	4	300	2.07	1.50	38.10	0.16	0.24
00447506400	3/8	9.53	0.69	17.53	4	300	2.07	2.25	57.15	0.18	0.27
00447508400	1/2	12.70	0.84	21.34	4	300	2.07	3.00	76.20	0.25	0.37
00447512400	3/4	19.05	1.15	29.21	4	300	2.07	4.50	114.30	0.42	0.62
00447516400	1	25.40	1.43	36.20	4	300	2.07	7.00	177.80	0.63	0.94
00447520300	1-1/4	31.75	1.78	45.24	4	250	1.72	8.75	222.25	0.81	1.21
00447524300	1-1/2	38.10	2.03	51.59	4	250	1.72	10.50	266.70	0.95	1.41

## MAXECON™ PLUS

Maxecon™ Plus is rated high in oil resistance and can be used to convey oil, fuel oil, diesel, kerosene and other petroleum derived products in mining, steel and petroleum industrial applications. It has a working pressure of 300 psi to 1" I.D, and features a durable oil and solvent resistant brown cover capable of standing up to abrasion, weathering and ozone. Not recommended for a variety of unleaded gasoline.

It is tested to have a minimum of 1,000,000 ohms per inch resistance when tested with a 1,000 volt D.C. meggar.



**RESISTANCE**   
**BRANDING** Thermoid Versicon/Maxecon Plus  
 Non-conductive Size WP  
 Made In USA

**Cover Color:** Brown  
**Oil Resistance:** High  
**Construction:** Non-conductive  
**Tube:** NBR, RMA Class A  
**Cover:** NBR/PVC RMA Class A  
**Reinforcement:** Spiral polyester yarn  
**Temperature Range:** -20°F to +180°F  
 -29°C to +82°C  
**Packaging:** Reels

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
00447404400	1/4	6.35	0.62	15.75	4	300	2.07	1.50	38.10	0.16	0.24
00447406400	3/8	9.53	0.71	18.03	4	300	2.07	2.25	57.15	0.18	0.27
00447408400	1/2	12.70	0.84	21.34	4	300	2.07	3.00	76.20	0.25	0.37
00447412400	3/4	19.05	1.15	29.21	4	300	2.07	4.50	114.30	0.42	0.62
00447416400	1	25.40	1.43	36.20	4	300	2.07	7.00	177.80	0.61	0.91

## BLACK MAX® M.R.O.

The Black Max® M.R.O. features a fuel line quality that will convey oil, fuel oil, diesel, kerosene and other petroleum derived products, while its tough, black cover resists oils and solvents, as well as weathering, ozone and abrasion. It is tested to have a minimum of 1,000,000 ohms per inch resistance when tested with a 1,000 volt D.C. meggar.

**Not recommended for a variety of unleaded gasoline.**



**RESISTANCE**   
**BRANDING** Thermoid Versicon/Black Max  
 MRO Non-conductive Size WP  
 Made In USA

**Cover Color:** Black  
**Oil Resistance:** High  
**Construction:** Non-conductive  
**Tube:** NBR, RMA Class A  
**Cover:** NBR/PVC RMA Class A  
**Reinforcement:** Spiral polyester yarn  
**Temperature Range:** -20°F to +180°F  
 -29°C to +82°C  
**Packaging:** Reels

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
00447604400▲	1/4	6.35	0.62	15.75	4	300	2.07	1.50	38.10	0.16	0.24
00447606400▲	3/8	9.53	0.71	18.03	4	300	2.07	2.25	57.15	0.18	0.27
00447608400▲	1/2	12.70	0.84	21.34	4	300	2.07	3.00	76.20	0.25	0.37
00447612400▲	3/4	19.05	1.15	29.21	4	300	2.07	4.50	114.30	0.42	0.62
00447616400▲	1	25.40	1.43	36.20	4	300	2.07	7.00	177.80	0.60	0.89

▲ = Make To Order (MTO)

## GOLDENAIR®

The Goldenair® is the quality general purpose, non-conductive hose choice for air, petroleum products and nitrogen service. Designed for the harsh conditions found in steel mills, shipyards, foundries, auto plants and construction sites, Goldenair® resists weathering, ozone and abrasion. It provides a constant working pressure to 350 psi in 3/4" size and is kink resistant.

### Not recommended for a variety of unleaded gasoline.

It is tested to have a minimum of 1,000,000 ohms per inch resistance when tested with a 1,000 volt D.C. meggar.



#### RESISTANCE



#### BRANDING

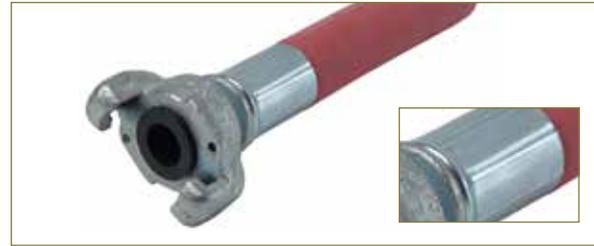
Thermoid Versicon/Goldenair  
Non-conductive Size PSI WP  
Made In USA (For Nitrogen Use)

Cover Color:	Yellow
Oil Resistance:	High
Construction:	Non-conductive
Tube:	NBR, RMA Class A
Cover:	NBR/PVC RMA Class A
Reinforcement:	Spiral polyester yarn
Temperature Range:	-20°F to +180°F -29°C to +82°C
Packaging:	Reels

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
00447312600	3/4	19.05	1.15	29.21	4	350	2.41	4.50	114.30	0.38	0.57
00447316400	1	25.40	1.43	36.20	4	300	2.07	7.00	177.80	0.61	0.91

## AIR POWER™ JACKHAMMER

This durable, rugged hose can tackle the job that only a jackhammer can dish out. It features a 4-spiral construction available in 200, 250 or 300 psi, and an EPDM tube and cover that handles heat, ozone and weather cracking better than other compounds. Domestic or foreign manufactured crimped steel fittings available.



**RESISTANCE**      
**BRANDING** Thermoid Air Power 3/4"  
 Made In USA

**Cover Color:** Red (also available in yellow)  
**Oil Resistance:** Limited  
**Construction:**  
     **Tube:** EPDM  
     **Cover:** EPDM  
     **Reinforcement:** Spiral polyester yarn  
**Temperature Range:** -40°F to +200°F  
                                   -40°C to +93°C  
**Packaging:** 3/4" Sold 28 lengths per carton/pallet  
                   1" Sold 20 lengths per carton/pallet

AIR/MULTIPURPOSE Coupled

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
00114562258	3/4	19.05	1.15	29.21	4	200	1.38	4.50	114.30	0.38	0.57
00114562558	3/4	19.05	1.15	29.21	4	250	1.38	4.50	114.30	0.38	0.57
00114562458	3/4	19.05	1.15	29.21	4	300	2.07	4.50	114.30	0.41	0.61
00114566358	1	25.40	1.37	34.80	4	200	1.38	7	177.80	0.51	0.76

## RED AIR TOOL COUPLED

This tough, versatile factory coupled air hose is specifically designed to stand up to the harsh working conditions found on most project construction sites and industrial environments. Available in either 200 or 300 psi working pressures, this air hose can be cut to lengths and is coupled with Male x Male fittings with 1/4" or 3/8" threads per customer requirements.



**RESISTANCE**      
**BRANDING** Thermoid Air Power Size WP 4 SP  
 Made In USA

**Cover Color:** Red  
**Oil Resistance:** Limited  
**Construction:**  
     **Tube:** EPDM  
     **Cover:** EPDM  
     **Reinforcement:** Spiral polyester yarn  
**Temperature Range:** -40°F to +200°F  
                                   -40°C to +93°C  
**Packaging:** Contact Customer Service

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Lengths	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(feet)	(meters)
00114586454▲	1/4	6.35	0.49	12.45	4	200	1.38	50	15.25
00114587454▲	1/4	6.35	0.62	15.75	4	300	2.07	50	15.25
00114586624▲	3/8	9.53	0.68	17.27	4	200	1.38	25	7.62
00114587624▲	3/8	9.53	0.71	18.03	4	300	2.07	25	7.62
00114587628▲	3/8	9.53	0.71	18.03	4	300	2.07	25	7.62
00114586654▲	3/8	9.53	0.68	17.27	4	200	1.38	50	15.25
00114586658▲	3/8	9.53	0.68	17.27	4	200	1.38	50	15.25
00114587654	3/8	9.53	0.71	18.03	4	300	2.07	50	15.25
00114587658▲	3/8	9.53	0.71	18.03	4	300	2.07	50	15.25

▲ = Make To Order (MTO)

## FLEX-LOC™ PUSH-ON

Flex-Loc™ is a highly oil-resistant push-on hose with a 250 psi working pressure, designed for safe and reliable performance in the most demanding and harsh working conditions. It allows push-on fittings to be inserted into place easily and quickly without the need for special crimping tools are required. Its tube and cover make it effective for industrial, warehouse and other applications where a convenient push-on hose fitting could be used.

**Not recommended for unleaded gasoline.**



### RESISTANCE

**BRANDING** Size WP – Flex-Loc – Made In USA

<b>Cover Color:</b>	Black, Blue, Gray, Red, Green or Yellow
<b>Oil Resistance:</b>	High
<b>Construction:</b>	
<b>Tube:</b>	Nitrile, RMA Class A
<b>Cover:</b>	Nitrile/PVC RMA Class A
<b>Reinforcement:</b>	Spiral polyester
<b>Temperature Range:</b>	-20°F to +180°F -29°C to +82°C
<b>Packaging:</b>	Reels 500 - 700 ft. or 250 ft.

Product Number (500 - 700 ft. reels)	Product Number (250 ft. reels)	Nominal I.D. (inches) (mm)		Nominal O.D. (inches) (mm)		Reinforcement Spirals	Working Pressure (psi) (Mpa)		Min. Bend Radius (inches) (mm)		Weight (lb/ft) (Kg/m)	
<b>Black</b>												
00338404300	00338404398	1/4	6.35	0.50	12.70	2	250	1.72	1.50	38.10	0.09	0.13
00338406300	00338406398	3/8	9.53	0.63	15.88	2	250	1.72	2.25	57.15	0.12	0.18
00338408300	00338408398	1/2	12.70	0.75	19.05	2	250	1.72	3.00	76.20	0.16	0.24
00338410300	00338410398	5/8	15.88	0.91	23.02	2	250	1.72	3.75	95.25	0.22	0.33
00338412300	00338412398	3/4	19.05	1.03	26.19	2	250	1.72	4.50	114.30	0.25	0.37
<b>Blue</b>												
00338504300	00338504398▲	1/4	6.35	0.50	12.70	2	250	1.72	1.50	38.10	0.09	0.13
00338506300	00338506398	3/8	9.53	0.63	15.88	2	250	1.72	2.25	57.15	0.12	0.18
00338508300	00338508398▲	1/2	12.70	0.75	19.05	2	250	1.72	3.00	76.20	0.16	0.24
<b>Gray</b>												
00338604300	00338604398▲	1/4	6.35	0.50	12.70	2	250	1.72	1.50	38.10	0.09	0.13
00338606300	00338606398▲	3/8	9.53	0.63	15.88	2	250	1.72	2.25	57.15	0.12	0.18
00338608300	00338608398▲	1/2	12.70	0.75	19.05	2	250	1.72	3.00	76.20	0.16	0.24
<b>Red</b>												
00338704300	00338704398▲	1/4	6.35	0.50	12.70	2	250	1.72	1.50	38.10	0.09	0.13
00338706300	00338706398▲	3/8	9.53	0.63	15.88	2	250	1.72	2.25	57.15	0.12	0.18
00338708300	00338708398▲	1/2	12.70	0.75	19.05	2	250	1.72	3.00	76.20	0.16	0.24
<b>Green</b>												
00338804300▲	00338804398▲	1/4	6.35	0.50	12.70	2	250	1.72	1.50	38.10	0.09	0.13
00338806300	00338806398▲	3/8	9.53	0.63	15.88	2	250	1.72	2.25	57.15	0.12	0.18
00338808300▲	00338808398▲	1/2	12.70	0.75	19.05	2	250	1.72	3.00	76.20	0.16	0.24
<b>Yellow</b>												
00338904300▲	00338904398▲	1/4	6.35	0.50	12.70	2	250	1.72	1.50	38.10	0.09	0.13
00338906300▲	00338906398▲	3/8	9.53	0.63	15.88	2	250	1.72	2.25	57.15	0.12	0.18
00338908300▲	00338908398▲	1/2	12.70	0.75	19.05	2	250	1.72	3.00	76.20	0.16	0.24

▲ = Make To Order (MTO)

## FLEX-LOC™ 300 PUSH-ON

Designed specifically for use with robotic welders and industrial applications requiring an MSHA approved flame-resistant cover, Flex-Loc™ 300 is a premium 300 psi oil-resistant, non-conductive push-on hose that provides safe and reliable performance in oily and harsh conditions. It features an excellent coupling retention and a superior hold created by a unique spiral angle design and polyester reinforcement that firmly grips the fitting and will not give under pressure.

**Not recommended for unleaded gasoline.**



### RESISTANCE

### BRANDING

Thermoid – Flex-Loc 300  
Non-conductive Size 300 PSI WP  
Made In USA MSHA 1C

<b>Cover Color:</b>	Black, Blue, Gray, Red, Green or Yellow
<b>Oil Resistance:</b>	High
<b>Construction:</b>	Non-conductive
<b>Tube:</b>	Nitrile, RMA Class A
<b>Cover:</b>	Nitrile/PVC RMA Class A
<b>Reinforcement:</b>	Spiral polyester
<b>Temperature Range:</b>	-30°F to +180°F -34°C to +82°C
<b>Packaging:</b>	Reels 500 - 700 ft.

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight		
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)	
<b>Black</b>												
00318404400	1/4	6.35	0.50	12.70	2	300	2.07	1.50	38.10	0.10	0.15	
00318406400	3/8	9.53	0.63	15.88	2	300	2.07	2.25	57.15	0.13	0.19	
00318408400	1/2	12.70	0.75	19.05	2	300	2.07	3.00	76.20	0.16	0.24	
00318410400	5/8	15.88	0.91	23.02	2	300	2.07	3.75	95.25	0.23	0.34	
00318412400	3/4	19.05	1.03	26.19	2	300	2.07	4.50	114.30	0.26	0.39	
<b>Blue</b>												
00318504400▲	1/4	6.35	0.50	12.70	2	300	2.07	1.50	38.10	0.10	0.15	
00318506400▲	3/8	9.53	0.63	15.88	2	300	2.07	2.25	57.15	0.13	0.19	
00318508400▲	1/2	12.70	0.75	19.05	2	300	2.07	3.00	76.20	0.16	0.24	
<b>Gray</b>												
00318604400▲	1/4	6.35	0.50	12.70	2	300	2.07	1.50	38.10	0.10	0.15	
00318606400▲	3/8	9.53	0.63	15.88	2	300	2.07	2.25	57.15	0.13	0.19	
00318608400▲	1/2	12.70	0.75	19.05	2	300	2.07	3.00	76.20	0.16	0.24	
<b>Red</b>												
00318704400▲	1/4	6.35	0.50	12.70	2	300	2.07	1.50	38.10	0.10	0.15	
00318706400▲	3/8	9.53	0.63	15.88	2	300	2.07	2.25	57.15	0.13	0.19	
00318708400▲	1/2	12.70	0.75	19.05	2	300	2.07	3.00	76.20	0.16	0.24	
<b>Green</b>												
00318804400▲	1/4	6.35	0.50	12.70	2	300	2.07	1.50	38.10	0.10	0.15	
00318806400▲	3/8	9.53	0.63	15.88	2	300	2.07	2.25	57.15	0.13	0.19	
00318808400▲	1/2	12.70	0.75	19.05	2	300	2.07	3.00	76.20	0.16	0.24	
<b>Yellow</b>												
00318906400▲	3/8	9.53	0.63	15.88	2	300	2.07	2.25	57.15	0.13	0.19	

▲ = Make To Order (MTO)

## EXCALIBUR™ MULTIPURPOSE

Excalibur™ is a highly versatile hose designed for environments prone to high pressure and extreme temperatures, particularly air, water and petroleum applications in heavy construction, mining or quarry operations, as well as washer operations in meat and poultry plants or agricultural sprays. It is non-conductive, flame resistant and MSHA approved with a Class A RMA rating, and provides a constant 500 psi working pressure in temperatures ranging from -40°F to +212°F. The Excalibur™ features highly visible yellow, NBR/PVC blend cover that provides excellent resistance to fats, oils, kerosene and gasoline.



**RESISTANCE**    

**BRANDING** Thermoid Excalibur Multipurpose  
Hose Size I.D. 500 PSI WP MSHA  
1C-114/1 Made In USA Electrically  
Non-conductive

**Cover Color:** Yellow  
**Oil Resistance:** High  
**Construction:**  
    **Tube:** NBR/PVC, RMA Class A  
    **Cover:** NBR/PVC, RMA Class A, MSHA Approved  
    **Reinforcement:** Spiral polyester yarn  
**Temperature Range:** -40°F to +212°F  
                                  -40°C to +100°C  
**Packaging:** Reels

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
22574168662▲	1/4	6.35	0.63	15.88	4	500	3.45	1.50	38.10	0.16	0.24
22574248662	3/8	9.53	0.75	19.05	4	500	3.45	2.25	57.15	0.22	0.33
22574328662	1/2	12.70	0.91	23.02	4	500	3.45	3.00	76.20	0.24	0.36
22574488662	3/4	19.05	1.19	30.16	4	500	3.45	4.50	114.30	0.37	0.55
22574648662	1	25.40	1.50	38.10	4	500	3.45	7.00	177.80	0.51	0.76

▲ = Make To Order (MTO)

## HERCULES® II

Hercules II... the latest addition to our high working pressure multipurpose hoses is a cost effective alternative to our very successful and popular Hercules® 500 Multipurpose Hose. Hercules II was value-engineered to offer customers superior performance in harsh work sites like factories, foundries, manufacturing plants, mines, quarries and numerous other industrial applications. Non-conductive and MSHA approved with a Class A RMA rating, Hercules II has a 4-spiral yarn reinforcement. This construction provides 500 psi working pressure in sizes 1/4" through 2", all with a 4:1 burst safety factor. Hercules II's yellow, XNBR cover provides exceptional resistance to abrasion, oils and other petroleum based products. Hercules II is the best value and a great selection for any OEM or MRO application requiring long life and exceptional performance in material transfer situations.



**RESISTANCE**   
**BRANDING** Thermoid Hercules II Multipurpose  
 Hose Size I.D. 500 PSI WP  
 MSHA 1C-209/7 Non-conductive  
 Made In USA

**Cover Color:** Yellow  
**Oil Resistance:** High  
**Construction:**  
**Tube:** NBR, RMA Class A  
**Cover:** XNBR, RMA Class A  
**Reinforcement:** 4-spiral yarn  
**Temperature Range:** -40°F to +212°F  
 -40°C to +100°C  
**Packaging:** Reels

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
45454168662	1/4	6.35	0.63	15.88	4	500	3.45	1.50	38.10	0.14	0.21
45454248662	3/8	9.53	0.75	19.05	4	500	3.45	2.25	57.15	0.21	0.31
45454328662	1/2	12.70	0.91	23.02	4	500	3.45	3.00	76.20	0.24	0.36
45454488662	3/4	19.05	1.19	30.16	4	500	3.45	4.50	114.30	0.36	0.54
45454648662	1	25.40	1.50	38.10	4	500	3.45	7.00	177.80	0.51	0.76
00454520500	1-1/4	31.75	1.75	44.45	4	500	3.45	8.75	222.25	0.71	1.04
00454524500	1-1/2	38.10	2.09	53.09	4	500	3.45	10.50	266.70	1.00	1.49
00454532400	2	50.80	2.64	67.06	4	500	3.45	16.00	406.40	1.41	2.08

## HERCULES® 500

Hercules® 500 is a durable, abrasion-resistant hose engineered to withstand harsh conditions and temperatures ranging from -40°F to +212°F, ideal for use in agriculture, factory, foundry, mining, quarry and even the toughest construction applications. It is nonconductive and MSHA approved with a Class A RMA rating, providing a constant 500 psi working pressure and a 4:1 burst safety factor. Its highly visible, fluorescent yellow, XNBR cover provides superior resistance to abrasion, oils and other petroleum based products.



**RESISTANCE**       
**BRANDING** Thermoid Hercules Multipurpose  
 Hose Size I.D. 500 PSI WP MSHA  
 1C-114/1 Made In USA  
 Non-conductive

**Cover Color:** Yellow  
**Oil Resistance:** High  
**Construction:**  
**Tube:** NBR, RMA Class A  
**Cover:** XNBR, RMA Class A  
**Reinforcement:** 4-spiral polyester yarn - 1/4", 3/8", 1/2" sizes  
**Temperature Range:** -40°F to +212°F  
 -40°C to +100°C  
**Packaging:** Reels

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
22454168662	1/4	6.35	0.63	15.88	4	500	3.45	1.50	38.10	0.14	0.21
22454248662	3/8	9.53	0.75	19.05	4	500	3.45	2.25	57.15	0.21	0.31
22454328662	1/2	12.70	0.91	23.02	4	500	3.45	3.00	76.20	0.24	0.36
22454488662	3/4	19.05	1.19	30.16	4	500	3.45	4.50	114.30	0.36	0.54
22454648662	1	25.40	1.50	38.10	4	500	3.45	7.00	177.80	0.51	0.76
22454808662	1-1/4	31.75	1.75	44.45	4	500	3.45	8.75	222.25	0.66	0.98
22454968662	1-1/2	38.10	2.09	53.18	4	500	3.45	10.50	266.70	0.70	1.04

## HERCULES® 1000

Hercules® 1000 is a highly versatile, multipurpose hose designed for high pressure applications and extreme temperature environments ranging from -40°F to +212°F. It is ideal for use in rock drilling, air hammer and water jetting applications in heavy construction, mining or quarry operations, as well as the transfer of petroleum or other solvent solutions, and washer operations. The Hercules® 1000 is non-conductive and MSHA approved with a Class A RMA rating, providing a constant 1000 psi working pressure, with a minimum 4:1 burst safety factor.



**RESISTANCE**     

**BRANDING** Thermoid Hercules 1000  
Multipurpose Hose Size I.D.  
1000 PSI WP MSHA 1C-114/1  
Made In USA Non-conductive

**Cover Color:** Yellow  
**Oil Resistance:** High  
**Construction:**  
**Tube:** NBR, RMA Class A  
**Cover:** XNBR, RMA Class A (Pin Pricked)  
**Reinforcement:** 4-spiral polyester yarn - 1/4", 3/8", 1/2" sizes  
 4-spiral aramid fiber - 3/4" and 1" sizes  
**Temperature Range:** -40°F to +212°F  
 -40°C to +100°C  
**Packaging:** Reels

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
22544168662▲	1/4	6.35	0.63	15.88	4	1000	6.89	1.50	38.10	0.16	0.24
22544248662	3/8	9.53	0.75	19.05	4	1000	6.89	2.25	57.15	0.22	0.33
22544328662	1/2	12.70	0.94	23.81	4	1000	6.89	3.00	76.20	0.24	0.36
22544488662	3/4	19.05	1.13	28.58	4	1000	6.89	4.50	114.30	0.35	0.52
22544648662	1	25.40	1.50	38.10	4	1000	6.89	7.00	177.80	0.47	0.70

▲ = Make To Order (MTO)

The Green GP/Oxygen hose is designed to handle the harsh, abusive conditions found in steel producing and oil refinery environments. The highly oil-resistant green cover follows the color coding for oxygen in mills. It features a medium-high oil resistant NBR blend tube with a 4-spiral polyester yarn reinforcement, and it provides a working pressure of 300 psi.



Cover Color: Green

Oil Resistance: Medium-High

Construction:

Tube: NBR blend, RMA Class B

Cover: NBR/PVC, RMA Class B

Reinforcement: Sprial polyester yarn

Temperature Range: -20°F to 180°F (-29°C to 82°C)

Pakaging: Reels

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius	
	inches	mm	inches	mm		psi	Mpa	inches	mm
00336606400	3/8	9.53	0.710	22.23	4	300	2.07	2.25	57.15
00336608400	1/2	12.70	0.940	23.81	4	300	2.07	3.00	76.20
00336612400	3/4	19.05	1.160	29.37	4	300	2.07	4.50	114.30



Made in U.S.A.

Automotive

## BLACK STANDARD HEATER & OEM HEATER SAE 20R3, CLASS D2 TYPE

The Black Standard Heater & OEM Heater feature kink-resistant EPDM tube and covers that resist cracking and weather checking and can withstand the abuse of corrosive additives, ozone and abrasion. Their multi-spiral polyester is reinforced to maintain flexibility even in extreme temperatures.



**RESISTANCE**     
**BRANDING** 4703 Thermoid (Size) OEM Heater Hose Made In USA  
 4709 Thermoid (Size) Heater Hose Made In USA

**Cover Color:** Black  
**Oil Resistance:** Limited  
**Construction:**  
   **Tube:** EPDM  
   **Cover:** EPDM  
   **Reinforcement:** Spiral polyester yarn  
**Temperature range:** -40°F to +212°F (+257°F intermittent)  
**Packaging:** Reels, †50 ft. length – 1 per carton

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
00470308151†▲	1/2	12.70	0.80	20.24	2	62	0.43	3.00	76.20	0.18	0.27
00470310199	5/8	15.88	0.94	23.81	2	62	0.43	3.75	95.25	0.22	0.33
00470310151†▲	5/8	15.88	0.94	23.81	2	62	0.43	3.75	95.25	0.22	0.33
00470312199	3/4	19.05	1.06	26.99	2	50	0.34	4.50	114.30	0.25	0.37
00470312151†▲	3/4	19.05	1.06	26.99	2	50	0.34	4.50	114.30	0.25	0.37
00470316199▲	1	25.40	1.34	34.13	2	44	0.30	7.00	177.80	0.38	0.57
00470316151†▲	1	25.40	1.34	34.13	2	44	0.30	7.00	177.80	0.38	0.57
00470908199	1/2	12.70	0.81	20.64	2	35	0.24	3.00	76.20	0.16	0.24
00470908151†▲	1/2	12.70	0.81	20.64	2	35	0.24	3.00	76.20	0.16	0.24
00470910199	5/8	15.88	0.88	22.23	2	35	0.24	3.75	95.25	0.20	0.30
00470910151†▲	5/8	15.88	0.88	22.23	2	35	0.24	3.75	95.25	0.20	0.30
00470912199	3/4	19.05	1.03	26.19	2	35	0.24	4.50	114.30	0.23	0.34
00470912151†	3/4	19.05	1.03	26.19	2	35	0.24	4.50	114.30	0.23	0.34
00470916199	1	25.40	1.34	34.13	2	25	0.17	7.00	177.80	0.39	0.58
00470916151†	1	25.40	1.34	34.13	2	25	0.17	7.00	177.80	0.39	0.58

▲ = Make To Order (MTO)  
 † = 50 ft. length – 1 per carton

## AIR BRAKE, TYPE A- SAE J1402 & D.O.T. FMVSS 106

Designed for truck and trailer manufacturers, aftermarket packagers and wholesalers, this Air Brake hose conveys air in truck and trailer brake systems. It is certified to meet D.O.T. FMVSS 106 and SAE J1402A requirements and features an EPDM tube and cover with 4-spiral reinforcement making this hose virtually kink proof.



### RESISTANCE

### BRANDING

Air Brake 3/8" A SAE J1402 Made In USA D.O.T. KX 3/8 (9.5mm) A  
 Air Brake 1/2" SP A SAE J1402 Made In USA D.O.T. KX 1/2" SP (12.7mm) A

<b>Cover Color:</b>	Black
<b>Oil Resistance:</b>	Medium
<b>Construction:</b>	
<b>Tube:</b>	EPDM, RMA Class C
<b>Cover:</b>	EPDM, RMA Class C
<b>Reinforcement:</b>	Spiral polyester yarn
<b>Temperature Range:</b>	-40°F to +200°F -40°C to +93°C
<b>Packaging:</b>	Reels, 500 ft. length

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
00482106499	3/8	9.53	0.75	19.05	4	Min. Burst 900	6.20	2.25	57.15	0.17	0.25
00482106498†	3/8	9.53	0.75	19.05	4	Min. Burst 900	6.20	2.25	57.15	0.17	0.25
00482106451**	3/8	9.53	0.75	19.05	4	Min. Burst 900	6.20	2.25	57.15	0.17	0.25
00482108500	1/2	12.70	0.88	22.23	4	Min. Burst 900	6.20	3.00	76.20	0.20	0.30
00482108498†	1/2	12.70	0.88	22.23	4	Min. Burst 900	6.20	3.00	76.20	0.20	0.30
00482108451**	1/2	12.70	0.88	22.23	4	Min. Burst 900	6.20	3.00	76.20	0.20	0.30

† = Maximum 2 pc. 250 ft. reel  
 \*\* = 50 ft. length – 1 per carton

## FUEL LINE, VAPOR EMISSION & CRANKCASE VENTILATION (30R7)

This durable, aftermarket standard hose is used for conveying most automobile, truck and bus fuel and is ideal for equipment, wholesalers, aftermarket packagers and auxiliary tank manufacturers. It provides superior service in temperatures ranging from -29°F to +257°F. Featuring an NBR tube and an NBR/PVC cover reinforced with multiple spiral polyester, the hose remains flexible and resistant to oil, grease, ozone and under-hood temperatures generated by today's automotive engines.



**RESISTANCE**     
**BRANDING** Size SAE 30R7-KX Date  
 Made In USA

**Cover Color:** Black  
**Oil Resistance:** Medium-High  
**Construction:**  
**Tube:** NBR, RMA Class A  
**Cover:** NBR/PVC, RMA Class B  
**Reinforcement:** Spiral polyester yarn  
**Temperature Range:** -40°F to +257°F  
 -40°C to +125°C  
**Packaging:** See below chart

**SAE 30R7: Not recommended for recirculating fuel systems. Product conforms to all SAE 30R7 requirements for non-recirculating systems. SAE 30R9 recommended for recirculating systems.**

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
<b>25 ft. Coil</b>											
00667503225	3/16	4.76	0.41	10.32	2	50	0.34	1.25	31.75	0.07	0.10
00667504225	1/4	6.35	0.50	12.70	2	50	0.34	1.50	38.10	0.09	0.13
00667505225▲	5/16	7.94	0.56	14.29	2	50	0.34	2.00	50.80	0.11	0.16
00667506225▲	3/8	9.53	0.63	15.88	2	50	0.34	2.25	57.15	0.12	0.18
<b>50 ft. Coil</b>											
00667503252▲	3/16	4.76	0.41	10.32	2	50	0.34	1.25	31.75	0.07	0.10
00667504252▲	1/4	6.35	0.50	12.70	2	50	0.34	1.50	38.10	0.09	0.13
00667505252▲	5/16	7.94	0.56	14.29	2	50	0.34	2.00	50.80	0.11	0.16
00667506252▲	3/8	9.53	0.63	15.88	2	50	0.34	2.25	57.15	0.12	0.18
<b>250 ft. Reel</b>											
00667503298▲	3/16	4.76	0.41	10.32	2	50	0.34	1.25	31.75	0.07	0.10
00667504298	1/4	6.35	0.50	12.70	2	50	0.34	1.50	38.10	0.09	0.13
00667505298	5/16	7.94	0.56	14.29	2	50	0.34	2.00	50.80	0.11	0.16
00667506298	3/8	9.53	0.63	15.88	2	50	0.34	2.25	57.15	0.12	0.18
<b>500 - 700 ft. Reel</b>											
00667503299	3/16	4.76	0.41	10.32	2	50	0.34	1.25	31.75	0.07	0.10
00667504299	1/4	6.35	0.50	12.70	2	50	0.34	1.50	38.10	0.09	0.13
00667505299	5/16	7.94	0.56	14.29	2	50	0.34	2.00	50.80	0.11	0.16
00667506299	3/8	9.53	0.63	15.88	2	50	0.34	2.25	57.15	0.12	0.18
00667508299	1/2	12.70	0.781	19.83	2	35	0.24	3.00	76.20	0.16	0.24

▲ = Make To Order (MTO)

## VAPOR-LOC™ FUEL LINE (30R7)

Thermoid Vapor-Loc Fuel Line Hose is approved by CARB (California Air Resources Board). This hose is similar to SAE J30R7 Fuel Line Hose Types. It traps/prevents up to 99% of all fuel vapors from permeating through the hose walls (see Vapor-Loc Fuel Line versus Standard fuel Line hose comparison illustration on page 50). These hoses are designed to carry fuel in cars, trucks, motorcycles, lawn and garden equipment and all gasoline and/or gasoline/bio-fuel engines. This hose is designed to resist gasoline/ethanol blends, oils and the caustic effects of bio-fuels, cover abrasion and ozone.



**RESISTANCE**     
**BRANDING** Thermoid VAPOR-LOC Fuel Line  
 Size I.D. Date Made In USA

**Cover Color:** Black with White Branding  
**Oil Resistance:** Medium – High  
**Construction:**  
     **Tube:** NBR  
     **Cover:** Chlorinated Polymer  
     **Reinforcement:** Two Spiral Polyester  
     **Barrier:** VAPOR-LOC System  
**Temperature Range:** -40°F to +257°F  
                                   -40°C to +125°C  
**Packaging:** Cartons and Reels. Made to Order all sizes

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
22612161662	1/4	6.30	0.50	12.70	2 spiral	50	0.69	1.50	38.90	0.09	0.13
22612201662	5/16	7.94	0.56	14.29	2 spiral	50	0.34	2.00	50.80	0.11	0.16
22612241662	3/8	9.53	0.56	14.29	2 spiral	50	0.34	2.25	57.15	0.12	0.18

AUTOMOTIVE

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## VAPOR-LOC™ FUEL INJECTION

Thermoid Vapor-Loc Fuel Injection Hose is approved by CARB (California Air Resources Board). This hose meets and exceeds all SAE J30R9 Fuel Injection Hose Specifications. It traps/prevents up to 99% of all fuel vapors from permeating through the hose walls (see Vapor-Loc Fuel Line versus Standard fuel Line hose comparison illustration shown below). These hoses are designed to carry fuel in cars, trucks, motorcycles, lawn and garden equipment and all gasoline and/or gasoline/bio-fuel engines. This hose is designed to resist gasoline/ethanol blends, oils and the caustic effects of bio-fuels, cover abrasion and ozone.

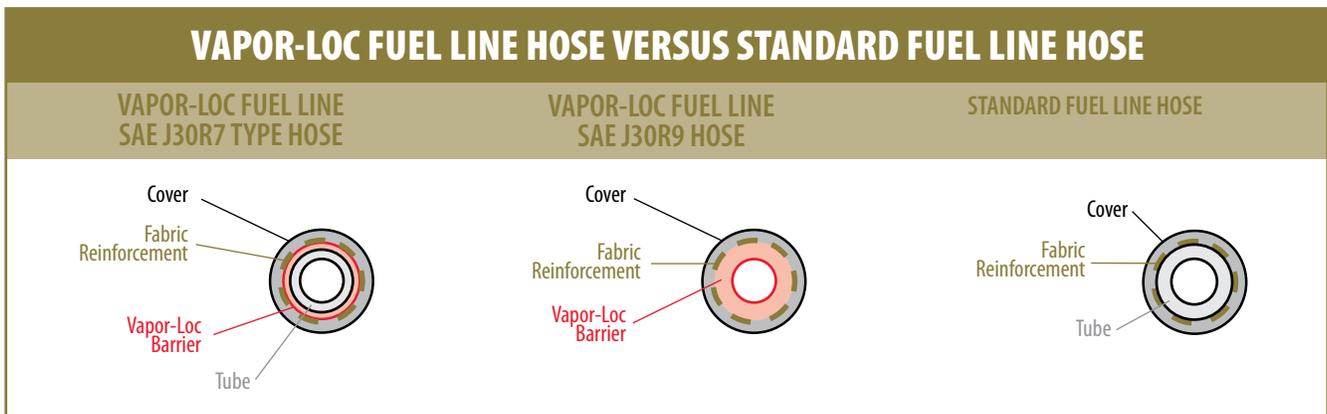


**RESISTANCE**     
**BRANDING** Thermoid VAPOR-LOC Fuel Injection  
 Size I.D. Date Made In USA

**Cover Color:** Black with White Branding  
**Oil Resistance:** Medium – High  
**Construction:**  
     **Tube:** FKM  
     **Cover:** Chlorinated Polymer  
     **Reinforcement:** Two Spiral Polyester  
     **Barrier:** VAPOR-LOC System  
**Temperature Range:** -40°F to +257°F  
                                   -40°C to +125°C  
**Packaging:** Cartons and Reels

Product Number	Nominal I.D.		Nominal O.D.		Plies	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
22602161662	1/4	6.30	0.50	12.70	2 spiral	100	0.69	1.50	38.90	0.09	0.13
22612201662	5/16	7.94	0.56	14.29	2 spiral	100	0.69	2.00	50.80	0.11	0.16
22612241662	3/8	9.53	0.56	14.29	2 spiral	100	0.69	2.25	57.15	0.12	0.18

As shown in the fuel line hose comparison illustration below, Thermoid’s Vapor-Loc System integrates a multi-layer vapor barrier between the hose components that locks in virtually all the fuel vapors that would normally permeate through the hose.



## SILICONE HEATER SAE 20R3 CLASS A

Recommended for applications in the heavy-duty market, this hose features a special silicone compound that meets the SAE 20R3, Class A specifications. It is highly resistant to the deteriorating effects of oil, ozone, coolants and coolant additives. The nylon reinforcement enables this hose to be extremely flexible while resisting temperatures up to +347° (+175°C).



**RESISTANCE**      
**BRANDING** Silicone Heater Hose  
 Made In USA

**Cover Color:** Blue  
**Oil Resistance:** High  
**Construction:**  
     **Tube:** Silicone  
     **Cover:** Silicone  
     **Reinforcement:** Textile  
**Temperature Range:** -67°F to +347°F  
                                   -55°C to +175°C  
**Packaging:** Contact Customer Service

Product Number	Nominal I.D.		Nominal O.D.		Plies	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
16300502550▲	1/4	6.35	0.56	14.29	2	63	0.43	n/a	n/a	0.19	0.28
16300503750▲	3/8	9.53	0.69	17.46	2	63	0.43	n/a	n/a	0.25	0.37
	1/2	12.70	0.81	20.64	2	63	0.43	n/a	n/a	0.29	0.43
16300506250▲	5/8	15.88	0.94	23.81	2	63	0.43	n/a	n/a	0.35	0.52
16300507550▲	3/4	19.05	1.06	26.99	2	50	0.34	n/a	n/a	0.39	0.58
16300508750▲	7/8	22.23	1.19	30.16	2	50	0.34	n/a	n/a	0.44	0.65
16300510050▲	1	25.40	1.34	34.13	2	44	0.30	n/a	n/a	0.49	0.73

▲ = Make To Order (MTO)  
 n/a = Not Applicable

# Petroleum Dispensing

## Fuel Compatibility Chart

Fuel Types	Fuel Oil Delivery - Red	Transporter® Fuel Delivery - Black	Glacier - Blue
Unleaded Gasoline up to 93 Octane	X	E	E
Leaded Gasoline	X	E	E
Home Fuel Oils	E	E	E
Diesel	E	E	E
B-100*	G	E	E
B-20*	G	E	E
Gasoline/Ethanol Blend*	X	G	E
E-15*	X	G	E
E-20*	X	G	E
E-85*	X	G	E
Kerosene	E	E	E
Tractor Fuels	E	E	E
Mixed Fuel Use	X	F	G

**Rating Code:**

E - Excellent. Suitable for continuous service at ambient temperature.

G - Good. Generally suitable for continuous service and for intermittent service.

F - Fair or Conditional. NOT recommended for continuous service but generally suitable for intermittent service.

X - Unsatisfactory. Not recommended.

(Fuel Types not Listed) - Uncertain, Contact [Thermoid Engineering](#) With Application Specific Data

\* Dedicated service only

## THERMOID® FUEL OIL DELIVERY

Thermoid Fuel Oil Delivery hose is designed for the delivery and transfer of a wide variety of fuels, oils, and other petroleum-based products for home delivery, marine, commercial and industrial service\*. This hose's unique spiral construction adds strength and flexibility to the hose while making it easy to handle, kink resistant and its smooth, durable cover resists oil and abrasion plus is less resistant to dragging. These tough features help make Thermoid, the driver's choice for fuel oil delivery hose.

**Note: A static wire is included on all sizes as a safety precaution**

\* Compatible fuels are kerosene, diesel, Bio-diesel and Bio-diesel blends (based on bio-diesel fuel equivalent to ASTM D 6751.

\* For use in dedicated service only with compatible fuels. No alternating fuel types



**RESISTANCE**     
**BRANDING** Thermoid Fuel Oil Hose WP 250  
 PSI Made In USA Month/Year

**Cover Color:** Red  
**Oil Resistance:** High  
**Construction:**  
**Tube:** NBR, RMA Class A  
**Cover:** NBR/PVC, RMA Class A  
**Reinforcement:** High tensile spiral polyester cord  
**Temperature Range:** Fuel Oils -40°F (-40°C) to +150°F (+70°C)  
 Gasoline/Gasoline Blends -40°F (-40°C) to +104°F (40°C)  
**Packaging:** Reels  
 • Use in Gasoline or Ethanol Blend Applications above +104°F (40°C) is not recommended

### Reels (Thermocure)

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
22564642662	1	25.40	1.50	38.10	4	250	1.72	7.00	177.80	0.47	0.70
22564802662	1-1/4	31.75	1.78	45.24	4	250	1.72	8.75	222.25	0.59	0.88
22564882662	1-3/8	34.93	1.88	47.63	4	250	1.72	9.25	234.95	0.65	0.97
22564962662	1-1/2	38.10	2.09	53.18	4	250	1.72	10.50	266.70	0.80	1.19

### Cut and Coupled Lengths

Product Number Uncoupled	Product Number Coupled	Nominal I.D.		Lengths	
		(inches)	(mm)	(feet)	(meters)
22564642102	22564642111	1	25.40	100.00	30.48
22564642122	22564642131	1	25.40	125.00	38.10
22564642152	22564642141	1	25.40	150.00	45.72
22564642172	22564642171	1	25.40	175.00	53.34
22564802102	22564802111	1-1/4	31.75	100.00	30.48
22564802122	22564802131	1-1/4	31.75	125.00	38.10
22564802152	22564802141	1-1/4	31.75	150.00	45.72
22564802162	22564802171	1-1/4	31.75	175.00	53.34
22564882102	22564882111	1-3/8	34.93	100.00	30.48
22564882122	22564882131	1-3/8	34.93	125.00	38.10
22564882152	22564882141	1-3/8	34.93	150.00	45.72
22564882162	22564882201	1-3/8	34.93	175.00	53.34
22564962102	22564962111	1-1/2	38.10	100.00	30.48
22564962122	22564962131	1-1/2	38.10	125.00	38.10
22564962152	22564962141	1-1/2	38.10	150.00	45.72
22564962162	22564962171	1-1/2	38.10	175.00	53.34

## THERMOID® TRANSPORTER FUEL DELIVERY HOSE - BLACK

Thermoid's Transporter Fuel Delivery hose is designed to deliver versatility and durability. Thermoid's Thermocure manufacturing process provides consistent I.D. and O.D., making the hose easier to couple, and its smooth cover provides added durability when dragging over rough surfaces.



### RESISTANCE

### BRANDING

Thermoid Fuel Delivery - Black  
1/4" WP 150 PSI USA

### Cover Color:

Black

### Oil Resistance:

High

### Construction:

**Tube:** NBR/PVC, RMA Class A

**Cover:** Thermalon™, Class B

**Reinforcement:** 2 spirals polyester cord w/ static wire (Softwall)

### Temperature Range:

-40°F to 180°F (-40°C to 82°C)

### Packaging:

Reels

Nominal I.D.		Nominal O.D.		Working Pressure		Min. Bend Radius		Weight
(in)	(mm)	(in)	(mm)	(psi)	(Mpa)	(in)	(mm)	(lb/ft)
1.250	31.750	1.780	45.212	150	1.034	8.750	222.250	0.801
1.375	34.925	1.870	47.498	150	1.034	9.250	34.950	0.801
1.500	127	2.050	52.070	150	1.034	10.50	266.700	0.979

## GLACIER™ FUEL OIL DELIVERY

Glacier™ is a cold weather hose specifically engineered for use in sub-zero applications ranging from -65°F to +180°F while maintaining its kink-resistant flexibility and easy-reeling characteristics. Featuring an oil-resistant, synthetic rubber tube that is reinforced with a spiraled high tensile polyester cord, Glacier™ provides a constant working pressure of 300 psi and a 4:1 burst safety factor, capable of handling air, oil, gasoline, diesel, **green fuels (biodiesel, biodiesel blends, ethanol, ethanol blends)**, kerosene, fuel oil and some chemicals.



### RESISTANCE



### BRANDING

Thermoid Glacier MP Hose Size  
I.D. WP Made In USA

<b>Cover Color:</b>	Blue - <b>ALSO AVAILABLE IN BLACK COVER</b>
<b>Oil Resistance:</b>	High
<b>Construction:</b>	
<b>Tube:</b>	ECO low temperature oil resistant synthetic rubber
<b>Cover:</b>	RMA Class A
<b>Reinforcement:</b>	ECO low temperature oil resistant synthetic rubber RMA Class A
<b>Temperature Range:</b>	Spiral polyester yarn -65°F to +180°F -54°C to +82°C
<b>Packaging:</b>	Reels

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
22554166662▲	1/4	6.35	0.63	15.88	4	300	2.07	1.50		0.15	0.22
22554246662	3/8	9.53	0.75	19.05	4	300	2.07	2.25		0.21	0.31
22554326662	1/2	12.70	0.94	23.81	4	300	2.07	3.00		0.30	0.45
22554486662	3/4	19.05	1.25	31.75	4	300	2.07	4.50		0.39	0.58
22554646662	1	25.40	1.50	38.10	4	300	2.07	7.00		0.49	0.73
22554806662	1-1/4	31.75	1.78	45.24	4	300	2.07	8.75		0.61	0.91
22554886662▲	1-3/8	34.93	1.88	47.63	4	300	2.07	9.25		0.68	1.01
22554966662▲	1-1/2	38.10	2.09	53.18	4	300	2.07	10.50		0.83	1.23

▲ = Make To Order (MTO)

## PREMIER FARM TANK

This economical hose was engineered for use in agricultural, industrial and construction maintenance applications for dispensing gasoline, kerosene and oil from farm or barrel-type pumps where UL approval is not required. It features 2-spiral, high-tensile, polyester cord reinforcement with an NBR tube and a NBR/PVC cover that is oil and abrasion resistant.



**RESISTANCE**    
**BRANDING** Thermoid Premier Farm Tank, Size, Made in USA with static wire

**Cover Color:** Black  
**Oil Resistance:** High  
**Construction:**  
**Tube:** NBR, RMA Class A  
**Cover:** NBR/PVC RMA Class A  
**Reinforcement:** Spiral high tensile polyester cord  
**Temperature Range:** -20°F to +160°F  
 -29°C to +71°C  
**Packaging:** 3/4" coupled - 10 per carton  
 1" coupled - 5 per carton

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
00667212200	3/4	19.05	1.13	28.58	2	60	0.41	4.50	114.30	0.29	0.43
00667216200	1	25.40	1.38	34.93	2	60	0.41	7.00	177.80	0.45	0.67

### Coupled Lengths – Male x Male Coupling – With Static Wire

Product Number	Nominal I.D.		Lengths	
	(inches)	(mm)	(feet)	(meters)
00667212208	3/4	19.05	8.00	2.44
00667212210	3/4	19.05	10.00	3.05
00667212212	3/4	19.05	12.00	3.66
00667212214	3/4	19.05	14.00	4.27
00667216208	1	25.40	8.00	2.44
00667216210	1	25.40	10.00	3.05
00667216212	1	25.40	12.00	3.66
00667216214	1	25.40	14.00	4.27



## PUMPFLEX® I-SOFTWALL

The Pumpflex® I was designed for curb pump self-service stations and highly sensitive electronic fuel pumps and is the longest lasting automotive refueling hose in use at service stations today.

The durable construction of this hose resists deterioration from fuel, ozone, sunlight and cracking around/behind the nozzle end coupling. Its 2-spiral polyester cord with static wire provides a working pressure of 150 to 200 psi. Now available with new, crimped aluminum fittings that are built to withstand the rough treatment received at curb pump self-service stations.

**Note: Do not use reusable couplings with this product.**



**RESISTANCE**   
**BRANDING** Thermoid Size Pumpflex I  
 Gasoline Hose UL Listed 97M0  
 Made In USA Month/Year

**Cover Color:** Black  
**Oil Resistance:** High, Medium-High  
**Construction:**  
**Tube:** NBR/PVC, RMA Class A  
**Cover:** Thermalon™, U/L approved, Class B  
**Reinforcement:** Spiral polyester cord with static wire (Softwall)  
**Temperature Range:** -40°F to +180°F  
 -40°C to +82°C  
**Packaging:** Reels, coupled lengths

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
22462401662	5/8	15.88	1.03	26.19	2	200	1.38	3.75	95.25	0.27	0.40
22462481662	3/4	19.05	1.13	28.58	2	200	1.38	4.50	114.30	0.32	0.48
22464641662	1	25.40	1.50	38.10	4	150	1.03	7.00	177.80	0.62	0.92

### Coupled Lengths, Male x Male Permanent Fittings\*

Aluminum		Chrome-Plated		Nominal I.D.		Lengths	
Crimped Coupling Product Number	Brass Coupling Product Number	(inches)	(mm)	(feet)	(meters)		
22762401111	22462401111	5/8	15.88	11.00	3.35		
22762401121	22462401121	5/8	15.88	12.00	3.66		
22762401131	22462401131	5/8	15.88	13.00	3.96		
22762401141	22462401141	5/8	15.88	14.00	4.27		
22762401151	22462401151	5/8	15.88	15.00	4.57		
22762401161	22462401161	5/8	15.88	16.00	4.88		
22762401171	22462401171	5/8	15.88	17.00	5.18		
22762401181	22462401181	5/8	15.88	18.00	5.49		
22762401201	22462401201	5/8	15.88	20.00	6.10		
22762481301	22462481301	3/4	19.05	10.50	3.20		
22762481111	22462481111	3/4	19.05	11.00	3.35		
22762481121	22462481121	3/4	19.05	12.00	3.66		
22762481131	22462481131	3/4	19.05	13.00	3.96		
22762481141	22462481141	3/4	19.05	14.00	4.27		
22762481151	22462481151	3/4	19.05	15.00	4.57		
22762481161	22462481161	3/4	19.05	16.00	4.88		
22762481171	22462481171	3/4	19.05	17.00	5.18		
22762481181	22462481181	3/4	19.05	18.00	5.49		
22762481191	22462481191	3/4	19.05	19.00	5.79		
22762481201	22462481201	3/4	19.05	20.00	6.10		
22764641111	22464641111	1	25.40	11.00	3.35		
22764641131	22464641131	1	25.40	13.00	3.96		
22764641161	22464641161	1	25.40	16.00	4.88		
22764641171	22464641171	1	25.40	17.00	5.18		
22764641181	22464641181	1	25.40	18.00	5.49		
22764641191	22464641191	1	25.40	19.00	5.79		
22764641201	22464641201	1	25.40	20.00	6.10		



## PUMPFLEX® II-HARDWALL

The Pumpflex® I was designed for curb pump self-service stations and highly sensitive electronic fuel pumps and is the longest lasting automotive refueling hose in use at service stations today.

The durable construction of this hose resists deterioration from fuel, ozone, sunlight and cracking around/behind the nozzle end coupling. Its one wire braid steel reinforcement provides a working pressure of 150 to 200 psi. Now available with new, crimped aluminum fittings that are built to withstand the rough treatment received at curb pump self-service stations.

**Note: Do not use reusable couplings with this product.**



**RESISTANCE**       

**BRANDING** Thermoid Size Pumpflex II  
Gasoline Hose UL Listed 97MO  
Made In USA Month/Year

**Cover Color:** Black  
**Oil Resistance:** High, Medium-High  
**Construction:**  
    **Tube:** NBR/PVC, RMA Class A  
    **Cover:** Thermalon™, U/L approved, Class B  
    **Reinforcement:** 1 wire braid (Hardwall)  
**Temperature Range:** -40°F to +180°F  
                                  -40°C to +82°C  
**Packaging:** Reels, Coupled Lengths

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
22341401662	5/8	15.88	1.03	26.19	1	200	1.38	3.75	95.25	0.40	0.60
22341481662	3/4	19.05	1.13	28.58	1	200	1.38	4.50	114.30	0.44	0.65
22341641662	1	25.40	1.50	38.10	1	150	1.03	7.00	177.80	0.69	1.03

### Coupled Lengths, Male x Male Permanent Fittings\*

Aluminum Crimped Coupling Product Number	Chrome-Plated Brass Coupling Product Number	Nominal I.D.		Lengths	
		(inches)	(mm)	(feet)	(meters)
22361401591	22341401591●	5/8	15.88	9.00	2.74
22361401231	22341401231	5/8	15.88	9.50	2.90
22361401071	22341401071●	5/8	15.88	9.50	2.90
22361401351	22341401351●	5/8	15.88	10.00	3.05
22361401211	22341401211	5/8	15.88	10.50	3.20
22361401111	22341401111	5/8	15.88	11.00	3.35
22361401121	22341401121	5/8	15.88	12.00	3.66
22361401391	22341401391●	5/8	15.88	12.00	3.66
22361401131	22341401131	5/8	15.88	13.00	3.96
22361401141	22341401141	5/8	15.88	14.00	4.27
22361401151	22341401151	5/8	15.88	15.00	4.57
22361401161	22341401161	5/8	15.88	16.00	4.88
22361401171	22341401171	5/8	15.88	17.00	5.18
22361401181	22341401181	5/8	15.88	18.00	5.49
22361401191	22341401191	5/8	15.88	19.00	5.79
22361401201	22341401201	5/8	15.88	20.00	6.10
22361481651	22341481651	3/4	19.05	8.50	2.59
22361481581	22341481581●	3/4	19.05	9.00	2.74
22361481221	22341481221	3/4	19.05	9.50	2.90
22361481301	22341481301	3/4	19.05	10.50	3.20
22361481111	22341481111	3/4	19.05	11.00	3.35
22361481131	22341481131	3/4	19.05	13.00	3.96
22361481141	22341481141	3/4	19.05	14.00	4.27
22361481241	22341481141●	3/4	19.05	14.00	4.27
22361481151	22341481151	3/4	19.05	15.00	4.57
22361481161	22341481161	3/4	19.05	16.00	4.88
22361481171	22341481171	3/4	19.05	17.00	5.18
22361481181	22341481181	3/4	19.05	18.00	5.49
22361481201	22341481201	3/4	19.05	20.00	6.10
22361641011	22341641091	1	25.40	1.00	0.30
22361641301	22341641301	1	25.40	10.50	3.20
22361641111	22341641111	1	25.40	11.00	3.35
22361641131	22341641131	1	25.40	13.00	3.96
22361641161	22341641161	1	25.40	16.00	4.88
22361641171	22341641171	1	25.40	17.00	5.18
22361641181	22341641181	1	25.40	18.00	5.49
22361641191	22341641191	1	25.40	19.00	5.79
22361641201	22341641201	1	25.40	20.00	6.10

● = M x S (Swivel M) – Chrome-plated Brass Finish

\* = Other lengths are available upon request.



## PUMPFLEX® II – JUMPER

Primarily designed for the dual low hose dispenser converted to Stage II vapor recovery external liquid line connection, this hose is used in conjunction with the Pumpflex II hose. It features a Thermalon, Class B cover offering medium-high oil, ozone and sunlight resistance, as well as a one wire braid steel reinforcement that provides a working pressure of 150 to 250 psi.

**Note: Do not use reusable couplings with this product.**



**RESISTANCE**

**BRANDING** Thermoid Size Pumpflex II  
Gasoline Hose UL Listed 97MO  
Made In USA Month/Year

**Cover Color:** Black  
**Oil Resistance:** High, Medium-High  
**Construction:**  
**Tube:** NBR/PVC, RMA Class A  
**Cover:** Thermalon™, U/L approved, RMA Class B  
**Reinforcement:** 1 wire braid (Hardwall)  
**Temperature Range:** -40°F to +180°F  
 -40°C to +82°C  
**Packaging:** Coupled lengths

Coupled Lengths – Male x Swivel Coupling – With Static Wire

Product Number	Nominal I.D.		Lengths		Weight per Length	
	(inches)	(mm)	(feet)	(meters)	(lbs)	(Kgs)
22341481271▲	3/4	19.05	14.00	355.60	1.42	0.64
22341481051▲	3/4	19.05	16.00	406.40	1.47	0.67
22341481561▲	3/4	19.05	18.00	457.20	1.56	0.71
22341481061▲	3/4	19.05	21.00	533.40	1.63	0.74
22341481261▲	3/4	19.05	24.00	609.60	1.72	0.78

▲ = Make To Order (MTO)

## PUMPFLEX® MARINA – SOFTWALL

Color coded green primarily for marina use, this durable hose is designed to handle severe weather conditions, rough deck or dock use. It has a durable four spiral construction and static wire for continuity, and its UL-approved cover is oil and weather resistant. The Pumpflex® Marina can be used for all types of gasoline, oil and other petroleum products.



**RESISTANCE**     
**BRANDING** Thermoid Size Pumpflex Marina  
 Hose UL Listed 97MO Made In  
 USA Month/Year

**Cover Color:** Green  
**Oil Resistance:** High, Medium-High  
**Construction:**  
**Tube:** NBR/PVC, RMA Class A  
**Cover:** CM, RMA Class B  
**Reinforcement:** Spiral polyester yarn with static wire (Softwall)  
**Temperature Range:** -40°F to +180°F  
 -40°C to +82°C  
**Packaging:** Reels

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
22463484662	3/4	19.05	1.13	28.58	4	200	1.38	4.50	114.30	0.32	0.48
22464644662	1	25.40	1.50	38.10	4	150	1.03	7.00	177.80	0.62	0.92

LPG

## POLAR-FLEX / CGA TYPE 1 BUTANE-PROPANE – THERMOCURE

Polar-Flex is a cold weather hose specifically engineered for use in transferring liquefied petroleum gases at peak efficiency even in extreme sub-zero temperatures. Featuring an oil-resistant and flame-retardant cover, it is ideal for moving propane or butane from bulk storage to tank cars or cylinders, or from bobtails trucks to residential home storage tanks. Polar-Flex is UL 21 File MH12585 listed and is approved to CGA (Canadian Gas Association) Type 1 requirements, and it meets all hose and hose assembly requirements of the Canadian Gas Association (CSA).



**RESISTANCE**    
**BRANDING** Thermoid Polar-Flex, CGA Type 1  
 UL Listed LP Gas Hose Issue No.  
 (Quarter) MH12585 350 PSI Max.  
 WP Made In USA

**Cover Color:** Black  
**Oil Resistance:** High, Medium-High  
**Construction:**  
**Tube:** NBR, RMA Class A  
**Cover:** CM, RMA Class B  
**Reinforcement:** 2 and 4 spiral polyester yarn  
 -50°F to +180°F  
**Temperature Range:** -46°C to +82°C  
**Packaging:** Reels, \*Coupled Lengths  
 1" I.D. can be ordered with coupled (M x M) Pro-Sur™ brass fittings. The D.O.T. test certificate is included  
 Hose assemblies tested/approved to 7/1/99 D.O.T. reg.  
 CGA approval on 1" I.D. assemblies only

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
22071161662▲	1/4	6.35	0.58	14.68	2	350	2.41	1.50	38.10	0.13	0.19
22071241662▲	3/8	9.53	0.69	17.46	2	350	2.41	2.25	57.15	0.16	0.24
22073321662▲	1/2	12.70	0.94	23.81	4	350	2.41	3.00	76.20	0.30	0.45
22073481662	3/4	19.05	1.25	31.75	4	350	2.41	4.50	114.30	0.43	0.64
22073641662	1	25.40	1.50	38.10	4	350	2.41	6.00	152.40	0.58	0.86

▲ = Make To Order (MTO)

### Coupled, Male x Male with Thermoid® PRO SUR™ Brass Fittings

Product Number	Nominal I.D.		Lengths	
	(inches)	(mm)	(feet)	(meters)
22073641101	1	25.40	100.00	30.48
22073641121	1	25.40	125.00	38.10
22073641151	1	25.40	150.00	45.72

\*Hose proof tested to 700 psi

## TYPE 75 BUTANE-PROPANE (THERMOCURE)

The Type 75 Butane-Propane hose was engineered for transferring liquefied propane gas from bulk storage tank cars or cylinder, or from bobtails trucks, to home storage tanks. This hose has been pin-pricked to permit gas diffusion, and its smooth black cover resists oil, snagging and abrasion and, making it a driver's choice.



**RESISTANCE**   
**BRANDING** Thermoid Type 75 LPG Hose  
 UL Listed Gas Hose Issue Number  
 (Quarter) MH12585 350 PSI  
 Maximum WP Made In USA

**Cover Color:** Black  
**Oil Resistance:** High, Medium-High  
**Construction:**  
**Tube:** NBR, RMA Class A  
**Cover:** CM, RMA Class B - 3/4" & 1", NBR/PVC-1/4"-1/2"  
**Reinforcement:** 2 or 4 spiral polyester yarn  
**Temperature Range:** -40°F to +180°F  
 -40°C to +82°C  
**Packaging:** Reels, \*Coupled lengths  
 D.O.T. test certificate included with assemblies.  
 Hose assemblies tested/approved to  
 7/1/99 D.O.T. regulations.

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
00667304600	1/4	6.35	0.63	15.88	4	350	2.41	1.50	38.10	0.14	0.22
00667306600	3/8	9.53	0.75	19.05	4	350	2.41	2.25	57.15	0.18	0.30
00667308600	1/2	12.70	0.94	23.81	4	350	2.41	3.00	76.20	0.29	0.43
22074481662	3/4	19.05	1.25	31.75	4	350	2.41	4.50	114.30	0.27	0.61
22074641662	1	25.40	1.50	38.10	4	350	2.41	7.00	177.80	0.58	0.86

### Coupled, Male x Male with Thermoid® PRO SUR™ Brass Fittings

Product Number	Nominal I.D.		Lengths	
	(inches)	(mm)	(feet)	(meters)
22074481101	3/4	19.05	100.00	30.48
22074481121	3/4	19.05	125.00	38.10
22074481151	3/4	19.05	150.00	45.72
22074481171	3/4	19.05	175.00	53.34
22074641101	1	25.40	100.00	30.48
22074641121	1	25.40	125.00	38.10
22074641151	1	25.40	150.00	45.72
22074641171	1	25.40	175.00	53.34



Steam

## BURSTPROOF™ OIL RESISTANT STEAM (THERMOCURE)

This hose is designed for saturated steam service up to +406°F and super-heated service up to +450°F where the cover may encounter petroleum products. Available in black or red, this hose's EPDM cover is reinforced with two braids of carbon steel wire providing flexibility and abrasion resistance. This durable hose provides a constant working pressure of 250 psi and is available in a range of sizes.



**RESISTANCE**     
**BRANDING** BP Steam, 250# PSI WP  
 Oil Resistant Made In USA

**Cover Color:** Black or Red  
**Oil Resistance:** Medium  
**Construction:**  
     **Tube:** EPDM, RMA Class C  
     **Cover:** EPDM, RMA Class C  
     **Reinforcement:** Two braids of carbon steel wire  
**Temperature Range:** For saturated steam service to +406°F (+208°C)  
     Super-heated steam to +450°F (+232°C)  
**Packaging:** Reels – 1/2"–1" I.D. or 50 ft. lengths  
     2-1/2" I.D. – 50 ft. lengths

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Braids	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
<b>Black</b>											
22062321662	1/2	12.70	1.06	26.99	2	250	1.72	3.00	76.20	0.38	0.57
22062481662	3/4	19.05	1.28	32.54	2	250	1.72	4.50	114.30	0.52	0.77
22062641662	1	25.40	1.53	38.89	2	250	1.72	7.00	177.80	0.77	1.15
<del>01104426502</del>	<del>2-1/2</del>	<del>63.50</del>	<del>3.13</del>	<del>79.38</del>	<del>2</del>	<del>250</del>	<del>1.72</del>	<del>17.00</del>	<del>431.80</del>	<del>2.00</del>	<del>2.98</del>
<b>Red</b>											
22062322662	1/2	12.70	1.06	26.99	2	250	1.72	3.00	76.20	0.38	0.57
22062482662	3/4	19.05	1.28	32.54	2	250	1.72	4.50	114.30	0.52	0.77
22062642662▲	1	25.40	1.53	38.89	2	250	1.72	7.00	177.80	0.77	1.15

▲ = Make To Order (MTO)

## BURSTPROOF™ REGULAR STEAM (THERMOCURE)

This hose is designed for saturated steam service up to +406°F and super-heated steam service up to +450°F where petroleum products will not contact the hose. This hose meets MIL H 28596B, Type 1, Grade A specifications. Available in black or red, this hose's EPDM cover is reinforced with two braids of carbon steel wire providing flexibility and abrasion resistance. This durable hose provides a constant working pressure of 250 psi and is available in a range of sizes.



**RESISTANCE**   
**BRANDING** Thermoid HBD Industries  
 BP Steam Hose Made In USA

**Cover Color:** Black or Red  
**Oil Resistance:** Limited  
**Construction:**  
**Tube:** EPDM  
**Cover:** EPDM  
**Reinforcement:** Two braids of carbon steel wire  
**Temperature Range:** For saturated steam service to +406°F (+208°C)  
 Super-heated steam to +450°F (+232°C)  
**Packaging:** Reels – 1/2"-1" I.D. or 50 ft. lengths  
 1-1/4" - 2" I.D. – 50 ft. lengths

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Braids	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
<b>Black</b>											
22052321662	1/2	12.70	1.00	25.40	2	250	1.72	3.00	76.20	0.38	0.57
22052481662	3/4	19.05	1.28	32.54	2	250	1.72	4.50	114.30	0.52	0.77
22052641662	1	25.40	1.53	38.89	2	250	1.72	7.00	177.80	0.77	1.15
01104413502	1-1/4	31.75	1.88	47.63	2	250	1.72	8.75	222.25	1.10	1.64
01104414502	1-1/2	38.10	2.11	53.58	2	250	1.72	10.50	266.70	1.23	1.83
01104415502	2	50.80	2.66	67.47	2	250	1.72	14.00	355.60	1.62	2.41
<b>Red</b>											
22052322662	1/2	12.70	1.00	25.40	2	250	1.72	3.00	76.20	0.38	0.57
22052482662	3/4	19.05	1.28	32.54	2	250	1.72	4.50	114.30	0.52	0.77
22052642662▲	1	25.40	1.53	38.89	2	250	1.72	7.00	177.80	0.77	1.15

▲ = Make To Order (MTO)

# Water Washdown

## BLACK HEAVY-DUTY CONTRACTORS WATER – COUPLED

Designed for professional grade contractor use, this heavy-duty water hose is engineered to remain flexible even in extreme temperatures ranging from -40°F to +180°F. It is coupled (Male x Female) with crush resistant octagonal nut rod brass garden hose couplings and brass ferrules. This hose is virtually kink-proof, features an EPDM tube and cover with multi-spiral reinforcement that is heat, ozone and sunlight resistant, and has a constant working pressure of 150 psi through all sizes.



**RESISTANCE**      
**BRANDING** None

**Cover Color:** Black  
**Oil Resistance:** Limited  
**Construction:**  
**Tube:** EPDM  
**Cover:** EPDM  
**Reinforcement:** Spiral polyester yarn  
**Temperature Range:** -40°F to +180°F  
 -40°C to +82°C  
**Packaging:** 50 ft. lengths – 5 per carton

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Braids	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
00512281248	5/8	15.88	0.94	23.81	2	150	1.03	3.75	95.25	0.23	0.34
00512281255▲	3/4	19.05	1.06	26.98	2	150	1.03	4.50	114.30	0.27	0.40

▲ = Make To Order (MTO)

## BLACK HEAVY-DUTY WATER – COUPLED

This hose is suitable for water pressures up to 150 psi and is coupled with Male x Female octagonal nut spun brass garden hose couplings with brass ferrules. Manufactured using the Air Mandrel Manufacturing Process, this hose is produced with no internal contamination of the inside diameter due to the lubricant, eliminating the need for customers to flush the hose.



**RESISTANCE**      
**BRANDING** None

**Cover Color:** Black  
**Oil Resistance:** Limited  
**Construction:**  
**Tube:** EPDM  
**Cover:** EPDM  
**Reinforcement:** Spiral polyester yarn  
**Temperature Range:** -40°F to +180°F  
 -40°C to +82°C  
**Packaging:** 50 ft. lengths – 5 per carton

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Braids	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
00512180769	5/8	15.88	0.94	23.81	2	150	1.03	3.75	95.25	0.23	0.34
00512180771	3/4	19.05	1.06	26.98	2	150	1.03	4.50	114.30	0.27	0.40

## BLACK MUNICIPAL WATER – COUPLED

This economical water hose was designed to provide general water pressure service for municipalities and general construction. It features an EPDM tube and cover that stand up to the effects of heat, abrasion, weathering and ozone. The multi-spiral reinforcement keeps the hose flexible even in extreme temperatures and helps minimize kinks. It can be used by consumers or in construction and this hose will handle city water pressure.



**RESISTANCE**      
**BRANDING** None

**Cover Color:** Black  
**Oil Resistance:** Limited  
**Construction:**  
**Tube:** EPDM  
**Cover:** EPDM  
**Reinforcement:** Spiral polyester yarn  
**Temperature Range:** -40°F to +180°F  
 -40°C to +82°C  
**Packaging:** 25 ft. or 50 ft. lengths – 5 per carton

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Braids	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
<b>25 ft.</b>											
00511780744	5/8	15.88	0.88	22.23	2	100	0.69	3.75	95.25	0.18	0.27
00511780745▲	3/4	19.05	1.03	26.19	2	100	0.69	4.50	114.30	0.24	0.36
<b>50 ft.</b>											
00511780769▲	5/8	15.88	0.88	22.23	2	100	0.69	3.75	95.25	0.18	0.27
00511780770▲	3/4	19.05	1.03	26.19	2	100	0.69	4.50	114.30	0.24	0.36

▲ = Make To Order (MTO)

## WASHING MACHINE DRAIN

This hose is specifically designed to withstand the heat and service life requirements needed for washing machine applications both in domestic and commercial use. It features an EPDM tube and cover with multi-spiral polyester construction which contributes to the hose's kink resistance and ease of use. Its flexibility makes it ideal for curves and bends.



**RESISTANCE**    
**BRANDING** None

**Cover Color:** Black  
**Oil Resistance:** Limited  
**Construction:**  
**Tube:** EPDM  
**Cover:** EPDM  
**Reinforcement:** Spiral polyester yarn  
**Temperature Range:** -40°F to +200°F  
 -40°C to +93°C  
**Packaging:** 50 ft. lengths – 1 per carton

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Braids	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
00548610250▲	5/8	15.88	0.91	23.02	2	62	0.43	3.75	95.25	0.19	0.28
00548614250	7/8	22.23	1.22	30.96	2	37	0.25	5.25	133.35	0.35	0.52

▲ = Make To Order (MTO)

## DARI-PREEN CREAMERY

The Dari-Preen Creamery hose is designed for washdown service in creameries, dairies, packing houses, canneries and food processing plants. It features an EPDM tube and cover that resists scuffing and cracking and is color coded white to indicate washdown service and cleanliness. Dari-Preen handles hot water up to 200°F at 50 psi, and is rated for working pressures up to 250 psi on 1/2" I.D.



**RESISTANCE**    
**BRANDING** Size WP Dari-Preen  
 Made In USA

**Cover Color:** White  
**Oil Resistance:** Limited  
**Construction:**  
     **Tube:** EPDM  
     **Cover:** EPDM  
     **Reinforcement:** Spiral polyester yarn  
**Temperature Range:** -40°F to +180°F  
     -40°C to +82°C  
**Packaging:** Reels, †50 ft. length – 1 per carton

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
00544808400	1/2	12.70	0.91	23.02	4	250	1.72	3.00	76.20	0.29	0.43
00544812400	3/4	19.05	1.25	31.75	4	200	1.38	4.50	114.30	0.50	0.74
00544812450†	3/4	19.05	1.25	31.75	4	200	1.38	4.50	114.30	0.50	0.74

## ALARM® BOOSTER – THERMOCURE

Our Alarm® Booster hose is a high quality, all-purpose fire engine booster hose product. Built to take rugged treatment, this hose has a red, NBR/PVC cover that resists abrasion while providing a smooth surface for easy handling, making it the driver's choice. Engineered to be dimensionally stable and not flatten or crush reels, it features an SBR/Nitrile tube that is reinforced with multiple spiral aramid yarns. Alarm® Booster is designed to provide a constant working pressure up to 800 psi for maximum safety.



**RESISTANCE**   
**BRANDING** Thermoid Alarm Booster  
 Size WP Made In USA

**Cover Color:** Red  
**Oil Resistance:** Medium, high  
**Construction:**  
**Tube:** NBR/PVC, RMA Class A  
**Cover:** NBR/PVC, RMA Class A, 1-1/2" I.D. EPDM  
**Reinforcement:** 2-spiral aramid yarn  
**Temperature Range:** -20°F to +190°F, 1-1/2" I.D. -40°F to +190°F  
 -29°C to +88°C, 1-1/2" I.D. -40°C to +88°C  
**Packaging:** Reels, coupled lengths available on a make-to-order basis

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
22212482662	3/4	19.05	1.19	30.16	2	800	5.51	4.50	114.30	0.41	0.61
22214642662	1	25.40	1.50	38.10	2	800	5.51	7.00	177.80	0.51	0.76
00142524301	1-1/2	38.10	2.00	50.80	4	250	1.72	10.50	266.70	0.71	1.06

\* Reattachable chrome-plated aluminum NST spanner hole couplings available to fit 3/4" and 1" I.D.

# Welding



## WELDING HOSE TECHNICAL INFORMATION

### PRECAUTIONS IN THE USE OF WELDING HOSE

WARNING: The use of certain fuel gases may damage welding hose and lead to fires and explosions.

#### FOREWORD:

This bulletin is issued to alert dealers and users of welding hose that special hose may be necessary for use with certain fuel gases.

#### SCOPE:

This bulletin relates to welding hose manufactured in conformance to RMA/CGA specification or to welding hose conforming to individual manufacturer or user specifications.

#### CAUTION:

The fuel gases listed below are recorded to alert welding hose users to a potential hazard with these or similar gases. It should be noted that no condemnation of any of the gases listed is intended. The purpose is to advise against the use of hose that may not be designed for a particular gas or pressure. A user of any fuel gas is urged to relate the type of gas along with the expected working pressure (regulator setting) to the hose manufacturer for a specific hose recommendation.

#### ALERT LISTING:

These and similar fuel gases may damage some grades or types of welding hose:

APACHE, FLAMEX, MAPP, PROPANE, PROPYLENE.

Use of the indicated or similar fuel gases at regulator settings above 40 psi may be particularly hazardous.

Users are also alerted against the use of ACETYLENE at any pressure above 15 psi.

#### IN-SERVICE CAUTION:

The user is first cautioned to shut off the gas at the torch and then at the regulator or supply source when the torch will not be used for periods in excess of 30 minutes, in order to limit permeation of gas through the hose wall.

The user is further cautioned not to shut off the fuel gas at the regulator or supply source first as a flashback may result and thereby damage the hose.

Adequate ventilation must be provided in confined areas where fuel gas is being used to prevent the accumulation or concentration of gas that could be explosive or otherwise harmful to personnel.

#### BACKGROUND INFORMATION:

The RMA/CGA specification for welding hose, as originally promulgated, considered welding hose that would be used to convey the then common fuel gas, acetylene, at the recommended low pressure (15 psi). Several grades were described, the variance between grades relating to a difference in their resistance to deterioration in the presence of oil, or to their resistance to destruction by flame, or both. No differentiation was made for a variance in performance resulting from exposure to the fuel gas itself. It had been determined that acetylene, when conveyed under the low pressures common to its recommended use, had little effect on hose, regardless of its composition or construction. In recent years, there have been developed or adopted a number of fuel gases based on specific hydrocarbons or mixtures of hydrocarbons. It is known that these special fuel gases have a different effect on rubber compounds than does acetylene. The precise effect on all the many and varying hose compounds and constructions of the many manufacturers has not been determined for all the known special fuel gases.

The effect of any material being conveyed in a hose on the rubber compounds used in the hose can be measured by one or several test procedures. In the case of fuel gases, the test procedures most applicable would be designed to measure a change of the

physical properties after exposure to the fuel gas including tensile, elongation, hardness and volume.

A characteristic of rubber hose that is significant in its use as welding hose is a phenomenon known as permeation. Any gas confined in the bore of a hose exhibits a tendency to pass through the tube wall and subsequently through the reinforcement and cover to the environment. Each gas has its own specific characteristic tendency to permeate. Each rubber compound exhibits specific resistance to permeation. The rate of permeation increases with higher temperature. To minimize the permeation of fuel gas through the hose wall it is logical to design the tube compound for the lowest possible permeation rate. The problem in the case of welding hose results from the variety of gases now encountered, the varying pressures used in service, and the varying temperatures to be found in the work place. The need to ventilate the work place is evident, both for maintaining the lowest practical temperature and to dissipate the permeating gas, however slight, to prevent buildup to concentrations that are either explosive or dangerous for breathing by workmen.

Some rubber compounds are known to have low permeation rates with several fuel gases but no specific rule can be laid down to predict overall performance. Thus, it becomes advisable to check the characteristic of each hose construction with each gas under actual or simulated service conditions to qualify it for use.

#### CAUTION:

Users of welding hose are urged to communicate their service conditions to the hose manufacturer and obtain the best recommendation of the manufacturer for a hose suitable for those conditions.

\* Reprinted with permission from the Rubber Manufacturers Association (RMA) Hose Handbook, RMA/IP-2/2003



## TULINE WELDING, GRADE R

The Flex Strength® Tuline Welding hose is lightweight, flexible and available from stock in a wide range of sizes. The hoses come in two popular grades, R and T. Both grades come in single line and tuline styles, with or without corrugated covers. Each of these styles and grades feature multi-spiral construction for maximum kink resistance. The Grade R hose features an EPDM tube and cover that are heat resistant.



**RESISTANCE**   
**BRANDING** Red #495 Size, Grade R Acetylene  
 Only Std. Duty KX WP 200 PSI  
 RMA 1P-7-2008 (Date)  
 Green #501

**Cover Color:** Red, Green  
**Oil Resistance:** Limited - (Acetylene Only)  
**Construction:**  
**Tube:** EPDM  
**Cover:** EPDM  
**Reinforcement:** Spiral polyester yarn  
**Temperature Range:** -40°F to +180°F  
 -40°C to +82°C  
**Packaging:** Reels, Cut and coupled lengths



**RESISTANCE**   
**BRANDING** Red #495 Size, Grade R Acetylene  
 Only Std. Duty KX WP 200 PSI  
 RMA 1P-7-2008 (Date)  
 Green #501

**Cover Color:** Red, Green  
**Oil Resistance:** Limited - (Acetylene Only)  
**Construction:**  
**Tube:** EPDM  
**Cover:** EPDM  
**Reinforcement:** Spiral polyester yarn  
**Temperature Range:** -40°F to +180°F  
 -40°C to +82°C  
**Packaging:** Reels, Cut and coupled lengths

## TULINE WELDING, GRADE R

Red is for acetylene use only, and where cover must resist abrasion, weather and ozone.

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
00521403200	3/16	4.76	0.44	11.11	2	200	1.38	1.25	31.75	0.15	0.22
00521404200	1/4	6.35	0.53	13.49	2	200	1.38	1.50	38.10	0.21	0.32
00521405200▲	5/16	7.94	0.59	15.08	2	200	1.38	2.00	50.80	0.25	0.37
00521406200	3/8	9.53	0.66	16.67	2	200	1.38	2.25	57.15	0.28	0.41

▲ = Make To Order (MTO)

## TULINE WELDING, GRADE R

Cut & Coupled (B&B)

Product Number	Nominal I.D.		Nominal O.D.	
	(inches)	(mm)	(inches)	(mm)
00521403215▲	3/16	4.76	12.50	3.81
00521403225	3/16	4.76	25.00	7.62
00521403249	3/16	4.76	50.00	15.24
00521403291	3/16	4.76	100.00	30.48
00521484212▲	1/4	6.35	12.50	3.81
00521484225	1/4	6.35	25.00	7.62
00521484250	1/4	6.35	50.00	15.24
00521484290	1/4	6.35	100.00	30.48
00521405226▲	5/16	7.94	25.00	7.62
00521405252	5/16	7.94	50.00	15.24
00521405291▲	5/16	7.94	100.00	30.48
00521406226▲	3/8	9.53	25.00	7.62
00521406251▲	3/8	9.53	50.00	15.24
00521406290▲	3/8	9.53	100.00	30.48

▲ = Make To Order (MTO)



All lengths packaged 5 per box except 100 ft.  
Lengths are packaged 1 per box.

## SINGLE LINE CORRUGATED WELDING, GRADE R, TYPE S

Red or Green. Red is for acetylene use only, and where cover must resist abrasion, weather and ozone.

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
<b>Green</b>											
00521803205	3/16	4.76	0.44	11.11	2	200	1.38	1.25	31.75	0.08	0.12
00521804205	1/4	6.35	0.53	13.49	2	200	1.38	1.50	38.10	0.11	0.16
00521804405	1/4	6.35	0.59	15.08	4	200	1.38	1.50	38.10	0.14	0.21
00521805400▲	5/16	7.94	0.66	16.69	4	200	1.38	2.00	50.80	0.16	0.24
00521806400	3/8	9.53	0.72	18.26	4	200	1.38	2.25	57.15	0.18	0.27
<b>Red</b>											
00521903205	3/16	4.76	0.44	11.11	2	200	1.38	1.25	31.75	0.08	0.12
00521904205	1/4	6.35	0.53	13.49	2	200	1.38	1.50	38.10	0.11	0.16
00521904405	1/4	6.35	0.59	15.08	4	200	1.38	1.50	38.10	0.14	0.21
00521905400	5/16	7.94	0.66	16.69	4	200	1.38	2.00	50.80	0.16	0.24
00521906400	3/8	9.53	0.72	18.26	4	200	1.38	2.25	57.15	0.18	0.27

▲ = Make To Order (MTO)

## TULINE WELDING, GRADE T

The Flex Strength® Tuline Welding hose is lightweight, flexible and available from stock in a wide range of sizes. The hoses come in two popular grades, R and T. Both grades come in single line and tuline styles, with or without corrugated covers. Each of these styles and grades feature multi-spiral construction for maximum kink resistance. The Grade T hose features a CR (Polychloroprene) tube and cover that offer medium-high fuel gas resistance.



**RESISTANCE**   
**BRANDING** Red #512 Size, Grade T Fuel Gas  
 Std. Duty KX WP 200 PSI RMA  
 1P-7-2008 (Date)  
 Green #501

**Cover Color:** Red, Green  
**Fuel Resistance:** Medium - High - (All Fuel Gases)  
**Construction:**  
**Tube:** Polychloroprene (CR)  
**Cover:** NBR/PVC  
**Reinforcement:** Spiral polyester yarn  
**Temperature Range:** -40°F to +180°F  
 -40°C to +82°C  
**Packaging:** Reels, Cut and coupled lengths



**RESISTANCE**   
**BRANDING** Red #512 Size, Grade T Fuel Gas  
 Std. Duty KX WP 200 PSI RMA  
 1P-7-2008 (Date)  
 Green #501

**Cover Color:** Red, Green  
**Fuel Resistance:** Medium - High - (All Fuel Gases)  
**Construction:**  
**Tube:** Polychloroprene (CR)  
**Cover:** NBR/PVC  
**Reinforcement:** Spiral polyester yarn  
**Temperature Range:** -40°F to +180°F  
 -40°C to +82°C  
**Packaging:** Reels, Cut and coupled lengths

## TULINE WELDING, GRADE T

For use with all fuel gases, and where a flame and oil resistant tube and cover are required.

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
00521503200▲	3/16	4.76	0.44	11.11	2	200	1.38	1.25	31.75	0.17	0.25
00521504200	1/4	6.35	0.53	13.49	2	200	1.38	1.50	38.10	0.24	0.36
00521505200▲	5/16	7.94	0.59	15.08	2	200	1.38	2.00	50.80	0.27	0.40
00521506200	3/8	9.53	0.66	16.67	2	200	1.38	2.25	57.15	0.31	0.46

▲ = Make To Order (MTO)

## TULINE WELDING, GRADE T

Cut & Coupled (B&B)

Product Number	Nominal I.D.		Nominal O.D.	
	(inches)	(mm)	(inches)	(mm)
00521583250▲	3/16	4.76	50.00	15.24
00521584212▲	1/4	6.35	12.50	3.81
00521584225▲	1/4	6.35	25.00	7.62
00521584250	1/4	6.35	50.00	15.24
00521584290	1/4	6.35	100.00	30.48
00521585250▲	5/16	7.94	50.00	15.24
00521586250▲	3/8	9.53	50.00	15.24
00521586290▲	3/8	9.53	100.00	30.48

▲ = Make To Order (MTO)



All lengths packaged 5 per box except 100 ft.  
Lengths are packaged 1 per box.

## SINGLE LINE CORRUGATED WELDING, GRADE T

Red or Green. Red is used with all fuel gases, and where a flame and oil resistant tube and cover are required.

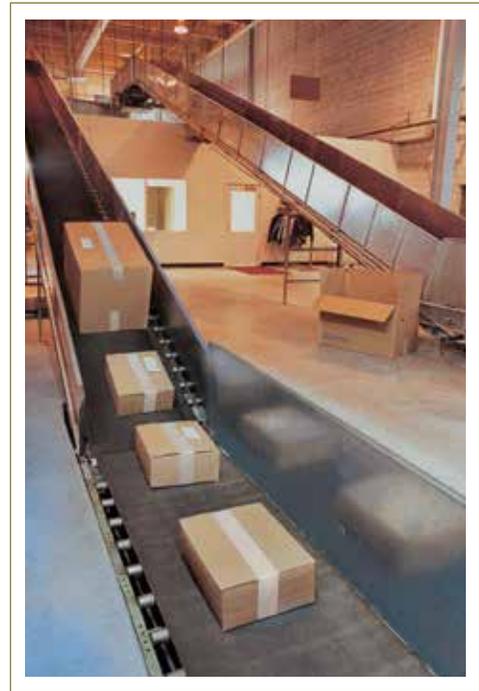
Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
<b>Green</b>											
00523803205▲	3/16	4.76	0.44	11.11	2	200	1.38	1.25	31.75	0.08	0.12
00523804405	1/4	6.35	0.59	15.08	4	200	1.38	1.50	38.10	0.15	0.22
00523805400▲	5/16	7.94	0.59	15.08	2	200	1.38	2.00	50.80	0.14	0.21
00523806400▲	3/8	9.53	0.72	18.26	4	200	1.38	2.25	57.15	0.20	0.30
<b>Red</b>											
00523903205▲	3/16	4.76	0.44	11.11	2	200	1.38	1.25	31.75	0.08	0.12
00523904405	1/4	6.35	0.59	15.08	4	200	1.38	1.50	38.10	0.15	0.22
00523905400▲	5/16	7.94	0.59	15.08	2	200	1.38	2.00	50.80	0.14	0.21
00523906400▲	3/8	9.53	0.72	18.26	4	200	1.38	2.25	57.15	0.20	0.30

▲ = Make To Order (MTO)

# Lightweight Conveyor Belting

## CONVEYOR BELTING

Over the last 50 years, Thermoid® has become widely known and respected as a high quality manufacturer and innovator of lightweight rubber conveyor belting products. Many improvements that are now considered industry standards were conceptualized and developed in our research laboratories. We were the first to use 100% polyester and 50/50 polyester-cotton blends for greater strength and moisture resistance in our lightweight belting. We were also the first to use a nitrile rubber to dramatically improve the oil resistance in our food belts, and we pioneered the development of special adhesive treatments for synthetic carcasses that help keep plies from separating.



### APPLICATIONS

From the highest quality food-grade products that meet the most rigorous standards of the FDA, to highly engineered belting for today's automated Package Handling systems, each of our products is quality made and application-engineered to offer high performance, long life and exceptional value. Applications include:

#### FOOD HANDLING

From field to factory, Thermoid® offers a full range of food-grade belting with multiple fabric selections, specially designed compounds in a variety of colors, and a choice of food-grade cover impressions. Operating environments include high and low temperatures (from -65° F to 300° F), as well as hot, oily, acidic or sticky conditions. Thermoid® food belting is FDA and USDA approved for both direct and packaged products across any food need, including fruits, nuts, meat, fish and poultry.

##### Meats & Poultry – USDA & FDA Approved

- Saniwhite – Nitrile rubber (all fabrics)
- Sani-Brite – NBR/PVC rubber (all fabrics)
- Hot 'n Cold Butyl (Polyester fabrics)
- Ridgetop Nitrile

##### Hot, Oily Foods (FDA)

- Saniwhite – Nitrile rubber (all fabrics)
- Sani-Brite – NBR/PVC rubber (all fabrics)
- Hot 'n Cold Butyl
- Teflon®

##### Frozen Food Conveyor Belting

- Butyl – Hot 'n Cold
- Rubber – Slide-A-Pack
- Rubber – Griptop

##### Fruit/ Vegetable Processing

- Saniwhite – Nitrile rubber (all fabrics)
- Sani-Brite – NBR/PVC rubber (all fabrics)

## PACKAGE HANDLING

Thermoid® offers multiple baggage/handling solutions for numerous systems. Our VCleat, Ribflex and Diamond Incline Belts smoothly and effortlessly move products along steep inclines and declines, and our Pack-EZ S/Weave or EZ Premium PH Series Belt products improve the efficiency and speed of Slider Bed Package Handling Systems. Additionally, our Sliptop, Caripack and Slide-A-Pack belts are ideal for horizontal belt package handling applications.

### Belts For Inclines/Declines – When Oil Is Present

- Griptop – Up to 35 degree inclines/declines

### Belts For Steep Inclines/Declines – Up To 45°

- Diamond Incline
- V-Cleat
- Ribflex

### Belts For Package Slider Bed Systems

- Pack-EZ S/Weave
- Pack-EZ Premium PH Series

### Belts For Horizontal Service

- Caripack
- Slide-A-Pack
- Sliptop
- Sheeting Belt
- Hot Stock & Water

## AGRICULTURE

Offering numerous products that span the entire agricultural production process, Thermoid® agricultural conveyor belting is selected for its reliability and durability across varying terrain and environments

### Incline Service – FDA Approved

- Griptop for up to 35° inclines and declines
- Ridgetop - USDA & FDA Approved

### Potato Harvesting/Utility Service

- Potato (2-ply synthetic fabrics)

## LIGHT INDUSTRIAL / AUTOMATION

From lightweight sheeting belts to Slide-A-Pack transmission belts, each product is specifically engineered to meet the demanding requirements of common light industrial applications. Thermoid® also offers a wide range of products for the newer, highly automated, material handling systems.

### Belts – When Oil Is Present

- Nitrile rubber (Polyester, PNT, SCP)
- NBR/PVC rubber (Polyester, PNT, SCP and APT)
- MOR Rubber

### Belts – For Oil-Free Service

- Hot Stock & Water
- Caripack
- Slide-A-Pack
- Potato (Utility)

## SPECIAL APPLICATION PRODUCTS

- Big Red (Silicone Covered) for Hot or Cold Tacky Material
- Plywood Processing – Tray
- Lumber Service – Lumber

## THERMOID BELT DESCRIPTION AND NOMENCLATURE

Belt Width	Number of Plies and Fabric	Belt Style or Color	Color or Style	Top Cover	Bottom Cover
72"	2 ply APT-35	Sani-Brite	White Nitrile	3/64"	FS
72"	3 ply PCB-35	Tan SBR	Slide-A-Pack	FS	FS
72"	2 ply APT-75	Black SBR		Griptop	Bare
72"	2 ply APT-75	Black SBR	Potato Belt	1/32"	1/32"

## THERMOID LIGHTWEIGHT BELTING COMMON COMPONENTS

Standard Fabrics – Tension Rating		Color(s)	Compound		Type	
APT-35	RFL Treated Polyester rated at 35 lbs/in/ply	Black	Nitrile	Oil Resistant NBR	Saniwhite	Nitrile (NBR) Food Belting
PNT-50	RFL Treated Polyester/Nylon rated at 50 lbs/in/ply	White	Sani-Brite White Nitrile	High gloss, oil resistant NBR/PVC blend	Sani-Brite	High Gloss Food Belting NBR/PVC
SCP-14	Spun Cotton/Polyester rated at 14lbs./in/ply	Blue	Butyl	High and Low Temperature Polymer	Caripack	High Gloss Food Belting NBR/PVC
SCP-23	Spun Cotton/Polyester rated at 23 lbs./in/ply	Red/Brown	SBR	General purpose Styrene Butadiene Rubber	Slide-A-Pack	Transmission Belting
APT-75	RFL Treated Filament Polyester rated at 75 lbs/in/ply	Red	NR	Natural Rubber	HSW	Hot, Stock, and Water
PNT-75	RFL Treated Polyester/Nylon rated at 75 lbs./in/ply	Blue	Carbox.	High abrasion resistant Carboxylated Nitrile	Gin Flashing	Cotton Gin Flashing
PCB-35	Spun Cotton/Filament Polyester rated at 35 lbs./in/ply	Orange	Pure-Gum	Abrasion resistant Pure-Gum Rubber	Potato Belt	Agriculture
PN-45	RFL Treated Filament Polyester rated at 110 lbs./in/ply	Black	MOR	Moderate Oil Resistant Rubber	Sliptop	
33oz SHD	33oz/yd 2 Silver Hard Duck rated at 35 lbs./in/ply – All Cotton	Natural				

Standard Fabrics – Tension Rating		Top Cover(s)		bottom Cover(s)		Special	
APT-35	RFL Treated Polyester rated at 35 lbs/in/ply	Thickness	Specified as a fraction of an inch or in metric	Thickness	Specified as a fraction of an inch or in metric	FR	Flame Retardant to ASTM D378
PNT-50	RFL Treated Polyester/Nylon rated at 50 lbs/in/ply	Ridge top	1/4" integrally folded cleats on one inch enters	FS	Friction Surface	SE	Self Extinguishing to ISO-340
SCP-14	Spun Cotton/Polyester rated at 14lbs./in/ply	Teflon®	0.002" Teflon film	TD	Bare RFL fabric	AS	Anti-Static to $\geq 10^9$ to $\leq 10^{14}$
SCP-23	Spun Cotton/Polyester rated at 23 lbs./in/ply	F5	Friction surface	Bare	Bare fabric surface	SC	Static Conductive to a maximum of 300 Mega Ohms (MΩ)
APT-75	RFL Treated Filament Polyester rated at 75 lbs./in/ply	Gripper	Molded light fabric impression				
PNT-75	RFL Treated Polyester/Nylon rated at 75 lbs./in/ply	TR	Molded fabric (Griptop)				
PCB-35	Spun Cotton/Filament Polyester rated at 35 lbs./in/ply	TD	Bare RFL fabric				
PN-45	RFL Treated Filament Polyester rated at 110 lbs./in/ply	SHD	Bare heavy cotton cover				
APT-110	RFL Treated Filament polyester rated at 35 lbs./in/ply	Bare	Bare fabric surface				
33oz SHD	33oz/yd 2 Silver Hard Duck rated at 35 lbs./in/ply – All Cotton	V-cleat	Molded "M" cleats on x = 1/2" enters				
		Big red silicone	Light coating of red silicone rubber				
		Diamond impression	Molded diamond incline				

LIGHTWEIGHT CONVEYOR BELTING

# Industrial Ducting

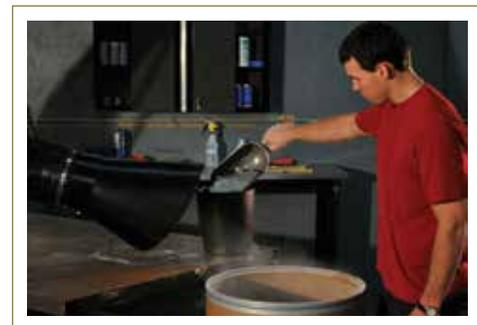
## INDUSTRIAL DUCTING

Thermoid® offers a wide range of flexible industrial ducting that meets the highest standards of quality and integrity in the industrial marketplace. Our ducting product line includes many well known and trusted products like **FlexKing®**, **Ultraflex®**, **Neoflex®**, **Silflex®**, **Tuftex®** and **Cyclone®**. The strength and reliability of our products make them suitable for a variety of applications, including industrial air movement, dust collection, fume control and light bulk material handling. Many of these ducting products are outlined within this catalog. However, for complete information on all of our industrial ducting products, please visit our website or contact your area Thermoid® brand distributor.

### CUSTOM DUCTING PRODUCTS

In addition to our quality ducting products that are available in standard specifications, Thermoid® has the production expertise and manufacturing capability to design and produce custom ducting products to meet your unique industrial air movement, dust/dirt collection, fume control, light and/or heavy bulk material handling application requirements.

Our experienced personnel can assist you in developing high performance products that will offer long-term service life in harsh working conditions and extreme temperatures



## FLEXKING® DUCTING LINE

The FlexKing® product line offers a broad range of base fabrics, plies, coatings and sizes, all of which have a wire helix completely enclosed for a smooth, reliable, flexible operation. Its applications include fume control, cool or warm ventilation, hot air, light materials handling, and even projects where rot, mold and mildew pose a challenge. FlexKing® is available in a variety of neoprene coated fabrics, soft cuffs and neoprene dip coatings.

### FlexKing® Type SC

The FlexKing® Type SC performs especially well in low pressure, light duty areas and is best suited for air handling and fume control. It features a single ply, neoprene coated cotton/polyester blend fabric with a helical wire reinforcement.

### FlexKing® Type DC

Exceptionally reliable and strong, the FlexKing® Type DC is designed for air handling, fume control, dust collection, and light material handling applications. It features a double ply, neoprene coated cotton/polyester blend fabric with a helical wire reinforcement.



## FlexKing Type DC-FR

Featuring the same construction as the FlexKing® Type DC, this product also offers excellent flame resistant qualities that meet UL 94V-O requirements.

## FlexKing Type DE

The most rugged of the two-ply FlexKing® products, the Type DE has an incomparable reliability record for performance under the most severe conditions. It resists rupture and flex-fatigue and is both mildew and rot proof. It features a double-ply, neoprene coated polyester fabric and a helical wire reinforcement (it is also available in a single ply construction – FlexKing® SE).



## TYPE DC

Hose Inside Diameter (inches)	2	3	4	5	6	7	8	10	12
Weight (lbs./ft.)	0.24	0.41	0.61	0.64	0.75	1.15	1.36	1.64	2.07
Inside Bend Radius (inches)	0.625	0.625	1	1	1.5	1.75	1.75	2	2.5
Length Required for 180° Bend (inches)	9.2	12.5	19	21	25	28	29	38	46
Minimum Burst Pressure (psig)	50	45	40	32	28	24	20	18	15
Internal Working Pressure (psig)	12.5	11	10	9	7	6	5	4.5	3.75
Crush Resistance (lbs./ft.)	490	280	550	360	800	700	600	500	400
Axial Tensile Strength (lbs.)	408	612	816	1000+	1000+	1000+	1000+	1000+	1000+
Retracted Length (in./ft.)	6	6	5	5	4.75	4.75	4.75	4.5	4.5
Neg. Pressure Req. to Collapse (hg.in.)	18	17	16	15	14	13	12	11	10
Operating Temperature Range	-40°F to +250°F								

\* FlexKing Type DC is normally available in 25 foot lengths, however this product can be ordered in a range of diameter sizes and lengths.

## ULTRAFLEX® DUCTING LINE

The Ultraflex® ducting line delivers high performance service across multiple applications. The variety of thermoplastic materials used, coupled with its durability, weatherability and resistance to chemicals and abrasion makes this an incredibly versatile line capable of taking on the most demanding jobs.

### Ultraflex® Type TPR

The Ultraflex® TPR features a helical wire-reinforced thermoplastic rubber suitable for a wide variety of air handling, fume control, and dust collection applications. It offers superior resistance against abrasion, chemicals, ozone, weathering and flex fatigue.

#### TYPE TPR

Inside Diameter (inches)	2	4	6	8	10
Weight (lbs./ft.)	0.22	0.75	0.94	1.62	1.86
Inside Bend Radius	1/2 of I.D.				
Burst (psig)	50	32	27	25	22
Working Pressure (psig)	17	11	9	8	7
Compressibility	65%				
Temperature Range	-60°F to +275°F, +300°F Intermittent				
Max. Negative Pressure (in. hg.)	24	24	9	8	6

Footnote: All pressure and vacuum data based on 72°F temperature.

### Ultraflex® Type TPC

Ultraflex® TPC consists of a thermoplastic polyvinyl chloride (PVC) material reinforced with a spring steel wire helix. It is an excellent economical choice for industrial applications that require fume removal, ventilation, dust collection, etc.

#### TYPE TPC

Inside Diameter (inches)	2	4	6	8	10
Weight (lbs./ft.)	.17	.40	.59	.85	1.03
Inside Bend Radius	1/2 of I.D.				
Burst (psig)	27	18	17	15	10
Working Pressure (psig)	9	6	5.5	5	3
Compressibility	75%				
Temperature Range	-20°F to +180°F				
Max. Negative Pressure (in. hg.)	20	14	8	6	5

Footnote: All pressure and vacuum data based on 72°F temperature.



**Standard Colors:** BLACK  
**Sizes:** 2" I.D. through 18" I.D.  
**Standard Length:** 25 ft. (other lengths up to 50 ft. available upon request)  
**Temp. Range:** -60°F to +275°F Continuous, +300°F Intermittent  
**Features:** Excellent flexibility and compressibility characteristics; can be used in both positive and negative applications.  
**Applications:** Venting systems for chemical fumes; dust collection; exhausting gases; air movement.



**Standard Colors:** Blue  
**Sizes:** 2" I.D. through 18" I.D.  
**Standard Length:** 25 ft. (other lengths up to 50 ft. available upon request)  
**Temp. Range:** -20°F to +180°F  
**Features:** Excellent flexibility, good abrasion resistance, good chemical resistance, good weathering characteristics  
**Applications:** Fume removal, ventilation, dust collection, light material handling internal cooling and venting of computers

## Ultraflex® Type TPU

Constructed of a helical wire-reinforced thermoplastic urethane, the Ultraflex® TPU offers excellent abrasion resistance for material handling applications. It is a tough, versatile, lightweight, flexible product that can be used in a variety of applications, and is offered in black or clear transparent urethane that allows the user to monitor the flow of material.

### TYPE TPU

Inside Diameter (inches)	2	4	6	8	10
Weight (lbs./ft.)	0.24	0.56	0.94	1.08	1.36
Inside Bend Radius	1/2 of I.D.				
Burst (psig)	50	25	22	15	10
Working Pressure (psig)	17	8	7	5	3
Compressibility	65%				
Temperature Range	-65°F to +200°F				
Max. Negative Pressure (in. hg.)	24	23	9	8	6

Footnote: All pressure and vacuum data based on 72°F temperature.



**Standard Colors:** BLACK or Clear  
**Sizes:** 2" I.D. through 18" I.D.  
**Standard Length:** 25 ft. (other lengths up to 50 ft. available upon request)  
**Temp. Range:** -65°F to +200°F Continuous.  
**Features:** Superior abrasion resistance, excellent low temperature flexibility, high tear strength, excellent ozone resistance, and good oil resistance.

**Applications:** Lawn and garden applications include chip handling, leaf and grass loading, straw blowing; industrial vacuum systems; transfer of plastic pellets; dry bulk material handling systems; agricultural product material handling; woodworking applications include transfer of sawdust and wood chips.

## CYCLONE® UTILITY BLOWER & UTILITY BLOWER INSULATED

Our Cyclone® line of ducting products provides excellent service in applications that require the conveying of air and fume control in large volumes. This line proves to be ideal for portable blower applications, temporary ship construction ventilation, welding fume removal, utility manhole ventilation, portable heaters, and mobile vehicle air conditioning and heating units.

### Cyclone® Type UB

This flexible ducting with its exceptional compressibility (approx. 8 to 1) permits ease of storage and handling. It maintains a smooth bore when operating at working pressure, and to protect the ducting when being dragged over rough surfaces, a scuff strip is included for added durability.

#### TYPE UB CONSTRUCTION

- A. Galvanized spring steel wire helix, fully enclosed.
- B. Single ply vinyl flame retardant, coated polyester fabric
- C. Thermoplastic scuff strip.
- D. Nylon thread stitching.



#### TYPE UB TECHNICAL DATA

<b>Inside Diameter (inches):</b>	5 to 30 Larger diameters available upon request.
<b>Operating Temp Range:</b>	-40°F to +250°F
<b>Standard Lengths:</b>	10, 15 and 25 ft. Longer lengths available.
<b>Color:</b>	Yellow with black helical wear strip.

## CYCLONE® TYPE UBI

This pre-insulated ducting is designed to move large volumes of hot or cold conditioned air with negligible heat loss or gain. Both flexible and lightweight, it provides a compressibility ratio of approximately 5 to 1, and its exterior scuff strip provides abrasion resistance.

### TYPE UBI CONSTRUCTION

- A. Galvanized spring steel wire helix, fully enclosed.
- B. Two ply flame retardant, vinyl coated polyester fabric.
- C. Insulation blanket encased between material plies.
- D. Thermoplastic scuff strip.
- E. Nylon thread stitching..



**Inside Diameter (inches):** 5 to 30  
Larger diameters available upon request.

**Operating Temp Range:** -40°F to +250°F

**Standard Lengths:** 10, 15 and 25 ft. – Longer lengths available.

**Color:** Yellow with black helical wear strip.



## NEOFLEX® DUCTING PRODUCTS

Our Neoflex® ducting line is designed for conveying hot or cold temperature air and fume control applications ranging from -40°F to +300°F (It is not recommended for applications involving the movement of liquids or abrasive materials, or for negative pressure applications). Its excellent flexibility allows for easy installation around obstructions and sharp bends. Typical applications include portable generator cooling, heater ducts and electronic equipment cooling.

### Neoflex® Type SNF

The Neoflex® SNF is an extremely lightweight, highly flexible, low pressure ducting suitable for conveying fumes and air. It features a single ply of neoprene coated fiberglass fabric with an internally exposed helical wire reinforcement. Short lengths can be easily attached together to form a continuous length.

### Neoflex® Type DNF

Featuring a double-ply neoprene coated fiberglass fabric with the helical wire reinforcement encased between two plies of fabric, the Neoflex® DNF benefits from a higher pressure rating, improved air flow and less air friction loss.



### TYPE DNF

Inside Diameter (inches)	2	3	4	5	6	7	8	10	12
Weight (lbs./ft.)	.22	.35	0.47	0.58	0.69	0.81	0.92	1.15	1.35
Inside Bend Radius (inches)	0.75	1.1	1.25	1.5	1.75	2	2.25	3	4
Length Required for 180° Bend (inches)	10	14	19	24	28	32	38	50	60
Minimum Burst Pressure (psig)	185	160	144	84	76	48	43	38	22
Internal Working Pressure (psig)	46	40	36	21	19	12	9.5	6.5	5.5
Maximum Leakage (cfm/ft. at working pressure)	.020	0.03	0.04	0.05	0.06	0.07	0.08	0.1	0.12
Crush Resistance (lbs./ft.)	400	320	290	240	200	190	145	105	60
Axial Tensile Strength (lbs.)	550	720	900+	900+	900+	900+	900+	900+	900+
Compressed Length (inches per foot)	4	4	3.5	3.5	3.5	3.5	3.5	3.5	3
Operating Temperature Range	-40°F to +300°F								

\* NeoFlex Type DNF is normally available in 10 foot lengths, however this product can be ordered in a range of diameter sizes and lengths.

## SILFLEX® DUCTING PRODUCTS

Our Silflex® line of ducting products has been designed to handle extreme high and low temperature air handling applications ranging from -80°F to +550°F (It is not recommended for applications involving the movement of liquids or abrasive materials, or for negative pressure applications). Extremely flexible and easily installed around obstructions and sharp bends, typical applications include electronic equipment cooling, paper processing equipment, engine compartment air handling, and fume removal from aluminum and glass manufacturing.

### Silflex® Type SSF

Lightweight and extremely flexible, short sections can be joined together to form a continuous length, thereby minimizing waste. It features a single-ply silicone-coated fiberglass fabric with an internally exposed helical wire reinforcement.

### Silflex® Type DSF

This ducting features a double-ply silicone coated fiberglass fabric with the helical wire reinforcement encased between two plies of fabric. Its liner allows for improved air flow and less air friction loss. The Silflex® DSF ducting product offers a higher pressure rating than the Silflex® SSF.



### TYPE DSF

Inside Diameter (inches)	2	3	4	5	6
Weight (lbs./ft.)	0.2	0.33	0.44	0.55	0.66
Inside Bend Radius (inches)	0.75	1	1.25	1.5	1.75
Length Required for 180° Bend (inches)	10	14	19	24	28
Minimum Burst Pressure (psig)	165	142	125	76	68
Internal Working Pressure (psig)	42	35	31	19	17
Maximum Leakage (cfm/ft. at working pressure)	0.016	0.024	0.032	0.04	0.048
Crush Resistance (lbs./ft.)	400	320	290	240	200
Axial Tensile Strength (lbs.)	525	680	860	900+	900+
Compressed Length (inches per foot)	4.5	4.5	4	3.5	3.5
Operating Temperature Range	-80°F to +550°F				

\* Silflex Type DSF is normally available in 11 foot lengths, however this product can be ordered in a range of diameter sizes and lengths.

## TUFTEX® DUCTING PRODUCTS

The Tuflex® product line is an incredibly unique product, as it can almost be considered a general purpose industrial hose. It provides an integrally vulcanized rubber liner and cover with external corrugation that enhances its flexibility while maintaining a smooth bore. This line is designed for gravity or positive and negative pressure applications in bulk material handling applications.

### Tuflex® Type CD

This flexible, long service hose is designed to handle lightweight abrasive materials. It can be used for the transmission of liquids, grindings and contaminated air. Its construction consists of a single-ply neoprene coated fabric cover, a .032" abrasion resistant rubber liner, and a spring steel wire helix.



TS

### TYPE CD

Inside Diameter (inches)	2	3	4	5	6	7	8	10	12
Weight (lbs./ft.)	.15	.30	.42	.80	1.0	1.25	1.4	1.8	2.5
Inside Bend Radius (inches)	1.25	1.50	1.50	1.75	2.0	2.5	4.0	6.0	9.0
Minimum Burst Pressure (psig)	30	28	26	23	20	18	16	14	12
Negative Pressure Req. to Collapse (in.hg.)	27	27	23	22	20	18	14	9	2
Operating Temperature Range	-40°F to +250°F								

\* Tuflex Type CD is normally available in 20 foot lengths, however this product can be ordered in a range of diameter sizes and lengths.

## TUFTEX® DUCTING PRODUCTS

### Tuftex® MH1, MH2 and MH3

This material handling hose is designed for gravity or positive and negative pressure applications in bulk material handling. Thermoid® manufactures three types of this product (MH1, MH2 and MH3), allowing the customer to select the type that best fits the application, but all three are constructed with excellent abrasion-resistant materials.



### CONSTRUCTION TYPE MH (MATERIAL HANDLING)

MH Type 1	MH Type 2	MH Type 3
A. Spring steel wire helix support.	A. Spring steel wire helix support.	A. Spring steel wire helix support.
B. Single-ply synthetic fabric reinforcement.	B. Single-ply synthetic fabric reinforcement.	B. Double-ply synthetic fabric reinforcement.
C. Abrasive-resistant rubber tube .062 inch thick.	C. Abrasive-resistant rubber tube .125 inch thick.	C. Abrasive-resistant rubber tube .250 inch thick.
D. Abrasive-resistant rubber cover.	D. Thick abrasive-resistant rubber cover.	D. Thick abrasive-resistant rubber cover.

Sewer cleaning needs vary, but TUFTEX handles the toughest jobs. TUFTEX comes in a variety of lengths and of ID Sizes. Shown below are just some of the many standard /common sizes:

8" x 60" x 4"	8" x 66" x 4"	8" x 62" x 4"	8" x 68" x 4"	8" x 72" x 4"	8" x 100" x 4"
	8" x 102" x 4"	8" x 120" x 4"	8" x 20' x 4"	8" x 127" x 4"	

### TUFTEX MH-2

	4	6	8	10
Inside Diameter (inches)	4	6	8	10
Approx. Weight (lbs./ft.)	2.5	3.5	4.5	6
Length Required for 90° Bend (inches)	7	11	13	16
Minimum Burst Pressure (Psig)	90	65	45	40
Negative Pressure to Collapse (inches hg.)	28+	28+	28+	28+
Temperature Range	-40°F/40°C to +250°F/168°C			

## TUFTEX<sup>®</sup> DUCTING PRODUCTS

### Tuftex<sup>®</sup> LSH-CB (Leaf Suction Hose)

Featuring a corrugated liner, this hose is produced using weather-resistant and excellent abrasion-resistant rubber compounds which provide a unique flexibility, ease of handling and long trouble-free service life not often associated with material handling hoses.

Construction:

- A. Abrasive resistant rubber liner.
- B. Double-ply synthetic fabric reinforcement.
- C. Abrasive resistant rubber cover.
- D. Spring steel wire helix support.

**TUFTEX Type LSH-CB Leaf suction hose gets the job done. It is weather and abrasion resistant and built to get the job done. It comes in a variety of I.D. Sizes (6" - 18") and lengths to suit your application needs, including:**

12" X 100" X 6"	16" X 100" X 4"	12" X 10' X 6"	16" X 10' X 4"
16" X 4' X 4"	16" X 12' X 4"	16" X 5' X 4"	AND MORE!

### TUFTEX LSH-CB

Inside Diameter (inches)	6	8	10	12	14	16
Approx. Weight (lbs./ft.)	3.6	4.2	6	8	10	12
Length Required for 90° Bend (inches)	16	18	22	27	31	39
Negative Pressure to Collapse (inches hg.)	27	27	27	27	20	17
Temperature Range	-40°F to +250°F					

\* Tuftex Type LSH-CB is normally available in 20 foot lengths, however this product can be ordered in a range of diameter sizes and lengths.



# TERMS & CONDITIONS OF SALE

## ENTIRE AGREEMENT

The parties agree that there are no understandings, agreements or representations, express or implied, not specified herein, respecting this offer or sale, and that this instrument contains the entire agreement between Seller and Buyer. No prior waiver, course of prior dealing or usage of the trade shall be relevant to supplement or to explain terms used in this agreement.

## CONTROLLING TERMS

All sales are expressly limited to, and the rights and liabilities of the parties shall be governed exclusively by, the terms and conditions herein. In the event any purchase order or offer from Buyer states terms additional to or different from those set forth herein, this document shall be deemed a notice of objection to such additional or different terms and a rejection thereof. Any acknowledgment or shipment of product by Seller to Buyer subsequent to Seller's receipt of a purchase order or offer from Buyer shall not be deemed to be an acceptance by Seller of an offer to contract on the basis of any Buyer's terms and conditions. Receipt and acceptance by Buyer of products shall be conclusive evidence of Buyer's acceptance of the terms and conditions set forth herein as the sole controlling terms and conditions of the contract between Seller and Buyer. Stenographic and clerical errors by Seller are subject to correction.

## ACCEPTANCE OF ORDERS

Seller possesses the exclusive right to accept or refuse any and all orders. No bid, offer, or quotation shall be valid or binding upon Seller, and no order shall be accepted and no sale shall be final, until such bid, offer, quotation, order or sale shall be acknowledged in writing by Seller. See price pages for minimum order amount.

## PRICES

All prices are subject to change without notice and shall be adjusted to the Seller's prices in effect on the date of shipment. Prices reflect standard packaging for domestic shipment only. All prices are in U.S. Dollars. All tooling and equipment Seller produces or acquires for purposes of filling this order shall remain property of Seller. All intellectual property associated with the products shall remain the sole property of Seller.

## DELIVERY

Delivery dates are estimates and not a guaranty of a particular day of delivery and are based on the prompt receipt of all necessary information from the Buyer. Seller shall not be liable for failure or delay in shipping goods hereunder if such failure or delay is due to an act of God, fire, flood, war, labor difficulties, accident, strikes, lockouts, civil disorders, governmental priorities or embargoes, inability or difficulty in obtaining raw materials or supplies at customary terms and prices or any other causes or failure of presumed conditions of any kind whatsoever which are either beyond the reasonable control of the Seller or which would make impracticable the fulfillment of Seller's obligations hereunder. Buyer shall not refuse to accept deliveries so delayed. Seller shall be compensated for any and all extra costs and expenses occasioned by delays attributable to Buyer.

## TRANSPORTATION AND RISK OF LOSS

All shipments are freight collect unless eligible for a freight allowance expressly set forth in current price sheets or on the face hereof. Seller reserves the right to select the method and type of transportation. If a method of transportation other than that selected by Seller is requested by Buyer, excess packing, shipping and transportation charges resulting from compliance with Buyer's request shall be for the Buyer's account. All shipments are F.O.B. point of shipment and risk of loss shall pass to Buyer after products are delivered to carrier. Claims for damage or loss in transit must be filed by Buyer against the carrier.

## CANCELLATION OR MODIFICATION

Buyer may not cancel or modify any order, either in whole or in part, without Seller's prior written consent and then only upon payment to Seller for all applicable costs incurred by Seller, including, without limitation, costs of materials, labor, equipment and supplies, and for lost profits on cancelled or modified orders. Order changes or additions received after original order has been processed will be treated as a new order.

## TAXES

Any taxes which Seller may be required to pay or collect with respect to the sale, delivery or storage of the products, including taxes upon or measured by the receipts from the sales thereof, shall be for the account of Buyer who shall promptly pay the amount thereof to Seller upon demand, or in lieu thereof, furnish Seller with a tax exemption certificate acceptable to the taxing authorities.

## WARRANTY AND DISCLAIMER

Seller warrants that its products shall be free from defects in material and workmanship under normal use and service for a period of 12 months from date of shipment. On equipment and materials furnished by Seller but manufactured by others, Buyer shall accept in lieu of any liability or guarantees on the part of Seller, the benefits of guarantees as are obtained by Seller from such manufacturers or vendors. SELLER MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, EXCEPT AS IS EXPRESSLY SET FORTH HEREIN. Failure by Buyer to object to or reject products or materials delivered hereunder, in writing within 30 days from the date of shipment of the products or materials, shall constitute an acceptance and waiver by Buyer of all claims hereunder on account of alleged errors, shortages, defective workmanship or material, breach of warranty or otherwise, discoverable upon inspection by Buyer.

## LIMITATION OF LIABILITY

Buyer's exclusive remedy on any claim of any kind for any loss or damage arising out of, connected with, or resulting from this contract, or from the performance or breach thereof, or from the design, manufacture, sale, delivery, resale, or repair or use of any products covered by or furnished under the contract, including but not limited to any claim for breach of warranty, negligence, strict liability or other tort, shall be the repair or replacement, F.O.B. Seller's factory, as Seller may elect, of the product or part thereof giving rise to such claim, except that Seller's liability for such repair or replacement shall in no event exceed the contract price allocable to the products or part thereof which give rise to the claim. SELLER SHALL IN NO EVENT BE LIABLE FOR DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

## RETURN OF MATERIAL

Seller's permission must be obtained in writing before any products are returned to it by Buyer. If products are returned without such permission, Buyer authorizes Seller, in addition to such other remedies as it may have, to hold the returned products at Buyer's sole risk and expense. All returns must be freight prepaid by Buyer. Seller will in no event accept the return of any product that upon return is in the opinion of Seller altered, damaged, used, or in other than first class salable condition.

## INDEMNITY

Buyer agrees to indemnify, defend and hold harmless Seller from any claims, loss or damages arising out of or related to Seller's compliance with Buyer's designs, specifications or instructions in the furnishing of products to Buyer, whether based on infringement of patents, copyrights, trademarks or other rights of others, breach of warranty, negligence, strict liability or other tort.

## PAYMENT

All invoices are due net 30 days from date of invoice unless otherwise specified by Seller. If at any time Seller deems itself insecure from any cause whatsoever, including but not limited to adverse changes in Buyer's financial condition or impairment of Buyer's credit, Seller may in its sole discretion stop delivery of goods, require advance payment for goods, and/or declare immediately due all indebtedness owed to Seller including amounts due hereunder. Payments not made when due shall bear interest at the prime rate plus 5% per annum or, if lower, the highest rate legally permissible, until paid. Credit balances will be applied against future purchases only and must be claimed within one year of creation or are waived.

## GOVERNING LAW AND ARBITRATION

Any dealings or contract between the parties shall be governed by and construed in accordance with the law of the state of Ohio, excluding its choice of law provisions. Buyer and Seller agree that any action, suit or proceeding arising hereunder or related hereto may be brought in any state or federal court of competent jurisdiction sitting in the State of Ohio and each party submits to the jurisdiction of such courts. Either Buyer or Seller may elect to have any controversy arising under or in any way related to the subject matter hereof decided by arbitration by a single disinterested arbitrator in Columbus, Ohio, U.S.A., in accordance with the commercial rules of the American Arbitration Association then obtaining. The fee for the arbitrator shall be shared equally by the parties. Each party shall bear its own costs and expenses, including attorneys fees.

Revised 06/01/2008

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CAUTION: USE OF DAMAGED HOSE OR MISAPPLICATION MAY RESULT IN PROPERTY DAMAGE OR SERIOUS PERSONAL INJURY. INSPECT HOSE REGULARLY.

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## WARNING/SAFETY

### WARNING

This catalog is intended to provide general guidance and to assist in making the proper hose selection for an application. While the information in this catalog is believed to be accurate, it is based on specific laboratory tests performed under controlled conditions, calculations and assumptions, and not actual field conditions or applications. As such, it does not represent a guarantee with respect to characteristics or performance of the product in any given application or use. Thermoid hose products are intended for selection and use by trained and skilled purchasers and users. The purchaser or user is obligated to determine the suitability of hose for the specific application or use, and to ascertain that intellectual property rights of third parties are not violated.

Thermoid MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, EXCEPT AS IS EXPRESSLY SET IN ITS TERMS AND CONDITIONS OF SALE. Thermoid SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. See our terms and conditions of sale for further details.

### SAFETY

Hose has a finite life, and is subject to fail without warning. Careful consideration is required when using hose instead of hard piping in any application where failure could cause bodily injury, property damage or other loss. If hose is used, the user is responsible for determining the service life and implementing adequate safety measures including:

- **Regular Inspections and Replacement.** Hose assemblies used in such applications should be inspected at frequent intervals based on the seriousness of the risk. These inspections should include: tube and cover examinations for hardening, brittleness, abrasions, kinks, twisting, crushed areas, cracks, cuts, leaking, blisters, peeling or soft cover, braid exposure and other evidence of damage or deterioration; seepage, leaking, slipped or damaged couplings; and proof testing. Damaged or suspect hose and fittings should be immediately replaced. Hose assemblies should also be replaced at regular intervals, well in advance of the expected service life of the hose.
- **Personal Protective Equipment and Other Safeguards.** Always use proper protective equipment (for example, gloves, eye protection, protective suits, hardhats, etc.) that will protect the user in the event of hose failure or other accident. Systems should be designed so that if a failure does occur, damage and injury to persons or property will be avoided.

This catalog contains important information regarding the Thermoid hose products, including information on the following topics:

- Welding Hose
  - Chemical Hose and Chemical Resistance Chart
  - Steam Hose
  - Use of Hose in Explosive Atmospheres (Static Electricity)
- Please read and understand these and other available guidance before selecting or recommending a hose for your application. Information in this catalog is subject to revision without notice. For the most current product information visit our website at [www.hbdthermoid.com](http://www.hbdthermoid.com) or contact your Thermoid Customer Service Representative.

- **Operator Training.** All operators must be thoroughly trained in the proper care and use of hoses, the hazards of any material conveyed, and accidental release response measures. Failure to exercise proper safety precautions could result in serious bodily injury, death, property damage or other loss from hazardous chemicals, elevated temperature materials, explosive or flammable materials, sparking or static electricity, contamination of material conveyed, impelled couplings, whipping hose, and high pressure or high velocity discharge of materials.

For further information, please refer to “**General Hose Information**” **Pages 26 through 33** that detail various areas, including: RMA Oil Resistance Data, Minimum Hose Radius, Basic Safety Considerations & Warnings, Steam/Chemical and Static Electricity Warnings, Hose Care, Maintenance and Storage, Hose Testing, Hose Coupling Selection Guide as well as other specific product guidance information pages found throughout the Thermoid Industrial Rubber Products Catalog. You may also contact a Thermoid marketing or technical representative for assistance.