tigerflex®

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A GLOBEIUS Company

MADE IN THE USA

Since 1978

KURIYAMA
OF AMERICA, INC.

ISO 9001
QUALITY MS

NAHAD
HOSE SAFETY INSTITUTE
Designated ✓

EDITION 1125

PRODUCTS BY SERIES

REFERENCE PAGES

NOTE: Although every effort has been made to accurately show the color of the Tigerflex™ hoses in this catalog, because of the limitations of four-color process printing some of the colors shown herein may not be exact.

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✚ = Primary Applications
◊ = Secondary Applications

	FOOD GRADE														MATERIAL HANDLING								
	2001	2020	FT	GTF/ GT FE	MILK/ MILK-LT	PF	TAQ	UVF	VLT-SD	VOLT	WBS	WE	WSTF	WT	AMPH-BK	BARK	GC-C	MULCH/ MULCH-LT	STIG	TR1	THT	UBK	UF1
Agricultural dry fertilizers															✚							✚	✚
Agricultural liquid fertilizers																					✚		
Agri-foam systems																							
Air seeder lines															✚							✚	✚
Bulk truck and railcar unloading	◊	✚				✚			✚	✚		◊		◊					◊	◊			◊
Cable and hose bundle protection																							
Concrete resurfacing dust collection																					◊		
Drain lines														◊									
Ducting, ventilation & fume removal				✚				✚													◊		
Dust collection				◊				✚													◊		
Fish suction													◊										
Fly ash collection										✚					✚				✚	✚	✚	✚	✚
Food grade blower and ducting systems				✚			✚	✚															
Food grade liquids - water, beer, wine & juice			✚		✚		✚						✚	✚									
Food grade material handling - heavy duty abrasive	✚	✚							✚	✚	◊	◊		◊									
Food grade material handling - standard duty	◊	◊	◊	◊				◊	◊	◊	✚	✚	✚	✚									
Gold dredging																		◊					
Hydro excavation															✚					✚	✚		
Ice transfer			✚	◊	✚		✚						✚	◊									
Industrial vacuum equipment	◊	◊							✚	✚	◊	◊		◊	✚				✚	✚	✚	✚	✚
Insulation blowing																							
Irrigation lines																							
Lawn and leaf collection																✚	◊	◊					
Liquid manure handling																							
Marine bilge discharge																							
Marine plumbing																							
Material chutes	◊	◊		◊		◊		◊	✚	✚	◊	◊		◊	◊				✚	◊	✚	◊	✚
Material handling - heavy duty abrasive	✚	✚				✚			✚	✚	◊	◊		◊	✚		✚		✚	✚	◊	✚	✚
Material handling - standard duty	◊	◊	◊	◊				◊	◊	◊	✚	✚		✚	◊	✚	✚	✚	◊	✚	✚	◊	◊
Material handling - light duty				✚				◊			◊	◊		◊							◊		
Milk and dairy product transfer			✚		✚																		
Milling machine scrap recovery						✚			✚	✚					✚				✚	✚	✚	✚	✚
Mining applications (MSHA)																							
Mulch, bark, wood chips, other surfacing materials																✚	✚	✚					
Oil skimming																							
Oil sluries															◊								
Oil suction		◊				◊			◊	◊					◊				◊			◊	◊
Pharmaceutical product transfer	✚			✚				✚		✚	✚	✚	◊	✚									
Plastic processing equipment	✚	◊	◊	◊		✚		◊	✚	✚	✚	✚		✚								◊	◊
Pneumatic conveying systems	✚		◊						✚	✚	✚	✚		✚									
Poultry processing			✚		◊									✚									
Pumps, rental and construction dewatering																					◊		
Pumps, trash																							
Recreational vehicle (RV) pluming																							
Rock dusting																					◊		
Rock, gravel, sand and crushed concrete vacuuming						◊									✚				✚	✚	✚	✚	✚
Septic and wastewater handling																					◊		
Sewer truck boom hose															✚				◊	✚	✚	◊	◊
Shot blast recovery															✚				✚	✚		✚	✚
Slurry handling															✚					✚	✚		
Soil, seed and compost delivery																✚	✚	✚					
Spa, pool and hot tub pluming																							
Suction and discharge		✚					✚		✚				✚										
Wand hose																◊				✚		◊	
Water suction - heavy duty			✚				✚						✚		◊				◊	◊			
Water suction - standard duty			◊		✚		◊				◊		◊	◊									

CAUTION NOTE: This application guide provides information on typical hose applications. Actual results may vary due to variances in the operating conditions involving temperature, chemical resistance, working pressure, etc. Please refer to the specifications printed for each product in this catalog, along with information regarding chemical resistance and our Cautionary Statement, to better insure successful results.

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	MTRL. HANDLING					DUCTING				LIQUID SUCTION														
	UF2	UFC	UV2	UV3	UVPE	CG/ CG-SL	GT/ GTG	LK/ LKC	UV1/ UVE	BW	CF	F/G/S	H/J/K	MH	OV	SPA	TG/TY/ TRED/ TBLU	TSD	W	WG	WH/ SH	WOR/ ORV	WST
Agricultural dry fertilizers		✚	✚								◊	◊	◊											
Agricultural liquid fertilizers										◊	◊	◊	✚				✚	✚	◊	◊				
Agri-foam systems											◊	◊	◊				◊	✚						
Air seeder lines		✚	✚								◊	◊	✚											
Bulk truck and railcar unloading	◊																							
Cable and hose bundle protection						✚	◊	◊													◊			
Concrete resurfacing dust collection			◊						✚															
Drain lines						◊	✚			◊		◊	✚	✚		✚			◊	◊	✚			
Ducting, ventilation & fume removal						◊	✚	◊	✚															
Dust collection			✚	✚		◊	✚	✚	✚												✚			
Fish suction										◊									✚	✚				✚
Fly ash collection	✚																							
Food grade blower and ducting systems																								
Food grade liquids - water, beer, wine & juice																								
Food grade material handling - heavy duty abrasive																								
Food grade material handling - standard duty																								
Gold dredging										◊									✚	✚	✚			◊
Hydro excavation																								
Ice transfer										◊	◊								◊					
Industrial vacuum equipment	✚	✚		◊	◊																			
Insulation blowing			◊	◊			◊		✚										◊	◊	◊			
Irrigation lines										◊	✚	✚	✚				✚	◊	◊	◊				✚
Lawn and leaf collection							◊	✚	◊												◊			
Liquid manure handling											◊						✚	✚						
Marine bilge discharge										◊	◊		◊	✚			✚	◊			◊			
Marine plumbing														✚										
Material chutes	✚	✚	✚	◊	◊		◊	◊	✚						✚									
Material handling - heavy duty abrasive	✚	✚	◊	✚	✚										✚									
Material handling - standard duty	◊	◊	✚	◊	✚		◊	◊	✚		✚				◊				◊	◊				
Material handling - light duty							✚	✚	◊												◊			
Milk and dairy product transfer																								
Milling machine scrap recovery	✚	✚		✚	◊										◊									
Mining applications (MSHA)						✚							✚											
Mulch, bark, wood chips, other surfacing materials							◊	◊																
Oil skimming															◊							✚		
Oil sluries															◊							✚		
Oil suction	◊	◊	◊	◊	◊										✚							✚		
Pharmaceutical product transfer																								
Plastic processing equipment		✚		✚	✚																			
Pneumatic conveying systems																								
Poultry processing																								
Pumps, rental and construction dewatering										✚	✚	✚	✚				✚	✚	✚	✚				✚
Pumps, trash										✚	✚	✚	✚				✚	✚	✚	✚				✚
Recreational vehicle (RV) pluming														✚							◊			
Rock dusting												◊	✚							✚				
Rock, gravel, sand and crushed concrete vacuuming	✚			◊	◊																			
Septic and wastewater handling										◊	◊						✚	✚						
Sewer truck boom hose	◊																							
Shot blast recovery	✚	✚		◊																				
Slurry handling										◊	✚	◊						◊	✚		◊			
Soil, seed and compost delivery								◊																
Spa, pool and hot tub pluming																✚								
Suction and discharge																		✚						✚
Wand hose			✚					◊	◊															
Water suction - heavy duty	◊									◊	✚	✚	◊					✚	✚	✚				✚
Water suction - standard duty										✚	◊	◊	✚	◊	◊	◊	✚	◊	◊	◊	✚	◊	◊	

CAUTION NOTE: This application guide provides information on typical hose applications. Actual results may vary due to variances in the operating conditions involving temperature, chemical resistance, working pressure, etc. Please refer to the specifications printed for each product in this catalog, along with information regarding chemical resistance and our Cautionary Statement, to better insure successful results.

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WT™ Series

Food Grade, PVC Material Handling Hose

GENERAL APPLICATIONS

- Food grade liquids such as potable water, beer, wine and juice
- Food grade material handling – standard duty
- Pharmaceutical product transfer
- Plastic processing equipment
- Pneumatic conveying equipment
- Poultry processing

CONSTRUCTION

PVC tube with rigid PVC helix

MADE IN THE USA

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

FEATURES AND ADVANTAGES

- **Superior Product Design –** Tigerflex™ WT™ series hoses are an industry standard for pneumatic material handling due to our specially engineered compound, innovative design and uncompromising quality control. Provides the ideal combination of light weight, flexibility and durability.
- **Food Grade Materials –** Hose complies with applicable FDA(03), 3-A(01) and USDA(12) requirements.
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **Convoluted Outer Cover –** Provides increased hose flexibility.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
WT100	1	25.4	1.30	33.0	55	30	28	28	2	200/100/50	0.21
WT125	1 1/4	31.7	1.60	40.6	50	25	28	28	2	200/100/50	0.28
WT150	1 1/2	38.1	1.92	48.8	50	25	28	28	3	200/100/50	0.35
WT200	2	50.8	2.40	61.0	40	20	28	24	4	200/100/50	0.56
WT225	2 1/4	57.2	2.74	69.6	40	20	28	24	4 1/2	200/100/50	0.65
WT250	2 1/2	63.5	2.99	75.9	40	20	28	24	5	200/100/50	0.77
WT300	3	76.2	3.64	92.5	40	20	28	24	6	200/100/50	1.10
WT350	3 1/2	88.9	4.21	107.0	35	18	28	24	8	200/100/50	1.48
WT400	4	101.6	4.72	120.0	35	18	24	22	10	200/100/50	1.80
WT500	5	127.0	5.74	145.8	30	15	24	22	16	100/50/20	2.34
WT600	6	152.4	6.91	175.5	30	15	24	22	18	100/50/20	3.70
WT800	8	203.2	8.97	227.8	20	10	20	18	36	50/20	5.53
WT45M	1.77	45.0	2.09	53.0	45	25	28	24	4	100/50	0.44
WT57M	2.24	57.0	2.68	68.0	40	20	28	24	4 1/2	100/50	0.64
WT60M	2.36	60.0	2.80	71.1	40	20	28	24	4 1/2	100/50	0.71

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

3A (01), **BSE/TSE** (02), **FDA** (03), **Phthalate Free** (10), **RoHS** (11), **USDA** (12)

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WE™ Series

Food Grade, PVC Material Handling Hose with Grounding Wire

GENERAL APPLICATIONS

- Food grade material handling - standard duty
- Pharmaceutical product transfer
- Plastic processing equipment
- Pneumatic conveying equipment

CONSTRUCTION

PVC tube with rigid PVC helix and grounding wire

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Superior Product Design –** Tigerflex™ WE™ series hoses are an industry standard for pneumatic material handling, due to our specially engineered compound, innovative design and uncompromising quality control. Provides the ideal combination of light weight, flexibility and durability.
- **Food Grade Materials –** Hose complies with applicable FDA(03), 3-A(01) and USDA(12) requirements.
- **Grounding Wire –** Multi-strand wire helps prevent the build-up of static electricity for added safety and to help keep material flowing smoothly. It's embedded within the rigid helix to prevent contamination of transferred materials.
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **Convoluted Outer Cover –** Provides increased hose flexibility.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in)	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F	at 68°F		
WE100	1	25.4	1.30	33.0	55	30	28	28	2	200/100/50	0.21
WE125	1 1/4	32.0	1.65	42.0	50	25	28	28	2	200/100/60/50	0.33
WE150	1 1/2	38.1	1.93	49.0	50	25	28	28	3	200/100/60/50	0.43
WE200	2	50.8	2.48	63.0	40	20	28	24	4	200/100/60/50	0.58
WE225	2 1/4	57.2	2.80	71.0	40	20	28	24	4 1/2	200/100/60/50	0.65
WE250	2 1/2	63.5	3.07	76.5	40	20	28	24	5	200/100/60/50	0.89
WE300	3	76.2	3.64	91.5	40	20	28	24	6	200/100/60/50	1.25
WE350	3 1/2	88.9	4.27	108.5	35	18	28	24	8	200/100/60/50	1.55
WE400	4	101.6	4.72	120.0	35	18	24	20	10	200/100/60/50	1.93
WE500	5	127.0	5.74	146.0	30	15	24	20	16	60/50/20	2.40
WE600	6	152.4	6.81	175.5	30	15	24	20	18	60/50/20	3.70
WE800	8	204.8	9.06	230.0	20	10	20	18	36	20	5.62
WE45M	1.77	45.0	2.20	55.8	45	25	28	24	4	60	0.46
WE57M	2.24	57.0	2.76	70.0	40	20	28	24	4 1/2	60	0.64
WE60M	2.36	60.0	2.80	71.1	40	20	28	24	4 1/2	100/50	0.71

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

CAUTION: Grounding wire is designed to help dissipate static charge when extracted and connected to ground. Hose is not to be used in combustible situations unless it has been determined by the end user the application is not sufficient to result in propagating brush discharge.

COMPLIANCES *(for details see page 87)*

BSE/TSE (02), **FDA** (03), **Phthalate Free** (10), **RoHS** (11), **USDA** (12)

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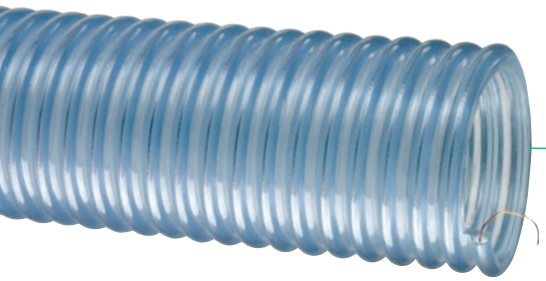

2001™ Series

Heavy-Duty Food Grade, Polyurethane Lined, Material Handling Hose with Grounding Wire

GENERAL APPLICATIONS

- Food grade material handling - heavy duty abrasive
- Pharmaceutical product transfer
- Plastic processing equipment
- Pneumatic conveying equipment

CONSTRUCTION

PVC cover with polyurethane liner, rigid PVC helix and grounding wire

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Extra Thick Abrasion Resistant Polyurethane Liner –** Designed for dry applications where severe abrasion is a factor. Provides for longer hose life and lower operating costs versus rubber or PVC hoses.
- **Food Grade Materials –** Hose Cover complies with applicable FDA(03) requirements. Hose Liner (Product Contact Surface) complies with applicable FDA(04) requirements and USDA(12) requirements.
- **Grounding Wire –** Multi-strand wire helps prevent the build-up of static electricity for added safety and to help keep material flowing smoothly. It's embedded within the rigid helix to prevent contamination of transferred materials.
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **Convoluted Outer Cover –** Provides increased hose flexibility.
- **Oil Resistant Polyurethane Liner –** Resists most animal and petroleum based oils.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in)	Standard Length	Weight
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F	at 68°F	(ft)	(lbs/ft)
2001-150	1 1/2	38.1	1.88	47.8	50	25	Full	28	6	60	0.48
2001-200	2	50.8	2.44	62.0	40	20	Full	28	7	60	0.67
2001-250	2 1/2	63.5	3.12	77.2	40	20	Full	28	8	60	0.92
2001-300	3	76.2	3.70	94.1	40	20	Full	28	9	60	1.35
2001-400	4	101.6	4.80	122.0	35	18	Full	28	15	60/20	2.17
2001-500	5	127.0	5.81	147.6	35	18	28	25	23	60/20	2.77
2001-600	6	152.4	6.93	176.0	30	15	28	25	26	60/20	3.90
2001-700	7	177.8	8.08	205.2	30	15	28	25	30	20	5.20
2001-800	8	203.2	9.28	235.8	30	15	28	25	36	20	6.65

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

CAUTION: Grounding wire is designed to help dissipate static charge when extracted and connected to ground. Hose is not to be used in combustible situations unless it has been determined by the end user the application is not sufficient to result in propagating brush discharge.

COMPLIANCES *(for details see page 87)*

BSE/TSE (02), **FDA** (03), **Phthalate Free** (10), **RoHS** (11), **USDA** (12)

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VOLTBUSTER™

VOLT™ Series

Heavy-Duty Food Grade, Charge Reducing, Polyurethane Material Handling Hose with Grounding Wire

MADE IN THE USA

GENERAL APPLICATIONS

- Bulk truck and railcar unloading
- Fly ash collection
- Food grade material handling – heavy duty abrasive
- Milling machine scrap recovery
- Pharmaceutical product transfer
- Plastic processing equipment
- Pneumatic conveying equipment

CONSTRUCTION

Charge reducing polyurethane tube, rigid helix and grounding wire (patent pending)

WINNER THE VAALER AWARD BY CHEMICAL PROCESSING

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

FEATURES AND ADVANTAGES

- **Superior Static Protection! –** A properly grounded Voltbuster™ hose will not retain an electrostatic charge sufficient to create a propagating brush discharge. Hose material, using the embedded grounding wire, shows a charge decay time constant of < 1 second, based on independent lab testing.
- **Food Grade Materials –** Hose tube complies with FDA(05) requirements. Grounding wire embedded in external helix to prevent material contamination.
- **Extra Thick Abrasion Resistant Double-Ply Polyurethane Tube –** Provides for longer hose life & lower operating costs versus rubber or PVC hoses.
- **Fabric Reinforcement –** Designed with high tensile strength, food grade FDA(06), polyester yarn jacket to handle both suction, and higher pressure discharge applications.
- **Transparent Construction –** "See-the-flow". Allows for visual conformation of material flow.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.
- **Easy Slide Helix –** Rigid helix design protects hose from wear; allows hose to slide easily over rough surfaces. Easy to handle.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
VOLT150	1 1/2	38.1	1.87	47.5	40	20	Full	28	2	100/60	0.31
VOLT200	2	51.1	2.52	63.9	40	20	Full	28	6	100/60	0.61
VOLT250	2 1/2	63.5	2.96	75.2	40	20	Full	28	7	100	0.76
VOLT300	3	76.2	3.60	91.4	40	20	Full	28	9	100/60/20	0.91
VOLT400	4	101.6	4.69	121.0	35	17	28	25	12	100/60/20	1.70
VOLT500	5	127.0	5.75	146.8	35	17	28	25	14	60/20	2.13
VOLT600	6	153.4	6.81	173.2	30	15	25	20	16	60/20	2.53
VOLT800	8	203.5	8.76	223.3	30	15	25	20	18	20	3.30
VOLT1000	10	255.5	11.04	280.5	25	10	22	16	25	20	4.99

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

CAUTION: Grounding wire is designed to help dissipate static charge when extracted and connected to ground. Hose is not to be used in combustible situations unless it has been determined by the end user the application is not sufficient to result in propagating brush discharge.

COMPLIANCES *(for details see page 87)*

BSE/TSE (02), **FDA** (05), **FDA** (06), **Phthalate Free** (10), **RoHS** (11)

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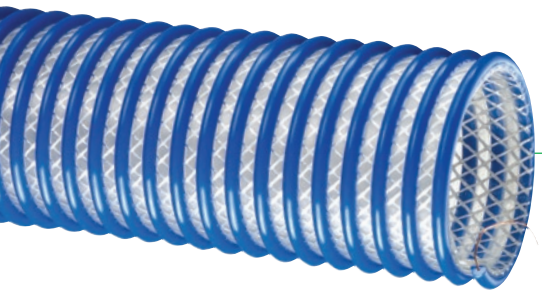

2020™ Series

Heavy-Duty Food Grade, Polyurethane, Fabric Reinforced, Material Handling Hose with Grounding Wire

GENERAL APPLICATIONS

- Bulk truck and railcar unloading
- Food grade material handling – heavy duty abrasive
- Suction and discharge

CONSTRUCTION

Extra thick double-ply polyurethane tube, polyester fabric reinforcement, rigid PVC helix and grounding wire

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Extra Thick Abrasion Resistant Double-Ply Polyurethane Tube –** Designed for dry applications where severe abrasion is a factor. Provides for longer hose life and lower operating costs versus rubber or PVC hoses.
- **Food Grade Materials –** Hose Liner (Product Contact Surface) complies with applicable FDA (04) and USDA(12) requirements.
- **Fabric Reinforcement –** Designed with high tensile strength, food grade(05), polyester yarn jacket to handle both suction, and higher pressure discharge applications.
- **Grounding Wire –** Multi-strand wire helps prevent the build-up of static electricity for added safety and to help keep material flowing smoothly. It's embedded within the rigid helix to prevent contamination of transferred materials.
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.
- **Easy Slide Helix –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.
- **Oil Resistant Polyurethane Tube –** Resists most animal and petroleum based oils.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in)	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F	at 68°F		
2020-200	2	50.1	2.65	67.5	75	40	Full	28	9	100	0.94
2020-300	3	76.2	3.78	96.0	70	35	Full	28	10	100/50/20	1.20
2020-400	4	101.6	4.84	123.0	65	30	Full	28	12	100/50/20	1.60
2020-500	5	127.0	5.79	147.0	45	22	28	25	14	50/25/20	2.45
2020-600	6	152.4	6.93	176.0	40	22	28	25	16	50/25/20	2.86
2020-800	8	206.0	9.21	234.0	30	15	24	20	22	20	4.69

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

CAUTION: Grounding wire is designed to help dissipate static charge when extracted and connected to ground. Hose is not to be used in combustible situations unless it has been determined by the end user the application is not sufficient to result in propagating brush discharge.

COMPLIANCES *(for details see page 87)*

BSE/TSE (02), **FDA** (03), **Phthalate Free** (10), **RoHS** (11), **USDA** (12)

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VOLTBUSTER™

VLT-SD™ Series

Heavy-Duty Food Grade, Charge Reducing Polyurethane, Fabric Reinforced, Material Handling Hose with Grounding Wire

GENERAL APPLICATIONS

- Bulk truck and railcar unloading
- Food grade material handling – heavy duty abrasive
- Milling machine scrap recovery
- Plastic processing equipment
- Pneumatic conveying equipment
- Suction and discharge

MADE IN THE USA

CONSTRUCTION

Charge reducing polyurethane tube, polyester fabric reinforcement, rigid helix and grounding wire (patent pending)

WINNER THE VAALER AWARD BY CHEMICAL PROCESSING

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

FEATURES AND ADVANTAGES

- **Superior Static Protection! –** A properly grounded Voltbuster™ hose will not retain an electrostatic charge sufficient to create a propagating brush discharge. Hose material, using the embedded grounding wire, shows a charge decay time constant of < 1 second, based on independent lab testing.
- **Food Grade Materials –** Hose tube complies with FDA(05) requirements. Grounding wire embedded in external helix to prevent material contamination.
- **Extra Thick Abrasion Resistant Double-Ply Polyurethane Tube –** Provides for longer hose life and lower operating costs versus rubber or PVC hoses.
- **Fabric Reinforcement –** Designed with high tensile strength, food grade FDA(06), polyester yarn jacket to handle both suction, and higher pressure discharge applications.
- **Transparent Construction –** "See-the-flow". Allows for visual conformation of material flow.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.
- **Easy Slide Helix –** Rigid helix design protects hose from wear; allows hose to slide easily over rough surfaces. Easy to handle.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
VLT-SD200	2	51.1	2.67	67.0	75	40	Full	28	9	100/50	0.77
VLT-SD300	3	77.0	3.78	96.0	70	35	Full	28	12	100/20	1.22
VLT-SD400	4	102.2	4.84	123.0	65	30	Full	28	13	100/60/20	1.85
VLT-SD500	5	128.0	5.79	152.0	45	22	28	25	14	60/20	2.43
VLT-SD600	6	153.4	6.93	177.4	40	22	28	25	17	60/20	3.05
VLT-SD800	8	206.0	9.25	235.0	35	25	26	20	23	20	4.70

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

CAUTION: Grounding wire is designed to help dissipate static charge when extracted and connected to ground. Hose is not to be used in combustible situations unless it has been determined by the end user the application is not sufficient to result in propagating brush discharge.

COMPLIANCES *(for details see page 87)*

BSE/TSE (02), **FDA** (05), **Phthalate Free** (10), **RoHS** (11)

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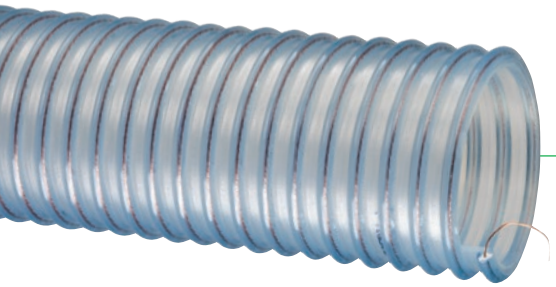

Plas-T-Flow™

PF™ Series

Heavy-Duty Food Grade, Polyurethane, Material Handling Hose with Grounding Wire

GENERAL APPLICATIONS

- Food grade material handling - heavy duty abrasive
- Pharmaceutical product transfer
- Plastic processing equipment
- Pneumatic conveying equipment

CONSTRUCTION

Polyurethane tube with rigid PVC helix and grounding wire

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Extra Thick Single-Ply Abrasion Resistant Polyurethane Tube –** Our thickest single-ply polyurethane tube! Designed for dry applications where severe abrasion is a factor. Provides longer life and lower operating costs versus rubber hoses.
- **Food Grade Materials –** Hose Liner (Product Contact Surface) complies with applicable FDA(04) and USDA (10)
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **Grounding Wire –** Multi-strand wire helps prevent the build-up of static electricity for added safety and to help keep material flowing smoothly. It's embedded within the rigid helix to prevent contamination of transferred materials.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.
- **Easy Slide Helix –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.
- **Oil Resistant Polyurethane Tube –** Resists most animal and petroleum based oils.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in)	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F	at 68°F		
PF300	3	76.2	3.39	86.0	35	15	28	25	10	100/20	1.50
PF400	4	101.6	4.84	123.0	30	15	28	25	12	100/50/20	1.96
PF500	5	127.0	5.87	149.0	30	15	25	22	13	100/50/20	2.50
PF600	6	152.4	6.91	175.5	30	15	25	22	16	100/50/20	3.18

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

CAUTION: Grounding wire is designed to help dissipate static charge when extracted and connected to ground. Hose is not to be used in combustible situations unless it has been determined by the end user the application is not sufficient to result in propagating brush discharge.

COMPLIANCES *(for details see page 87)*

BSE/TSE (02), **FDA** (03), **FDA** (05), **Phthalate Free** (10), **RoHS** (11), **USDA** (12)

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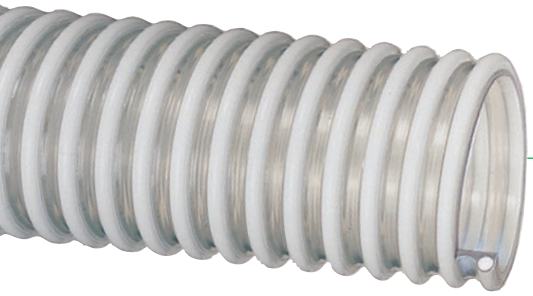

WBS™ Series

Food Grade, PVC Material Handling Hose with Charge Reducing Additives

GENERAL APPLICATIONS

- Food grade material handling – standard duty
- Pharmaceutical product transfer
- Plastic processing equipment
- Pneumatic conveying equipment

CONSTRUCTION

Charge reducing PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Abrasion Resistant PVC Tube –** Formulated from highly durable PVC compounds for increased abrasion resistance.
- **Food Grade Materials –** Hose complies with applicable FDA(03) requirements. Hose complies with applicable USDA(12) requirements.
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **Convoluted Outer Cover –** Provides increased hose flexibility.
- **Charge Reducing Tube –** Specially formulated to help prevent the build-up of static electricity for added safety and to help keep material flowing smoothly. Great for "nuisance" static that arises when transferring materials such as plastic pellets at moderate speeds.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in)	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F	at 68°F		
WBS150	1 1/2	38.1	1.92	48.8	50	25	28	28	3	100	0.35
WBS200	2	50.8	2.40	61.0	40	20	28	24	4	100	0.56
WBS250	2 1/2	63.5	2.99	75.9	40	20	28	24	5	100	0.77
WBS300	3	76.2	3.64	92.5	40	20	28	24	6	100	1.10
WBS400	4	101.6	4.76	121.0	35	20	24	20	10	100/50	1.92

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.
- The effectiveness of static dissipation is application-dependent, based upon humidity, material conveyed, and length of hose.

CAUTION: Hose is not to be used in combustible situations unless it has been determined by the end user the application is not sufficient to result in propagating brush discharge.

COMPLIANCES *(for details see page 87)*

BSE/TSE (02), **FDA** (03), **Phthalate Free** (10), **RoHS** (11), **USDA** (12)

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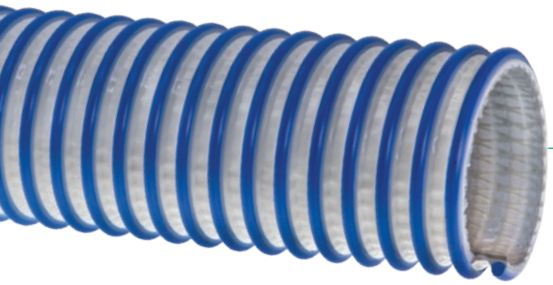

Tiger™ Aqua
TAQ™ Series
Potable Water Suction and Discharge Hose

GENERAL APPLICATIONS

- Transfer of potable water in residential, oilfield, airport and marine (ship) applications
- Ice transfer
- Food grade liquids such as beer, wine, and juice

CONSTRUCTION

Double-ply PVC tube, polyester fabric reinforcement and rigid PVC helix

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **NSF Listed Liner –** Hose liner material certified under NSF/ANSI/CAN 61 for use in potable water applications. Please refer to NOTE below for official NSF listing.
- **Food Grade Materials –** Hose complies with applicable FDA(03) requirements.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.
- **Opaque Construction –** Solid white cover reduces appearance of staining from conveyed materials, blocks out UV, reducing instances of algae growth.
- **Fabric Reinforcement –** Designed with a high tensile strength, food grade(05), polyester yarn jacket to handle suction and pressure applications.
- **Easy Slide Helix –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in)	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F	at 68°F		
TAQ150	1 1/2	38.1	1.95	49.5	110	70	FULL	28	2 1/2	100	0.42
TAQ200	2	50.8	2.60	66.0	100	65	FULL	28	4	100	0.74
TAQ300	3	76.2	3.62	92.0	100	50	FULL	28	6	100	1.13
TAQ400	4	101.6	4.76	121.0	75	37	FULL	28	8	100	1.74
TAQ600	6	152.4	7.17	182.1	70	35	28	25	13	100/20	3.88
TAQ800	8	203.2	9.21	234.0	60	30	26	20	18	20	5.57

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.
- NSF Liner Material Listing: https://KOA.link/NSF-Liner-Material
- Liner manufactured using NSF certified materials for applications requiring compliance with potable water safety standards. While the complete hose is not listed, it meets the same extraction criteria established under NSF61 and suitable for use where NSF61-compliant materials are specified in lieu of full hose certification.

COMPLIANCES *(for details see page 87)*

BSE/TSE (02), **FDA** (03), **FDA** (05), **Phthalate Free** (10), **RoHS** (11)

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WSTF™ Series

Food Grade, PVC, Fabric Reinforced, Liquid Suction & Discharge Hose

GENERAL APPLICATIONS

- Food grade liquids such as wine, beer and juice
- Ice transfer
- Suction and discharge

CONSTRUCTION

Double-ply PVC tube, polyester fabric reinforcement and rigid PVC helix

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Food Grade Materials –** Hose complies with applicable FDA(03) and 3-A(01) requirements. Hose complies with applicable USDA(12) requirements.
- **Fabric Reinforcement –** Designed with high tensile strength, food grade, FDA(06) polyester yarn jacket to handle both suction, and higher pressure discharge applications.
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **Easy Slide Helix –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
WSTF150	1 1/2	38.1	1.95	49.5	110	70	Full	28	2 1/2	100	0.42
WSTF200	2	50.8	2.60	66.0	100	65	Full	28	4	100	0.74
WSTF300	3	76.2	3.62	92.0	100	50	Full	28	6	100/20	1.13
WSTF400	4	101.6	4.76	121.0	75	37	Full	28	8	100/20	1.74

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.
- For non food grade applications, refer to WST Series.

COMPLIANCES *(for details see page 87)*

3A (01), **BSE/TSE** (02), **FDA** (03), **FDA** (06), **Phthalate Free** (10), **RoHS** (11), **USDA** (12)

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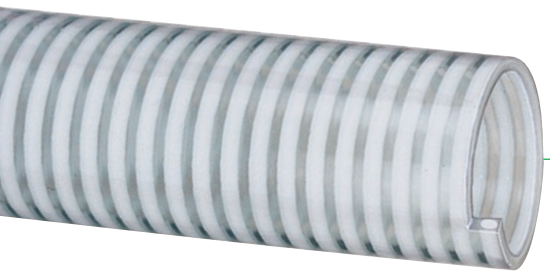

MILK™ Series

Food Grade, PVC, Liquid Suction Hose

GENERAL APPLICATIONS

- Food grade liquids such as milk, beer, wine and juice
- Ice transfer
- Milk and dairy product transfer

CONSTRUCTION

PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Precision Controlled ID and OD Dimensions –** Facilitates insertion of sanitary fittings.
- **Food Grade Materials –** Hose complies with applicable FDA(03) and 3-A(01) requirements. Hose complies with applicable USDA(12) requirements.
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **Smooth Outer Cover –** Provides increased pressure rating and smooth surface for banding.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in)	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F	at 68°F		
MILK150	1 1/2	38.1	1.79	45.5	75	50	Full	26	4	100	0.45
MILK200	2	50.8	2.33	59.2	75	50	28	25	6	100	0.63
MILK250	2 1/2	63.5	2.87	73.0	55	40	28	24	10	100	0.81
MILK300	3	76.2	3.42	86.9	55	40	28	24	11	100	1.18

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

3A (01), **BSE/TSE** (02), **FDA** (03), **Phthalate Free** (10), **RoHS** (11), **USDA** (12)

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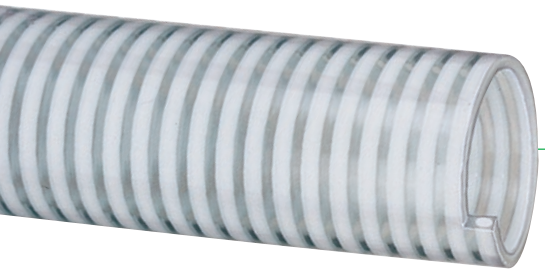

MILK-LT™ Series

Low Temperature, Food Grade, PVC, Liquid Suction Hose

GENERAL APPLICATIONS

- Food grade liquids such as milk, beer, wine and juice
- Ice transfer
- Milk and dairy product transfer

CONSTRUCTION

PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Precision Controlled ID and OD Dimensions –** Facilitates insertion of sanitary fittings.
- **Food Grade Materials –** Hose complies with applicable FDA(03) and 3-A(01) requirements. Hose complies with applicable USDA(12) requirements.
- **"Cold-Flex" Materials –** Hose remains flexible in severe sub-zero temperatures.
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **Smooth Outer Cover –** Provides increased pressure rating and smooth surface for banding.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in)	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F	at 68°F		
MILK-LT150	1 1/2	38.1	1.79	45.5	75	50	Full	26	4	100	0.45
MILK-LT200	2	50.8	2.33	59.2	75	50	28	25	5	200/100	0.65
MILK-LT250	2 1/2	63.5	2.87	73.0	55	40	28	24	8	100	0.84
MILK-LT300	3	76.2	3.42	86.9	55	40	28	24	11	100	1.20

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

3A (01), **BSE/TSE** (02), **FDA** (03), **Phthalate Free** (10), **RoHS** (11), **USDA** (12)

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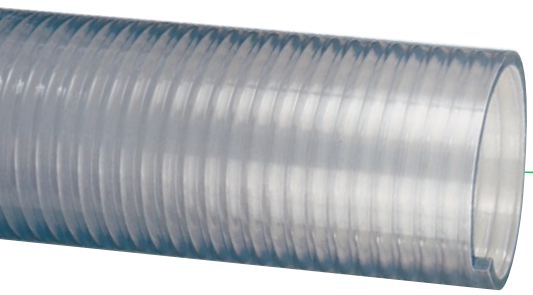

FT™ Series

Heavy-Duty, Food Grade, PVC, Suction Hose

GENERAL APPLICATIONS

- Food grade liquids such as milk, beer, wine and juice
- Ice transfer
- Milk and dairy product transfer
- Poultry processing

CONSTRUCTION

PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Food Grade Materials –** Hose complies with applicable FDA(03) and 3-A(01) requirements. Hose complies with applicable USDA(12) requirements.
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **Smooth Outer Cover –** Provides increased pressure rating and smooth surface for banding.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in)	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F	at 68°F		
FT075	3/4	19.0	0.94	24.0	115	75	Full	28	3	200/100	0.17
FT100	1	25.5	1.28	32.5	100	70	Full	28	3	200/100	0.24
FT125	1 1/4	32.0	1.56	39.6	90	65	Full	28	4	200/100	0.44
FT150	1 1/2	38.1	1.80	46.5	85	60	Full	28	6	200/100	0.50
FT200	2	50.8	2.36	60.0	85	60	Full	26	8	200/100	0.71
FT250	2 1/2	63.5	2.88	73.2	65	45	Full	26	10	200/100	0.94
FT300	3	76.2	3.42	86.9	55	40	Full	24	11	200/100	1.14
FT400	4	101.6	4.51	114.6	50	35	Full	24	18	200/100/60	1.91
FT500	5	127.0	5.51	140.0	40	25	28	23	28	100/20	2.41
FT600	6	153.4	6.59	167.4	30	20	28	15	48	20	3.28
FT800	8	204.7	8.85	224.7	25	15	28	10	60	20	5.67

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

3A (01), **BSE/TSE** (02), **FDA** (03), **Phthalate Free** (10), **RoHS** (11), **USDA** (12)

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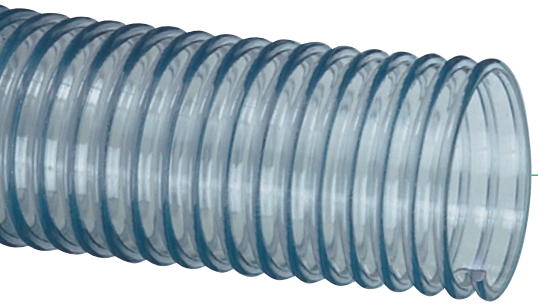

GTF™ Series

Food Grade, PVC, Ducting/Light Material Handling Hose

GENERAL APPLICATIONS

- Ducting, ventilation and fume removal
- Food grade blower and ducting systems
- Material handling – light duty
- Pharmaceutical product transfer

CONSTRUCTION

PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Food Grade Materials –** Hose complies with applicable FDA(03) and 3-A(01) requirements. Hose complies with applicable USDA(12) requirements.
- **Grounding Wire –** Multi-strand wire helps prevent the build-up of static electricity for added safety and to help keep material flowing smoothly. It's embedded within the rigid helix to prevent contamination of transferred materials.
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **Easy Slide Helix –** Exposed rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in)	Standard Length	Weight
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F	at 68°F	(ft)	(lbs/ft)
GTF150	1 1/2	38.1	1.82	46.2	20	7	22	14	1	100	0.23
GTF200	2	50.8	2.39	60.8	15	6	21	12	2	100	0.30
GTF250	2 1/2	63.5	2.89	73.4	10	5	19	10	2	100	0.39
GTF300	3	76.2	3.46	87.9	10	5	18	10	3	100/50	0.50
GTF400	4	101.6	4.50	114.3	8	4	13	7	3	100/50	0.77
GTF600	6	152.4	6.54	166.1	6	3	7	5	6	50	1.08
GTF800	8	203.2	8.59	218.2	4	2	5	3	8	50	1.74

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

3A (01), **BSE/TSE** (02), **FDA** (03), **Phthalate Free** (10), **RoHS** (11), **USDA** (12)

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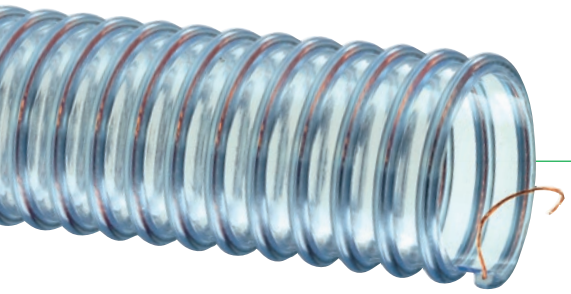

GTFE™ Series

Food Grade, PVC, Ducting/Light Material Handling Hose with Grounding Wire

GENERAL APPLICATIONS

- Ducting, ventilation and fume removal
- Food grade blower and ducting systems
- Material handling – light duty
- Pharmaceutical product transfer

CONSTRUCTION

PVC tube with rigid PVC helix and grounding wire

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Food Grade Materials –** Hose complies with applicable FDA(03) and 3-A(01) requirements. Hose complies with applicable USDA(12) requirements.
- **Grounding Wire –** Multi-strand wire helps prevent the build-up of static electricity for added safety and to help keep material flowing smoothly. It's embedded within the rigid helix to prevent contamination of transferred materials.
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **Easy Slide Helix –** Exposed rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in)	Standard Length	Weight
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F	at 68°F	(ft)	(lbs/ft)
GTFE150	1 1/2	38.1	1.82	46.2	20	7	22	14	1	100	0.23
GTFE200	2	50.8	2.39	60.8	15	6	21	12	2	100	0.30
GTFE250	2 1/2	63.5	2.89	73.4	10	5	19	10	2	100	0.39
GTFE300	3	76.2	3.46	87.9	10	5	18	10	3	100/50	0.50
GTFE400	4	101.6	4.50	114.3	8	4	13	7	3	100/50	0.77
GTFE600	6	152.4	6.54	166.1	6	3	7	5	6	50	1.08
GTFE800	8	203.2	8.59	218.2	4	2	5	3	8	50	1.74

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

CAUTION: Grounding wire is designed to help dissipate static charge when extracted and connected to ground. Hose is not to be used in combustible situations unless it has been determined by the end user the application is not sufficient to result in propagating brush discharge.

COMPLIANCES *(for details see page 87)*

3A (01), **BSE/TSE** (02), **FDA** (03), **Phthalate Free** (10), **RoHS** (11), **USDA** (12)

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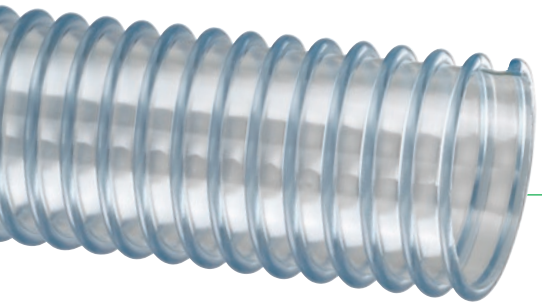

Urevac™ Food UVF™ Series

Food Grade, Polyurethane Ducting/Light Material Handling Hose

GENERAL APPLICATIONS

- Ducting, ventilation and fume removal
- Dust collection
- Food grade blower and ducting systems
- Food grade material handling – standard duty
- Pharmaceutical product transfer

CONSTRUCTION

Polyurethane (TPU) tube with rigid PVC helix

MADE IN THE USA

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

FEATURES AND ADVANTAGES

- **Durable Lightweight Polyurethane Tube –** Designed for dry applications where abrasion is a factor. Provides longer hose life and lower operating costs versus similar rubber or PVC hoses.
- **Food Grade Materials –** Hose complies with applicable FDA(03) requirements. Hose complies with applicable USDA(12) requirements.
- **Transparent Construction –** "See-the-flow". Allows for visual confirmation of material flow.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.
- **Easy Slide Helix –** Exposed rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.
- **Oil Resistant Polyurethane Hose –** Resists most animal and petroleum based oils.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in)	Standard Length	Weight
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F	at 68°F	(ft)	(lbs/ft)
UVF150	1 1/2	38.1	1.82	46.2	20	7	22	14	1	50	0.23
UVF200	2	50.8	2.39	60.7	15	6	21	12	1 1/2	50	0.32
UVF250	2 1/2	63.5	2.89	73.4	10	5	19	10	1 1/2	50	0.39
UVF300	3	76.2	3.46	87.9	10	5	18	10	2 1/2	50	0.55
UVF400	4	101.6	4.50	114.3	8	4	13	8	3	50	0.77
UVF500	5	127.0	5.50	139.7	7	3	10	7	4	50	0.89
UVF600	6	152.4	6.54	166.1	6	3	7	5	5	50	1.15
UVF800	8	203.2	8.59	218.1	4	2	5	3	7	50/20	1.75

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

BSE/TSE (02), **FDA** (03), **Phthalate Free** (10), **RoHS** (11), **USDA** (12)

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TR1™ Series

Heavy-Duty, Rubber Blend Wet or Dry Material Handling Hose

GENERAL APPLICATIONS

- Fly ash collection
- Grain Handling
- Hydro excavation
- Industrial vacuum equipment
- Material handling – heavy duty abrasive
- Milling machine scrap recovery
- Rock, gravel, sand and crushed concrete vacuuming
- Sewer truck boom hose
- Shot blast recovery
- Slurry handling

CONSTRUCTION

Blended rubber tube with rigid PVC helix

MADE IN THE USA

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

FEATURES AND ADVANTAGES

- **Superior Rubber Compounds –** Tigerflex™ uses specially engineered compounds which provide the ideal combination of excellent abrasion resistance, light weight, flexibility, static dissipation and superior long-lasting durability.
- **Static Dissipative Tube -** Specially formulated to help prevent the build-up of static electricity for added safety and to help keep material flowing smoothly.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.
- **Convoluted Cover Design –** Provides increased hose flexibility.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
TR1-150	1 1/2	38.5	1.94	49.2	35	26	Full	28	1.5	100	0.47
TR1-200	2	50.8	2.38	60.5	32	23	Full	26	1.5	100/50	0.65
TR1-250	2 1/2	63.4	3.05	77.5	30	22	Full	26	2.0	100/50	0.84
TR1-300	3	76.2	3.56	90.5	28	20	Full	26	2.5	100/50/20	0.90
TR1-400	4	101.6	4.67	118.5	26	18	Full	26	4.5	100/50/20	1.73
TR1-500	5	126.8	5.73	145.5	21	16	28	24	5.0	100/50/20	3.00
TR1-600	6	153.4	7.03	178.8	19	13	28	24	9.5	100/50/20	4.00
TR1-800	8	204.8	9.27	255.6	19	13	27	23	14	50/20	7.40

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.
- Available with grounding wire upon request. Minimum order required, contact Kuriyama customer service for details.

COMPLIANCES *(for details see page 87)*

RoHS (11)

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Tiger™ "HiTemp" THT™ Series

Wire Reinforced EPDM Wet or Dry Material Handling Hose

GENERAL APPLICATIONS

- Agricultural liquid fertilizer
- Fly ash collection
- Hydroexcavation
- Industrial vacuum equipment
- Material chutes
- Milling machine scrap recovery
- Sewer truck boom hose
- Slurry handling

CONSTRUCTION

EPDM tube and polyethylene helix with steel helical wire

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +220°F (+104°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

RATED UP TO 220°F

FEATURES AND ADVANTAGES

- **Wire Reinforced Helix –** Highly durable steel helical wire provides strength and allows for use at higher temperatures without risk of hose deformation. Wire can be grounded for additional static dissipation.
- **Heat Resistant –** Steel helical wire and EPDM material allow for operation at temperatures as high as 220°F
- **Static Dissipative Tube -** Specially formulated to help prevent the build-up of static electricity for added safety and to help keep material flowing smoothly.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.
- **Convoluted Cover Design –** Provides increased hose flexibility.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
THT300	3	76.2	3.59	91.2	40	33	Full	28	5 1/2	100	1.33
THT400	4	101.6	4.63	117.6	29	21	Full	26	5 1/2	100/20	1.90
THT500	5	127.0	5.78	146.8	25	19	Full	25	8 1/2	100	2.95
THT600	6	152.4	6.87	178.4	19	14	27	24	10	100/50/20	3.65
THT800	8	204.8	9.06	229.8	14	10	27	24	15	50/20	5.94

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

CAUTION: Helix wire is designed to help dissipate static charge when extracted and connected to ground. Hose is not to be used in combustible situations unless it has been determined by the end user the application is not sufficient to result in propagating brush discharge.

COMPLIANCES *(for details see page 87)*

RoHS (11)

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Amphibian™ AMPH-BK™ Series

Heavy-Duty, Polyurethane Lined, Wet or Dry Material Handling Hose

GENERAL APPLICATIONS

- Fly ash collection
- Hydro excavation
- Industrial vacuum equipment
- Material handling – heavy duty abrasive
- Milling machine scrap recovery
- Rock, gravel, sand and crushed concrete vacuuming
- Sewer truck boom hose
- Shot blast recovery
- Slurry handling

CONSTRUCTION

Black PVC cover with ether polyurethane liner and rigid PVC helix

MADE IN THE USA

AMPHIBIAN Wet or Dry ABRASION RESISTANCE

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

FEATURES AND ADVANTAGES

- **Thick Amphibian™ Abrasion Resistant Polyurethane Liner –** Designed for wet or dry applications where severe abrasion is a factor. Provides longer hose life and lower operating costs versus rubber or PVC hoses.
- **Charge Reducing Cover –** Specially formulated to help prevent the build-up of static electricity for added safety and to help keep material flowing smoothly.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.
- **Convoluted Cover Design –** Provides increased hose flexibility.
- **Oil Resistant Polyurethane Liner –** Resists most animal and petroleum based oils.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
AMPH-BK400	4	101.6	4.76	120.9	35	18	Full	28	8	100	1.95
AMPH-BK500	5	127.0	5.75	146.0	36	18	28	25	15	100	2.42
AMPH-BK600	6	152.4	6.81	173.0	30	15	28	25	18	100/20	3.50
AMPH-BK800	8	203.2	9.18	233.2	30	15	28	25	22	50/21	5.91
AMPH-BK1000	10	254.0	11.60	294.6	22	10	24	18	26	20	9.90

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

CAUTION:

Hose is not to be used in combustible situations unless it has been determined by the end user the application is not sufficient to result in propagating brush discharge.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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SOLARGUARD™ AMPH-SLR™ Series

Heavy Duty Polyurethane Lined Wet or Dry Material Handling Hose with High UV Resistance

GENERAL APPLICATIONS

- Hydroexcavation
- Industrial vacuum equipment
- Material handling – heavy duty abrasive
- Sewer truck boom hose
- Slurry handling

CONSTRUCTION

PVC cover with ether polyurethane liner, PVC helix and grounding wire

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to 150°F (+65°C)*

**Actual service temperature range is application dependent.*

See page 89 for details on UV Resistance

MADE IN THE USA

AMPHIBIAN Wet or Dry ABRASION RESISTANCE

FEATURES AND ADVANTAGES

- **Thick Amphibian™ Abrasion Resistant Polyurethane Liner –** Designed for wet or dry applications where severe abrasion is a factor. Provides longer hose life and lower operating costs versus rubber or PVC hoses.
- **Advanced UV Protection! –** The hose material is specially formulated to resist the cracking that can result from exposure to damaging UV light. Our tests show the Solarguard material retained 97% of its original tensile strength after prolonged UV exposure, compared to only 55% tensile strength retention for similar PVC hoses.†
- **Grounding Wire (6" and 8" only) –** Multi-strand wire helps prevent the build-up of static electricity for added safety and to help keep material flowing smoothly.
- **"Safety Yellow" Color –** For high visibility on site. Reduces risk of tripping or driving over hose.
- **Convoluted Cover Design –** Provides increased hose flexibility.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
AMPH-SLR300	3	76.2	3.65	92.6	40	20	Full	28	6	100	1.18
AMPH-SLR600	6	153.4	7.00	177.8	30	15	28	25	18	100/20	4.14
AMPH-SLR800	8	204.8	9.15	232.4	22	15	26	25	22	60/21	6.49

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

† This information is based on independent third party test reports which are, to the best of our knowledge, complete and accurate. However, no warranty is expressed or implied, as specific application parameters such as temperature, stress and strain, and chemical exposure vary widely.

CAUTION: Certain sizes of this product are designed to dissipate static electricity when the embedded grounding wire is physically extracted and securely connected to ground, through the fitting or by other means. Hose is not to be used in combustible situations unless it has been determined by the end user the application is not sufficient to result in propagating brush discharge.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10)

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Silver Tiger™ STIG™ Series

Extremely Heavy-Duty, Polyurethane Lined, Material Handling Hose with Grounding Wire

GENERAL APPLICATIONS

- Fly ash collection
- Industrial Vacuum Equipment
- Material chutes
- Material handling – heavy duty abrasive
- Milling machine scrap recovery
- Rock, gravel, sand and crushed concrete vacuuming
- Shot blast recovery

CONSTRUCTION

PVC cover with extra thick polyurethane liner, rigid PVC helix and grounding wire

MADE IN THE USA

HIGHEST ABRASION RESISTANCE

"The closest thing to metal hose"

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

FEATURES AND ADVANTAGES

- **Extra Thick Abrasion Resistant Polyurethane Liner –** The thickest polyurethane liner available. Designed for dry applications where severe abrasion is a factor. Provides for longer hose life and lower operating costs versus rubber or PVC hoses.
- **Grounding Wire –** Multi-strand wire helps prevent the build-up of static electricity for added safety and to help keep material flowing smoothly. It's embedded within the rigid helix to prevent contamination of transferred materials.
- **Convoluted Outer Cover –** Provides increased hose flexibility.
- **Oil Resistant Polyurethane Liner –** Resists most animal and petroleum based oils.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
STIG250	2 1/2	63.5	3.04	77.2	45	22	Full	28	7	100	0.92
STIG300	3	76.2	3.77	95.8	45	22	Full	28	8	100	1.50
STIG400	4	101.6	4.86	123.5	40	20	Full	28	12	100	2.32
STIG500	5	127.0	5.86	148.8	35	18	Full	28	16	60/20	3.43
STIG600	6	153.4	7.18	182.4	35	18	Full	28	20	100/20	4.54
STIG800	8	204.8	9.49	241.0	35	18	28	25	25	50/20	7.53

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

CAUTION: Grounding wire is designed to help dissipate static charge when extracted and connected to ground. Hose is not to be used in combustible situations unless it has been determined by the end user the application is not sufficient to result in propagating brush discharge.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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Ureflex™ 2
UF2™ Series

Extra Heavy-Duty, Polyurethane Lined, Material Handling Hose

GENERAL APPLICATIONS

- Fly ash collection
- Industrial vacuum equipment
- Material chutes
- Material handling – heavy duty abrasive
- Milling machine scrap recovery
- Rock, gravel, sand and crushed concrete vacuuming
- Shot blast recovery

CONSTRUCTION

PVC cover with polyurethane liner and rigid PVC helix

MADE IN THE USA

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

FEATURES AND ADVANTAGES

- **Extra Thick Abrasion Resistant Polyurethane Liner –** Designed for dry applications where severe abrasion is a factor. Provides for longer hose life and lower operating costs versus rubber or PVC hoses.
- **Charge Reducing Cover -** Specially formulated to help prevent the build-up of static electricity for added safety and to help keep material flowing smoothly.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.
- **Convoluted Outer Cover –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.
- **Oil Resistant Polyurethane Liner –** Resists most animal and petroleum based oils.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
UF2-150	1 1/2	38.1	1.88	47.8	50	25	Full	28	3	100	0.46
UF2-200	2	50.8	2.44	62.0	40	20	Full	28	4	100	0.65
UF2-250	2 1/2	63.5	3.12	79.2	40	20	Full	28	5	100	0.89
UF2-300	3	76.2	3.70	94.1	40	20	Full	28	6	100/50	1.23
UF2-400	4	101.6	4.80	122.0	35	18	Full	28	10	100/50	2.02
UF2-500	5	127.0	5.81	147.6	35	18	28	25	15	100/50/20	2.50
UF2-600	6	152.4	6.87	174.5	30	15	28	25	18	100/50/20	3.84
UF2-800	8	203.2	9.18	233.2	30	15	28	25	22	50/20	6.52
UF2-1000	10	254.0	11.61	295.0	25	12	26	20	26	20	10.92

NOTES:
- Service life may vary depending on operating conditions and type of material being conveyed.

CAUTION: Hose is not to be used in combustible situations unless it has been determined by the end user the application is not sufficient to result in propagating brush discharge.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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Ureflex™ UF1™ Series

Heavy-Duty, Polyurethane Lined, Material Handling Hose

GENERAL APPLICATIONS

- Agricultural dry fertilizers
- Air seeder lines
- Fly ash collection
- Industrial vacuum equipment
- Material chutes
- Material handling – heavy duty abrasive
- Milling machine scrap recovery
- Rock, gravel, sand and crushed concrete vacuuming
- Shot blast recovery

CONSTRUCTION

PVC cover with polyurethane liner and rigid PVC helix

MADE IN THE USA

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

FEATURES AND ADVANTAGES

- **Thick Abrasion Resistant Polyurethane Liner –** Designed for dry applications where severe abrasion is a factor. Provides for longer hose life and lower operating costs versus rubber or PVC hose.
- **Charge Reducing Cover -** Specially formulated to help prevent the build-up of static electricity for added safety and to help keep material flowing smoothly.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.
- **Convoluted Cover Design –** Provides increased hose flexibility.
- **Oil Resistant Polyurethane Liner –** Resists most animal and petroleum based oils.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
UF1-125	1 1/4	31.8	1.53	39.0	50	25	Full	28	2	100	0.22
UF1-150	1 1/2	38.1	1.85	47.0	50	25	Full	28	2	100/50	0.42
UF1-200	2	50.8	2.40	61.0	40	20	Full	28	3	100/50	0.59
UF1-250	2 1/2	63.5	3.07	78.0	40	20	Full	28	3	100/50	0.80
UF1-300	3	76.2	3.64	92.5	40	20	Full	28	4	100/50	1.18
UF1-350	3 1/2	88.9	4.21	107.0	35	18	Full	28	5	100/50	1.48
UF1-400	4	101.6	4.76	120.9	35	18	Full	28	6	100/50	1.95
UF1-500	5	127.0	5.75	146.0	35	18	28	25	10	100/50/20	2.42
UF1-600	6	152.4	6.81	173.0	30	15	28	25	12	100/50/20	3.50
UF1-800	8	203.2	9.18	233.2	30	15	28	25	18	50/20	5.91
UF1-1000	10	255.0	11.60	294.5	22	10	24	18	26	20/22	9.90

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

CAUTION: Hose is not to be used in combustible situations unless it has been determined by the end user the application is not sufficient to result in propagating brush discharge.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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Ureflex™ UFC™ Series

Heavy-Duty, Polyurethane Lined, Material Handling Hose

GENERAL APPLICATIONS

- Agricultural dry fertilizer
- Air seeder lines
- Industrial vacuum equipment
- Material handling – heavy duty abrasive
- Milling machine scrap recovery
- Plastic processing equipment
- Shot blast recovery

CONSTRUCTION

PVC cover with polyurethane liner and rigid PVC helix

MADE IN THE USA

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

FEATURES AND ADVANTAGES

- **Thick Abrasion Resistant Polyurethane Liner –** Designed for dry applications where severe abrasion is a factor. Provides for longer hose life and lower operating costs versus rubber or PVC hoses.
- **Charge Reducing Cover -** Specially formulated to help prevent the build-up of static electricity for added safety and to help keep material flowing smoothly.
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.
- **Convoluted Cover Design –** Provides increased hose flexibility.
- **Oil Resistant Polyurethane Liner –** Resists most animal and petroleum based oils.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
UFC150	1 1/2	38.1	1.85	47.0	50	25	Full	28	2	100	0.42
UFC200	2	50.8	2.40	61.0	40	20	Full	28	3	100	0.59
UFC250	2 1/2	63.5	3.07	78.0	40	20	Full	28	3	100	0.80
UFC300	3	76.2	3.64	92.5	40	20	Full	28	4	100	1.18
UFC400	4	101.6	4.76	120.9	35	18	Full	28	6	100	1.95

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

CAUTION: Hose is not to be used in combustible situations unless it has been determined by the end user the application is not sufficient to result in propagating brush discharge.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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UBK™ Series

Heavy-Duty, Polyurethane Lined, Material Handling Hose

GENERAL APPLICATIONS

- Agricultural dry fertilizers
- Air seeder lines
- Fly ash collection
- Industrial vacuum equipment
- Material handling – heavy duty abrasive
- Milling machine scrap recovery
- Rock, gravel, sand and crushed concrete vacuuming
- Shot blast recovery

CONSTRUCTION

PVC cover with polyurethane liner and rigid PVC helix

MADE IN THE USA

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

FEATURES AND ADVANTAGES

- **Thick Abrasion Resistant Polyurethane Liner –** Designed for dry applications where severe abrasion is a factor. Provides for longer hose life and lower operating costs versus rubber or PVC hoses.
- **Charge Reducing Cover -** Specially formulated to help prevent the build-up of static electricity for added safety and to help keep material flowing smoothly.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.
- **Easy Slide Helix –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.
- **Oil Resistant Polyurethane Liner –** Resists most animal and petroleum based oils.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
UBK200	2	50.8	2.40	61.0	40	15	Full	28	2	100/50	0.59
UBK300	3	76.2	3.64	92.5	40	15	Full	28	4	100/50	0.83
UBK400	4	101.6	4.76	120.9	35	13	Full	28	6	100/50	1.37
UBK500	5	127.0	5.69	144.5	30	10	28	15	10	100/50/20	2.28
UBK600	6	152.4	6.81	173.0	30	10	28	15	12	100/50/20	3.10
UBK800	8	203.2	9.02	229.0	30	10	28	15	15	50/20	4.51

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

CAUTION: Hose is not to be used in combustible situations unless it has been determined by the end user the application is not sufficient to result in propagating brush discharge.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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Urevac™ 3
UV3™ Series

Heavy-Duty, Polyurethane, Material Handling Hose with Grounding Wire

GENERAL APPLICATIONS

- Dust collection
- Material handling – heavy duty abrasive
- Milling machine scrap recovery
- Plastic processing equipment

CONSTRUCTION

Single-ply polyurethane tube with rigid PVC helix and grounding wire

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Thick Abrasion Resistant Single-Ply Polyurethane Tube –** Designed for dry applications where severe abrasion is a factor. Provides for longer hose life and lower operating costs versus rubber or PVC hoses.
- **Grounding Wire -** Multi-strand wire helps prevent the build-up of static electricity for added safety and to help keep material flowing smoothly. It's embedded within the rigid helix to prevent contamination of transferred materials.
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.
- **Easy Slide Helix –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.
- **Oil Resistant Polyurethane Liner –** Resists most animal and petroleum based oils.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
UV3-300	3	76.2	3.60	91.4	40	20	Full	28	9	100/50	0.91
UV3-400	4	101.6	4.66	118.4	35	17	28	25	12	100/50	1.50
UV3-500	5	127.0	5.50	145.0	35	17	28	25	14	50/20	1.82
UV3-600	6	152.4	6.65	172.0	30	15	25	20	16	50/20	2.24
UV3-800	8	203.5	8.76	223.0	30	15	25	20	18	50/20	3.00

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

CAUTION: Grounding wire is designed to help dissipate static charge when extracted and connected to ground. Hose is not to be used in combustible situations unless it has been determined by the end user the application is not sufficient to result in propagating brush discharge.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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Urevac™ 2
UV2™ Series

Medium-Duty Polyurethane Lined, Ducting/Material Handling Hose

GENERAL APPLICATIONS

- Agricultural dry fertilizer
- Air seeder lines
- Dust control
- Material handling – medium duty
- Wand hose

CONSTRUCTION

PVC cover with ester polyurethane (TPU) liner and rigid PVC helix

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Extra Thick Abrasion Resistant Polyurethane Liner –** Designed for dry applications where severe abrasion is a factor. Provides for longer hose life and lower operating costs versus rubber or PVC hoses.
- **Charge Reducing Cover -** Specially formulated to help prevent the build-up of static electricity for added safety and to help keep material flowing smoothly.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.
- **Convoluted Outer Cover –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.
- **Oil Resistant Polyurethane Liner –** Resists most animal and petroleum based oils.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
UV2-150	1 1/2	38.1	1.87	47.5	25	10	22	16	1 1/2	60	0.29
UV2-200	2	50.8	2.47	62.7	25	10	21	14	2 1/2	60	0.40
UV2-250	2 1/2	63.5	2.96	75.2	20	8	19	12	3	60	0.53
UV2-300	3	76.2	3.54	89.8	20	8	18	11	4	60	0.67
UV2-400	4	101.6	4.57	116.1	15	7	13	9	6	60	1.02
UV2-500	5	127.0	5.58	141.7	15	7	10	7	8	60	1.22
UV2-600	6	152.4	6.62	168.1	10	5	7	5	10	60	1.68
UV2-800	8	203.2	8.67	220.2	10	5	5	3	14	20	2.24

NOTES:
- Service life may vary depending on operating conditions and type of material being conveyed.

CAUTION: Hose is not to be used in combustible situations unless it has been determined by the end user the application is not sufficient to result in propagating brush discharge.

COMPLIANCES *(for details see page 87)*

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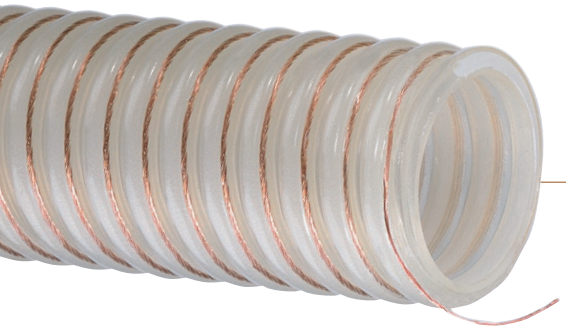

UVPE™ Series

Heavy-Duty, Polyurethane, Material Handling Hose with Grounding Wire

GENERAL APPLICATIONS

- Material handling – heavy duty abrasive
- Plastic processing equipment

CONSTRUCTION

Polyurethane tube with rigid polypropylene helix

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Extra Thick Abrasion Resistant Polyurethane Liner –** Designed for dry applications where severe abrasion is a factor. Provides for longer hose life and lower operating costs versus rubber or PVC hoses.
- **Grounding Wire -** Multi-strand wire helps prevent the build-up of static electricity for added safety and to help keep material flowing smoothly.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.
- **Convoluted Outer Cover –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.
- **Oil Resistant Polyurethane Liner –** Resists most animal and petroleum based oils.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in)	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F	at 68°F		
UVPE150	1 1/2	38.1	1.87	47.5	20	7	22	14	3	100	0.39
UVPE200	2	50.8	2.44	62.0	15	6	21	12	4	100	0.48
UVPE250	2 1/2	63.5	2.99	75.9	10	5	19	10	5	100	0.55
UVPE300	3	76.2	3.64	92.5	10	5	18	10	6	100	0.68

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

CAUTION: Grounding wire is designed to help dissipate static charge when extracted and connected to ground. Hose is not to be used in combustible situations unless it has been determined by the end user the application is not sufficient to result in propagating brush discharge.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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Ground Cover
GC-C™ Series

Heavy-Duty, Polyurethane Lined, Material Handling Hose

GENERAL APPLICATIONS

- Material handling – heavy duty abrasive
- Mulch, bark, wood chips and other surfacing material delivery
- Soil, seed and compost delivery

CONSTRUCTION

PVC cover with polyurethane liner and rigid PVC helix

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Abrasion Resistant Polyurethane Liner –** Designed for dry applications where severe abrasion is a factor. Provides longer hose life and lower operating costs versus rubber or PVC hoses.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **Convoluted Outer Cover –** Provides increased hose flexibility. Allows for easier unwinding and winding on hose reels.
- **Oil Resistant Polyurethane Liner –** Resists most animal and petroleum based oils.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
GC-C400	4	101.6	4.59	116.6	30	15	28	25	6	100	1.00
GC-C500	5	127.0	5.57	141.5	30	15	25	20	10	100	1.80

NOTES:
- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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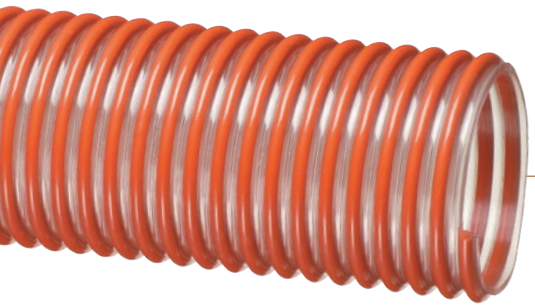

MULCH™ Series

Heavy-Duty, PVC, Material Handling Hose

GENERAL APPLICATIONS

- Material handling – standard duty
- Mulch, bark, wood chips and other surfacing material delivery
- Soil, seed and compost delivery

CONSTRUCTION

PVC tube and rigid PVC helix

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Abrasion Resistant PVC Tube –** Formulated from highly durable PVC compounds for increased abrasion and tear resistance versus standard PVC hoses.
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **Convoluted Outer Cover –** Provides increased hose flexibility.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
MULCH400	4	101.6	4.57	116.0	35	15	Full	28	8	200/100	1.42
MULCH500	5	127.0	5.61	142.6	30	12	24	22	14	100	1.75
MULCH600	6	153.4	6.79	172.4	25	10	24	22	16	100	2.42

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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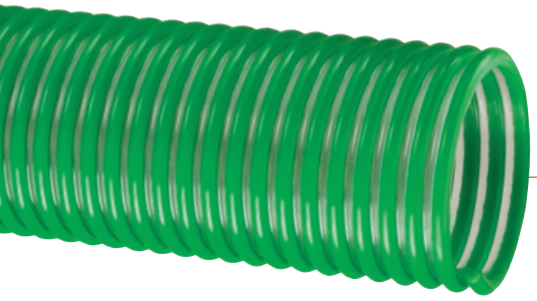

MULCH-LT™ Series

Heavy-Duty, Low Temperature, PVC, Material Handling Hose

GENERAL APPLICATIONS

- Material handling – standard duty
- Mulch, bark, wood chips and other surfacing material delivery
- Soil, seed and compost delivery

CONSTRUCTION

PVC tube and rigid PVC helix

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Abrasion Resistant PVC Tube –** Formulated from highly durable PVC compounds for increased abrasion and tear resistance versus standard PVC hoses.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **Convoluted Outer Cover –** Provides increased hose flexibility.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
MULCH-LT400	4	101.6	4.57	116.0	35	15	Full	28	8	200/100	1.35

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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"Bark Hose"
BARK™ Series

Standard-Duty, PVC, Material Handling Hose

GENERAL APPLICATIONS

- Lawn and leaf collection
- Material handling – standard duty
- Mulch, bark, wood chips and other surfacing material delivery
- Soil, seed and compost delivery

CONSTRUCTION

PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Abrasion Resistant PVC Tube –** Formulated from highly durable PVC compounds for increased abrasion and tear resistance versus standard PVC hoses.
- **Convoluted Outer Cover –** Provides increased hose flexibility. Allows for easier unwinding and winding on hose reels.
- **Easy Slide Helix –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
BARK400	4	101.6	4.45	113.0	18	11	15	10	10	100	0.95
BARK500	5	127.0	5.47	138.9	17	10	14	8	11	100	1.29

NOTES:
- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*
Phthalate Free (10), **RoHS** (11)

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Lawn King™ LK™ Series

Low Temperature, PVC, Ducting/Material Handling Hose

GENERAL APPLICATIONS

- Dust collection
- Lawn and leaf collection
- Material handling – light duty

CONSTRUCTION

PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-20°F (-29°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.
- **Easy Slide Helix –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
LK400	4	101.6	4.57	114.8	8	4	13	7	3	100/50	0.85
LK600	6	152.4	6.63	168.3	6	3	7	5	6	100/50	1.34
LK800	8	203.2	8.63	219.3	4	2	5	3	8	50	2.00

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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Lawn King™ LKC™ Series

Low Temperature, PVC, Ducting/Material Handling Hose

GENERAL APPLICATIONS

- Dust collection
- Lawn and leaf collection
- Material handling – light duty

CONSTRUCTION

PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-20°F (-29°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **Easy Slide Helix –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
LKC400	4	101.6	4.57	114.8	8	4	13	7	3	100/50	0.85
LKC600	6	152.4	6.63	168.3	6	3	7	5	6	100/50	1.34
LKC700	7	177.8	7.56	192.0	4	2	6	4	7	50	1.53
LKC800	8	203.2	8.63	219.3	4	2	5	3	8	50	2.00

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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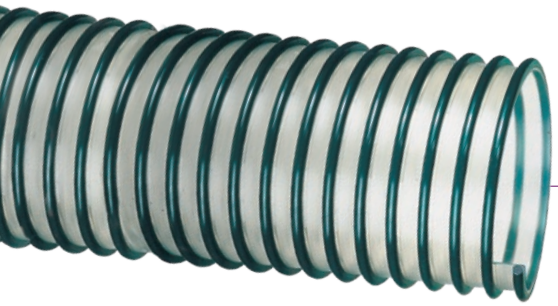

Urevac™ UV1™ Series

Polyurethane Ducting/Material Handling Hose

GENERAL APPLICATIONS

- Concrete resurfacing dust collection
- Ducting, ventilation and fume removal
- Dust collection
- Insulation blowing
- Material chutes
- Material handling – standard duty

CONSTRUCTION

Ester polyurethane (TPU) tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Durable Lightweight Polyurethane Tube –** Designed for dry applications where abrasion is a factor. Provides longer hose life and lower operating costs versus rubber or PVC hoses.
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **Easy Slide Helix –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.
- **Oil Resistant Polyurethane Tube –** Resists most animal and petroleum based oils.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
UV1-150	1 1/2	38.1	1.82	46.2	20	7	22	14	3/4	50	0.23
UV1-200	2	50.8	2.39	60.7	15	6	21	12	1 1/2	100/50	0.32
UV1-250	2 1/2	63.5	2.89	73.4	10	5	19	10	1 1/2	50	0.39
UV1-300	3	76.2	3.46	87.9	10	5	18	10	2 1/2	100/50	0.58
UV1-400	4	101.6	4.50	114.3	8	4	13	8	3	100/50	0.77
UV1-500	5	127.0	5.50	139.7	7	3	10	7	4	50	0.89
UV1-600	6	152.4	6.54	166.1	6	3	7	5	5	100/50	1.15
UV1-800	8	203.2	8.59	218.2	4	2	5	3	7	50	1.75

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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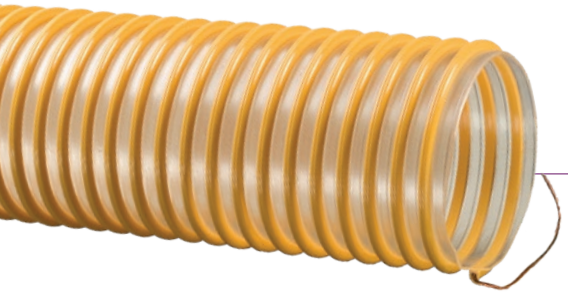

Urevac™ UVE™ Series

Polyurethane Ducting/Material Handling Hose with Grounding Wire

GENERAL APPLICATIONS

- Concrete resurfacing dust collection
- Ducting, ventilation and fume removal
- Dust collection
- Insulation blowing
- Material chutes
- Material handling – standard duty

CONSTRUCTION

Ester polyurethane (TPU) tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **Easy Slide Helix –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.
- **Grounding Wire –** Multi-strand wire helps prevent the build-up of static electricity for added safety and to help keep material flowing smoothly. It's embedded within the rigid helix to prevent contamination of transferred materials.
- **Oil Resistant Polyurethane Tube –** Resists most animal and petroleum based oils.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
UVE-200	2	50.8	2.39	60.7	15	6	21	12	1 1/2	100/50	0.32
UVE-300	3	76.2	3.46	87.9	10	5	18	10	2 1/2	100/50	0.58
UVE-400	4	101.6	4.50	114.3	8	4	13	8	3	100/50	0.77
UVE-600	6	152.4	6.54	166.1	6	3	7	5	5	100/50	1.15
UVE-800	8	203.2	8.59	218.2	4	2	5	3	7	50	1.75

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

CAUTION: Grounding wire is designed to help dissipate static charge when extracted and connected to ground. Hose is not to be used in combustible situations unless it has been determined by the end user the application if not sufficient to result in propagating brush discharge.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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GT™ Series

PVC Ducting/Material Handling Hose

GENERAL APPLICATIONS

- Cable protection
- Drain lines
- Ducting, ventilation and fume removal
- Dust collection
- Material handling – light duty

CONSTRUCTION

PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **Easy Slide Helix –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
GT150	1 1/2	38.1	1.82	46.2	20	7	22	14	1	100/50	0.23
GT200	2	50.8	2.39	60.8	15	6	21	12	2	100/50	0.30
GT238	2 3/8	60.3	2.76	70.1	12	6	10	5	2	100	0.38
GT250	2 1/2	63.5	2.89	73.4	10	5	19	10	2	100/50	0.39
GT300	3	76.2	3.46	87.9	10	5	18	10	3	100/50	0.50
GT350	3 1/2	88.9	4.02	102.0	9	4	15	8	3	100/50	0.68
GT400	4	101.6	4.50	114.3	8	4	13	7	3	100/50	0.77
GT500	5	127.0	5.50	139.7	7	3	10	6	5	100/50	0.91
GT600	6	152.4	6.54	166.1	6	3	7	5	6	100/50	1.08
GT800	8	203.2	8.59	218.2	4	2	5	3	8	50	1.74
GT1000	10	254.0	11.68	296.6	2	—	2	—	10	50	2.70

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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GTG™ Series

PVC Ducting/Light Material Handling Hose

GENERAL APPLICATIONS

- Cable protection
- Drain lines
- Ducting, ventilation and fume removal
- Dust collection
- Material handling – light duty

CONSTRUCTION

PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

ANTI-MICROBIAL

FEATURES AND ADVANTAGES

- **Easy Slide Helix –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.
- **Anti-Microbial Tube –** Inhibits growth of bacteria, fungi, mold and yeast.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
GTG150	1 1/2	38.1	1.82	46.2	20	7	22	14	1	100/50	0.23
GTG200	2	50.8	2.39	60.8	15	6	21	12	2	100	0.30
GTG250	2 1/2	63.5	2.89	73.4	10	5	19	10	2	100/50	0.39
GTG300	3	76.2	3.46	87.9	10	5	18	10	3	100/50	0.50

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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"Cover Guard" CG™ Series

PVC Ducting Cover Protection Hose

GENERAL APPLICATIONS

- Cable and hose bundle protection (MSHA)
- Dust collection
- Ducting, ventilation and fume removal
- Mine supply line cover protection

CONSTRUCTION

PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

MSHA

FEATURES AND ADVANTAGES

- **MSHA (08) Approved –** Meets U.S. Dept. of Labor Administration requirements for flame-resistance for use in mines for protection of hose bundles. Optional, special order, red or green colored helix also approved.
- **Transparent Construction –** "See-the-flow." Allows for visual confiurmation of material flow.
- **Easy Slide Helix –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.
- **CG-SL Series –** pre-slit for easy insertion of hose bundles.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
CG200	2	50.8	2.30	58.4	12	6	10	5	2	100	0.28
CG238	2 3/8	60.3	2.76	70.1	12	6	10	5	2	100	0.38
CG250	2 1/2	63.5	2.81	71.3	10	5	8	4	2	100	0.39
CG300	3	76.2	3.35	85.0	8	4	7	3	3	100	0.45
CG350	3 1/2	88.9	3.83	97.4	8	4	7	3	3	100	0.51
CG400	4	102.4	4.39	111.4	6	3	6	3	3	100	0.64

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

MSHA (08), **Phthalate Free** (10), **RoHS** (11)

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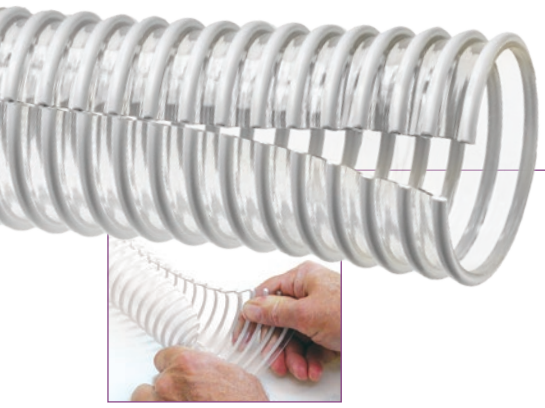

"Cover Guard Slit" CG-SL™ Series

Pre-slit PVC Protection Cover Hose

GENERAL APPLICATIONS

- Cable and hose bundle protection (MSHA)
- Mine supply line cover protection

CONSTRUCTION

PVC tube with rigid PVC helix (pre-slit)

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA MSHA

FEATURES AND ADVANTAGES

- **MSHA (08) Approved –** Meets U.S. Dept. of Labor Administration requirements for flame-resistance for use in mines for protection of hose bundles. Optional, special order, red or green colored helix also approved.
- **Easy Slide Helix –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.
- **Pre-Slit** – Allows for easy insertion of hose bundles.

Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Standard Length (ft)	Weight (lbs/ft)
CG-SL100	1	25.4	1.28	31.9	100	0.14
CG-SL125	1 1/4	31.8	1.51	38.4	100	0.18
CG-SL150	1 1/2	38.1	1.76	45.1	100	0.21
CG-SL200	2	50.8	2.30	58.4	100	0.28
CG-SL250	2 1/2	63.5	2.81	71.3	100	0.39
CG-SL300	3	76.2	3.35	85.0	100	0.45
CG-SL350	3 1/2	88.9	3.83	97.4	100	0.51
CG-SL400	4	102.4	4.39	111.4	100	0.64

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

MSHA (08), **Phthalate Free** (10), **RoHS** (11)

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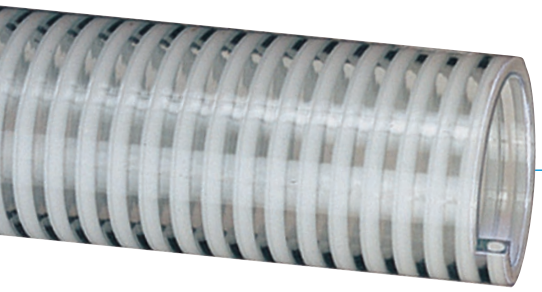

H™ Series

Standard-Duty, PVC Suction Hose

GENERAL APPLICATIONS

- Agricultural liquid fertilizer
- Air seeder lines
- Drain lines
- Irrigation lines
- Mining applications
- Pumps, rental and construction dewatering
- Pumps, trash
- Rock dusting
- Water suction – standard duty

MADE IN THE USA

CONSTRUCTION

PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

FEATURES AND ADVANTAGES

- **Transparent Construction –** "See-the-flow." Allows for visual confiurmation of material flow.
- **Smooth Outer Cover (Sizes 3/4" – 5") –** Provides increased pressure rating and smooth surface for banding.
- **Convoluted Outer Cover (Size 6") –** Provides increased hose flexibility.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
H075	3/4	19.0	1.01	25.6	110	70	28	26	3	200/100	0.19
H100	1	25.4	1.26	32.0	85	60	28	26	3	200/100	0.26
H125	1 1/4	31.7	1.56	39.6	85	60	28	24	4	200/100	0.35
H150	1 1/2	38.1	1.83	46.5	70	50	28	24	5	200/100	0.48
H200	2	50.8	2.32	59.0	65	45	28	24	7	200/100	0.66
H250	2 1/2	63.5	2.87	73.0	65	45	28	24	8	200/100	0.87
H300	3	76.2	3.43	87.0	60	40	28	22	10	200/100	1.24
H400	4	101.6	4.50	114.7	50	35	28	22	15	200/100	1.85
H500	5	127.0	5.58	141.3	45	30	28	24	22	100/20	2.42
H600	6	152.4	6.75	171.4	40	25	28	20	30	100/20	3.39

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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J™ Series

Standard-Duty, PVC Suction Hose

GENERAL APPLICATIONS

- Agricultural liquid fertilizer
- Air seeder lines
- Drain lines
- Irrigation lines
- Mining applications
- Pumps, rental and construction dewatering
- Pumps, trash
- Rock dusting
- Water suction – standard duty

MADE IN THE USA

MSHA

CONSTRUCTION

PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

FEATURES AND ADVANTAGES

- **MSHA (08) Approved –** Approved by the Mine Safety and Health Administration for flame-resistance for use in underground mines as water transfer hose.
- **Smooth Outer Cover (Sizes 3/4" – 4") –** Provides increased pressure rating and smooth surface for banding.
- **Convoluted Outer Cover (Sizes 6" & 8") –** Provides increased hose flexibility.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
J075	3/4	19.0	1.01	25.6	110	70	28	26	3	200/100	0.19
J100	1	25.4	1.26	32.0	85	60	28	26	3	200/100	0.26
J125	1 1/4	31.7	1.56	39.6	85	60	28	24	4	200/100	0.35
J150	1 1/2	38.1	1.83	46.5	70	50	28	24	5	200/100	0.48
J200	2	50.8	2.32	59.0	65	45	28	24	7	200/100	0.66
J250	2 1/2	63.5	2.87	73.0	65	45	28	24	8	200/100	0.87
J300	3	76.2	3.43	87.0	60	40	28	22	10	200/100	1.24
J400	4	101.6	4.50	114.7	50	35	28	22	15	200/100	1.85
J600	6	152.4	6.75	171.4	40	25	28	20	30	100/20	3.39
J800	8	203.2	8.86	225.0	30	20	26	20	35	20	5.63

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

MSHA (08), **Phthalate Free** (10), **RoHS** (11)

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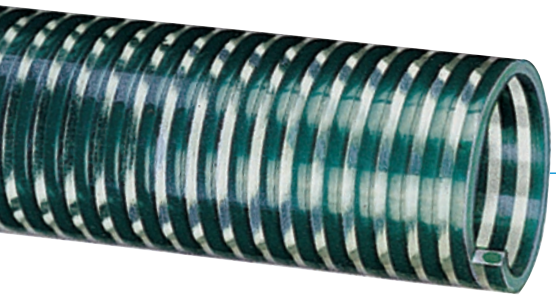

K™ Series

Standard-Duty, PVC Suction Hose

GENERAL APPLICATIONS

- Agricultural liquid fertilizer
- Air seeder lines
- Drain lines
- Irrigation lines
- Mining applications
- Pumps, rental and construction dewatering
- Pumps, trash
- Rock dusting
- Water suction – standard duty

CONSTRUCTION

PVC tube with rigid PVC helix

MADE IN THE USA

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

FEATURES AND ADVANTAGES

- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **Smooth Outer Cover (Sizes 3/4" – 4") –** Provides increased pressure rating and smooth surface for banding.
- **Convoluted Outer Cover (Sizes 6" & 8") –** Provides increased hose flexibility.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
K075	3/4	19.0	1.01	25.6	110	70	28	26	3	200/100	0.19
K100	1	25.4	1.26	32.0	85	60	28	26	3	200/100	0.26
K125	1 1/4	31.7	1.56	39.6	85	60	28	24	4	200/100	0.35
K150	1 1/2	38.1	1.83	46.5	70	50	28	24	5	200/100	0.48
K200	2	50.8	2.32	59.0	65	45	28	24	7	200/100	0.66
K250	2 1/2	63.5	2.87	73.0	65	45	28	24	8	200/100	0.87
K300	3	76.2	3.43	87.0	60	40	28	22	10	200/100	1.24
K400	4	101.6	4.50	114.7	50	35	28	22	15	200/100	1.85
K600	6	152.4	6.75	171.4	40	25	28	20	30	100/20	3.39
K800	8	203.2	8.86	225.0	30	20	26	20	35	20	5.63

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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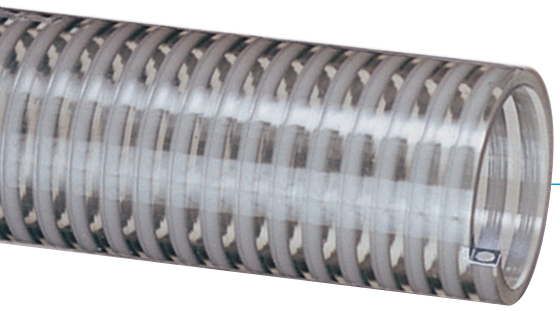

F™ Series

Heavy-Duty, PVC Suction Hose

GENERAL APPLICATIONS

- Irrigation lines
- Pumps, rental and construction dewatering
- Pumps, trash
- Water suction – heavy duty

CONSTRUCTION

PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Transparent Construction –** "See-the-flow." Allows for visual confiurmation of material flow.
- **Smooth Outer Cover (Sizes 3/4" – 4") –** Provides increased pressure rating and smooth surface for banding.
- **Convoluted Outer Cover (Size 6") –** Provides increased hose flexibility.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in)	Standard Length	Weight
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F	at 68°F	(ft)	(lbs/ft)
F075	3/4	19.0	1.01	25.6	115	75	Full	28	3	100	0.21
F100	1	25.4	1.26	32.0	100	65	Full	28	3	100	0.27
F125	1 1/4	31.7	1.56	39.6	100	65	Full	26	4	100	0.36
F150	1 1/2	38.1	1.83	46.5	100	65	Full	26	5	100	0.48
F200	2	50.8	2.38	60.4	100	65	Full	26	7	100	0.71
F250	2 1/2	63.5	2.89	73.4	70	48	Full	26	8	100	0.96
F300	3	76.2	3.44	87.4	70	45	Full	26	10	100	1.25
F400	4	101.6	4.57	116.1	60	40	Full	26	15	100	1.95
F600	6	152.4	6.77	172.0	40	25	28	22	25	100/20	3.76

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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G™ Series

Heavy-Duty, PVC Suction Hose

GENERAL APPLICATIONS

- Irrigation lines
- Pumps, rental and construction dewatering
- Pumps, trash
- Water suction – heavy duty

CONSTRUCTION

PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **"Safety Orange" Color –** For high visibility on job site. Reduces risk of running or tripping over hose.
- **Smooth Outer Cover (Sizes 3/4" – 4") –** Provides increased pressure rating and smooth surface for banding.
- **Convoluted Outer Cover (Sizes 6" & 8") –** Provides increased hose flexibility.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
G100	1	25.4	1.26	32.0	100	65	Full	28	3	100	0.27
G150	1 1/2	38.1	1.83	46.5	100	65	Full	26	5	100	0.48
G200	2	50.8	2.38	60.4	100	65	Full	26	7	100	0.71
G250	2 1/2	63.5	2.89	73.4	70	48	Full	26	8	100	0.96
G300	3	76.2	3.44	87.4	70	45	Full	26	10	100	1.25
G400	4	101.6	4.57	116.1	60	40	Full	26	15	100	1.95
G600	6	152.4	6.77	172.0	40	25	28	22	25	100/20	3.76
G800	8	203.2	8.90	226.1	30	20	28	18	30	20	6.00

NOTES:
- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*
Phthalate Free (10), **RoHS** (11)

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S™ Series

Heavy-Duty, PVC Suction Hose

GENERAL APPLICATIONS

- Irrigation lines
- Pumps, rental and construction dewatering
- Pumps, trash
- Water suction – heavy duty

CONSTRUCTION

PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Smooth Outer Cover –** Provides increased pressure rating and smooth surface for banding.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
S100	1	25.4	1.26	32.0	100	65	Full	28	3	100	0.27
S125	1 1/4	31.7	1.56	39.6	100	65	Full	26	4	100	0.36
S150	1 1/2	38.1	1.83	46.5	100	65	Full	26	5	100	0.48
S200	2	50.8	2.38	60.4	100	65	Full	26	7	100	0.71
S300	3	76.2	3.44	87.4	70	45	Full	26	10	100	1.25

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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SOLARGUARD™ SG™ Series

PVC Liquid Suction Hose with High UV Resistance

GENERAL APPLICATIONS

- Agricultural liquid fertilizer
- Air seeder lines
- Irrigation lines
- Pumps, rental and construction dewatering
- Pumps, trash
- Water suction – standard duty

CONSTRUCTION

Flexible PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to 150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

See page 89 for details on UV Resistance

FEATURES AND ADVANTAGES

- **Advanced UV Protection! –** The hose material is specially formulated to resist the cracking that can result from exposure to damaging UV light. Our tests show the Solarguard material retained 97% of its original tensile strength after prolonged UV exposure, compared to only 55% tensile strength retention for similar PVC hoses.†
- **"Safety Yellow" Color –** For high visibility on site. Reduces risk of tripping or driving over hose.
- **Smooth Outer Cover –** Provides smooth surface for banding.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
SG150	1 1/2	38.4	1.78	45.2	65	45	28	24	5	100	0.38
SG200	2	51.1	2.40	59.0	60	40	28	24	6	100	0.56
SG300	3	76.7	3.41	86.5	55	35	26	22	9	100	1.00
SG400	4	102.4	4.44	112.8	50	35	26	22	15	100	1.70
SG600	6	153.4	6.83	173.4	40	25	26	22	30	100/20	3.36

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

† This information is based on independent third party test reports which are, to the best of our knowledge, complete and accurate. However, no warranty is expressed or implied, as specific application parameters such as temperature, stress and strain, and chemical exposure vary widely.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10)

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Blue Water™ BW™ Series

Low Temperature, PVC Suction Hose

GENERAL APPLICATIONS

- Extreme cold conditions
- Pumps, rental and construction dewatering
- Pumps, trash
- Water suction – standard duty

CONSTRUCTION

PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures. Beware of imitations! Blue Water™ truly remains flexible in extreme cold.
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **Smooth Outer Cover (Sizes 1" – 4")** – Provides increased pressure rating and smooth surface for banding.
- **Convoluted Outer Cover (Sizes 5" & 6")** – Provides increased hose flexibility.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
BW075	3/4	19.1	1.01	25.6	115	75	Full	28	3	100	0.19
BW100	1	25.4	1.26	32.0	90	65	Full	28	3	100	0.22
BW125	1 1/4	31.8	1.56	39.6	90	65	Full	26	4	100	0.36
BW150	1 1/2	38.1	1.79	45.5	90	65	Full	26	5	100	0.48
BW200	2	50.8	2.35	59.8	90	65	Full	26	7	100	0.62
BW250	2 1/2	63.5	2.87	73.0	70	48	Full	26	8	100	0.87
BW300	3	76.2	3.43	87.0	65	45	Full	26	10	100	1.23
BW400	4	101.6	4.49	114.0	55	40	Full	26	15	100	1.83
BW500	5	127.0	5.57	141.5	45	30	28	24	25	100/20	2.42
BW600	6	152.4	6.69	170.0	40	25	28	22	30	100/20	3.36

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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Cold Flex™ CF™ Series

Extra Heavy-Duty, Low Temperature, PVC Suction Hose

GENERAL APPLICATIONS

- Extreme cold conditions
- Irrigation lines
- Material handling – standard duty
- Pumps, rental and construction dewatering
- Pumps, trash
- Slurry handling
- Water suction – heavy duty

CONSTRUCTION

PVC tube with rigid PVC helix

MADE IN THE USA

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

FEATURES AND ADVANTAGES

- **Superior Vacuum Rating –** Our toughest and most durable liquid suction hose! Extremely thick hose tube and extra large helix provide for a tough, durable hose with all sizes rated to full vacuum (at 68°F).
- **Cold Flex™ Materials –** Hose remains flexible in sub-zero temperatures.
- **Convoluted Outer Cover –** Provides increased hose flexibility.
- **Charge Reducing Tube –** Specially formulated to help prevent the build-up of static electricity for added safety and help keep material flowing smoothly.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
CF150	1 1/2	38.1	1.84	46.7	100	65	Full	28	3	100	0.40
CF200	2	50.8	2.41	61.2	100	65	Full	28	4	100	0.75
CF250	2 1/2	63.5	2.93	74.5	90	55	Full	28	6	100	0.99
CF300	3	76.2	3.59	91.2	80	50	Full	28	7	100	1.34
CF400	4	101.6	4.67	118.6	65	35	Full	28	11	100	2.15
CF600	6	152.4	6.87	174.4	50	25	Full	28	18	100/50	3.76
CF800†	8	204.8	9.13	232.0	35	15	Full	26	24	20	5.92

NOTES:
• Service life may vary depending on operating conditions and type of material being conveyed.
†Non-stock item. Special order, minimums required. Contact your nearest KOA warehouse location for more information.

CAUTION: Hose is not to be used in combustible situations unless it has been determined by the end user the application if not sufficient to result in propagating brush discharge.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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W™ Series

Heavy-Duty, PVC Liquid Suction Hose

GENERAL APPLICATIONS

- Extreme cold conditions (Sizes 4" - 16")
- Fish suction
- Gold dredging
- Pumps, rental and construction dewatering
- Pumps, trash
- Slurry handling
- Water suction – heavy duty

CONSTRUCTION

PVC tube with rigid PVC helix

MADE IN THE USA

SERVICE TEMPERATURE RANGE

Sizes 1" - 3": -4°F (-20°C) to +150°F (+65°C)*
Sizes 4" - 16": -40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

THE ORIGINAL HEAVY DUTY SUCTION HOSE

FEATURES AND ADVANTAGES

- **"Cold-Flex" Materials (Sizes 4" - 16") –** Hose remains flexible in sub-zero temperatures.
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **Convoluted Outer Cover –** Provides increased hose flexibility.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
W100	1	25.4	1.30	33.0	55	35	Full	28	1	200/100	0.21
W125	1 1/4	31.7	1.60	40.6	50	30	Full	28	2	200/100	0.28
W150	1 1/2	38.1	1.85	47.0	50	30	Full	28	2	200/100	0.34
W200	2	50.8	2.40	61.0	50	30	Full	28	3	200/100	0.52
W250	2 1/2	63.5	2.99	75.9	45	25	Full	28	4	200/100	0.77
W300	3	76.2	3.64	92.5	45	25	Full	28	6	200/100	1.18
W400	4	101.6	4.76	121.0	35	18	Full	28	8	200/100	1.92
W500	5	127.0	5.75	146.0	35	18	28	25	12	100/20	2.95
W600	6	152.4	7.00	177.8	30	15	28	25	14	100/20	3.76
W800	8	203.2	9.18	233.2	30	15	28	25	24	40/20	5.99
W1000	10	254.0	11.56	293.5	25	12	28	25	39	40/20	9.74
W1200	12	304.8	13.64	346.5	20	10	28	25	59	40/20	12.77
W1400†	14	357.6	15.59	396.0	18	8	26	23	80	20	13.50
W1600†	16	408.4	17.72	450.0	12	5	24	20	95	20	16.00

NOTES:
• Service life may vary depending on operating conditions and type of material being conveyed.
†Non-stock item, minimum order quantities apply. Contact Kuriyama Customer Service for details.

COMPLIANCES *(for details see page 87)*
Phthalate Free (10), **RoHS** (11)

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SOLARGUARD™ SLR™ Series

PVC Liquid Suction Hose with High UV Resistance

GENERAL APPLICATIONS

- Agricultural liquid fertilizer
- Air seeder lines
- Irrigation lines
- Pumps, rental and construction dewatering
- Pumps, trash
- Water suction – heavy duty

CONSTRUCTION

Flexible PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to 150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

See page 89 for details on UV Resistance

FEATURES AND ADVANTAGES

- **Advanced UV Protection! –** The hose material is specially formulated to resist the cracking that can result from exposure to damaging UV light. Our tests show the Solarguard material retained 97% of its original tensile strength after prolonged UV exposure, compared to only 55% tensile strength retention for similar PVC hoses.†
- **"Safety Yellow" Color –** For high visibility on site. Reduces risk of tripping or driving over hose.
- **Convoluted Outer Cover –** Provides increased hose flexibility.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
SLR150	1 1/2	38.1	1.85	47.0	50	30	Full	28	2	100	0.34
SLR200	2	50.8	2.40	61.0	50	30	Full	28	3	100	0.52
SLR250	2 1/2	63.5	2.99	75.9	45	25	Full	28	4	100	0.77
SLR300	3	76.2	3.64	92.5	45	25	Full	28	6	100	1.18
SLR400	4	101.6	4.76	121.0	35	18	Full	28	8	100	1.92
SLR600	6	152.4	7.00	177.8	30	15	28	25	14	100/20	3.76
SLR800	8	203.2	9.18	233.2	30	15	28	25	24	40/20	5.99

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

† This information is based on independent third party test reports which are, to the best of our knowledge, complete and accurate. However, no warranty is expressed or implied, as specific application parameters such as temperature, stress and strain, and chemical exposure vary widely.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10)

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WH™ Series / SH™ Series

Standard-Duty, PVC Liquid Suction Hose

GENERAL APPLICATIONS

- Drain lines
- Dust collection
- Gold dredging
- Water suction – standard duty

CONSTRUCTION

PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

WH: -4°F (-20°C) to +150°F (+65°C)*

SH: -40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

OUR MOST Flexible SUCTION HOSE

FEATURES AND ADVANTAGES

- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero. (SH only)
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **Convoluted Outer Cover –** Provides increased hose flexibility.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
WH100	1	25.4	1.22	31.0	45	15	Full	24	1	100	0.15
WH125	1 1/4	31.8	1.54	39.2	40	12	Full	24	1	100	0.20
WH150	1 1/2	38.1	1.80	45.7	40	12	Full	24	1 1/2	100	0.25
WH200	2	50.8	2.32	58.7	35	10	26	20	2 1/2	100	0.31
SH250	2 1/2	63.5	9.97	75.5	30	9	24	18	3	100	0.43
SH300	3	76.2	3.48	88.4	25	7	24	18	4	100	0.64
SH400	4	101.6	4.52	114.8	25	7	18	14	6	100	1.06
SH500	5	127.0	5.57	141.5	20	6	16	12	10	100	1.47
SH600	6	153.4	6.69	169.9	20	6	14	10	12	100	2.27
SH800	8	204.8	8.86	225.0	10	3	12	8	24	60	3.34

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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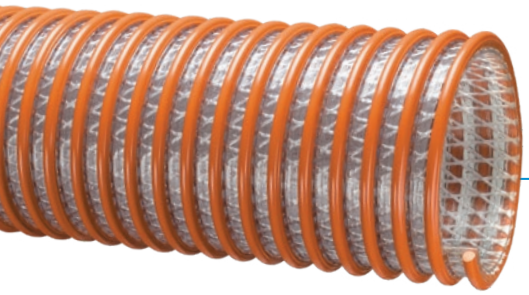

WST™ Series

Heavy-Duty, PVC, Fabric Reinforced, Suction & Discharge Hose

GENERAL APPLICATIONS

- Fish suction
- Irrigation lines
- Pumps, rental and construction dewatering
- Pumps, trash
- Suction and discharge
- Water suction – heavy duty

CONSTRUCTION

Double-ply PVC tube, polyester fabric reinforcement and rigid PVC helix

MADE IN THE USA

NEW SIZES

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

FEATURES AND ADVANTAGES

- **Fabric Reinforcement –** Designed with high tensile strength polyester yarn jacket to handle both suction and higher pressure discharge applications.
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **Easy Slide Helix –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
WST150	1 1/2	38.1	1.95	49.5	110	70	Full	28	2 1/2	100	0.42
WST200	2	50.8	2.60	66.0	100	65	Full	28	4	100	0.74
WST300	3	76.2	3.62	92.0	100	50	Full	28	6	100/20	1.13
WST400	4	101.6	4.76	121.0	75	37	Full	28	8	100/20	1.74
WST500	5	127.0	5.98	151.9	70	35	28	25	11	100/20	2.95
WST600	6	152.4	7.17	182.1	70	35	28	25	13	100/20	3.88
WST800	8	203.5	9.21	234.0	60	30	26	20	18	25/20	5.57
WST1000	10	254.0	11.49	292.0	30	25	25	18	22	40/25/20	8.63
WST1200	12	304.8	13.78	350.2	30	25	25	18	24	20	13.08

NOTES:
- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*
Phthalate Free (10), **RoHS** (11)

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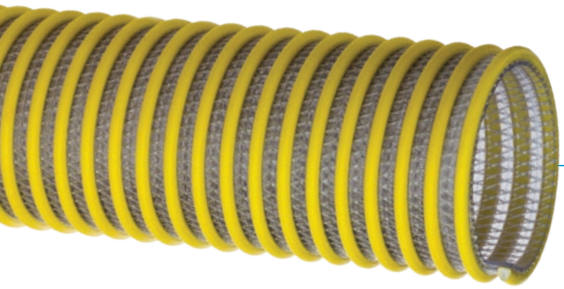

SOLARGUARD™ WST-SLR™ Series

Heavy Duty PVC Fabric Reinforced Suction & Discharge Hose with High UV Resistance

GENERAL APPLICATIONS

- Fish suction
- Irrigation lines
- Pumps, rental and construction dewatering
- Pumps, trash
- Suction and discharge
- Water suction – heavy duty

CONSTRUCTION

Double-ply PVC tube, polyester fabric reinforcement and rigid PVC helix.

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to 150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

See page 89 for details on UV Resistance

FEATURES AND ADVANTAGES

- **Advanced UV Protection!** – The hose material is specially formulated to resist the cracking that can result from exposure to damaging UV light. Our tests show the Solarguard material retained 97% of its original tensile strength after prolonged UV exposure, compared to only 55% tensile strength retention for similar PVC hoses.†
- **Advanced Transparent UV Protected Construction** – "See-the-flow." Allows for visual confirmation of material flow.
- **Fabric Reinforcement** – High tensile strength polyester yarn jacket to handle both suction and higher pressure discharge applications.
- **Easy Slide "Safety Yellow" Helix** – Highly visible yellow color helps to easily identify hose. Rigid helix design protects hose tube from cover wear and allows hose to slide easily over rough surfaces.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
WST-SLR150	1-1/2	38.1	1.95	49.5	110	70	Full	28	2.5	100	0.42
WST-SLR200	2	50.8	2.60	66.0	100	65	Full	28	4	100	0.74
WST-SLR300	3	76.2	3.62	92.0	100	50	Full	28	6	100	1.13
WST-SLR400	4	101.6	4.76	121.0	75	37	Full	28	8	100/20	1.74
WST-SLR600	6	152.4	7.17	182.1	70	35	28	25	13	100/20	3.88
WST-SLR800	8	203.5	9.21	234.0	60	30	26	20	18	20	5.57

NOTES:

• Service life may vary depending on operating conditions and type of material being conveyed.

† This information is based on independent third party test reports which are, to the best of our knowledge, complete and accurate. However, no warranty is expressed or implied, as specific application parameters such as temperature, stress and strain, and chemical exposure vary widely.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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WG™ Series

Heavy-Duty, PVC Liquid Suction Hose

GENERAL APPLICATIONS

- Fish suction
- Irrigation lines
- Pumps, rental and construction dewatering
- Pumps, trash
- Rock dusting
- Water suction – heavy duty

CONSTRUCTION

PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Highly Durable PVC Tube –** Formulated from highly durable PVC compound for increased abrasion and tear resistance.
- **Convoluted Outer Cover –** Provides increased hose flexibility.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in)	Standard Length	Weight
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F	at 68°F	(ft)	(lbs/ft)
WG150	1 1/2	38.1	1.85	47.0	50	25	Full	28	2	100	0.34
WG200	2	50.8	2.40	61.0	50	25	Full	28	3	100	0.52
WG300	3	76.2	3.64	92.5	45	25	Full	28	6	100	1.18
WG400	4	101.6	4.76	120.9	35	18	Full	28	8	100	1.93

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

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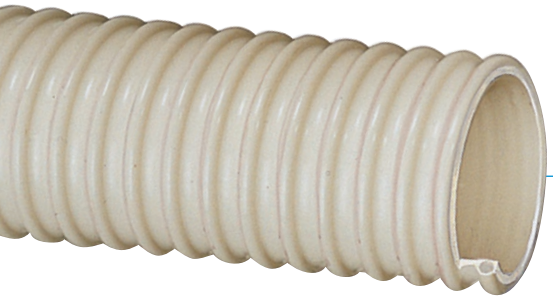


MH™ Series *"Marine Hose"*

PVC Suction Hose

GENERAL APPLICATIONS

- Drain lines
- Marine bilge discharge
- Marine plumbing
- Recreational vehicle (RV) plumbing

CONSTRUCTION

PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

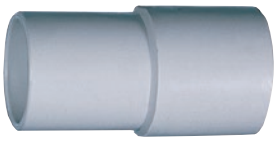
MADE IN THE USA

FEATURES AND ADVANTAGES

- **Odor-resistant Tube –** Special additives help eliminate the build-up of unwanted odors.
- **Convoluted Outer Cover –** Provides increased hose flexibility.
- **Easy Installation –** Ideal for working in confined areas. Permits installers to make smooth, tight turns. Requires fewer fittings than rigid pipe.

CUSTOM MOLDED CUFF

1 1/2" Molded cuff is designed for use with Tigerflex® Series MH150 marine hose.



Part No. A2150L1

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
MH100	1	25.4	1.22	31.0	45	15	Full	24	1	100	0.15
MH125	1 1/4	32.0	1.49	38.0	40	12	Full	24	1 1/2	100	0.20
MH150	1 1/2	38.1	1.77	45.0	40	12	Full	24	2	100	0.25
MH200	2	50.8	2.32	59.0	35	10	26	20	2 1/2	100	0.31

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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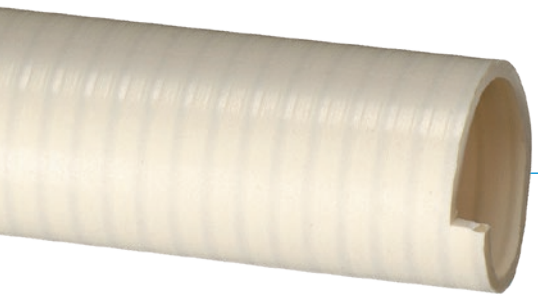

FMCR™ Series *"Spa Hose"*

PVC Suction Hose

GENERAL APPLICATIONS

- Commonly referred to as "flex pipe"
- Drain lines
- Spa, pool and hot tub plumbing

CONSTRUCTION

PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-4°F (-20°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Precision Controlled OD –** Designed to be glued into Schedule 40 PVC fittings.
- **Easy Installation –** Ideal for working in confined areas. Permits installers to make smooth, tight turns. Requires fewer fittings than rigid pipe when plumbing a normal spa or hot tub application.

Series Number	IPS Size (in)	OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
		(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
F16MCR	1/2	0.850	21.59	100	70	28	26	2	100/50	0.14
F20MCR	3/4	1.053	26.75	100	70	28	26	2	100/50	0.21
F27MCR	1	1.320	33.53	100	70	28	24	3	100/50	0.28
F36MCR	1 1/4	1.663	42.24	80	55	28	24	4	100/50	0.37
F42MCR	1 1/2	1.904	48.36	70	50	28	24	4	100/50	0.44
F52MCR	2	2.381	60.48	70	50	28	24	6	100/50	0.58
F78MCR	3	3.500	88.90	65	40	28	22	8	50	1.20

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.
- Use with recommended primers and PVC cements; consult with glue supplier for recommendations. Coils of Tigerflex® Spa Hose should not be stacked more than five coils high. Hose which has been stacked high may be damaged over time.
- Black color available upon request. Minimum order quantity may apply. Contact Kuriyama customer service for details.

PRODUCT WARNING

Like other materials, Spa Hoses can be damaged by rodents or insects, including termites. Our warranty does not cover damages caused by them. Spa Hose should not be used underground in areas infested by termites. This product warning shall be given to every purchaser of Spa Hose. (Rev. 7/98)

COMPLIANCES *(for details see page 87)*

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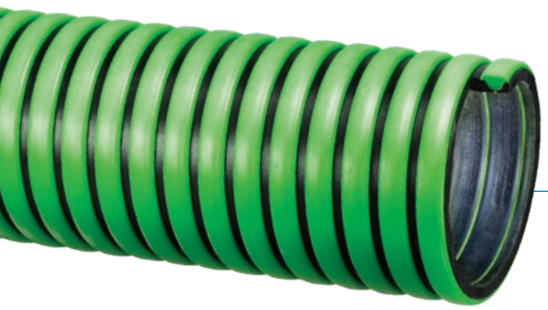

Tiger™ Green TG™ Series

EPDM Suction Hose

GENERAL APPLICATIONS

- Agriculture liquid fertilizers
- Irrigation lines
- Liquid manure handling
- Marine bilge discharge
- Pumps, rental and construction dewatering
- Pumps, trash
- Septic and wastewater handling
- Used frack solution removal
- Water suction – standard duty

CONSTRUCTION

EPDM tube with polyethylene helix

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +160°F (+71°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Superior Rubber Compounds –** Tigerflex™ uses only the best available EPDM compounds, which provide the ideal combination of light-weight, flexibility, durability and chemical resistance.
- **Superior Flexibility –** Our tests show up to 22% more flexible than the competition, especially in sub-zero weather! Tiger™ Green Hose is more flexible coming off the truck and easier to handle than other similar hoses.
- **Easy Slide Helix –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces and around corners. Easy-to-handle.
- **Convoluted Outer Cover –** Provides increased hose flexibility.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in)	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F	at 68°F		
TG100	1	25.4	1.40	35.5	65	45	FULL	28	2	100	0.28
TG125	1 1/4	31.8	1.63	41.4	60	40	FULL	28	3	100	0.33
TG150	1 1/2	38.1	1.93	49.0	50	35	FULL	28	3	100	0.44
TG200	2	50.8	2.51	63.8	50	35	FULL	28	5	100	0.67
TG250	2 1/2	63.5	3.07	78.0	45	30	FULL	28	5 1/2	100	0.95
TG300	3	76.2	3.60	91.5	45	30	FULL	26	7	100	1.14
TG400	4	101.6	4.70	119.5	40	25	FULL	26	11 1/2	100	1.84
TG600	6	152.4	6.85	174.0	30	20	28	24	20	100/20	3.07

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.
- Other colors available upon request. Minimum order quantity may apply. Contact Kuriyama Tigerflex department for details.
- Contact your nearest KOA warehouse for availability of 50 ft. lengths.

COMPLIANCES *(for details see page 87)*

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Tiger™ Yellow TY™ Series

EPDM Suction Hose

GENERAL APPLICATIONS

- Agriculture liquid fertilizers
- Irrigation lines
- Liquid manure handling
- Marine bilge discharge
- Pumps, rental and construction dewatering
- Pumps, trash
- Septic and wastewater handling
- Used frack solution removal
- Water suction – standard duty

MADE IN THE USA

CONSTRUCTION

EPDM tube with polyethylene helix

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +160°F (+71°C)*

**Actual service temperature range is application dependent.*

FEATURES AND ADVANTAGES

- **Superior Rubber Compounds –** Tigerflex™ uses only the best available EPDM compounds, which provide the ideal combination of light-weight, flexibility, durability and chemical resistance.
- **Superior Flexibility –** Our tests show up to 22% more flexible than the competition, especially in sub-zero weather! Tiger™ Yellow Hose is more flexible coming off the truck and easier to handle than other similar hoses.
- **Easy Slide Helix –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces and around corners. Easy-to-handle.
- **Convoluted Outer Cover –** Provides increased hose flexibility.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in)	Standard Length	Weight
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F	at 68°F	(ft)	(lbs/ft)
TY100	1	25.4	1.40	35.5	65	45	FULL	28	2	100	0.28
TY125	1 1/4	31.8	1.63	41.4	60	40	FULL	28	3	100	0.33
TY150	1 1/2	38.1	1.93	49.0	50	35	FULL	28	3	100	0.44
TY200	2	50.8	2.51	63.8	50	35	FULL	28	5	100	0.67
TY300	3	76.2	3.60	91.5	45	30	FULL	26	7	100	1.14
TY400	4	101.6	4.70	119.5	40	25	FULL	26	11 1/2	100	1.84

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.
- Other colors available upon request. Minimum order quantity may apply. Contact Kuriyama Tigerflex department for details.
- Contact your nearest KOA warehouse for availability of 50 ft. lengths.

COMPLIANCES *(for details see page 87)*

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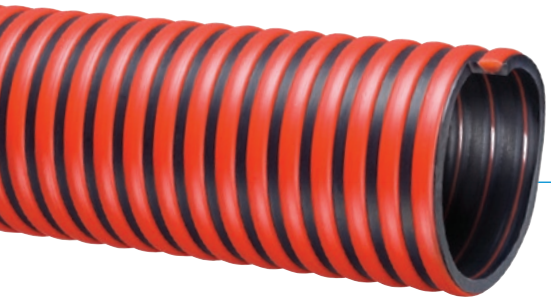

Tiger™ Red TRED™ Series

EPDM Suction Hose

GENERAL APPLICATIONS

- Agriculture liquid fertilizers
- Irrigation lines
- Liquid manure handling
- Marine bilge discharge
- Pumps, rental and construction dewatering
- Pumps, trash
- Septic and wastewater handling
- Used frack solution removal
- Water suction – standard duty

MADE IN THE USA

CONSTRUCTION

EPDM tube with polyethylene helix

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +160°F (+71°C)*

**Actual service temperature range is application dependent.*

FEATURES AND ADVANTAGES

- **Superior Rubber Compounds –** Tigerflex™ uses only the best available EPDM compounds, which provide the ideal combination of light-weight, flexibility, durability and chemical resistance.
- **Superior Flexibility –** Our tests show up to 22% more flexible than the competition, especially in sub-zero weather! Tiger™ Red Hose is more flexible coming off the truck and easier to handle than other similar hoses.
- **Easy Slide Helix –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces and around corners. Easy-to-handle.
- **Convoluted Outer Cover –** Provides increased hose flexibility.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in)	Standard Length	Weight
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F	at 68°F	(ft)	(lbs/ft)
TRED200	2	50.8	2.51	63.8	50	35	FULL	28	5	100	0.67
TRED300	3	76.2	3.60	91.5	45	30	FULL	26	7	100	1.14
TRED400	4	101.6	4.70	119.5	40	25	FULL	26	11 1/2	100	1.84

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.
- Other colors available upon request. Minimum order quantity may apply. Contact Kuriyama Tigerflex department for details.
- Contact your nearest KOA warehouse for availability of 50 ft. lengths.

COMPLIANCES *(for details see page 87)*

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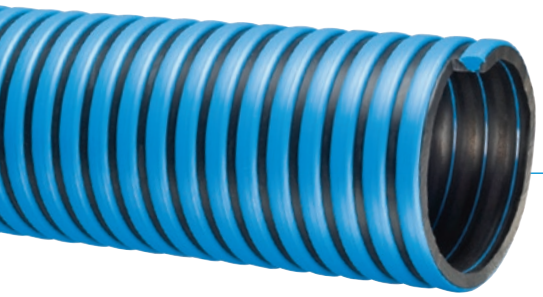

Tiger™ Blue TBLU™ Series

EPDM Suction Hose

GENERAL APPLICATIONS

- Agriculture liquid fertilizers
- Irrigation lines
- Liquid manure handling
- Marine bilge discharge
- Pumps, rental and construction dewatering
- Pumps, trash
- Septic and wastewater handling
- Used frack solution removal
- Water suction – standard duty

MADE IN THE USA

CONSTRUCTION

EPDM tube with polyethylene helix

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +160°F (+71°C)*

**Actual service temperature range is application dependent.*

FEATURES AND ADVANTAGES

- **Superior Rubber Compounds –** Tigerflex™ uses only the best available EPDM compounds, which provide the ideal combination of light-weight, flexibility, durability and chemical resistance.
- **Superior Flexibility –** Our tests show up to 22% more flexible than the competition, especially in sub-zero weather! Tiger™ Green Hose is more flexible coming off the truck and easier to handle than other similar hoses.
- **Easy Slide Helix –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces and around corners. Easy-to-handle.
- **Convoluted Outer Cover –** Provides increased hose flexibility.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
TBLU200	2	50.8	2.51	63.8	50	35	FULL	28	5	100	0.67
TBLU300	3	76.2	3.60	91.5	45	30	FULL	26	7	100	1.14
TBLU400	4	101.6	4.70	119.5	40	25	FULL	26	11 1/2	100	1.84

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.
- Other colors available upon request. Minimum order quantity may apply. Contact Kuriyama Tigerflex department for details.
- Contact your nearest KOA warehouse for availability of 50 ft. lengths.

COMPLIANCES *(for details see page 87)*

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TSD™ Series

EPDM Fabric Reinforced, Suction & Discharge Hose

GENERAL APPLICATIONS

- Agriculture liquid fertilizers
- Agri-foam systems
- Liquid manure handling
- Pumps, rental and construction dewatering
- Pumps, trash
- Septic and wastewater handling
- Suction and discharge
- Water suction – heavy duty

CONSTRUCTION

Double-ply EPDM, polyester fabric reinforcement and polyethylene helix

MADE IN THE USA

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +160°F (+71°C)*

**Actual service temperature range is application dependent.*

FEATURES AND ADVANTAGES

- **Superior Rubber Compounds –** Tigerflex™ uses only the best available EPDM compounds, which provide the ideal combination of light-weight, flexibility, durability and chemical resistance.
- **Fabric Reinforcement –** Designed with high tensile strength polyester yarn jacket to handle both suction, and higher pressure discharge applications.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.
- **Easy Slide Helix –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces and around corners. Easy-to-handle.
- **Convoluted Outer Cover –** Provides increased hose flexibility.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
TSD125	1 1/4	31.8	1.70	43.2	100	75	FULL	28	3	100	0.41
TSD150	1 1/2	38.1	2.00	50.7	100	75	FULL	28	3	100	0.51
TSD200	2	50.8	2.54	64.5	100	75	FULL	28	5	100	0.73
TSD300	3	76.2	3.62	92.0	90	65	FULL	26	8	100	1.18
TSD400	4	101.6	4.53	121.0	75	50	FULL	24	9 1/2	100	1.40

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.
- Contact your nearest KOA warehouse for availability of 50 ft. lengths.

COMPLIANCES *(for details see page 87)*

RoHS (11)

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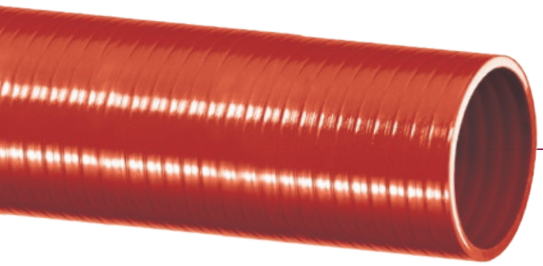

ORV™ Series

Standard-Duty, Oil Resistant, PVC Suction Hose

GENERAL APPLICATIONS

- Environmental cleanup
- Oil skimming
- Oil slurries
- Oil suction
- Vapor recovery – hydrocarbon emissions

CONSTRUCTION

Oil resistant PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

5°F (-15°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Oil Resistant PVC Tube –** Made with special oil resistant compounds which exhibit medium resistance to oil and other hydrocarbons.
- **Smooth Outer Cover –** Provides increased pressure rating and smooth surface for banding.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
ORV075	3/4	19.0	1.01	25.6	100	60	28	26	3	100	0.19
ORV100	1	25.4	1.26	32.0	80	50	28	26	3	100	0.24
ORV150	1 1/2	38.1	1.76	44.6	60	40	28	24	5	100	0.35
ORV200	2	50.8	2.32	59.0	60	40	28	24	7	100	0.55
ORV300	3	76.2	3.41	86.7	65	40	28	22	10	100	1.09

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.
- Chemical Resistant Guides (for details see pages 108-109)

COMPLIANCES *(for details see page 87)*

Phthalate Free [10], **RoHS** [11]

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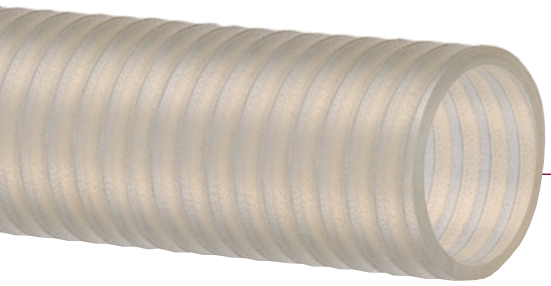

OV™ Series

Heavy-Duty, Oil Resistant, Polyurethane Suction Hose

GENERAL APPLICATIONS

- Material handling - heavy duty abrasive
- Material chutes
- Oil suction – heavy duty

CONSTRUCTION

Polyurethane tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

BIOFUEL FRIENDLY

FEATURES AND ADVANTAGES

- **Oil Resistant Polyurethane Tube –** Handles most fuels and oils. Excellent resistance to gasoline, diesel, ethanol, blends (up to E30) and biodiesels (up to B100).
- **Abrasion Resistant Polyurethane Tube –** Solid polyurethane tube outlasts other materials when severe abrasion is a factor. Provides for longer hose life and lower operating costs versus rubber or PVC hoses.
- **Transparent Construction –** "See-the-flow." Allows for visual confirmation of material flow.
- **"Cold-Flex" Materials –** Hose remains flexible in sub-zero temperatures.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
OV100	1	25.4	1.26	32.0	85	60	28	26	3	100	0.23
OV125	1 1/4	31.7	1.49	37.8	85	60	28	24	5	100	0.30
OV150	1 1/2	38.1	1.76	44.6	70	50	28	24	5	100	0.35
OV200	2	50.8	2.32	59.0	65	45	28	24	7	100	0.55

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.
- Chemical Resistant Guides (for details see pages 108-109)

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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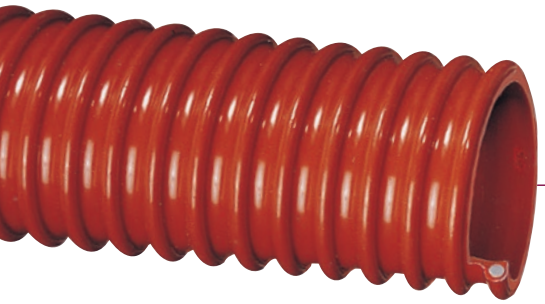

WOR™ Series

Standard-Duty, Oil Resistant, PVC Suction Hose

GENERAL APPLICATIONS

- Environmental clean-up
- Oil skimming
- Oil slurries
- Oil suction
- Vapor recovery – hydrocarbon emissions

CONSTRUCTION

Oil resistant PVC tube with rigid PVC helix

SERVICE TEMPERATURE RANGE

5°F (-15°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Oil Resistant PVC –** Made with special oil resistant compounds which exhibit medium resistance to oil and other hydrocarbons.
- **Convoluted Outer Cover –** Provides increased hose flexibility.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
WOR150	1 1/2	38.1	1.92	48.8	50	25	28	24	3	100	0.31
WOR200	2	50.8	2.40	61.0	40	20	28	24	4	100	0.50
WOR300	3	76.2	3.64	92.5	40	20	28	24	6	100	1.17
WOR400	4	101.6	4.72	119.9	35	18	28	22	10	100	1.74

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.
- Chemical Resistant Guides (for details see pages 108-109)

COMPLIANCES *(for details see page 87)*

Phthalate Free (10), **RoHS** (11)

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Tigerdrop™ TDH™ Series

Clear, "See-the-flow" Drop Hose

GENERAL APPLICATIONS

- Tank truck gravity drop fuel transfer

CONSTRUCTION

Polyurethane (TPU) tube with polyester fabric reinforcement, rigid PVC helix and embedded grounding wire

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +140°F (+60°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Biofuel Compatible –** Specially designed to handle gasoline, ethanol**, diesel and biodiesel** — and still keeps all the other great features and benefits!
- **Non-permeable polyurethane construction –** won't swell or become stiff like conventional TPR/rubber hoses. Long life reduces operating costs.
- **Lightweight –** much lighter than conventional TPR/rubber hoses.
- **Superior flexibility –** especially in sub-zero weather!
- **"See-the-flow" construction –** for visual confirmation fuel is flowing.
- **Durable Construction –** Designed with high tensile strength polyester yarn fabric reinforcement.
- **Grounding Wire –** Durable multi-strand copper wire dissipates static electricity. Physically extract wire from the rigid helix and bond to the metal coupling (or by other means) to ground.+
- **Easy Slide Helix –** Rigid counter clockwise helix design protects hose tube from cover wear; allows hose to slide easily over rough surfaces.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
TDH202	2.02	51.3	2.66	67.6	75	40	Full	28	5	100/20	0.77
TDH303	3.03	77.0	3.78	96.0	70	35	Full	28	6	100/20	1.20
TDH404	4.04	102.6	4.82	122.4	65	30	Full	28	8	100/57/20	1.80

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.
- Chemical Resistant Guides (for details see pages 108-109)

** Meeting ASTM D5798, D4806 or D6751 criteria.

^ OD measured over helix.

+ ASSEMBLY SUGGESTIONS *Hose ID specifically designed for use with Kuriyama Couplings™. Refer to Hose Assembly Coupling Installation Suggestions and Technical Bulletin on page 107 in this catalog.*

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NDH™ Series

Nitrile, Static Dissipating Drop Hose

GENERAL APPLICATIONS

• Tank truck gravity drop fuel transfer

CONSTRUCTION

Specially blended nitrile (NBR) rubber tube with polyester fabric reinforcement, rigid PVC helix and embedded grounding wire

SERVICE TEMPERATURE RANGE

-10°F (-23.3°C) to +150°F (+65.5°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Specialty Rubber Compounds –** Designed to handle gasoline, diesel, ethanol** and biodiesel.**
- **Durable Construction –** Designed with high tensile strength polyester yarn fabric reinforcement.
- **Easy to Handle –** Lighter weight and greater flexibility than conventional rubber drop hoses.‡
- **Grounding Wire –** Durable multi-strand copper wire dissipates static electricity. Physically extract wire from the rigid helix and bond to the metal coupling (or by other means) to ground.+
- **Static Dissipating Tube –** Specially formulated to help prevent the build-up of static electricity for added safety.
- **Easy Slide Helix –** Rigid clockwise helix design protects hose tube from cover wear; allows hose to slide easily over rough surfaces.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
NDH202	2.02	51.3	2.60	66.0	75	40	Full	27	5	100/20	0.80
NDH303	3.03	77.0	3.69	93.7	70	35	Full	27	6	100/20	1.24
NDH404	4.04	102.6	4.78	121.4	65	30	Full	27	8	100/57/20	2.00

NOTES:

• Service life may vary depending on operating conditions and type of material being conveyed.
• Chemical Resistant Guides (for details see pages 108-109)
** Meeting ASTM D5798, D4806 or D6751 criteria.
^ OD measured over helix.
‡ Based on Tigerflex force to bend test data @ 68°F.

+ ASSEMBLY SUGGESTIONS *Hose ID specifically designed for use with Kuriyama Couplings™. Refer to Hose Assembly Coupling Installation Suggestions and Technical Bulletin on page 107 in this catalog.*

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DuraDrop™ DURA™ Series

Heavy Duty Black Nitrile, Static Dissipating Drop Hose

GENERAL APPLICATIONS

• Tank truck and terminal gravity drop fuel transfer

CONSTRUCTION

Specially blended nitrile (NBR) rubber tube with polyester fabric reinforcement, rigid PVC helix and grounding wire

SERVICE TEMPERATURE RANGE

-10ºF (-23.3ºC) to 150ºF (+65.5ºC)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Durable construction –** Heavy duty construction for longer service life in demanding applications, such as terminal use.
- **Specialty rubber compounds –** Designed to handle gasoline, diesel, ethanol** and biodiesel.**
- **Lightweight –** much lighter than conventional TPR/ rubber hoses.
- **Grounding Wire –** Durable multi-strand copper wire dissipates static electricity. Physically extract wire from the rigid helix and bond to the metal coupling (or by other means) to ground.+
- **Easy Slide Helix –** Rigid counter clockwise helix design protects hose tube from cover wear; allows hose to slide easily over rough surfaces.

Series Number	ID		OD^		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
DURA202	2.02	51.1	2.55	64.7	95	50	Full	27	8	100/20	1.08
DURA303	3.03	76.8	3.65	92.6	90	50	Full	27	10	100/20	1.71
DURA404	4.04	101.6	4.75	120.6	80	40	Full	27	16	100/20	2.52

NOTES:

• Service life may vary depending on operating conditions and type of material being conveyed.
• Chemical Resistant Guides (for details see pages 108-109)
** Meeting ASTM D5798, D4806 or D6751 criteria.
^ OD measured over helix.

+ **ASSEMBLY SUGGESTIONS** *Hose ID specifically designed for use with Kuriyama Couplings™. Refer to Hose Assembly Coupling Installation Suggestions and Technical Bulletin on page 107 in this catalog.*

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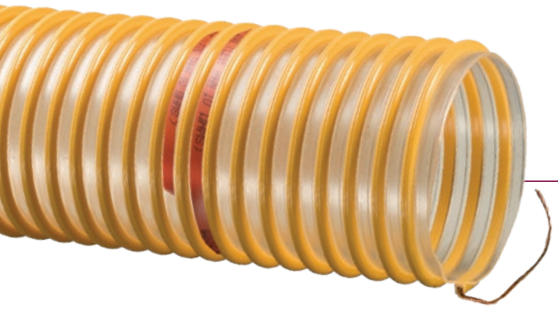

Tigervapor™ TV™ Series

Standard Duty Vapor Recovery Hose

GENERAL APPLICATIONS
• Tank truck vapor recovery

CONSTRUCTION
Polyurethane (TPU) tube with rigid PVC helix and embedded grounding wire

SERVICE TEMPERATURE RANGE
-40°F (-40°C) to +140°F (+60°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES
- **Lightweight –** much lighter than conventional TPR/rubber hoses.
- **Superior Flexibility –** especially in sub-zero weather!
- **"See-through" Construction –** for visual confirmation if fuel backs up into the vapor recovery system.
- **Grounding Wire –** Durable multi-strand copper wire dissipates static electricity. Physically extract wire from the rigid helix and bond to the metal coupling (or by other means) to ground.+
- **Easy Slide Helix –** Rigid counter clockwise helix design protects hose tube from cover wear; allows hose to slide easily over rough surfaces.
- **Biofuel Compatible –** Revolutionary polyurethane compound! Specially designed to handle gasoline, ethanol**, diesel and biodiesel** vapors... and still keeps all the other great features and benefits!
- **Non-permeable Polyurethane Construction –** won't swell or become stiff like conventional TPR/rubber hoses. Long life reduces operating costs.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
TV202	2.02	51.3	2.46	62.5	17	6	21	12	3.0	100/60	0.51
TV303	3.03	77.0	3.57	90.7	11	5	18	10	3.5	100/60	0.78
TV404	4.04	102.6	4.61	117.1	9	4	13	8	4.5	100/60	1.10

NOTES:
• Service life may vary depending on operating conditions and type of material being conveyed.
• Chemical Resistant Guides (for details see pages 108-109)
** Meeting ASTM D5798, D4806 or D6751 criteria.
^ OD measured over helix.

+ ASSEMBLY SUGGESTIONS *Hose ID specifically designed for use with Kuriyama Couplings™. Refer to Hose Assembly Coupling Installation Suggestions and Technical Bulletin on page 107 in this catalog.*

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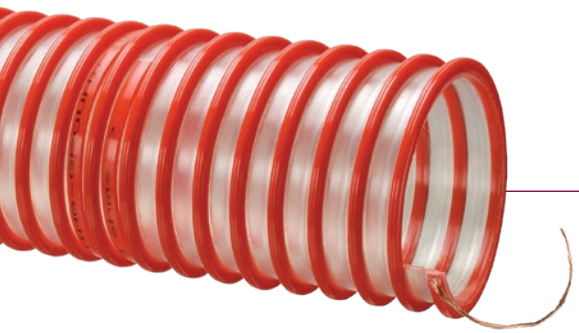

Tigervapor™ HD
TVHD™ Series

Heavy Duty, Vapor Recovery Hose

GENERAL APPLICATIONS
- Tank truck vapor recovery

CONSTRUCTION
Polyurethane (TPU) tube with rigid PVC helix and embedded grounding wire.

SERVICE TEMPERATURE RANGE
-40°F (-40°C) to +140°F (+60°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES
- **Lightweight** – much lighter than conventional TPR/rubber hoses.
- **Heavy duty construction** – thicker wall for longer hose life.
- **"See-through" construction –** for visual confirmation if fuel backs up into the vapor recovery system.
- **Grounding Wire** – Durable multi-strand copper wire dissipates static electricity. Physically extract wire from the rigid helix and bond to the metal coupling (or by other means) to ground.+
- **Easy Slide Helix** – Rigid counter clockwise helix design protects hose tube from cover wear; allows hose to slide easily over rough surfaces.
- **Biofuel Compatible** – Revolutionary polyurethane compound! Specially designed to handle gasoline, ethanol**, diesel and biodiesel** vapors... and still keeps all the other great features and benefits!
- **Non-permeable polyurethane construction** – won't swell or become stiff like conventional TPR/rubber hoses. Long life reduces operating costs.

Series Number	ID		OD^		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
TVHD303	3.03	77.0	3.54	89.9	13	8	18	11	4 1/2	100/60	0.95
TVHD404	4.04	102.6	4.61	117.1	11	7	13	9	5 1/2	100/60	1.27

NOTE:
- Service life may vary depending on operating conditions and type of material being conveyed.
- Chemical Resistant Guides (for details see pages 108-109)

** Meeting ASTM D5798, D4806 or D6751 criteria.
^ OD measured over helix.

+ **ASSEMBLY SUGGESTIONS** *Hose ID specifically designed for use with Kuriyama Couplings™. Refer to Hose Assembly Coupling Installation Suggestions and Technical Bulletin on page 107 in this catalog.*

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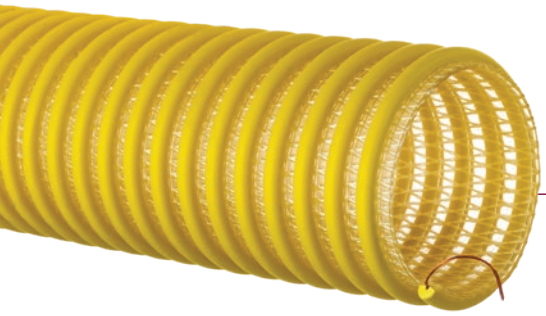

VAPORFLEX™ VAPR™ Series

Heavy Duty Reinforced Vapor Recovery Hose

GENERAL APPLICATIONS

- Vapor recovery during terminal loading
- Vapor recovery for fuel delivery

NOTE: Not intended for liquid fuel use

CONSTRUCTION

Polyurethane (TPU) tube with polyester fabric reinforcement, rigid PVC helix and embedded grounding wire

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +140°F (+60°C)*

**Actual service temperature range is application dependent.*

MADE IN THE USA

FEATURES AND ADVANTAGES

- **Durable Reinforced Construction –** Polyester reinforcement provides resistance against instances of hose tearing due to pulling or hanging. Well suited for demanding terminal use.
- **Lightweight –** Provides durability similar to that of a drop hose, but in a lighter weight version.
- **Cold-Flex™ Materials** – Hose remains flexible in sub-zero temperatures.
- **Transparent Construction –** Provides visual confirmation if fuel backs up into the vapor recovery system.
- **Grounding Wire –** Multi-strand wire helps prevent the build-up of static electricity for added safety.+
- **Easy Slide Helix –** Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces.
- **Biofuel Compatible –** Specially designed to handle gasoline, ethanol**, diesel and biodiesel** vapors.
- **Non-permeable Construction –** Won't swell or become stiff like conventional rubber hoses. Provides for longer hose life and lower operating costs.

Series Number	ID		OD^		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
VAPR303	3.03	77.0	3.75	95.3	55	45	FULL	28	6	100/60	1.00
VAPR404	4.04	102.6	4.77	121.2	55	45	FULL	28	8	100/60	1.65

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.
- Chemical Resistant Guides (for details see pages 108-109)

** Meeting ASTM D5798, D4806 or D6751 criteria.
^ OD measured over helix.

+ **ASSEMBLY SUGGESTIONS** *Hose ID specifically designed for use with Kuriyama Couplings™. Refer to Hose Assembly Coupling Installation Suggestions and Technical Bulletin on page 107 in this catalog.*

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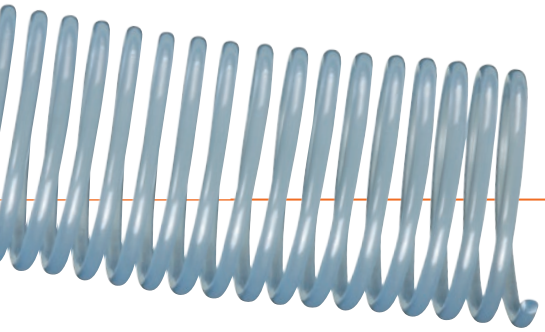


BCCF™ Series

Rigid PVC Banding Coil

GENERAL APPLICATIONS

- For hoses with a high-profile, **counterclockwise** helix*

CONSTRUCTION

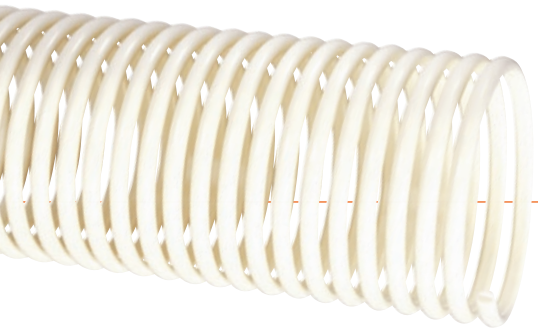
Clear, food grade, rigid PVC coils

FEATURES AND ADVANTAGES

- Food grade.
- Easy assembly.
- Provides smoother surface for banding behind coupling.
- Packaged singly: One piece to make one complete hose assembly coupled at each end.
- Cut one piece in half into two equal pieces; thread between hose helix.

MADE IN THE USA

Series Number	Fits Hose ID (in)	Color	Weight (lbs/ft)
BCCF1.5	1 1/2	Clear	0.20
BCCF2	2	Clear	0.30
BCCF3	3	Clear	0.60
BCCF4	4	Clear	0.90
BCCF5	5	Clear	1.10
BCCF6	6	Clear	1.30
BCCF8	8	Clear	1.40



BCWF™ Series

Rigid PVC Banding Coil

GENERAL APPLICATIONS

- For hoses with a low-profile, **counterclockwise** helix*

CONSTRUCTION

White, food grade, rigid PVC coils

FEATURES AND ADVANTAGES

- Food grade.
- Easy assembly.
- Provides smoother surface for banding behind coupling.
- Packaged singly: One piece to make one complete hose assembly coupled at each end.
- Cut one piece in half into two equal pieces; thread between hose helix.

MADE IN THE USA

Series Number	Fits Hose ID (in)	Color	Weight (lbs/ft)
BCWF2	2	White	0.25
BCWF3	3	White	0.45

**Refer to Tigerflex Accessories compatability chart on pages 90–92.*

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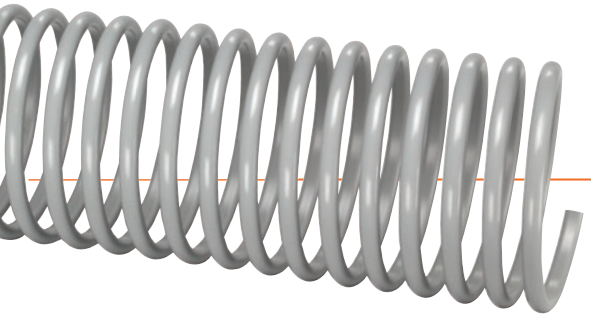


BCRT™ Series

Rigid PVC Banding Coil

GENERAL APPLICATIONS

- For hoses with a high-profile, **clockwise** helix*

CONSTRUCTION

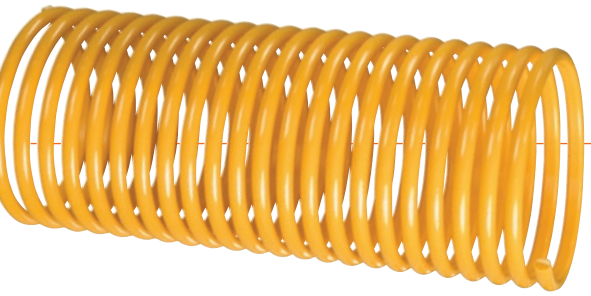
Gray, non-food grade, rigid PVC coils

FEATURES AND ADVANTAGES

- Easy assembly.
- Provides smoother surface for banding behind coupling.
- Packaged singly: One piece to make one complete hose assembly coupled at each end.
- Cut one piece in half into two equal pieces; thread between hose helix.

MADE IN THE USA

Series Number	Fits Hose ID (in)	Color	Weight (lbs/ft)
BCRT2	2	Gray	0.30
BCRT3	3	Gray	0.60
BCRT4	4	Gray	0.90



BCYL™ Series

Rigid PVC Banding Coil

GENERAL APPLICATIONS

- For hoses with a low-profile **counterclockwise** helix
- For TV™ Vapor Recovery Hoses

CONSTRUCTION

Yellow, non-food grade, rigid PVC coils

FEATURES AND ADVANTAGES

- Easy assembly.
- Provides smoother surface for banding behind coupling.
- Packaged singly: One piece to make one complete hose assembly coupled at each end.
- Cut one piece in half into two equal pieces; thread between hose helix.

MADE IN THE USA

Series Number	Fits Hose ID (in)	Color	Weight (lbs/ft)
BCYL2	2.02	Yellow	0.25
BCYL3	3.03	Yellow	0.45
BCYL4	4.04	Yellow	0.75

**Refer to Tigerflex Accessories compatability chart on pages 90–92.*

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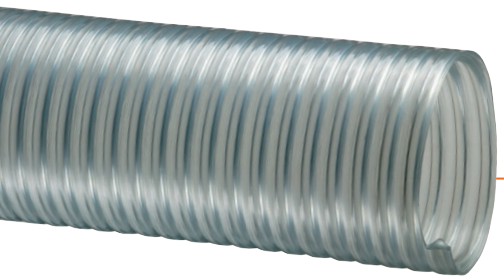

SLV-VLT™ Series

Food Grade, Charge Reducing Flexible PVC Banding Sleeve

GENERAL APPLICATIONS

- For hoses with a high-profile, ***counterclockwise*** helix*, such as the VOLT™ and VLT-SD™ series*

CONSTRUCTION

Clear, food grade, flexible PVC

FEATURES AND ADVANTAGES

- Food grade, charge reducing PVC material.
- Helps prevent over bending near the coupling.
- Cut into approximately 12-inch lengths; screw onto hose at each end.

MADE IN THE USA

Series Number	Fits Hose ID (in)	Color	Standard Length (ft)	Weight (lbs/ea)
SLV-VLT3X3	3	Clear	3	3.50
SLV-VLT4X3	4	Clear	3	4.29

SLV-DRP™ Series

Flexible PVC Banding Sleeve

GENERAL APPLICATIONS

- For hoses with a high-profile, ***counterclockwise*** helix, such as the TDH™ and VAPR™ series*

CONSTRUCTION

Green, non-food grade, flexible PVC

FEATURES AND ADVANTAGES

- Helps prevent over bending near the coupling.
- Cut into approximately 12-inch lengths; screw onto hose at each end.

MADE IN THE USA

Part Number	Fits Hose ID (in)	Color	Standard Length (ft)	Weight (lbs/ea)
SLV-DRP3X3	3.03	Green	3	3.06
SLV-DRP4X3	4.04	Green	3	4.29

**Refer to Tigerflex Accessories compatability chart on pages 90-92.*

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SLV-VAP™ Series

Flexible PVC Banding Sleeve

GENERAL APPLICATIONS

- For hoses with a low-profile, ***counterclockwise*** helix such as TV™ and TVHD™ series*

CONSTRUCTION

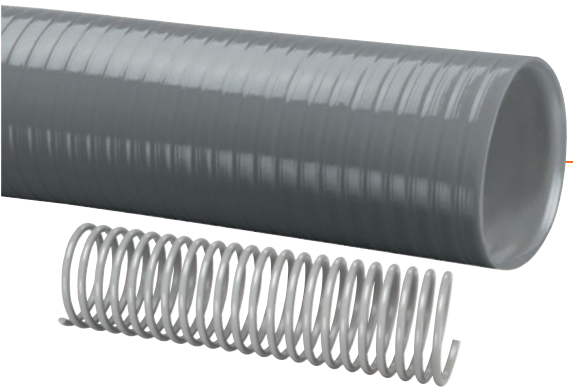
Yellow, non-food grade, flexible PVC

FEATURES AND ADVANTAGES

- Helps prevent over bending near the coupling.
- Cut into approximately 12-inch lengths; screw onto hose at each end.

MADE IN THE USA

Part Number	Fits Hose ID (in)	Color	Standard Length (ft)	Weight (lbs/ea)
SLV-VAP2X3	2.02	Yellow	3	1.80
SLV-VAP3X3	3.03	Yellow	3	3.09
SLV-VAP4X3	4.04	Yellow	3	4.20



SLV-NDH™ Series

Flexible PVC Banding Sleeve

GENERAL APPLICATIONS

- For hoses with a ***clockwise*** helix such as NDH™ series*

CONSTRUCTION

Gray, non-food grade flexible PVC

FEATURES AND ADVANTAGES

- Packaged singly with BCRT.
- Helps prevent over bending near the coupling.
- Cut coil and sleeve into approximately 12-inch lengths; thread coil between helix and slide sleeve onto hose at each end.

MADE IN THE USA

Part Number	Fits Hose ID (in)	Color	Standard Length (ft)	Weight (lbs/ea)
SLV-NDH2X3	2.02	Gray	3	1.83
SLV-NDH3X3	3.03	Gray	3	3.06
SLV-NDH4X3	4.04	Gray	3	4.29

**Refer to Tigerflex Accessories compatability chart on pages 90-92.*

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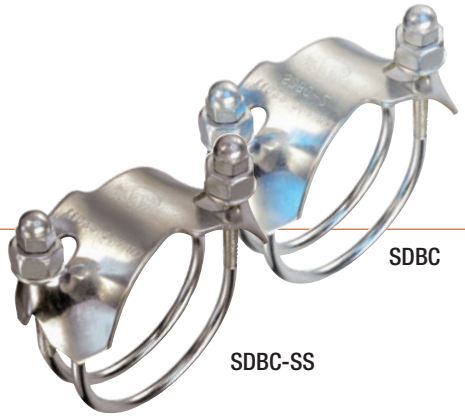

SDBC Series *(Zinc Plated Carbon Steel)*

Counterclockwise Spiral Double Bolt Clamp

SDBC-SS Series *(304 Stainless Steel)*

Counterclockwise Spiral Double Bolt Clamp

FEATURES AND ADVANTAGES

- Designed for use with hoses that have a convoluted cover or helix.*
- Spiral design allows for premium sealing between the convolutions or helix.
- Hex nut for easy installation and cap nut to prevent injury from sharp bolt edges.
- SDBC and SDBC-SS series have a ***counterclockwise*** left hand spiral design.

MATERIAL SPECIFICATIONS

- 304 stainless steel spiral rod, saddle, washer, hex nut, cap nut

Part Number	Size (in)	Maximum Torque (ft lbs)	Weight Each (lbs)	Standard Carton
SDBC-1.5	1 1/2	6	0.18	100
SDBC-2	2	6	0.36	100
SDBC-2.25	2 1/4	6	0.40	100
SDBC-2.5	2 1/2	8	0.48	100
SDBC-3	3	8	0.66	70
SDBC-3.5	3 1/2	8	0.70	70
SDBC-4	4	24	1.02	40
SDBC-5	5	24	1.76	30
SDBC-6	6	30	2.00	20
SDBC-8	8	30	2.76	10
SDBC-10	10	30	3.46	10
SDBC-12	12	30	4.14	10
SDBC-SS-1.5	1 1/2	6	0.20	100
SDBC-SS-2	2	6	0.40	100
SDBC-SS-2.5	2 1/2	6	0.55	100
SDBC-SS-3	3	8	0.73	70
SDBC-SS-3.5	3 1/2	8	0.94	100
SDBC-SS-4	4	24	1.12	40
SDBC-SS-5	5	24	1.94	30
SDBC-SS-6	6	30	2.20	20
SDBC-SS-8	8	30	3.04	10
SDBC-SS-10	10	30	3.81	10
SDBC-SS-12	12	30	4.55	10

NOTES:

- Two or more Spiral Bolt Clamps are suggested for 3" ID and larger hoses.
- Both hex nuts should be tightened equally to prevent leakage.
- Suggested SDBC/SDBC-SS sizes to use with Tigerflex Metric sized hoses: WT, WE 45M 1.77" ID – Suggested SDBC-2 and SDBC-SS-2 WT, WE 57M 2.24" ID – Suggested SDBC-2.25 WT, WE 60M 2.36" ID – Suggested SDBC-2.5 and SDBC-SS-2.5
- Refer to Tigerflex Accessories Compatibility Chart on pages 90–92

CAUTION:

- Proper evaluation of holding power for each clamp must be determined for each individual application.

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SDBCR Series *(Zinc Plated Carbon Steel)*

Clockwise Spiral Double Bolt Clamp

FEATURES AND ADVANTAGES

- Designed for use with hoses that have a convoluted cover or helix.*
- Spiral design allows for premium sealing between the convolutions.
- Hex nut for easy installation and cap nut to prevent injury from sharp bolt edges.
- SDBCR series has a ***clockwise*** right hand spiral design.

MATERIAL SPECIFICATIONS

- 304 stainless steel spiral rod, saddle, washer, hex nut, cap nut

Part Number	Size (in)	Maximum Torque (ft lbs)	Weight Each (lbs)	Standard Carton
SDBCR-1.5	1 1/2	6	0.25	100
SDBCR-2	2	6	0.36	100
SDBCR-3	3	8	0.66	70
SDBCR-4	4	24	1.02	40
SDBCR-5	5	24	1.76	30
SDBCR-6	6	30	2.00	20
SDBCR-8	8	30	2.76	10
SDBCR-10	10	30	3.45	10
SDBCR-12	12	30	4.10	10

NOTES:

- Two or more Spiral Bolt Clamps are suggested for 3" ID and larger hoses.
- Both hex nuts should be tightened equally to prevent leakage.

CAUTION:

- Proper evaluation of holding power for each clamp must be determined for each individual application.

Refer to Tigerflex Accessories compatability chart on pages 90–92.

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AL-MHS

Full Flow Swivel Coupling

Fits hoses: MULCH, MULCH-LT, BARK, LK and UV1

GENERAL APPLICATIONS

Kuriyama Camlock Couplings are intended for use in many industrial Market Applications. To learn more, please visit KOA.link/ff-uses or refer to pages 296-297 in the KOA Couplings & Accessories catalog.

FEATURES AND ADVANTAGES

- **Full Flow Interior** – Prevents material build-up due to the absence of an interior hose shank. Instead, our coupling screws easily and securely over the outside of the hose to provide full flow.
- **Swivel Joint** – Stainless steel ball bearings ensure smooth swivel action, reducing instances of hose twisting.
- **Versatile 2-piece Design** – Coupling consists of male and female ends connected by NPSM threads. Male portion also sold separately.

AL-MHS Series
Full-Flow Swivel Coupling Set
(Aluminum)

AL-MHM Series
Part D Coupler x Female
(Aluminum)

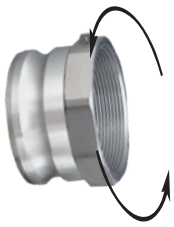
AL-MHF Series
Full-Flow Coupling Female
(Aluminum)

AL-MHD Series
Full-Flow Coupling Male
(Aluminum)

AL-MHA Series
Part A Male Coupler x Female
(Aluminum)

Fits the following Tigerflex™ series hoses:

- MULCH™
- MULCH-LT™
- BARK™
- LK™
- UV1™



Male portion also sold separately, connects to female thread (NPSM) quick acting couplings.

Part Number	Size (in)	Thread Type	Weight Each (lbs)	Standard Carton
AL-MHS400	4	NPSM	2.67	1
AL-MHM400	4	NPSM	0.93	1
AL-MHF400	4	NPSM	1.23	1
AL-MHD400	4	NPSM	2.16	1
AL-MHA400	4	NPSM	1.58	1

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ISO 9001 REGISTRATION

Tigerflex™ hoses are manufactured with ISO 9001 registered quality management systems.
The ISO 9001 family of standards represents an international consensus on good manufacturing practices with the aim of ensuring that the organization consistently delivers the product or services that meet the customer's quality requirements.

ISO 9001 is a quality assurance model against which a plant's quality system can be independently audited.

COMPLIANCE FOOTNOTES FOR TIGERFLEX™ CATALOG PRODUCTS

(01) **3A** – Material approved by 3-A Sanitary Standards, Inc. for multi-use plastic materials, number: 20-25, as product contact surfaces in equipment for production, processing and handling of milk and milk products.

(02) **BSE/TSE** – The majority of the raw materials used in our formulations are not manufactured or derived from materials of animal origin. Nor do our products come into contact with materials of animal origin during processing. Our suppliers of raw materials have assured us their compounds exceed the relevant European Guidance on minimizing the Risk of Transmitting Animal Spongiform Encephalophy Agents Via Human and Veterinary Medical Products.

(03) **FDA** – Material conforms to CFR title 21, parts 170-199.

(04) **FDA** – Material conforms to CFR title 21, parts 177.1680 and 177.2600.

(05) **FDA** – Material conforms to CFR title 21, parts 177.2600 and 175.105.

(06) **FDA** – Material conforms to CFR title 21, parts 177.2800 (5)(i), 21 CFR 170.39.

(07) **MSHA** – Hose approved by the United States Department of Labor's Mine Safety and Health Administration as having met Part 18, Title 30 CFR, and the Interim Fire Criteria for Acceptance of Products Taken into Underground Mines as water transfer hose.

(08) **MSHA** – Hose approved by the United States Department of Labor's Mine Safety and Health Administration as having met the Interim Fire Criteria Acceptance of Products Taken Into Underground Mines as a hydraulic hose/hose bundle protection sleeve. Not intended for protection of electrical cables, and not intended for the repair or conveying of damaged hydraulic hoses.

(09) **NSF** – Hose liner certified under NSF/ANSI/CAN 61 for use in potable water applications.

a) https://info.nsf.org/Certified/PwsComponents/Listings.asp?Company=C0208288&Standard=061

b) Material code PF2000

(10) **Phthalate Free** – Manufactured from all phthalate free materials.

(11) **RoHS** – The product complies with the requirements of the EU directive 2002/95/EC which is on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

(12) **USDA** – Hose complies with applicable USDA requirements for use in federally inspected meat and poultry plants.

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HIGH STATIC APPLICATIONS

In many applications, Tigerflex™ hoses with grounding wires (such as our WE, 2001 or 2020 series) or charge reducing additives (such as our WBS, UF1 or UF2 series) are sufficient to dissipate static. However, applications involving fine particles transferred at very high rates of speed have increased potential to generate static. Tigerflex™ Voltbuster™ hoses are designed for these very high static generating applications.

Static Generating Applications*	Food Grade and Non Food Grade Applications	Non Food Grade Applications Only
Very High	VOLT, VLT-SD	TR1
High	WE, 2001, 2020, GTFE & PF	UV3, UVPE
Medium	WBS	AMPH, UBK, UF1, UF2, UFC, UV2

**This chart is intended only as a guideline for selecting the proper Tigerflex™ hose series. Actual results are application-dependent. Additional factors influencing static generation include, but are not limited to, the composition of the transferred materials, rate of material transfer, relative humidity, length and size of hose, and number and degree of hose bends. It is the purchaser's responsibility to ensure hose suitability prior to installation.*

GROUNDING OF EQUIPMENT

Tigerflex™ hoses with grounding wires are designed to dissipate static electricity when the embedded grounding wire is physically extracted and securely connected to ground, through the fitting or by other means. Trucks, railcars and other equipment connected to the hose must first be grounded in order for the hose to function properly.

Hose assemblies should be tested regularly to ensure proper bond continuity of grounding wire to metal coupling.

ENGINEERED INNOVATION FOR PEACE OF MIND

STATIC SAFETY

Superior Static Protection! A properly grounded Voltbuster™ hose will not retain an electrostatic charge sufficient to create a propagating brush discharge. Hose material, using the embedded grounding wire, shows a charge decay time constant of < 1 second, based on independent lab testing.

BACK SAFETY

Tigerflex™ Voltbuster™ hoses are lightweight and flexible for worker safety. According to the US Department of Labor, sprains, strains and tear injuries account for approximately 40 percent of total injury and illness cases requiring days away from work.[1] These types of injuries are commonly the result of overexertion of the back or shoulders. Cumbersome rubber and metal hoses can pose an increased risk of these types of injuries due to their heavier weight.

FOOD SAFETY

Tigerflex™ Voltbuster™ hoses are specially designed to ensure the purity of the transferred materials. The hoses' durable stainless steel grounding wire is encapsulated in the rigid plastic helix on the exterior of the hose, safely eliminating the risk of metal contaminating the transferred materials. However, traditional plastic and food grade rubber hoses typically place their grounding wires in the body of the hose. Over time, the transfer of powders, grains or other abrasive materials can wear away the interior of the hose tube, and may ultimately reach the metal wire, causing portions to separate from the hose and contaminate the transferred materials!

[1] U.S. Department of Labor, Bureau of Labor Statistics, Nonfatal Occupational Injuries and Illnesses Requiring Days Away From Work, 2009 (November 9, 2010)

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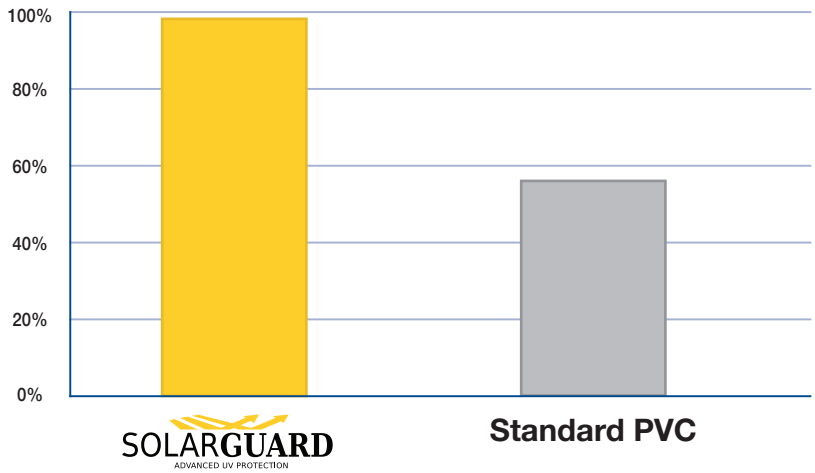
ENGINEERED INNOVATION FOR LONGER HOSE LIFE

Hoses used outdoors for prolonged periods of time are subject to damage resulting from exposure to both heat and UV light. Tigerflex™ Solarguard™ hoses are specially constructed to resist this type of damage, resulting in a hose that retains its strength and flexibility longer than standard PVC hoses.

PVC Hose cracking due to UV exposure

Solarguard hoses contain a special blend of UV stabilizers that reflect the damaging UV photons away from the hose. Also, Solarguard hoses are made from a reflective yellow pigment that reduces heat absorption (Solarguard hoses can remain up to 10°F cooler than darker colored hoses), further protecting the hose and extending the service life. Our tests showed only a minimal 3% reduction in hose material strength after prolonged UV exposure, whereas standard PVC hoses showed over 40% strength loss over the same period.

TENSILE STRENGTH RETENTION†



Solarguard hoses maintain their strength and flexibility up to twice as long as standard PVC hoses, resulting in lower overall service cost.

Percentage of tensile strength remaining after 720 hours of accelerated UV light exposure per ASTM G154

† This information is based on independent third party test reports which are, to the best of our knowledge, complete and accurate. However, no warranty is expressed or implied, as specific application parameters such as temperature, stress and strain, and chemical exposure vary widely.

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TIGERFLEX™ ACCESSORIES COMPATABILITY CHART

See key at bottom of page.

SERIES	Banding Coils			Banding Sleeves			Clamps		Cuff
	BCCF	BCWF	BCRT	SLV-VLT	SLV-DRP	SLV-VAP	SDBC SDBC-SS	SDBCR	A2150L1
2001-200	—	G	—	—	—	—	G	—	—
2001-300	G	G	—	—	—	—	G	—	—
2001-400	G	—	—	G	G	—	G	—	—
2001 other sizes	G	—	—	—	—	—	G	—	—
2020-300	G	—	—	—	G	—	G	—	—
2020-400	G	—	—	G	G	—	G	—	—
2020 other sizes	G	—	—	—	—	—	G	—	—
AMPH-BK400	G	—	—	—	—	—	G	—	—
AMPH-BK other sizes	G	—	—	—	—	—	G	—	—
BARK400	G	—	—	—	—	—	G	—	—
BARK500	G	—	—	—	—	—	G	—	—
BW500	—	—	—	—	—	—	G	—	—
BW600	—	—	—	—	—	—	G	—	—
BW other sizes	—	—	—	—	—	—	—	—	—
CF200	—	—	—	—	—	—	—	—	—
CF300	—	—	—	—	—	—	—	—	—
CF400	—	—	—	—	—	—	—	—	—
CF600	—	—	—	—	—	—	G	—	—
CF other sizes	—	—	—	—	—	—	—	—	—
Drop Hose (DURA/NDH)									
Drop Hose (TDH)									
F600	—	—	—	—	—	—	G	—	—
F800	G	—	—	—	—	—	G	—	—
F other sizes	—	—	—	—	—	—	—	—	—
FT all sizes	—	—	—	—	—	—	—	—	—
G600	—	—	—	—	—	—	G	—	—
G800	G	—	—	—	—	—	G	—	—
G other sizes	—	—	—	—	—	—	—	—	—
GC-C400	G	—	—	—	—	—	G	—	—
GC-C500	G	—	—	—	—	—	G	—	—
GC-C600	G	—	—	—	—	—	G	—	—
GT/GTG/GTFE150	G	—	—	—	—	—	G	—	G
GT/GTG/GTFE200	—	G	—	—	—	G	G	—	—
GT/GTG/GTFE300	—	G	—	—	—	G	G	—	—
GT/GTG/GTFE400	G	—	—	—	—	G	G	—	—
GT/GTG/GTFE other sizes	G	—	—	—	—	—	G	—	—
H600	—	—	—	—	—	—	G	—	—
H800	G	—	—	—	—	—	G	—	—
H other sizes	—	—	—	—	—	—	—	—	—
J600	—	—	—	—	—	—	G	—	—
J800	G	—	—	—	—	—	G	—	—
J other sizes	—	—	—	—	—	—	—	—	—
K600	—	—	—	—	—	—	G	—	—
K800	G	—	—	—	—	—	G	—	—
K other sizes	—	—	—	—	—	—	—	—	—
LK/LKC300	G	—	—	—	—	G	G	—	—

NOTES:

- Banding coils and sleeves must be used in conjunction with a suitable hose clamp. Refer to individual accessory pages in our Kuriyama-Couplings™ Catalog for detailed information on size availability.

CAUTION:

- This chart is provided only as a guideline for selection of hose accessories. Actual results will vary due to manufacturing tolerances.

KEY

G Suggested

— Not Suggested

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

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TIGERFLEX™ ACCESSORIES COMPATABILITY CHART *(continued)*

See key at bottom of page.

SERIES	Banding Coils			Banding Sleeves			Clamps		Cuff
	BCCF	BCWF	BCRT	SLV-VLT	SLV-DRP	SLV-VAP	SDBC SDBC-SS	SDBCR	A2150L1
LK/LKC400	G	—	—	—	—	—	G	—	—
LK/LKC other sizes	G	—	—	—	—	—	G	—	—
MH150	—	—	—	—	—	—	G	—	G
MH200	—	G	—	—	—	—	G	—	—
MH other sizes	—	—	—	—	—	—	—	—	—
MILK	—	—	—	—	—	—	—	—	—
MILK-LT	—	—	—	—	—	—	—	—	—
MULCH400	—	—	—	—	—	—	G	—	—
MULCH500	G	—	—	—	—	—	G	—	—
MULCH600	G	—	—	—	—	—	G	—	—
ORV all sizes	—	—	—	—	—	—	—	—	—
OV all sizes	—	—	—	—	—	—	—	—	—
PF300	G	—	—	—	—	—	G	—	—
PF400	G	—	—	G	G	—	G	—	—
PF other sizes	G	—	—	—	—	—	G	—	—
S300	—	—	—	—	—	—	G	—	—
S400	—	—	—	—	—	—	G	—	—
S other sizes	—	—	—	—	—	—	—	—	—
SH300	—	G	—	—	—	—	G	—	—
SH400	G	—	—	G	G	—	G	—	—
SH other sizes	G	—	—	—	—	—	G	—	—
TG/TY/TRED/TBLU all sizes	—	—	—	—	—	—	—	—	—
TR1-200	—	—	G	—	—	—	—	G	—
TR1-300	—	—	G	—	—	—	—	G	—
TR1-400	—	—	G	—	—	—	—	G	—
TR1 other sizes	—	—	—	—	—	—	—	G	—
TSD all sizes	—	—	—	—	—	—	—	—	—
UBK200	—	G	—	—	—	—	G	—	—
UBK300	—	G	—	—	—	—	G	—	—
UBK400	G	—	—	—	—	—	G	—	—
UBK other sizes	G	—	—	—	—	—	G	—	—
UF1-200	—	G	—	—	—	—	G	—	—
UF1-300	G	—	—	—	—	—	G	—	—
UF1-400	G	—	—	—	—	—	G	—	—
UF1 other sizes	G	—	—	—	—	—	G	—	—
UF2-200	—	G	—	—	—	—	G	—	—
UF2-300	G	—	—	—	G	—	G	—	—
UF2-400	G	—	—	G	G	—	G	—	—
UF2 other sizes	G	—	—	—	—	—	G	—	—
UFC200	—	G	—	—	—	—	G	—	—
UFC300	—	G	—	—	—	—	G	—	—
UFC400	G	—	—	—	—	—	G	—	—
UV1/UVF150	G	—	—	—	—	—	G	—	—
UV1/UVF200	—	G	—	—	—	G	G	—	—
UV1/UVF300	—	G	—	—	—	G	G	—	—
UV1/UVF400	G	—	—	—	—	G	G	—	—

NOTES:

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  Refer to individual accessory pages in our Kuriyama-Couplings™ Catalog for detailed information on size availability.

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TIGERFLEX™ ACCESSORIES COMPATABILITY CHART *(continued)*

See key at bottom of page.

SERIES	Banding Coils			Banding Sleeves			Clamps		Cuff
	BCCF	BCWF	BCRT	SLV-NDH	SLV-VLT	SLV-VAP	SDBC SDBC-SS	SDBCR	A2150L1
UV2-200	G	—	—	—	—	G	G	—	—
UV2-400	G	G	—	—	—	G	G	—	—
UV1/UVF/UVE other sizes	G	—	—	—	—	—	G	—	—
UV2-300	G	—	—	—	—	—	G	—	—
UV2 other sizes	G	—	—	—	—	—	G	—	—
UV3-300	G	G	—	—	—	G	G	—	—
UV3-400	G	—	—	—	—	—	G	—	—
UV3 other sizes	G	—	—	—	—	—	G	—	—
UVPE all sizes	—	—	—	—	—	—	G	—	—
Vapor Hose (TV/TVHD)	G	G	—	—	—	G	—	—	
VOLT200	G	—	—	—	—	G	G	—	—
VOLT300	G	G	—	—	—	G	G	—	—
VOLT400	G	—	—	—	G	—	G	—	—
VOLT other sizes	G	—	—	—	—	—	G	—	—
VLT-SD300	G	—	—	—	G	—	G	—	—
VLT-SD400	G	—	—	—	G	—	G	—	—
VLT-SD other sizes	G	—	—	—	—	—	G	—	—
W200	—	G	—	—	—	—	G	—	—
W300	—	G	—	—	—	—	G	—	—
W400	G	—	—	—	G	—	G	—	—
W other sizes	G	—	—	—	—	—	G	—	—
WBS200	—	G	—	—	—	—	G	—	—
WBS300	—	G	—	—	—	—	G	—	—
WBS400	G	—	—	—	—	—	G	—	—
WBS other sizes	G	—	—	—	—	—	G	—	—
WE200	—	G	—	—	—	—	G	—	—
WE300	—	G	—	—	G	—	G	—	—
WE400	G	—	—	—	—	—	G	—	—
WE other sizes	G	—	—	—	—	—	G	—	—
WG200	—	G	—	—	—	—	G	—	—
WG300	—	G	—	—	—	—	G	—	—
WG400	G	—	—	—	G	—	G	—	—
WG other sizes	G	—	—	—	—	—	G	—	—
WH200	—	G	—	—	—	—	G	—	—
WOR150	G	—	—	—	—	—	G	—	—
WOR200	—	G	—	—	—	G	G	—	—
WOR300	G	G	—	—	G	—	G	—	—
WOR400	G	—	—	—	G	—	G	—	—
WST/WSTF300	G	G	—	—	G	—	G	—	—
WST/WSTF400	G	G	—	—	G	—	G	—	—
WST/WSTF other sizes	G	—	—	—	—	—	G	—	—
WT200	—	G	—	—	—	—	G	—	—
WT300	G	G	—	—	—	—	G	—	—
WT400	G	—	—	—	G	—	G	—	—
WT other sizes	G	—	—	—	—	—	G	—	—

NOTES:

- Banding coils and sleeves must be used in conjunction with a suitable hose clamp.
  Refer to individual accessory pages in our Kuriyama-Couplings™ Catalog for detailed information on size availability.

CAUTION:

- This chart is provided only as a guideline for selection of hose accessories. Actual results will vary due to manufacturing tolerances.

KEY

G Suggested

— Not Suggested

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The terms Flexibility and Minimum Bend Radius are often used interchangeably. However, while closely related, their meanings are different.

Minimum Bend Radius is generally defined as the smallest radius to which a hose can be bent without damage. Tigerflex™ defines damage as a 5% reduction of the hose OD at the bend point (before kinking/collapse). Other manufacturers may define damage as complete hose kinking/collapse.

Flexibility is defined as the amount of force required in order to bend the hose to a specified radius without kinking. In order to provide a better understanding of the flexibility of Tigerflex™ hoses we've performed extensive force-to-bend testing. This data provides a clearer picture of the actual flexibility of our hoses in order to assist in your hose selection process.

A lower force-to-bend value indicates a more flexible hose.

Food Grade

	Force to Bend (lbs/F) *		
Series	2" ID x 3 ft	3" ID x 5 ft	4" ID x 7 ft
2001	5.6	9.0	21.0
2020	-	31.0	41.0
FT	13.0	24.0	41.0
GTF/GTFE	0.3	0.8	3.5
MILK	11.0	17.0	-
MILK-LT	10.0	15.0	-
PF	-	13.0	19.0
UVF	2.5	3.6	5.5
VOLT	7.8	15.0	22.0
VLT-SD	-	33.0	42.4
WBS	5.5	13.1	22.0
WE	5.5	8.8	21.4
WSTF	-	14.0	22.0
WT	4.5	6.5	16.0

Material Handling

	Force to Bend (lbs/F) *		
Series	2" ID x 3 ft	3" ID x 5 ft	4" ID x 7 ft
AMPH-BK	5.5	10.0	15.5
BARK	-	-	7.6
GC-C	-	-	9.0
MULCH	-	-	18.2
MULCH-LT	-	-	8.0
THT	-	10.8	18.9
TR1	3.4	5.0	8.0
UBK	6	8.0	11.5
UF1	4.8	8.0	12.2
UF2	5.5	10.1	17.2
UFC	4.8	8.0	12.2
UV2	3.4	5.5	7.0
UV3	-	7.0	13.0
UVPE	5.5	7.5	-

Ducting

	Force to Bend (lbs/F) *		
Series	2" ID x 3 ft	3" ID x 5 ft	4" ID x 7 ft
CG/CG-SL	0.5	1.2	2.1
GT/GTG	0.5	1.5	2.8
LK/LKC	-	1.8	3.0
UV1/UVE	3.0	3.7	5.5

Liquid Suction

	Force to Bend (Lbs./F) *		
Series	2" ID x 3 ft.	3" ID x 5 ft.	4" ID x 7 ft.
BW	7.8	12.3	19.5
CF	14.5	14.0	28.5
F/G	26.0	31.0	47.0
H/J/K	12.1	24.0	34.0
MH	2.8	-	-
S	24.6	29.0	35.5
TG/TY	12.0	11.2	22.0
TRED/TBLU	12.0	11.2	22.0
TSD	14.8	18.8	-
W	4.0	9.5	7.3
WG	4.5	10.0	15.0
WH/SH	2.8	2.5	3.5
WST	-	14.0	21.0

Oil & Gas

	Force to Bend (lbs/F) *		
Series	2" ID x 3 ft	3" ID x 5 ft	4" ID x 7 ft
DURA	-	-	
NDH	-	-	-
ORV	10.0	12.0	-
OV	19.0	29.0	-
TDH	-	-	12.5
TV	27.5	14.5	-
TVHD	-	-	-
VAPR	-	-	11.5
WOR	2.8	5.3	10.0

*Values listed indicated pounds of force required to bend a straight length of hose to 180º at 68ºF.

These recommendations are based on our laboratory test reports which are, to the best of our knowledge, complete and accurate. However, actual hose force-to-bend requirements can vary due to many factors such as hose age and manufacturing tolerances. Therefore, no guarantee is expressed or implied by our publication of this chart. If doubt exists, we advise that a sample of the hose in question be obtained and tested under actual conditions. These values are provided for reference only and are subject to change.

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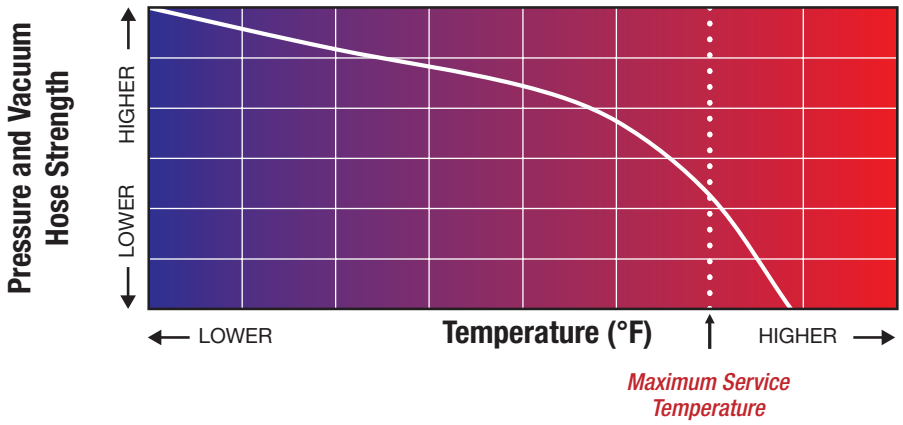
THE EFFECT OF TEMPERATURE ON WORKING PRESSURE & VACUUM RATINGS

As a general rule, the working pressure and vacuum ratings for plastic reinforced hoses are based on room temperature conditions. The maximum allowable working pressure or vacuum/suction for a hose decreases as the temperature increases and the material becomes softer and more elastic. Excessive bending of a hose while in service can also affect the allowable service application working pressure and vacuum.

Working pressure and vacuum ratings can be affected significantly by the type of fitting used, the method of attachment, and the temperature to which the hose assembly is exposed in service. The graph below demonstrates the overall trend.

Pressure and vacuum hose strength decreases as temperature increases



WORKING PRESSURE RATINGS

Working pressure and vacuum ratings are given in this catalog at 68°F and 104°F. Between 104°F and the maximum service temperature, it must be noted that a rapid decline in the pressure or vacuum rating of the hose may occur, and all factors relating to the hose, fittings and service conditions must be taken into consideration.

No warranty is expressed or implied, as applications and methods of fitting installation may vary widely. Before placing a hose in service, the user must determine the suitability of the product under the correct working conditions, and assumes all risk and liability in connection therewith.

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GENERAL PROPERTIES OF TIGERFLEX HOSE COMPOUNDS*

Material	Low Temp. Flexibility	Water Resistance	Abrasion Resistance	Chemical Resistance	Oil Resistance	Acid Resistance
PVC (Plasticized)	Fair to Good^	Excellent	Good	Good	Poor to Fair	Good
TPU (Ester)	Good	Poor	Excellent	Poor	Excellent	Poor
EPDM	Good	Excellent	Fair	Very Good	Fair to Good	Good
SBR	Good	Excellent	Very Good	Fair	Poor to Fair	Fair
NBR	Fair	Excellent	Fair	Fair to Good	Excellent	Fair to Good

^ PVC flexibility will vary greatly depending on the type and amount of plasticizer used.

Results will vary depending on the individual hose construction. For example ORV & WOR series are examples of PVC hoses specially formulated for very good oil resistance and BW and W series are PVC hoses specially formulated for very good low temperature flexibility.

* Compunds can exhibit different characteristics depending on their particular formulation. Refer to the individual product pages for the most accurate performance characteristics.

Thermoplastic Polyurethane (TPU)

The unique structure of TPU results in resistance to impacts, abrasions, tears, and animal and petroleum-based oils. TPU offers excellent flexibility without the use of plasticizers, even at sub-zero temperatures. Ester based TPU is not recommended for use with water, especially at high temperatures, as hydrolysis (a breaking of the molecular chains) can result. It's also not recommended for prolonged use above 150F° as softening can occur. Polyurethanes are divided into two main classifications, ester and ether, the majority of Tigerflex hoses are ether based.

TIGERFLEX THERMOPLASTIC POLYURETHANE (TPU) GENERAL COMPOUND PROPERTIES

Material	Hydrolytic Stability	Oil /Solvent Resistance	Low Temp. Flexibility	Abrasion Resistance	Temperature Resistance	Acid/Base Resistance	Fungus Resistance
Polyester	Poor	Excellent	Excellent	Excellent	Very Good	Fair	Fair
Polyether	Excellent	Excellent	Excellent	Very Good	Excellent	Excellent	Excellent

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Many new materials have been developed to handle the wide range of modern chemicals being used in industry today. Many of these materials are now being used in the construction of Tigerflex™ hose.

The Chemical Resistance Guides which appears on the following pages have been prepared to assist the user in the selection of the correct hose for the application.

These recommendations are based on laboratory and test reports which are, to the best of our knowledge, complete and accurate. However, the degree of chemical resistance of any given material depends upon many variables, including such factors as length of exposure, temperature, pressure, fluid velocity, and chemical concentration.

Therefore, no guarantee is expressed or implied by our publication of these Chemical Resistance Guides. If an element of doubt exists, we advise that a sample of the specific hose selected be obtained and tested under actual conditions.

Furthermore, listings in these Chemical Resistance Guides do not imply conformance to any U. S. Department of Agriculture (USDA), Food and Drug Administration (FDA) or any other federal, provincial or state laws which may be applicable when handling food products. For information on the conformance of any specific hose product with FDA, USDA, or 3-A Sanitary Standards, please refer to the notes accompanying the information and specifications for each hose featured in this catalog.

Petroleum based fluids can impact the performance of a flexible PVC hose, therefore, service life may vary depending on the operating conditions and the type of material being conveyed.

⚠ WARNING

The Chemical Resistance Guides shown on the following pages are intended for general guidance only. The information contained therein is based upon tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed. No warranty is expressed or implied, as specific application parameters, such as temperature, pressure and chemical concentrations vary widely. Furthermore, use of these hoses for handling multiple chemical products, either singly or as a mixture, may introduce uncontrollable factors relating to chemical resistance.

Before using any hose, the user is responsible for determining the suitability of the hose for the intended application. Therefore, the user assumes all risk and responsibility for determining the suitability of any hose for handling any chemical or chemicals.

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PVC AND POLYURETHANE

RATINGS KEY – PVC AND POLYURETHANE

E Excellent G Good L Limited U Unsatisfactory – No Data

Chemical or Material Conveyed	PVC		Thermoplastic Polyurethane	
	68°F	104°F	68°F	104°F
Acetaldehyde	U	U	U	U
Acetaldehyde 40%	—	—	—	—
Acetate Solvents-Crude	U	U	L	U
Acetate Solvents-Pure	U	U	L	U
Acetic Acid 0-10%	G	L	U	U
Acetic Acid 10-20%	G	L	U	U
Acetic Acid 20-30 Pct	G	L	U	U
Acetic Acid 30-60%	G	L	U	U
Acetic Acid 80%	L	L	U	U
Acetic Acid Vapors	G	G	U	U
Acetic Acid-Glacial	L	U	U	U
Acetic Anhydride	U	U	U	U
Acetone	U	U	L	U
Acetylene	E	E	E	E
Acrylonitrile	E	G	—	—
Adipic Acid	G	L	U	U
Alcohol (See Type)	—	—	—	—
Allyl Alcohol 96%	U	U	U	U
Allyl Chloride	L	L	U	U
Alum	E	E	E	E
Aluminum Acetate	G	L	—	—
Aluminum Chloride	E	E	L	L
Aluminum Fluoride	E	E	E	E
Aluminum Hydroxide	E	L	G	L
Aluminum Nitrate	E	E	E	E
Aluminum Oxalate	—	—	—	—
Aluminum Oxychloride	E	E	—	—
Aluminum Sulfate	E	E	E	E
Ammonia – Aqueous	L	U	L	U
Ammonia – Dry Gas	L	U	L	U
Ammonia-Liquid	U	U	L	U
Ammoniated Latex	E	L	—	—
Ammonium Bicarbonate	—	—	—	—
Ammonium Carbonate	E	E	E	E
Ammonium Chloride	E	E	G	L
Ammonium Fluoride 25%	U	U	L	U
Ammonium Hydrosulphide	—	—	—	—
Ammonium Hydroxide 28%	G	G	L	U
Ammonium Metaphosphate	E	E	G	G
Ammonium Nitrate	E	E	G	G
Ammonium Persulfate	E	E	G	G
Ammonium Phosphate (Ammoniacal)	—	—	—	—
Ammonium Phosphate-Neutral	E	E	G	G
Ammonium Sulfate	E	E	E	E
Ammonium Sulfide	E	E	E	E
Ammonium Thiocyanate	E	E	G	G
Amyl Acetate	U	U	U	U
Amyl Alcohol	L	U	U	U
Amyl Chloride	U	U	—	—
Aniline	L	U	U	U
Aniline Chlorohydrate	U	U	U	U
Aniline Hydrochloride	U	U	U	U
Aniline Sulphate	—	—	—	—

Chemical or Material Conveyed	PVC		Thermoplastic Polyurethane	
	68°F	104°F	68°F	104°F
Animal Oils	E	G	—	—
Anthraquinone	E	E	—	—
Anthraqunonesulfonic Acid	E	E	U	U
Antimony Pentaculcride	—	—	—	—
Antimony Trichloride	E	E	E	E
Apple (Sauce or Juice)	E	E	—	—
Aqua Regia	L	U	U	U
Aromatic Hydrocarbons	U	U	—	—
Arsenic Acid 80%	E	G	U	U
Arylsulfonic Acid	L	U	U	U
Asphalt	U	U	E	E
ASTM Fuel #1 Oil	G	L	E	E
ASTM Fuel #3 Oil	L	G	E	E
ASTM Fuel A	G	L	E	E
ASTM Fuel B	U	U	G	L
ASTM Fuel C	U	U	G	L
Baby Food	E	E	—	—
Barium Carbonate	E	E	E	E
Barium Chloride	E	E	E	E
Barium Hydroxide	E	E	G	L
Barium Sulfate	E	E	E	E
Barium Sulfide	E	E	E	E
Barley	E	U	—	—
Beer	E	E	—	—
Beet-Sugar Liquor	E	E	—	—
Benzaldehyde	U	U	U	U
Benzene	U	U	L	U
Benzene-Sulfonic Acid 10%	E	E	U	U
Benzoic Acid	G	L	U	U
Benzol	U	U	L	U
Benzyl Alcohol	—	—	—	—
Berries	E	E	—	—
Bismuth Carbonate	E	E	E	E
Black Liquor (Paper industry)	E	E	—	—
Bleach-12.5% Active CL	G	L	L	U
Borax	E	G	E	E
Bordeaux Mixture	E	E	—	—
Boric Acid	E	E	U	U
Boron Trifluoride	E	E	E	E
Brine	E	E	G	U
Bromic Acid	E	L	U	U
Bromine-Liquid	U	U	U	U
Bromine-Water	U	U	U	U
Brussel Sprouts	E	E	—	—
Butadiene	L	U	—	—
Butane	E	E	E	E
Butanediol	—	—	—	—
Butanol-Primary	U	U	L	U
Butanol-Secondary	U	U	L	U
Butter	G	L	—	—
Butyl Acetate	U	U	L	U
Butyl Alcohol	E	L	L	U
Butyl Cellosolve	U	U	—	—

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PVC AND POLYURETHANE

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E Excellent G Good L Limited U Unsatisfactory – No Data

Chemical or Material Conveyed	PVC		Thermoplastic Polyurethane	
	68°F	104°F	68°F	104°F
Butyl Phenol	L	U	—	—
Butylene	E	G	E	E
Butynedial (Erythritol)	U	U	U	U
Butyraldehyde	—	—	—	—
Butyric Acid 20%	L	U	L	U
Calcium Bisulfite	E	E	E	E
Calcium Carbonate	E	E	E	E
Calcium Chlorate	E	E	G	L
Calcium Chloride	E	E	L	U
Calcium Hydroxide	E	E	G	L
Calcium Hypochlorite	E	E	U	U
Calcium Nitrate	E	E	E	E
Calcium Phosphate	—	—	—	—
Calcium Sulfate	E	E	E	E
Camphor Oil	—	—	—	—
Cane Sugar Liquors	E	E	—	—
Carbon Bisulfide	U	U	—	—
Carbon Dioxide (Aqueous Solution)	E	E	E	E
Carbon Dioxide Gas (Wet)	E	E	E	E
Carbon Disulphide	U	U	—	—
Carbon Monoxide	E	E	E	E
Carbon Tetrachloride	U	U	L	U
Carbonic Acid	E	E	U	U
Carrots	E	E	—	—
Casein	E	G	E	E
Castor Oil	E	E	E	E
Catsup	E	G	—	—
Caustic Potash	E	E	L	U
Caustic Soda	L	L	L	U
Cellosolve	L	U	G	L
Cheese	E	G	—	—
Cherries	E	E	—	—
Chloracetic Acid	E	U	U	U
Chloral Hydrate	E	E	G	L
Chloric Acid 20%	E	E	U	U
Chlorinated Hydrocarbons	U	U	—	—
Chlorine Gas (Dry)	E	E	U	U
Chlorine Gas (Moist)	L	U	U	U
Chlorine Water 2%	L	U	L	U
Chlorine Water Saturated	—	—	—	—
Chlorobenzene	U	U	U	U
Chloroform	U	U	U	U
Chlorsulfonic Acid	L	U	U	U
Chocolate	G	L	—	—
Chrome Alum	E	E	E	E
Chromic Acid 10%	G	L	U	U
Chromic Acid 25%	G	L	U	U
Chromic Acid 30%	L	U	U	U
Chromic Acid 40%	L	U	U	U
Chromic Acid 50%	L	U	U	U
Chromic Acid Plating Solution	—	—	U	U
Cider	—	—	—	—
Citric Acid	E	E	U	U

Chemical or Material Conveyed	PVC		Thermoplastic Polyurethane	
	68°F	104°F	68°F	104°F
Coal Tar	U	U	U	U
Coconut Oil	L	U	E	E
Cola Drinks	E	E	—	—
Copper Chloride	E	G	E	E
Copper Cyanide	E	E	—	—
Copper Fluoride 2%	E	E	E	E
Copper Nitrate	E	G	E	E
Copper Sulfate	E	G	E	E
Core Oils	E	E	E	E
Corn Oils	E	G	—	—
Cottonseed Oil	G	L	E	E
Creosote	U	U	—	—
Cresol	U	U	L	U
Cresylic Acid 50%	U	U	U	U
Crude Oil-Sour	E	E	E	E
Crude Oil-Sweet	E	E	E	E
Cyclohexane	L	U	—	—
Cyclohexanol	U	U	L	U
Cyclohexanone	U	U	U	U
Demineralized Water	E	E	G	U
Detergents, Synthetic	E	G	—	—
Developers, Photographic	E	E	—	—
Dextrin	E	E	E	E
Dextrose	E	G	E	E
Di-acetone Alcohol	—	—	—	—
Di-isodecyl Phthalate	U	U	—	—
Diazo Salts	E	E	—	—
Dibutyl Phthalate	U	U	—	—
Dichlorobenzene	U	U	—	—
Diesel Oils	L	U	—	—
Diethyl Ether	—	—	—	—
Diethyl Ether	L	U	—	—
Diethylene Glycol	E	E	—	—
Diglycolic Acid	E	G	—	—
Dimethylamine	U	U	U	U
Dioctyl Phthalate	U	U	—	—
Diotylphthalate	U	U	G	L
Disodium Phosphate	E	E	E	E
Distilled Water	E	E	G	U
Eggs (yolks or white)	E	E	—	—
Emulsifiers	E	E	—	—
Emulsions, Photographic	E	E	—	—
Ethers	U	U	G	L
Ethyl Acetate	U	U	L	U
Ethyl Acrylate	U	U	—	—
Ethyl Alcohol	G	L	—	—
Ethyl Alcohol 0-50%	G	L	G	L
Ethyl Alcohol 50-98%	L	U	L	U
Ethyl Butyrate	—	—	—	—
Ethyl Chloride	U	U	U	U
Ethyl Ether	U	U	G	L
Ethyl Formate	—	—	—	—
Ethylene Bromide	E	U	U	U

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E Excellent G Good L Limited U Unsatisfactory – No Data

Chemical or Material Conveyed	PVC		Thermoplastic Polyurethane	
	68°F	104°F	68°F	104°F
Ethylene Dichloride	U	U	U	U
Ethylene Glycol	E	E	G	L
Ethylene Oxide	U	U	U	U
Fatty Acids	E	G	G	L
Ferric Chloride	E	E	G	L
Ferric Nitrate	E	E	E	E
Ferric Sulfate	E	E	E	E
Ferrous Ammonium Citrate	—	—	—	—
Ferrous Chloride	E	E	E	E
Ferrous Sulfate	E	E	E	E
Figs	E	E	—	—
Fish Solubles	E	E	E	G
Fixing Solution Photographic	E	G	—	—
Flour	E	U	—	—
Fluorine Gas-Dry	U	U	U	U
Fluorine Gas-Wet	U	U	U	U
Fluoroboric Acid	E	E	E	E
Fluorosilicic Acid	E	E	U	U
Fluorosilicic Acid 40%	—	—	—	—
Fluorosilicic Acid Concentrate	—	—	—	—
Food Products, such as Milk, Buttermilk, Molasses, Salad Oils, Fruit	E	E	—	—
Folic Acid	E	L	U	U
Formaldehyde 40% Aqueous	U	U	—	—
Formic Acid 10%	E	G	U	U
Formic Acid 100%	U	U	U	U
Formic Acid 25%	E	G	—	—
Formic Acid 3%	E	G	U	U
Formic Acid 50%	L	U	U	U
Freon-12	E	G	E	E
Fructose	E	E	E	E
Fruit Pulps and Juices	E	E	E	E
Fuel Oil	G	L	E	E
Furfural	U	U	U	U
Furfuryl Alcohol	E	L	—	—
Gallic Acid	E	E	—	—
Gas-Coke Oven	G	G	G	G
Gas-Manufactured	U	U	—	—
Gas-Natural (Dry)	E	E	E	E
Gas-Natural (Wet)	E	E	E	E
Gasoline	U	U	—	—
Gasoline – Refined	L	U	E	G
Gasoline – Sour	L	U	E	G
Gelatine	E	E	E	E
Gin	E	G	—	—
Ginger Ale	E	E	—	—
Glucose	E	E	E	E
Glycerine (Glycerol)	E	E	E	E
Glycol	E	E	G	G
Glycolic Acid 30%	E	E	U	U
Grade Sugar	—	—	—	—
Grape Juice	E	E	—	—
Grapefruit Juice	E	E	—	—

Chemical or Material Conveyed	PVC		Thermoplastic Polyurethane	
	68°F	104°F	68°F	104°F
Grease	E	L	—	—
Green Liquor (Paper industry)	E	E	—	—
Heptachlor	E	L	—	—
Heptane	L	U	E	—
Hexadecanol	—	—	—	—
Hexane	L	U	—	—
Hexanol, Tertiary	L	U	G	—
Honey	E	E	—	—
Hydrochloric Acid 10%	E	E	U	U
Hydrochloric Acid 48%	E	L	U	U
Hydrocyanic Acid 10%	—	—	—	—
Hydrofluoric Acid 10%	G	L	U	U
Hydrofluoric Acid 4%	G	G	U	U
Hydrofluoric Acid 48%	G	U	U	U
Hydrofluoric Acid 60%	G	U	U	U
Hydrofluoroboric Acid	E	E	—	—
Hydrofluorosilic Acid	G	L	U	U
Hydrogen	E	G	E	E
Hydrogen Bromide (Dry)	—	—	—	—
Hydrogen Chloride (Dry) (Liquid)	—	—	E	E
Hydrogen Cyanide	E	E	U	U
Hydrogen Peroxide 3 –12%	E	G	—	—
Hydrogen Peroxide 30%	E	G	G	L
Hydrogen Peroxide 50%	E	L	L	U
Hydrogen Peroxide 90%	U	U	U	U
Hydrogen Phosphide	E	L	—	—
Hydrogen Sulfide – Aqueous Solution	E	E	—	—
Hydrogen Sulfide – Dry	E	E	—	—
Hydrombromic Acid 20%	E	G	U	U
Hydroquinone	E	E	E	E
Hydroxylamine Sulfate	E	E	—	—
Hypochlorous Acid	E	E	L	U
Inks	—	—	—	—
Iodine (In Alcohol)	U	U	U	U
Iso-octane	G	L	—	—
Isopropyl Acetate	U	U	—	—
Isopropyl Alcohol	E	G	—	—
Jelly	E	E	—	—
Jet Fuels JP 3,4,5	U	U	G	L
Kerosene	U	U	E	G
Ketones	U	U	—	—
Kraft Liquor (Paper industry)	E	E	—	—
Lacquer Thinners	L	U	G	—
Lactic Acid 28%	E	E	U	U
Lard (marginal)	G	L	—	—
Lard Oil	E	G	E	G
Lauric Acid	E	E	L	U
Lauryl Chloride	E	E	E	E
Lauryl Sulfate	E	E	—	—
Lead Acetate	E	E	E	E
Lead Arsenate	—	—	—	—
Lead Nitrate	—	—	—	—
Lead Tetra-ethyl	—	—	—	—

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PVC AND POLYURETHANE

RATINGS KEY – PVC AND POLYURETHANE

E Excellent G Good L Limited U Unsatisfactory – No Data

Chemical or Material Conveyed	PVC		Thermoplastic Polyurethane	
	68°F	104°F	68°F	104°F
Lemon Juice	E	G	—	—
Lime Sulfur	E	E	—	—
Linoleic Acid	E	E	L	U
Linseed Oil	E	E	E	E
Liquors (Chemical)	E	G	—	—
Lubricating Oils	U	U	E	E
Magnesium Carbonate	E	E	E	E
Magnesium Chloride	E	E	G	L
Magnesium Hydroxide	E	E	G	L
Magnesium Nitrate	E	E	E	E
Magnesium Sulfate	E	E	E	E
Maleic Acid 25% Aqueous	E	E	L	U
Maleic Acid 50%	—	—	—	—
Maleic Acid Concentrated	—	—	—	—
Malic Acid	E	E	L	U
Manganese Suphate	—	—	—	—
Mayonnaise	E	E	—	—
Mercuric Chloride	G	G	G	L
Mercuric Cyanide	G	G	—	—
Mercurous Nitrate	G	G	G	G
Mercury	G	G	—	—
Metallic Soaps	—	—	—	—
Methyl Acetate	U	U	—	—
Methyl Alcohol	L	U	L	U
Methyl Bromide	U	U	—	—
Methyl Chloride	U	U	U	U
Methyl Ethyl Ketone	U	U	L	U
Methyl Isobutyl Ketone	U	U	—	—
Methyl Sulfate	E	G	E	G
Methyl Sulfuric Acid	E	E	U	U
Methylated Spirit	—	—	—	—
Methylene Chloride	U	U	U	U
Milk	E	E	—	—
Mineral Oils	E	G	E	E
Mineral Spirits	—	—	—	—
Molasses	E	E	E	E
Monochlorobenzene	U	U	—	—
Naphtha	U	U	E	E
Napthalene	L	U	—	—
Nickel Acetate	E	E	E	E
Nickel Chloride	E	E	E	E
Nickel Nitrate	E	E	E	E
Nickel Sulphate	E	E	E	E
Nicotine	E	E	E	E
Nicotine Acid	E	G	L	U
Nitric Acid (Anhydrous)	U	U	U	U
Nitric Acid 10%	E	G	U	U
Nitric Acid 25%	G	L	U	U
Nitric Acid 35%	G	L	U	U
Nitric Acid 40%	G	L	U	U
Nitric Acid 50%	—	—	—	—
Nitric Acid 60%	G	U	U	U
Nitric Acid 68%	L	U	U	U

Chemical or Material Conveyed	PVC		Thermoplastic Polyurethane	
	68°F	104°F	68°F	104°F
Nitric Acid 70%	U	U	—	—
Nitrobenzene	U	U	U	U
Nitrous Oxide	E	E	E	E
Oats	E	U	—	—
Octyl Alcohol	—	—	—	—
Oils and Fats	U	U	E	E
Oils, Petroleum	U	U	E	E
Oleic Acid	U	U	U	U
Oleum	U	U	U	U
Olives	E	E	—	—
Orange Juice	E	E	—	—
Oxalic Acid	E	E	U	U
Oxygen	E	E	E	E
Ozone	L	U	—	—
Palmitic Acid 10%	E	G	U	U
Palmitic Acid 70%	L	U	U	U
Paraffin	E	G	—	—
Peaches	E	E	—	—
Peanut Butter	E	G	—	—
Peas	E	E	—	—
Pentachlorophenol in Oil	G	L	—	—
Pentane	G	U	—	—
Peracetic Acid 40%	U	U	U	U
Perchloric Acid 10%	G	L	U	U
Perchloric Acid 70%	L	U	U	U
Perchlorethylene	U	U	—	—
Petrol	U	U	—	—
Petroleum Ether	L	L	—	—
Phenol	U	U	U	U
Phenylhydrazine	U	U	—	—
Phenylhydrazine Hydrochloride	L	U	—	—
Phosgene (Gas)	E	G	—	—
Phosgene (Liquid)	U	U	—	—
Phosphoric Acid — 0-25%	E	E	U	U
Phosphoric Acid — 25-50%	E	E	U	U
Phosphoric Acid — 50-90%	E	E	U	U
Phosphorus (Yellow)	G	L	—	—
Phosphorus Pentoxide	U	U	—	—
Phosphorus Trichloride	U	U	—	—
Photographic Chemicals	E	E	E	G
Photographic Developers	—	—	—	—
Photographic Emulsions	—	—	—	—
Photographic Fixers	—	—	—	—
Picric Acid	U	U	U	U
Pineapple Juice	E	E	—	—
Pitch	G	L	—	—
Plating Solutions	—	—	—	—
Brass	E	E	E	E
Cadmium	E	E	E	E
Chromium	G	G	G	G
Copper	E	E	E	E
Gold	E	E	E	E
Judium	E	E	E	E

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PVC AND POLYURETHANE

RATINGS KEY – PVC AND POLYURETHANE

E Excellent G Good L Limited U Unsatisfactory – No Data

Chemical or Material Conveyed	PVC		Thermoplastic Polyurethane	
	68°F	104°F	68°F	104°F
Lead	E	E	E	E
Nickel	E	E	E	E
Rhodium	E	E	E	E
Silver	E	E	E	E
Tin	E	E	E	E
Zinc	E	G	E	E
Potassium Acid Sulfate	E	E	E	E
Potassium Antimonate	E	E	E	E
Potassium Bicarbonate	E	E	E	E
Potassium Bichromate	E	E	E	E
Potassium Bisulfite	E	E	E	E
Potassium Bisulphate	—	—	—	—
Potassium Borate 1%	E	E	E	E
Potassium Bromate 10%	E	E	E	E
Potassium Bromide	E	E	E	E
Potassium Carbonate	E	E	E	E
Potassium Chlorate	E	E	G	G
Potassium Chloride	E	E	E	G
Potassium Chromate 40%	E	E	G	G
Potassium Cuprocyanide	E	E	—	—
Potassium Cyanide	E	E	E	E
Potassium Dichromate 40%	E	E	G	G
Potassium Ferricyanide	E	E	E	E
Potassium Fluoride	E	E	E	G
Potassium Hydroxide 10%	E	E	L	U
Potassium Hydroxide 20%	E	E	U	U
Potassium Hydroxide 35%	E	E	U	U
Potassium Hydroxide Conc.	—	—	—	—
Potassium Hypochlorite	G	L	U	U
Potassium Nitrate	E	E	E	E
Potassium Perborate	E	E	E	E
Potassium Perchlorite	E	E	G	L
Potassium Permanganate 10%	G	G	G	L
Potassium Persulfate	E	E	E	E
Potassium Phosphate	—	—	—	—
Potassium Sulfate	E	E	E	E
Potassium Sulfide	E	E	E	E
Potassium Thiosulfate	E	E	E	E
Potatoes	E	E	—	—
Propane	E	E	E	E
Propargyl Alcohol	E	E	—	—
Propyl Alcohol	E	L	G	L
Propylene Dichloride	U	U	U	U
Propylene Glycol	U	U	U	U
Prune Juice	E	E	—	—
Raisins	E	E	—	—
Ritchfield "A" Weed Killer	E	L	—	—
Salicylic Acid	—	—	—	—
Salt Water	E	E	G	U
Selenic Acid	E	G	U	U
Shortening	G	L	—	—
Silicic Acid	E	E	U	U
Silicone Fluids	—	—	—	—

Chemical or Material Conveyed	PVC		Thermoplastic Polyurethane	
	68°F	104°F	68°F	104°F
Silver Cyanide	E	E	E	E
Silver Nitrate	E	E	E	E
Silver Plating Solutions	E	G	E	E
Soap Solution	E	E	G	U
Soda	E	E	—	—
Sodium Acetate	E	E	E	E
Sodium Acid Sulfate	E	E	E	E
Sodium Aluminate	—	—	—	—
Sodium Antimonate	E	E	E	E
Sodium Arsenite	E	E	E	E
Sodium Benzoate	E	G	E	E
Sodium Bicarbonate	E	E	E	E
Sodium Bisulfate	E	E	E	E
Sodium Bisulfite	E	E	E	E
Sodium Bromide	E	E	E	G
Sodium Carbonate (Soda Ash)	E	E	E	E
Sodium Chlorate	G	L	G	G
Sodium Chloride	E	E	E	G
Sodium Cyanide	E	E	E	E
Sodium Dichromate	E	G	E	G
Sodium Ferricyanide	E	E	E	E
Sodium Ferrocyanide	E	E	E	E
Sodium Fluoride	E	E	E	G
Sodium Hydroxide 10%	L	L	L	U
Sodium Hydroxide 35%	U	U	U	U
Sodium Hydroxide 50%	U	U	—	—
Sodium Hydroxide Saturated	E	E	U	U
Sodium Hypochlorite	E	E	U	U
Sodium Nitrate	E	E	E	E
Sodium Nitrite	E	E	E	E
Sodium Phosphate-Acid	G	G	U	U
Sodium Silicate	E	E	E	E
Sodium Sulfate	E	E	E	E
Sodium Sulfide	E	E	E	E
Sodium Sulfite	E	E	E	E
Sodium Thisulfate (Hypo)	E	E	E	G
Soya Beans	E	U	—	—
Soya Oil	E	G	—	—
Soybean Oil	E	E	—	—
Spinach	E	E	—	—
Squash	E	E	—	—
Stannic Chloride	E	E	E	G
Stannous Chloride	E	E	E	G
Starch	—	—	—	—
Stearic Acid	E	G	L	U
Stoddard Solvent	L	U	G	G
Styrene	U	U	—	—
Sucrose	—	—	—	—
Sugar (All Forms)	E	E	—	—
Sulfur	G	G	—	—
Sulfuric Acid 0-10%	E	G	L	U
Sulfuric Acid 10-40%	E	G	U	U
Sulfuric Acid 50-60%	E	G	U	U

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PVC AND POLYURETHANE

RATINGS KEY – PVC AND POLYURETHANE

E Excellent G Good L Limited U Unsatisfactory

Chemical or Material Conveyed	PVC		Thermoplastic Polyurethane	
	68°F	104°F	68°F	104°F
Sulfuric Acid 70%	E	G	U	U
Sulfuric Acid 95%	U	U	U	U
Sulfuric Acid 95% to Fuming	L	L	U	U
Sulfurous Acid	G	L	U	U
Sulphur Dioxide Gas-Dry	E	E	—	—
Sulphur Dioxide Gas-Wet	U	U	—	—
Sulphur Dioxide-Liquid	L	U	—	—
Sulphur Trioxide	E	G	—	—
Sulphurous Acid 10%	—	—	—	—
Sulphurous Acid 30%	—	—	—	—
Tall Oil	U	U	—	—
Tallow	—	—	—	—
Tannic Acid	E	E	L	U
Tanning Extracts	—	—	—	—
Tanning Liquors	E	E	—	—
Tartaric Acid	E	G	L	U
Tea (Brewed)	E	E	—	—
Tetraethyl Lead	G	L	G	G
Tetrahydrofurane	U	U	U	U
Tetrahydronaphihalene	—	—	—	—
Thionyl Chloride	U	U	U	U
Tin Chloride	E	E	E	E
Titanium Tertachloride	E	U	L	U
Titanium Trichloride	—	—	—	—
Toluol or Toluene	U	U	L	U
Tomato Juice	E	E	—	—
Tomato Puree & Paste	E	E	—	—
Tomatoes	E	E	—	—
Transformer Oil	—	—	—	—
Tributyl Phosphate	U	U	—	—
Trichlorobenzene	—	—	—	—
Trichloroethylene	U	U	L	U
Tricresyl Phosphate	U	U	U	U
Triethanolamine	L	U	—	—
Triethylamine	G	L	—	—
Trimethyl Propane	L	U	—	—
Trisodium Phosphate	E	E	E	E
Turpentine	L	U	E	G
Urea	E	G	E	E
Urine	E	E	E	E
Vanilla Extract	—	—	—	—
Varnish	U	U	E	G
Vegetable Oils	G	L	—	—
Vinegar	E	G	G	L
Vinyl Acetate	U	U	U	U
Vinyl Chloride	U	U	—	—
Vodka	E	G	—	—
Water-Acid Mine Water	E	E	G	U
Water-Distilled	E	E	G	U
Water-Fresh	E	E	G	U
Water-Salt	E	E	G	U
Wetting Agents	—	—	—	—
Whey	—	—	—	—

Chemical or Material Conveyed	PVC		Thermoplastic Polyurethane	
	68°F	104°F	68°F	104°F
Whiskey	E	G	—	—
White Gasoline	E	E	E	G
White Liquor (Paper industry)	E	E	—	—
Wines	E	G	—	—
Xylene or Xylol	U	U	G	L
Yeast	E	U	—	—
Yogurt	E	G	—	—
Zinc Chloride	E	E	E	E
Zinc Chromate	E	E	E	E
Zinc Cyanide	E	E	E	E
Zinc Nitrate	E	E	E	E
Zinc Sulfate	E	E	E	E
Mixtures of Acids:				
Nitric 15%, Hydrofluoric 4%	E	G	U	U
Sodium Dichromate 13%, Nitric Acid 16%, Water 71%	E	G	U	U

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EPDM

RATINGS KEY – EPDM

G Good L Limited U Unsatisfactory

Chemical or Material Conveyed	Temperatures 68°F	104°F
Acetic Acid	G	G
Acetone	G	G
Aluminum Acetate	G	G
Aluminum Chloride	G	G
Aluminum Hydroxide	G	G
Aluminum Sulfate	G	G
Ammonia (Gas)	G	G
Ammonia (Liquid)	G	G
Ammonium Acetate (Conc.)	G	G
Ammonium Chloride	G	G
Ammonium Hydroxide	G	G
Ammonium Nitrate	G	G
Aniline	L	L
Aniline Sulfate	U	U
Barium Chloride	G	G
Barium Hydroxide	G	G
Beer	G	G
Benzen Alcohol	L	L
Benzene	U	U
Bromine	U	U
Butyl Alcohol	L	L
Calcium Carbonate	G	G
Calcium Chloride (Conc.)	G	G
Calcium Hyprocholite (Conc.)	L	L
Carbon Monoxide	G	G
Carbon Tetrachloride	L	L
Carbonic Acid	G	G
Carbonic Acid Gas	G	G
Cetyl Alcohol	L	L
Chlorine – 10% Gas	L	L
– 100% Gas	L	L
(Solution)	L	L
Chloroform	U	U
Chromate (Plating Solution)	L	L
Citric Acid	G	G
Copper Chloride	G	G
Copper Nitrate	G	G
Copper Sulfate	G	G
Creosote Oil	U	U
Development Sol.	L	L
Dextrin	G	G
Dichlorethylene	U	U
Dichloro Benzene	U	U
Diethyl Ether	G	G
Emulsifier	G	G
Ether	G	G
Ethyl Acetate	L	L
Ethyl Alcohol – 6%	G	G
– 100%	G	G
Ethylene Chloride	L	L
Ethylene Glycol	G	G
Fluorine	U	U
Glycerol	G	G
Grape Sugar	G	G

Chemical or Material Conveyed	Temperatures 68°F	104°F
Hormamide- 40%	G	G
Hydrochloric Acid – 10%	G	L
– 20%	G	L
Concentrate	G	L
Hydrogen	G	G
Hydrogen Chloride (Anhydrous)	G	L
Hydrogen Peroxide - 3%	U	U
- 30%	U	U
(Above 80%)	U	U
Hydrogen Sulfide	G	G
Iodine	U	U
Iron Chloride	G	G
Iron Sulfate	G	G
Isopropyl Alcohol	G	G
Magnesium Carbonate	G	G
Magnesium Chloride	G	G
Magnesium Hydroxide	G	G
Magnesium Sulfate	G	G
Methanol - 20%	G	G
Methyl Alcohol- 6%	G	G
- 100%	G	G
Methyl Ethel Ketone	G	G
Methylene Chloride	L	L
Mineral Oil	U	U
Monochloro Benzene	U	U
Nitric Acid – 5%	L	L
– 50%	L	L
– 70%	U	U
– 95%	U	U
Oleic Acid	L	L
Ozone	G	G
Parraffin	U	U
Perchlorethylene	U	U
Phenol	L	L
Phosphoric Acid - 30%	G	G
Photosensitive Emulsion	G	G
Potassium Bichromate	U	U
Potassium Bromide	G	G
Potassium Chloride	G	G
Potassium Cyanide	G	G
Potassium Fluoride	G	G
Potassium Hydroxide - 10%	G	G
(Conc.)	G	G
Potassium Permanganate	U	U
Potassium Phosphate	G	G
Propylene Glycol	G	G
Sake (Alcohol)	G	G
Salt Water	G	G
Sauce	G	G
Sodium Bicarbonate	G	G
Sodium Chloride	G	G
Sodium Hydroxide - 10%	G	G
(Conc.)	G	G
Sodium Hypoclorite - 15%	G	G

Chemical or Material Conveyed	Temperatures 68°F	104°F
Soy Sauce	G	G
Stearic acid	L	L
Sulfur Dioxide	U	U
Sulfuric Acid	L	L
Sulfurous Acid - 30%	L	L
Tetrahydrofuron	L	L
Toluene	U	U
Transformer Oil	U	U
Water	G	G
Zinc Chloride	G	G

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SBR

RATINGS KEY – SBR

G Good L Limited U Unsatisfactory

Material Handled	Temperature 68°F
1,1-dichloroethylene	U
1,2-dichloroethane	U
Acetic Acid (10%)	L
Acetone	L
Aluminum Acetate	L
Aluminum Chloride	G
Aluminum Hydroxide	G
Aluminum Sulfide	L
Ammonia (Gas)	G
Ammonia (Liquid)	G
Ammonium Acetate (Conc.)	G
Ammonium Bicarbonate	G
Ammonium Chloride	G
Ammonium Hydroxide	U
Ammonium Nitrate	G
Aniline	U
Aniline Sulfate	U
Barium Chloride	G
Barium Hydroxide	G
Beer	L
Benzene	U
Benzyl Alcohol	U
Bromine	U
Butyl Alcohol	G
Calcium Carbonate	G
Calcium Chloride (Conc.)	G
Calcium Chloride (in 20% Mesh)	G
Calcium Hypochlorite (15% Cl2)	U
Calcium Hypochlorite (Conc.)	U
Carbon Dioxide	U
Carbon Monoxide	L
Carbon Tetrachloride	U
Carbonic Acid	L
Carbonic Acid Gas	G
Cetyl Alcohol	L
Chlorine (10% Gas)	U
Chlorine (100% Gas)	U
Chlorine (Solution)	U
Chloroform	U
Chromate (25%)	U
Citric Acid	G
Copper Chloride	G
Copper Nitrate	G
Copper Sulfate	L
Creosote Oil	U
Dextrin	G
Dichlorobenzene	U
Dichloromethane	U
Diethyl Ether	U
Emulsifier	G
Ether	L
Ethyl Acetate	U
Ethyl Alcohol (100%)	G
Ethyl Alcohol (6%)	G

Material Handled	Temperature 68°F
Ethylene Glycol	G
Fluorine	U
Formaldehyde (40%)	L
Glycerol	G
Grape Sugar	G
Hydrochloric Acid (10%)	L
Hydrochloric Acid (20%)	L
Hydrochloric Acid (Conc.)	L
Hydrogen	L
Hydrogen Chloride (Anhydride)	L
Hydrogen Peroxide (3%)	U
Hydrogen Peroxide (30%)	U
Hydrogen Peroxide (80% or more)	U
Hydrogen Sulfide	U
Iodine	U
Iron Chloride	G
Iron Sulfate	G
Isopropyl Alcohol	L
Magnesium Carbonate	G
Magnesium Chloride	G
Magnesium Hydroxide	L
Magnesium Sulfate	L
Methyl Alcohol (100%)	G
Methyl Alcohol (6%)	G
Methyl Ethyl Ketone (MEK)	U
Mineral Oil	U
Monochlorobenzene	U
Nitric Acid (5%)	U
Nitric Acid (50%)	U
Nitric Acid (70%)	U
Nitric Acid (95%)	U
Nitrous Acid (10%)	L
Oleic Acid	U
Oxalic Acid	L
Ozone	U
Paraffin	U
Perchloroethylene	U
Phenol	U
Phosphoric Acid (30%)	U
Potassium Bichromate	U
Potassium Bromide	G
Potassium Chloride	G
Potassium Cyanide	G
Potassium Fluoride	G
Potassium Hydroxide (10%)	L
Potassium Hydroxide (Conc.)	L
Potassium Permanganate	U
Potassium Sulfate	G
Propylene Glycol	L
Sake	G
Salt Water	G
Sodium Bicarbonate	G
Sodium Chloride	G
Sodium Hydroxide (10%)	G

Material Handled	Temperature 68°F
Sodium Hydroxide (Conc.)	G
Soy Sauce	G
Stearic Acid	G
Sulfuric Acid (10%)	U
Tetrahydrofuran	U
Toluene	U
Transformer Oil	U
Water	G
Zinc chloride	G

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About Biofuel Friendly Products

1 HOW ARE TIGERFLEX™ BIOFUEL FRIENDLY PRODUCTS™ HOSES DIFFERENT FROM OTHER BRAND HOSES?

Tigerflex™ brand hoses are well known for their lightweight, easy-to-handle and long-life features.

Tigerflex™ brand BIOFUEL FRIENDLY PRODUCTS™ drop and vapor recovery hoses are constructed with non-permeable thermoplastic polyurethane (TPU) tubes. Traditional thermoplastics, while providing exceptional lightweight and flexibility features, were not chemically compatible for fuels of more than 30% ethanol blended (E30).

But the new Tigerflex™ brand BIOFUEL FRIENDLY PRODUCTS™ hoses, utilizing the latest advancements in TPU development, have been lab and field proven to remain crack and leak resistant under the harshest conditions. They easily handle conventional oxygenated and reformulated gasoline blends; ethanol blends (up to E98); ultra low sulfur (ULS) diesel; and bio-diesels (up to B100 which meet ASTM D 6751 criteria).

2 WHAT ARE ETHANOL BLENDS – E10, E85, E98, E100?

E10 (gasohol) is a fuel blend containing 10% ethanol and 90% gasoline; E85 is 85% ethanol and 15% gasoline; E95 is 95% ethanol and 5% gasoline; and so on. E100 is ethyl alcohol (grain alcohol). Many common plastics and rubbers are chemically compatible with E100. Yet, E100 is almost never used or transported in the U.S. fuel industry because E100 is taxed as alcohol (liquor). Gasoline is added to render the fuel unsuitable for human consumption, and thus not subject to alcohol taxes. Adding gasoline changes the chemical composition whereas materials that are compatible with E100 are not compatible with an E98 fuel blend.

Kuriyama™ BIOFUEL FRIENDLY PRODUCTS™ products can be used with all percentage blends of ethanol fuel.

Metal couplings compatibility: Aluminum (good), Stainless Steel (excellent).

3 WHAT IS BIODIESEL – B20, B100?

Biodiesel is a non-fossil fuel alternative to petroleum diesel. ASTM International has developed standard D6751 as the specification standard for 100% biodiesel (B100). Biodiesel is generally used for blending with petroleum diesel. For example, B20 is a fuel blend of approximately 20% biodiesel and 80% traditional petroleum diesel. ASTM D6751 is the specification for biodiesel fuels that needs to be met, irrespective of the feedstock source and/or processing method. Biodiesels which meet the ASTM D6751 criteria have the same chemical compatibilities to hoses and accessories as traditional petroleum diesel.

It is suggested that biodiesel fuels be sourced from accredited BQ-9000 Producers and BQ-9000 Marketers to assure the biodiesel fuel meets the ASTM D6751 criteria.

Kuriyama™ BIOFUEL FRIENDLY PRODUCTS™ hose products can be used with all percentage blends of biodiesels meeting the ASTM D6751 criteria.

Metal couplings compatibility: Aluminum (excellent), Stainless Steel (excellent).

4 WHAT TYPE OF HOSE SHOULD BE USED FOR DENATURED ETHANOL (E95-E98) UNLOADING AT TERMINALS?

We suggest our Alfagomma® series-T629AA – 150 PSI Black Biofuel Petroleum Suction Hose for bulk ethanol terminals. The Alfagomma® T629AA is a specially blended, heavy duty neoprene hose, well suited for these types of applications.

The Tigerflex™ Tigerdrop™ drop hose is a lightweight, user-friendly hose, designed for tank truck applications. However, it also has been used successfully at well maintained bulk ethanol facilities.

IMPORTANT: Extra care must be taken when handling denatured ethanol (E95-E98) – even more so than with traditional petroleum based fuels. The following procedures must be followed to ensure maximum hose service life:

1. Hose should be drained and unhooked from the pump after each use. Properly draining and unhooking the hose will protect it from damaging denatured ethanol vapors. American Petroleum Institute Recommended Practices No. 1007, section 5.4, states that, “When pumping is finished the driver should walk the suction hose to the pump... Place any residual product into approved container.”
2. Hose should be kept in a properly designed, (∩ shaped), storage rack when not in use. Use of storage rack will help ensure the hose is properly drained after each use; as well protect the hose from being accidentally run over!
3. Keep hose in a shaded area when in use. Do not expose hose to direct sunlight. Excessive UV exposure can damage any hose.
4. Thoroughly inspect hose before, during and after each use

If the hose is not fully drained after each use the denatured ethanol remaining in the hose can release damaging vapors, this is especially true at high temperatures. When the air temperature exceeds 90° F, the temperature of ground, concrete, asphalt or stone surface upon which the hose may be lying can be in excess of 150° F. At temperatures in excess of 110°F denatured ethanol has been shown to percolate, releasing damaging vapors. These vapors can permeate the hose at a much higher rate than the liquid fuel, and can substantially reduce the service life of the hose. Ethanol vapors are extremely damaging, more so than petroleum based fuel vapors.

5 CAN I LEAVE GASOLINE OR E85 INSIDE THE HOSES WHEN NOT IN USE?

We strongly recommend that all fuel transfer hoses are fully drained after each use. Per American Petroleum

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Institute Recommended Practices No. 1007, Section 4, when unloading to underground storage tanks, to "Disconnect the delivery hose at the tank truck and "roll" it to the receiving tank to be sure it is completely drained." In addition, vapor recovery hoses used in distribution terminal loading racks must be regularly inspected and drained as fuel will tend to collect in the hoses. At high temperatures these fuels can percolate, releasing damaging vapors which can attack the hose and shorten service life.

6 DO DROP AND VAPOR RECOVERY HOSE NEED TO BE GROUNDED?

For added safety, Kuriyama of America, Inc. strongly suggests that any hose assembly used to transfer fuel or fuel vapors be bonded to ground before being put into service. (Refer to Hose Assembly Coupling Installation Suggestions in the catalog.) Embedded grounding wires should be physically extracted from the hose and bonded (connected) to ground through the metal coupler, or by other means.

7 HOW DO I CHECK A HOSE OR HOSE ASSEMBLY FOR CONTINUITY, OR "LESS THAN 10 OHMS"?

A continuity meter is a simple device that shows if a circuit is continuous; the light goes on when the probes are connected to either end of the hose or hose assembly, indicating continuity. Note: smaller continuity meters may be more accurate than larger-sized devices.

A common multimeter can also be used to measure a hose assembly for less than 10 ohms resistance. The less the amount of resistance, the easier the electrons flow through to ground. The electrical symbol for ohms is Ω.

Either of both methods can be used to test whether a hose assembly is "good" to put into service. Either device can be found at hardware stores and home centers. Devices vary, but, in general, with either device, simultaneously touch one probe to each metal coupling on the ends of the hose assembly. A "good" hose assembly with be indicated by either the light going on, or the reading of less than 10 ohms (Ref. API RP-2003; NFPA RP-77). For unassembled hoses, simply touch one probe to the grounding wire at each end of the hose.

The electrical resistance (ohms) of a wire is primarily dependent upon the length, size and type of material of the wire. Copper is the best metal (least ohms resistance). The longer the hose the more wire and thus the greater the electrical resistance of the hose's grounding wire. A typical drop and vapor recovery hose assembly is 20 feet. Tigerflex™ drop and vapor recovery hoses up to 40 feet in length should measure less than 10 ohms.

8 SHOULD ONE USE BANDING SLEEVES OR BANDING COILS?

Screwing on approximately 12-inch length banding sleeves provides both a smooth surface for banding clamps, and also provides support behind the coupling – the most common stress area of a hose assembly. Threading a banding coil between the hose helixes provides a smoother surface for banding. Both have been used quite successfully.

9 CARE, MAINTENANCE AND STORAGE OF TIGERFLEX™ HOSE.

Proper storage conditions and handling procedures can enhance and substantially extend the ultimate life of Tigerflex™ hose.

Hose has limited life and the user must be alert to signs of impending failure. The service life of our hose is dependent upon the user's application. Since we have no control over the way in which the hose is used, we do not warrant our hose for any particular service life.

Tigerflex™ hose should not be subjected to any form of abuse in storage or service. Care should be taken to protect the hose from heavy load factors. Hose should be stored flat on smooth surfaces, and should not be stacked more than six coils high. Stacking hose higher than this could cause the compression load factor on the bottom coil to exceed the hose's design load limitations, causing the bottom coil to flatten out.

Hose should not be stored outdoors due to potential damage from the elements, which may shorten hose life.

Hose should not be stored in an upright manner, as this can cause the round coils to become egg shaped, and that stress can cause a deterioration of the hose.

Hose should not be kinked or run over by any equipment. In the handling of larger ID hose, dollies should be used in transporting whenever possible. Slings or handling rigs, properly placed, should be used to support heavier hose.

GENERAL CHEMICAL RESISTANCE OF KURIYAMA COUPLINGS™ GASKETS

Common Name	General Properties
BUNA, BUNA-N	Excellent oil resistance. Good physical properties.
Viton®	Excellent chemical and heat resistance. Excellent biofuel resistance.

GENERAL BIOFUEL RESISTANCE OF KURIYAMA - COUPLINGS™

ALUMINUM

Biodiesel	Ethanol	Gasoline/Diesel
Excellent	Good	Excellent

STAINLESS STEEL

Biodiesel	Ethanol	Gasoline/Diesel
Excellent	Excellent	Excellent

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Drop Hose Coupling Installation Suggestions

For Tigerflex™ Series TDH™ & NDH™ Gasoline Drop Hoses & Series TV™, TVHD™, and VAPR™ Gasoline Vapor Recovery Hoses using Tigerflex™ Banding Sleeves or Banding Coils

WARNING

Failure to properly couple a hose or ensure continuity can result in property damage and serious or life-threatening injury! Kuriyama of America, Inc. shall not be liable if you do not follow the procedures outlined below. Always refer to the NAHAD HSI Industrial Assembly Guidelines for the latest hose assembly and testing industry practices.

For safety, Kuriyama of America, Inc. strongly suggests that any hose assembly used to transfer gasoline or gasoline vapors be bonded to ground before being put into service.

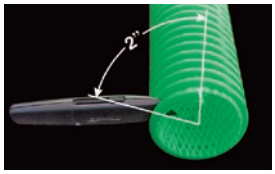
Tigerflex™ Hose Series TDH™, NDH™, TV™, TVHD™ and VAPR™ are manufactured with a stranded copper wire in the rigid PVC helix. The wire is to be physically extracted from the helix and bonded (connected) to ground through the metal coupler/fitting, or by other means. A properly bonded/grounded hose assembly should measure less than 10 ohms.

The person assembling the couplings to the hose should know how to check the hose assembly for continuity by properly using a continuity meter and/or an ohmmeter.

Note: Visual inspections should be conducted on a regular basis to ensure the hose assembly's continued safety.

1 *Check the grounding/bonding wire in the cut length of hose with a continuity meter or ohmmeter (ohmmeter should read less than 10 ohms).*

2

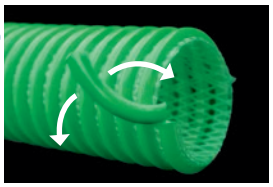


Using a sharp knife, cut the flex around the circumference of the hose approximately 2".

3

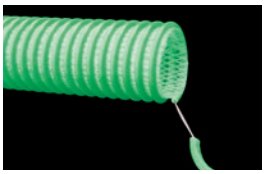
Using the knife, make a light cut around the entire circumference of the hose's rigid helix. Be careful not to cut too deeply into the helix, to avoid damaging the grounding wire. TIP: Cut all the way through the urethane (TDH, TV, TVDH, or VAPR) or nitrile (NDH) flex, but only score the underside of the helix.

4



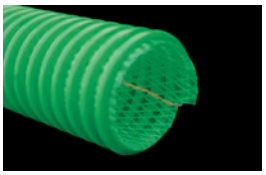
Grasp the end of the hose's helix and carefully bend it back and forth until the helix snaps off. Be careful not to break the copper grounding wire.

5



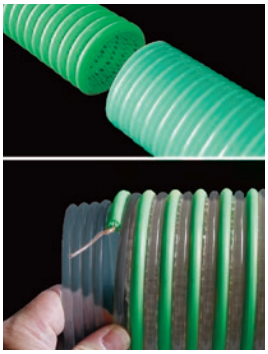
Gently pull the broken end of the hose's helix off the copper wire. TIP: Pull with the curve of the helix.

6



Twist the copper grounding wire strands together and tuck the wire inside the hose.

7



Screw approximately 12" of banding coil or sleeve onto the hose (use appropriate lubricant as needed). Slip the banding clamps onto the hose. TIP: When using banding coils tighten clamps the same direction as the helix for better compression.

8

Insert the coupling shank into the hose, twisting counterclockwise for TDH, TV, TVHD, and VAPR and clockwise for NDH as it enters. For ease of installation, an appropriate lubricant may be used.

9

Insert the coupler into the hose until the hose seats against the bottom of the coupler.

10 *Check continuity/ohmmeter reading again, between the couplings on each end.*

11

Install two hose clamps over the hose end above the coupling. Be sure to tighten clamps in a clockwise direction for TDH, TV, TVHD, and VAPR, and a counterclockwise direction for NDH, so the banding coils tighten down on the hose.

12 *Check continuity/ohmmeter reading again, between the fittings on each end of the hose assembly. The resistance should measure less than 10 ohms.*

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tigerflex

TIGERFLEX™ OIL & GAS HOSES

E Excellent G Good L Limited U Unsatisfactory X Not Recommended

Chemical or Material Conveyed	TDH		NDH		TV, TVHD & VAPR		OV		ORV/WOR	
	68ºF	104ºF	68ºF	104ºF	68ºF	104ºF	68ºF	104ºF	68ºF	104ºF
ASTM Fuel #1 Oil	E	E	E	G	-	-	E	E	G	L
ASTM Fuel #3 Oil	E	E	G	L	-	-	E	E	E	G
ASTM Fuel A	E	E	E	G	X	X	G	G	-	-
ASTM Fuel B	G	L	G	L	X	X	G	L	-	-
ASTM Fuel C	G	L	L	U	X	X	G	L	-	-
Benzene	L	U	X	X	-	-	L	U	U	U
Biodiesel Liquid Fuel (B20) **	E	E	G	L	X	X	G	G	-	-
Biodiesel Liquid Fuel (B100) **	E	E	G	L	X	X	G	G	-	-
Biodiesel Vapor (B20)	E	E	E	G	E	E	G	L	G	L
Biodiesel Vapor (B100)	E	E	E	G	E	E	G	L	G	L
Butane	E	E	G	L	-	-	E	E	E	E
Castor Oil	G	G	G	L	-	-	G	L	G	U
Coconut Oil	E	E	G	L	-	-	E	E	L	U
Gasoline Liquid Fuel (Conventional, Oxygenated & Reformulated)	E	E	E	G	X	X	G	G	-	-
Gasoline Vapor (Conventional, Oxygenated & Reformulated)	E	E	E	G	E	E	G	G	G	G
Core Oil	E	E	-	-	-	-	E	E	E	E
Corn Oil	-	-	G	L	-	-	-	-	E	G
Cottonseed Oil	E	E	G	L	-	-	E	E	G	L
Crude Oil - Sour	E	E	G	L	-	-	E	E	E	E
Crude Oil - Sweet	E	E	G	L	-	-	E	E	E	E
Cyclohexane	E	E	X	X	-	-	-	-	L	U
Diesel Liquid Fuel *	E	E	E	E	X	X	G	G	-	-
Diesel Oil	-	-	G	L	-	-	-	-	L	U
Diesel Vapor	E	E	E	G	E	E	G	G	E	G
Dynamo Oil	-	-	G	L	-	-	-	-	E	G
Ethanol Liquid Fuel (E85) **	E	E	G	G	X	X	L	L	-	-
Ethanol Liquid Fuel (E98) **	G	L	G	L	X	X	L	L	-	-
Ethanol Vapor (E85) *	E	E	G	G	E	G	L	L	G	U
Ethanol Vapor (E98) *	G	L	G	L	G	L	L	L	G	L
Ethyl Alcohol (E100)	G	G	G	G	-	-	G	L	L	L
Ethyl Tertiary Butyl Ether (ETBE)	G	G	L	U	-	-	L	L	L	U
Fuel Oil	E	E	G	L	-	-	-	-	-	-
Gas Oil	-	-	G	L	-	-	-	-	E	G
Grease	-	-	G	L	-	-	-	-	E	L
Isomerate	E	E	G	L	-	-	E	G	-	-
Iso-octane	E	E	E	G	-	-	E	G	G	L
Isopropyl Alcohol	-	-	G	L	-	-	-	-	E	G
Jet Fuels	G	L	G	L	X	X	-	-	-	-
Kerosene	E	G	G	L	X	X	E	G	U	U
Kerosene Vapor	E	G	E	G	E	G	E	G	G	L
Ketones	-	-	X	X	-	-	-	-	U	U
Lacquer Thinners	G	-	X	X	-	-	G	-	L	U
Lard Oil	E	G	G	L	-	-	E	G	E	G
Lubricating Oil	E	E	G	L	-	-	E	E	E	L
Linseed Oil	E	E	G	L	-	-	E	E	E	E
Machine Oil	E	E	G	L	-	-	E	G	E	G
Methanol (M85)	G	G	G	L	-	-	G	L	U	U
Methyl Alcohol	L	U	G	L	-	-	L	U	L	U
Methyl Ethyl Ketone (MEK)	L	U	X	X	-	-	L	U	U	U
Methyl Tertiary Butyl Ether (MTBE)	G	G	L	U	-	-	L	L	L	U
Mineral Oils	E	E	G	L	-	-	E	E	E	G
Mineral Spirits	-	-	L	U	-	-	-	-	-	-
Napthalene	-	-	X	X	-	-	-	-	L	U

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TIGERFLEX™ OIL & GAS HOSES

E Excellent **G** Good **L** Limited **U** Unsatisfactory **X** Not Recommended

Chemical or Material Conveyed	TDH		NDH		TV, TVHD & VAPR		OV		ORV/WOR	
	68ºF	104ºF	68ºF	104ºF	68ºF	104ºF	68ºF	104ºF	68ºF	104ºF
Napthas	E	E	G	L	-	-	E	E	U	U
Natural Gas	E	E	G	L	-	-	E	E	E	E
Oils and Fats	E	E	G	L	-	-	E	E	E	G
Petrol *	E	E	E	E	X	X	G	G	U	U
Petroleum Ether	-	-	G	L	-	-	-	-	L	L
Petroleum Oils	E	E	G	L	-	-	E	E	E	G
Sour Gasoline *	E	E	L	U	X	X	G	G	-	-
Soy Bean Oil	G	G	G	L	-	-	G	L	G	U
Soya Oil	-	-	G	L	-	-	-	-	E	G
Spindle Oil	-	-	G	L	-	-	-	-	E	L
Tall Oil	-	-	L	U	-	-	-	-	-	-
Tertiary Amyl Methyl Ether (TAME)	-	-	L	U	-	-	L	L	L	U
Toluene	L	U	X	X	-	-	L	U	U	U
Train Oil	-	-	-	-	-	-	-	-	E	U
Transformer Oil	-	-	-	-	-	-	-	-	-	-
Transmission Fluid	G	G	G	L	-	-	G	G	E	L
Turbine Oil	-	-	G	L	-	-	-	-	E	L
Turpentine	E	G	X	X	-	-	E	G	L	U
Ultra Low Sulfur Diesel *	E	E	G	G	X	X	G	G	-	-
Vegetable Oil	-	-	E	G	-	-	-	-	E	L
White Gasoline *	E	G	G	G	X	X	G	G	-	-

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CARE AND MAINTENANCE

Hoses have a limited service life and users must be alert to signs of impending failure. Users of industrial hose should have safety and inspection procedures in place. Hose users should be trained how to properly inspect a hose for signs of impending failure. Hose should be routinely inspected for signs of damage.

Length of hose service life is affected by several factors including the type of material conveyed, pressure, vacuum, number and degree of bends, amount of flexing and exposure to environmental elements. Since we have no control over the way in which the hose is used, we do not warrant our hose for any particular service life.

Hoses and fittings should be routinely inspected for signs of damage, such as:

- Cuts, cracks, severe abrasions or holes in the hose tube, helical support or grounding wire
- Ovaling, kinking, bulging or any other deformation of the hose's normal shape
- Hardening or soft spots
- Flaking or chipping
- Misalignment or weakening of the coupling retention
- Fitting or clamp damage such as loose clamps, missing pins, worn threads excessive corrosion

If any of these signs of damage are observed, contact your hose supplier for replacement or repair.

RECOMMENDED PRACTICES

Hoses should only be used to convey materials compatible with hose construction. Refer to the Chemical Resistance and Application Guides in this catalog.

Hoses should not be used at levels that exceed their working pressure or vacuum ratings, and should not be subjected to severe pressure spikes or abrupt drops in pressure.

Hoses can sustain damage at high temperatures. Care should be exercised to not exceed the temperature limits of the hose. Hose should not be installed near sources of high heat.

Do not subject hose to abuse during service. Hose should not be thrown, dropped or subjected to severe impacts.

Machinery should not be moved by pulling on the hose. Protect the hose from sharp edges and corners by using appropriate hose covers or sleeves.

Tigerflex hoses should not be installed underground as they are considered temporary connections.

Like other materials, Tigerflex hoses can be damaged by rodents or insects, including termites. Our warranty does not cover damages caused by them.

If hose is used in a suspended position it should be supported in multiple points with use of proper hose slings in order to evenly distribute the hose weight.

Hose should not be used in applications where hose failure would result in contents exposure to open flame or other ignition sources.

When not in service hoses should be drained and stored properly.

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THE FOLLOWING STORAGE CONDITIONS AND HANDLING PROCEDURES CAN ENHANCE AND SUBSTANTIALLY EXTEND THE ULTIMATE LIFE OF TIGERFLEX™ HOSE.

Upon receipt of Tigerflex™ product, skids should be broken down and product inspected for shipping damage. Skids are configured for shipping purposes only.

Hose should be stored indoors out of direct sunlight. Hose should be stored a minimum of ten feet from fluorescent light fixtures.

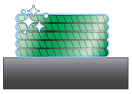
Hose should always be stored flat on smooth surfaces. Hose should not be stored on its side as this can cause the section of the hose resting on the ground to become deformed, or “egg shaped”.

Hose coils should not be stacked more than six coils high. Larger diameter hoses, 4" and above, should be stacked fewer than six coils high. Please refer to the following chart for recommended maximum stacking height requirements by hose size:

Hose Size (ID)	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"+
Max Coil Stack Height	6	6	6	6	6	6	6	5	3	2	1

Exceeding these coil stacking requirements may cause the compression load factor on the bottom coil to exceed the hose’s load limitations, causing the bottom coil to flatten out.

Hose should be pulled from inventory on a first-in, first-out (FIFO) basis.



During storage, hose should be kept in its original wrapping when possible, and kept free of dust and dirt.

Hose should not be exposed to water, oils, solvents, or corrosive liquids and fumes during storage. Hose should be protected from rodents and insects.

Rubber hoses should not be stored near electrical equipment. The motor in the equipment can generate ozone, which can attack and damage rubber hose.

Hose should not be subjected to extreme temperatures. Ideal hose storage temperature is between 50°F and 70°F, and ideally should not exceed 100°F. *Be aware, when the air temperature is over 90°F outdoor ground surfaces such as asphalt, concrete and gravel can be in excess of 150°F.* Such extreme heat conditions could reduce service life of thermoplastic products. Do not store hoses near heat sources such as heat vents, heaters or radiators. Hoses should not be exposed to dampness or high humidity during storage.

Hose should not be kinked or run over by any equipment. Do not drag the hose during storage & shipping. In the handling of larger ID hose, dollies should be used in transporting whenever possible. Slings or handling rigs, properly placed in multiple locations throughout the hose, should be used to support heavier hose. Hanging and supporting coils using forklift forks without protection may damages hose.

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