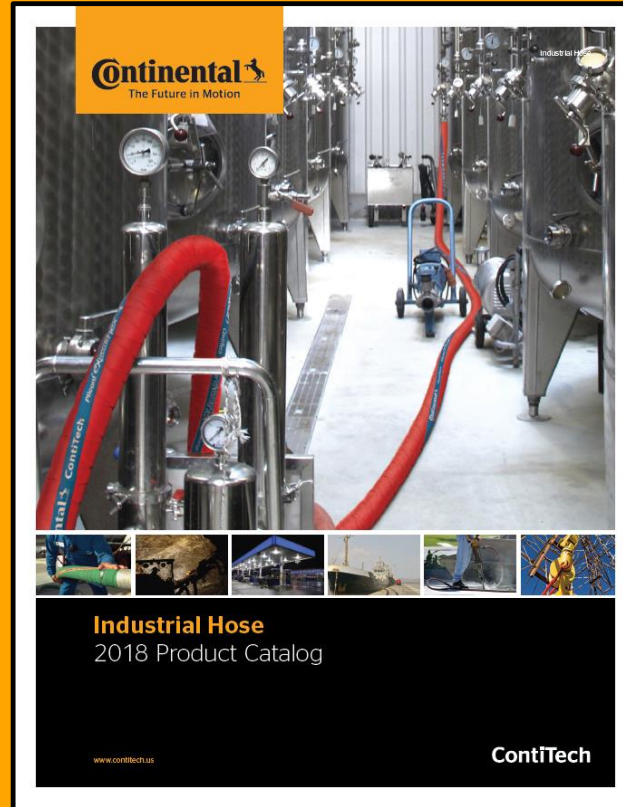


# Updates for the New 2018 Industrial Hose Catalog



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- List all current and new additions to the 2018 INH Catalog

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Diesel Oil SW		214	Galvanator 3000	A	65
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Diverster		139	Gauriset 3000	A	67

**Properties Legend:**

 A - Superior Abrasion Resistance

 M - USMSHA Approved

 NC - Non-Conductive

 F - FDA, 3A, & USDA Compliant

 UL - Underwriter's Laboratory Approved

 CUL - Underwriter's Laboratory Approved (Canada)



Hoses are listed alphabetically and by application

ContiTech

PLEASE NOTE SEVERAL HOSES START WITH:

Plicord®

Flexsteel®

Spiraflex®

Flexwing®

Application index with key symbols highlighted

Air & Multipurpose  
General Purpose  
Heavy Duty  
Push-on

Chemical Transfer  
Cleaning Equipment

Food  
Dry Transfer  
Liquid Transfer  
Washdown

Marine  
Material Handling  
Abrasives  
Bulk Transfer  
Cement & Concrete  
Mining

Petroleum  
Aircraft Fueling  
Dispensing  
Dock  
Rig Supply  
Transfer Discharge  
Transfer S&D

Specialty

Steam  
Vacuum

Water  
Discharge  
Suction & Discharge  
Washdown  
Garden

Welding  
Coupling Systems  
Equipment  
Appendix

Food  
Dry Transfer  
Liquid Transfer  
Washdown

- Transfer separated in to Dry Transfer and Liquid Transfer

Petroleum  
Aircraft Fueling  
Dispensing  
Dock  
Rig Supply  
Transfer Discharge  
Transfer S&D

- Added Rig Supply Section
- Transfer separated in to Transfer Discharge and Transfer Suction & Discharge

Specialty

New Specialty Section includes:

- Spray
- LPG
- Fire Engine Booster
- Hydrocarbon Drain
- DEF
- Nitrogen

Water  
Discharge  
Suction & Discharge  
Washdown  
Garden

- Added Garden Section

**NEW  
For 2018**

<b><u>New Additions</u></b>	
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Deep Blue Potable Water .....	Page 98
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Poseidon .....	Page 115
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<b>ADDED HOSES</b>	
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Unitrix 60	Page 31
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Plicord Water Discharge 150	Page 282
Con-Ag 150 Water S&D	Page 292
Con-Ag Water S&D	Page 294
Garden Hoses	Pages 306-309


**Hoses that were already in our product portfolio, but have now been added to the catalog for quick, easy reference.**

Each APPLICATION Section has a quick snapshot of hoses with KEY ATTRIBUTES

Added ContiTech Legacy Hoses to Corresponding Sections

Air & Multipurpose General Purpose 11

### General Purpose



	Page	Cover	ASIA	Non-conductive	Oil Resistance Tube*	Oil Resistance Cover*	Temp. Range	Thermo-plastic	Rubber
Arctic Ortac	25				A	A	-50°F to 180°F (-54°C to 82°C)	Yes	
Arctic Ortac Plus	24				A	A	-50°F to 180°F (-54°C to 82°C)	Yes	
Brakcar	23				A	B	-20°F to 210°F (-29°C to 99°C)	Yes	
Clamped Jackhammer Assembly	19	Yes			C	C	-40°F to 210°F (-40°C to 99°C)	Yes	
FS	20				B	B	-40°F to 158°F (-40°C to 70°C)	Yes	
Fleetair Service Station Air	26				B	B	-20°F to 210°F (-29°C to 99°C)	Yes	
Frontier 200	17-18				C	C	-40°F to 210°F (-40°C to 99°C)	Yes	
Frontier 250	17-18				C	C	-40°F to 210°F (-40°C to 99°C)	Yes	
Frontier 300	17-18				C	C	-40°F to 210°F (-40°C to 99°C)	Yes	
Gorilla	12	Yes	Yes	Yes	A	A	-20°F to 210°F (-29°C to 99°C)	Yes	
Mil. AA-99565 Military Air Hose	28				C	C	-40°F to 210°F (-40°C to 99°C)	Yes	
Nitrogen Service Hose	29				C	C	-40°F to 210°F (-40°C to 99°C)	Yes	
Ortac 250	13-14	Yes		Yes	A	A	-20°F to 210°F (-29°C to 99°C)	Yes	
Ortac 300	13-14	Yes		Yes	A	A	-20°F to 210°F (-29°C to 99°C)	Yes	
Ortac 400	13-14	Yes	Yellow Only	Yes	A	A	-20°F to 210°F (-29°C to 99°C)	Yes	
PhoVAC GS	21-22			Yes	B	B	-10°F to 158°F (-40°C to 70°C)	Yes	
PhoVAC Plus 250	21-22			Yes	B	B	-10°F to 158°F (-40°C to 70°C)	Yes	
Service Station Air	27				C	C	-40°F to 210°F (-40°C to 99°C)	Yes	
Uniflex 60	15-16				A	A	-13°F to 185°F (-23°C to 85°C)	Yes	
Uniflex 80	15-16				A	A	-40°F to 185°F (-40°C to 85°C)	Yes	
Vertflex 200	15-16				A	A	-20°F to 210°F (-29°C to 99°C)	Yes	
Vertflex 300	15-16				A	A	-20°F to 210°F (-29°C to 99°C)	Yes	

\*Based on ARPM oil classification. For more information, see Appendix C.

Continental ContiTech

- Air & Multipurpose
- General Purpose
- Heavy Duty
- Protron
- Chemical Transfer
- Cleaning Equipment
- Food
- Dry Transfer
- Liquid Transfer
- Washdown
- Marine
- Material Handling
- Abrasives
- Bulk Transfer
- Cement & Concrete
- Mining
- Petroleum
- Aircraft Fueling
- Depositing
- Deck
- Rig Supply
- Transfer Discharge
- Transfer S&D
- Specialty
- Steam
- Vacuum
- Water
- Discharge
- Suction & Discharge
- Washdown
- Garden
- Welding
- Coupling Systems
- Equipment
- Appendix

Reference symbols at the top of each page

Construction information on Tube, Reinforcement, and Cover

Temperature Range

6 Digit product code for reference

ADDED SAFETY FACTOR TO EACH SPEC PAGE

Air & Multipurpose General Purpose 12

**Gorilla®**

GORILLA BY Continental ContiTech

**Product Specifications**

**Application**  
A premium-quality, multipurpose industrial hose with a wide range of applications in factories, construction, agriculture, quarries, mines, railroads, the oil and gas industry and shipbuilding. All sizes are crush-resistant and rated at 500 psi (3.4 MPa) maximum working pressure. The premium Carbyrn™ cover offers the most superior abrasion resistance of air and multipurpose hoses. Non-conductive, minimum electrical resistance greater than 1 megohm per inch of hose length at 1000 Volts DC.

**Packaging**  
500 one-piece reels up to 1' 3/16" - 3/4" - 9/10" reels maximum 3 pieces, 50' increments  
1' - 4/5" reels, maximum 3 pieces, 50' increments  
1 1/4" - 250'-400' reels, maximum 3 pieces, 50' increments  
1 1/2" - 150'-300' reels, maximum 3 pieces, 50' increments  
2" - 200' carton, maximum 3 pieces, 50' increments  
Coupled assemblies available: 1/4", 3/8", 1/2", and 3/4".

**Branding**  
Example Gorilla® by Continental ContiTech 1" (25.4 mm) 500 psi Made in USA Flame Resistant USMSHA No. 20-C-14C/39

**Construction**  
> **Tube**  
Nitrile synthetic rubber, APRM Class A (High Oil Resistance)  
> **Cover**  
Yellow Carbyrn™ synthetic rubber, APRM Class A (High Oil Resistance) MSHA approved  
> **Reinforcement**  
Spiral aramid yarn, 2" b braided synthetic yarn

**Temperature Range**  
-20°F to 210°F (-29°C to 99°C)

**Couplings**  
Refer to the ContiTech Industrial Hose Assembly Manual for crimp specifications.  
READY TO GO  
Coupled assemblies available.

**Order Codes**  
569-035  
536-446 (2)

**GOHHS**

	SAP #	ID	Nom. OD		Max. WP	Weight			
			in.	mm		lb./ft.	kg/m		
Water Discharge	20026239	1/4	6.4	0.61	15.5	500	3.45	0.17	0.25
	20026256	3/8	9.5	0.73	18.6	500	3.45	0.22	0.33
	20026273	1/2	12.7	0.89	22.6	500	3.45	0.28	0.42
Welding	20026289	5/8	15.9	1.06	26.9	500	3.45	0.35	0.52
	20026290	3/4	19.1	1.19	30.2	500	3.45	0.41	0.61
Coupling Systems	20026304	1	25.4	1.50	37.8	500	3.45	0.58	0.86
	20026306	1 1/4	31.8	1.77	45.6	500	3.45	0.79	1.18
Equipment	20026309	1 1/2	38.1	2.04	51.8	500	3.45	0.86	1.27
	20023183	2	50.8	2.62	66.4	500	3.45	1.22	1.82

Hose design ratio (burst pressure) 4:1.

Continental ContiTech

Air & Multipurpose General Purpose

**Gorilla®**

GORILLA BY Continental ContiTech

**Product Specifications**

**Application**  
A premium-quality, multipurpose industrial hose with a wide range of applications in factories, construction, agriculture, quarries, mines, railroads, the oil and gas industry and shipbuilding. All sizes are crush-resistant and rated at 500 psi (3.4 MPa) maximum working pressure. The premium Carbyrym® cover offers the most superior abrasion resistance of air and multipurpose hoses. Non-conductive, minimum electrical resistance greater than 1 megohm per inch of hose length at 1000 Volts DC.

**Packaging**  
90% one-piece reels up to 1" 3/16" - 3/4" - 500' reels, maximum 3 pieces, 50' increments  
1" - 450' reels, maximum 3 pieces, 50' increments  
1 1/4" - 250-400' reels, maximum 3 pieces, 50' increments  
1 1/2" - 150-300' reels, maximum 3 pieces, 50' increments  
2" - 200' carbon, maximum 3 pieces, 50' increments  
Coupled assemblies available. 1/4", 3/8", 1/2" and 3/4".

**Branding**  
Example: Gorilla® by Continental ContiTech 1" (25.4 mm) 500 psi Made In USA Flame Resistant USMSHA No. 25-IC1-4C/39

**Construction**  
> **Tube**  
Nitrile synthetic rubber, ARPM Class A (High Oil Resistance)  
> **Cover**  
Yellow Carbyrym® synthetic rubber, ARPM Class A (High Oil Resistance) MSHA approved  
> **Reinforcement**  
Spiral aramid yarn, 2" is braided synthetic yarn

**Temperature Range**  
-20°F to 210°F (-29°C to 99°C)

**Couplings**  
Refer to the ContiTech Industrial Hose Assembly Manual for crimp specifications.  
READY TO GO  
Coupled assemblies available.

**Order Codes**  
569-035  
536-486 (2")

**Gorilla®**

SAP #	ID	Nom. OD		Max. WP	Weight			
		in.	mm		lb./ft.	kg/m		
20026230	1/4	6.4	0.61	15.5	500	3.45	0.17	0.25
20026256	3/8	9.5	0.73	18.6	500	3.45	0.22	0.33
20026273	1/2	12.7	0.89	22.6	500	3.45	0.28	0.42
20026289	5/8	15.9	1.06	26.9	500	3.45	0.35	0.52
20026290	3/4	19.1	1.19	30.2	500	3.45	0.41	0.61
20026304	1	25.4	1.50	37.8	500	3.45	0.58	0.86
20026306	1 1/4	31.8	1.77	45.6	500	3.45	0.79	1.18
20026309	1 1/2	38.1	2.04	51.8	500	3.45	0.86	1.27
20023183	2	50.8	2.62	66.6	500	3.45	1.22	1.82

ContiTech

Easy to reference tabs

Detailed packaging information

Branding information


Coupling information

Full specification information including ID/OD, Working pressures, weight, vacuum, & bend radius

Air & Multipurpose General Purpose 30

## UNITRIX® 80

**NEW**



UNITRIX® 80 DN 13 PN 33 BAR / 479 PSI R x 10' L1 Made in Germany

**Product Specifications**

**Application**  
The multipurpose hose UNITRIX® 80 provides best results when used in the areas of mechanical engineering, farming, forestry, garages, quarries, construction sites as well as shipbuilding and the railway industry. It can be used with compressors, barrel pumps and aggregates. It can also be used in mineral oil, chemical and petrochemical industries. UNITRIX® 80 is the right hose for conveying benzene, mineral oil, kerosene, motor oil, compressed air, cold and hot water with or without detergent additives, vegetable oils, animal fats, diluted acids, technical alcohols, pesticides and salt solutions. Ideal for oil cooling lines. This hose is manufactured to European standards.

**Construction**

- > **Tube**  
Black, non-porous and smooth NBR (nitrile) tube, AIRM, Class A (High Oil Resistance)
- > **Cover**  
Black, smooth NBR (nitrile) cover, resistant to ozone, weather, UV, oil, grease and chemicals. \*T\* fabric: Impression, electrically conductive R > 10<sup>6</sup> Ω, ASPM Class A (High Oil Resistance)
- > **Reinforcement**  
Symmetric fibers

**Temperature Range**  
-40° F to 185° F (-40°C to 85°C)

**Branding**  
6 olive-colored axial markings on black cover. \*Continental ContiTech UNITRIX® 80 DN 13 PN 33 BAR / 479 PSI R x 10' L1 Q Made in Germany

**UNITRIX® 80**

SAP #	ID		Nom. OD		Max. WP		Bend Radius		Weight	
	in.	mm	in.	mm	psi	MPa	in.	mm	lb./ft.	kg/m
20836450	1/4	6.4	0.56	14	479	3.3	1	25	0.13	0.19
20836451	5/16	7.9	0.63	16	479	3.3	1.34	35	0.15	0.23
20836452	3/8	9.5	0.69	18	479	3.3	1.56	40	0.16	0.26
20836453	1/2	12.7	0.88	22	479	3.3	2.19	55	0.25	0.37
20836454	5/8	15.9	0.98	25	261	1.8	2.56	65	0.29	0.43
20836455	3/4	19.1	1.14	29	261	1.8	3.38	85	0.60	0.90
20836456	1	25.4	1.44	37	479	3.3	4.5	115	0.57	0.84
20836457	1 1/4	31.8	1.75	44	479	3.3	7.5	190	0.63	0.9
20836458	1 1/2	38.1	2.00	51	479	3.3	9.06	230	0.77	1.15
20836459	2	50.8	2.5	64	479	3.3	11.81	300	1.08	1.61
20836460	2 3/8	60.3	3.00	76	479	3.3	15.75	400	1.52	2.26

Hose design ratio (burst pressure) 2.5:1.

**Continental ContiTech**

NEW specs are indicated at the top of the spec page

**Food Transfer**

**Food Hose Recommendation guide - Specific Hose Application Capabilities**

Air & Multipurpose General Purpose Heavy Duty Push-on	Tube Compound	Chemical	Pursten	Pursten	Chlorobutyl	EPDM
	Tube Color	White	Blue	Blue	White	Clear
Food Transfer	White Flaming White Flakes	Flaming Tan	Blue Flour Discharges	Blue Flour Discharges	White Flour Discharges	Phosic FG, Nutrisol, Nutrisol, Nutrisol, etc.
	Gray Food, White Softwall	Gray Food, White Softwall	Tan Softwall	Harvest Colors		
	Multi-Purpose (L)					
Chemical Transfer	Food	Tra Multibond				
	(B)					
Cleaning Equipment	Brett Sugar, Granular	I	A	A	X	B
	Buttermilk, Liquid	X	A	A	X	B
Food Dry Transfer	Cane Sugar, Granular	I	A	A	X	B
	Corn Meal Oil	A	X	X	X	X
Liquid Transfer	Cashew Oil	A	X	X	X	X
	Cashew Oil	A	X	X	X	X
Washdown	Citric Acid	A	A	A	A	B
	Cocoa Butter	A	X	X	X	I
Marine	Cornmeal Oil	A	X	X	X	X
	Corn Oil	A	X	X	X	X
Material Handling	Coltswood Oil	A	X	X	X	X
	(F)					
Abrasive Bulk Transfer	Pink Moss	A	X	X	X	B
	Flour	I	A	A	X	B
Cement & Concrete	(G)					
	Orange Juice	A	X	X	A	B
Mining	(L)					
	Lactic Acid	A	B	B	B	X
Petroleum Aircraft Fueling	Lard Oil	A	X	X	X	X
	Limeoil Oil	A	X	X	X	X
Dispensing	Liquor (spirits)	B	X	X	X	B
	(M)					
Druck Rig Supply	Milk	A	X	X	A	B
	Mineral Oil	A	X	X	X	B
Transfer Discharge Transfer S&D	Mosses	A	A	A	A	A
	(O)					
Specialty	Orange Oil	A	X	X	X	X
	Orange Juice	A	X	X	A	A
Steam	(P)					
	Palm Oil	A	X	X	X	X
Vacuum	Peanut Oil	A	X	X	X	X
	Peanut Oil	A	X	X	X	X
Water Discharge Section & Discharge	Potato Flour	I	A	A	A	A
	(Q)					
Washdown	Salt, Granular, Table Grade	A	A	A	X	A
	Shredding	A	X	X	X	I
German	Soybean Oil	A	X	X	X	X
	Sucrose	A	A	A	A	A
Welding	Sugar, Granulated	I	A	A	A	A
	Sugar, Syrup	A	A	A	A	A
Coupling Systems	(R)					
	Tallow	A	X	X	X	X
Equipment	Tomato Juice, Paste & Puree Sauce	A	X	X	I	B
	(V)					
Appendix	Vegetable Oil	A	X	X	X	X
	Vinegar	A	X	X	A	A
Appendix	(W)					
	Water, Potable	A	X	X	A	A
	Whiskey	B	X	X	X	X
	Wine	A	X	X	A	I

Key: A - Excellent, B - Good, X - Not recommended, I - Insufficient information, Note: For temperatures in excess of 150°F (66°C), consult customer service.



**Recommended Cleaning**

**When Using ContiTech Hose for the Food and Beverage Industry**

**Cleaning before use**  
Customer hose may have a slight odor or smell which is technologically unavoidable and can be eliminated by proper cleaning.

**We therefore recommend the following cleaning procedure before first use:**  
 > Fill the hose with hot water.  
 > Store in the hose for at least 24 hours.  
 > Empty the hose.

**We then recommend use of the following cleaning procedure:**

Cleaning agents	Temperature and duration
Water	+ 90°C max. 20 minutes
Steam	2x + 130°C max. 20 minutes
Chemicals	Temperature and duration
Cautic Soda (NaOH)	2% at room temperature max. 30 minutes
Hydrogen Peroxide (H <sub>2</sub> O <sub>2</sub> )	0.15% at room temperature max. 30 minutes
Nitric Acid (HNO <sub>3</sub> )	0.15% at room temperature max. 30 minutes

**In all cases, the hose must be rinsed with tap water!**

If the hose still unexpectedly gives off an odor, several cleaning processes should be conducted consecutively.

**Standard cleaning**  
After use or at regular intervals, the hose must be treated with an ordinary cleaning and sanitizing agent. For detailed information and to choose a suitable cleaning and sanitizing agent, please refer to our complete resistance list.

Please observe our recommendations on storing and maintaining hose.

**Special features of extended disinfection cycles**  
In the case of extended disinfection cycles - such as those at the weavers or on public holidays - notwithstanding the concentration specifications of the disinfection manufacturer, the concentrations are to be reduced by at least 50%.

**FOOD CHART  
PG. 108  
RECOMMENDED CLEANING  
PG. 109**



Air & Multipurpose  
General Purpose  
Heavy Duty  
Push-on

Chemical Transfer  
Cleaning Equipment

Food Dry Transfer  
Liquid Transfer  
Washdown

Marine

Material Handling  
Abrasive Bulk Transfer  
Cement & Concrete

Mining

Petroleum Aircraft Fueling  
Dispensing  
Druck Rig Supply

Transfer Discharge Transfer S&D

Specialty

Steam

Vacuum

Water Discharge Section & Discharge Washdown German

Welding

Coupling Systems

Equipment

Appendix



## Dispensing



		UL and/or	Gasoline	Diesel	B5	B20	B100	E10	E25	E85	Blue DEF	WVE	Textile
	Page	CUL Certified											
<b>Air &amp; Multipurpose</b>													
General Purpose			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Heavy Duty			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Push-on			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Chemical Transfer</b>													
Chemical Transfer													
<b>Cleaning Equipment</b>													
Cleaning Equipment													
<b>Food</b>													
Dry Transfer													
Liquid Transfer													
Washdown													
<b>Mining</b>													
DEF Dispensing	200										Yes	Yes	Yes
<b>Petroleum</b>													
Accret Fueling													
Dispensing													
Flexsteel ECO-Green	194	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flexsteel Futura	185	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flexsteel Futura B20	193	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flexsteel Futura E25	192	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flexsteel Futura E85	191	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flexsteel Futura HVR Low Perm	187	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flexsteel Futura Low Perm	186	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flexsteel Futura Vapor Assist	188	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Water Discharge</b>													
Maxxim Premier	189	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Section &amp; Discharge Washdown</b>													
Maxxim Premier Plus	190	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Garden</b>													
Pacer	199	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Welding</b>													
Welding													
<b>Coupling Systems</b>													
Coupling Systems													
<b>Equipment</b>													
Equipment													
<b>Appendix</b>													
Appendix													

Pg. 184  
Dispensing Hoses:  
 New columns for ethanol and biodiesel blend compatibility

Pg. 251  
 Updated Alternative Fuel Compatibility Chart

# ContiTech

## Alternative Fuel Compatibility For Tubes and Covers Of ContiTech Fuel Transfer Hoses

### Compatibility by Product

All ContiTech Fuel Transfer Hoses are compatible with gasoline and diesel

Product	Product Code	Aromatic Content	Hose Tube & Cover Compatibility										
			E-100 100% Ethanol	E-80 80% Ethanol	E-15 15% Ethanol	B-100 100% Biodiesel	B-90 90% Biodiesel	B-20 20% Biodiesel	E-85 85% Biodiesel				
Flexsteel			Tube & Cover	Tube & Cover	Tube & Cover	Tube & Cover	Tube & Cover	Tube & Cover	Tube & Cover	Tube & Cover	Tube & Cover	Tube & Cover	Tube & Cover
Flexsteel Eco-Green	194	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flexsteel Futura	185	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flexsteel Futura B20	193	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flexsteel Futura E25	192	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flexsteel Futura E85	191	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flexsteel Futura HVR Low Perm	187	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flexsteel Futura Low Perm	186	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flexsteel Futura Vapor Assist	188	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Maxxim Premier	189	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Maxxim Premier Plus	190	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Pacer	199	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

## Selecting the Proper Hose Assembly

In order to obtain the best service from any particular hose application, two important conditions must be fulfilled:

- 1) Select the right hose for the job.
- 2) Make sure that it is fitted correctly and used in the proper manner.

Carefully consider the application requirements. A helpful guide is the S.T.A.M.P.E.D. process. S.T.A.M.P.E.D. is an acronym and stands for the seven major information areas required to provide a quality hose assembly.

- S** SIZE - ID, OD and length of the assembly
- T** TEMPERATURE - includes the temperature of fluid conveyed and the climatic conditions
- A** APPLICATION - the conditions of use, including abrasion, flexing and routing
- M** MATERIAL - the type of material conveyed, including its composition and concentration
- P** PRESSURE - hose assembly working pressure and surge or back pressure
- E** ENDS - definition of the fitting, including material and thread type
- D** DELIVERY - time allowed for delivery, including testing, quality assurance and packaging

To assist in obtaining and conveying information regarding the application, a copy of the S.T.A.M.P.E.D. application form is included in this catalog. This inquiry sheet can be sent to any ContiTech authorized distributor for a hose recommendation.

### Note:

A hose should always be selected based on its **rated working pressure**. Do not use **minimum burst pressure** as a guideline in selecting the hose. Minimum burst pressure decreases over the use and life of the hose. A hose should be selected based on its rated working pressure to provide a normal service life. In addition, always select a hose by giving consideration to its recommended temperature limits. Hose service life is reduced if the temperatures of the fluids being conveyed or ambient temperatures exceed the recommended limits.

Air & Multipurpose General Purpose Heavy Duty Push-on
Chemical Transfer
Cleaning Equipment
Food Dry Transfer Liquid Transfer Washdown
Marine
Material Handling Abrasives Bulk Transfer Cement & Concrete
Mining
Petroleum Aircraft Fueling Dispensing Dock Rig Supply Transfer/Discharge Transfer S&D
Specialty
Steam
Vacuum
Water Discharge Suction & Discharge Washdown Garden
Welding
<b>Coupling Systems</b>
Equipment
Appendix

## S.T.A.M.P.E.D. Form

<b>Air &amp; Multipurpose</b>	<b>Size</b>	<b>Pressure(s)</b>	
General Purpose	ID	Working Pressure (including surges)	
Heavy Duty	OD	Burst Pressure	
Push-on	Hose Length (GAL or uncpid sqth)	Suction or Vacuum Requirements	
<b>Chemical Transfer</b>	Tolerances	Velocity	
<b>Cleaning Equipment</b>	<b>Temperature</b>	Impulse	
Food	of Material Being Conveyed (high, low, ambient)	<b>Ends &amp; Fittings</b>	
Dry Transfer	of Outside Exposure (high, low, ambient)	Type of Threads	
Liquid Transfer	Intermittent?	Male/Female	
Washdown	Constant?	Reusable/Nonreusable	
<b>Marine</b>	Sub-zero Exposure	Material for Fittings	
<b>Material Handling</b>	<b>Application(s)</b>	Built-in Fittings/Ends	
Abrasives	Indoor and/or Outdoor Use	Beaded	
Bulk Transfer	Intermittent or Continuous Use	Flanged	
Cement & Concrete	Flexibility Required (min. bend radius)	Rubber-lined	
<b>Mining</b>	Movement (static, vibrations, flexing)	Other	
<b>Petroleum</b>	<b>External Conditions</b>	Cut to Length	
Aircraft Fueling	Abrasion	Crimp Specs or Crimper Used	
Dispensing	Oil	<b>Delivery</b>	
Dock	Solvents	Lead Time	
Rig Supply	Acid	Quantity	
Transfer/Discharge	Ozone	Stock/Non-stock	
Transfer S&D	Electrical/Static Conductive	Special Print	
<b>Specialty</b>	Oil Resistance:	Special Packaging	
Steam	Tube	<b>Other Information</b>	
Vacuum	Cover	Customer	Date
<b>Water</b>	Flame Resistance	Customer No.	
Discharge	Noncontaminating Materials	Ship To	
Suction & Discharge	Hose Currently in Use	Bill To	
Washdown	Current Hose Service Life/Failure Description	Telephone	Fax
Garden	Service Life Desired	Boiled Drock areas MUST be filled out on all inquiries.	
<b>Welding</b>	<b>Material(s) Being Conveyed</b>		
<b>Coupling Systems</b>	Solids (size, description)		
<b>Equipment</b>	Gaseous (viscosity, inert)		
<b>Appendix</b>	Liquids (flammability, causticity, acid, alkaline, solution/concentration)		
	Chemical Names (generic)		

# ContiTech

STAMPED:  
Selecting the Proper  
Hose Assembly  
PGs. 317 & 318

## Additional Products

### Additional Non-Stock Specifications

Order Code	Hose Description	Application
<b>Air &amp; Multipurpose</b>		
549-153	Ortac II	200 psi air hose, Class A nitrile static dissipating tube, Red Class B cover
549-007	Picord Air Yellow	300 psi air hose, Class C non-conductive tube, Yellow Class C cover
549-260	Picord Rock Drill	400-500 psi air hose, Class C tube, Blue with Yellow stripe Class C cover
549-613	Air Super 1/C	400 psi Class C tube and cover, similar to 549-006 Picord Air Green 400 but the Yellow Cover is twice the thickness
<b>Chemical</b>		
546-014	Brown Chem-Acid Discharge	Chemim tube, versatile chemical discharge hose capable of handling a wide variety of industrial chemicals
546-011	Gray Chem-Acid Discharge	Weatherex tube, versatile chemical discharge hose capable of handling a wide variety of industrial chemicals
546-067	Gray Flexwing	Weatherex tube, versatile chemical transfer hose capable of handling a wide variety of industrial chemicals
546-064	Yellow Flexwing	Chlorosulfonated Polyethylene tube, versatile chemical transfer hose capable of handling a wide variety of industrial chemicals
546-010	Yellow Chem-Acid Discharge	Chlorosulfonated Polyethylene tube, versatile chemical discharge hose capable of handling a wide variety of industrial chemicals
<b>Food</b>		
549-147	White Fleeta	Lightweight, flexible hose for transferring oily and non-oily edibles under pressure on tank trucks or instant service
549-150	White Softwall	Discharge transfer of dry or liquid foods having either oily or non-oily bases
539-404	SaniWash Plus 1000	Food washdown applications
539-413	SaniWash Plus 3000	Food washdown applications
<b>Marine</b>		
586-454	Spraflex Marine Bilge	PVC hose for drain, vent and scupper lines
586-447	Spraflex Marine LiveWell	PVC hose for head intake, discharge and pump out service
586-439	Spraflex Marine Sanitation FDA	PVC hose for potable water transfer
586-461	Spraflex Marine Vacuum	PVC hose for bilge pumps or holding tank pump out service
586-444	Spraflex Marine Vacuum FDA	PVC hose for potable water transfer
<b>Material Handling</b>		
Out Serv	Concrete Vibrator Hose	Reinforced rubber sleeve for concrete vibrator
541-262	Clam Jetting	Softwall hose for underwater jetting and collection of clams
549-859	Blast Hose Slurry/Ceawatering	Hardwall hose for filling blast hole with explosive
541-614	Picord Hydrovator Red 560	Conjugate BFR cover and red natural rubber tube provide good flexibility, durability and outstanding abrasion and tear resistance
549-337	Liquid Mud Hose	Transfer of drilling mud
549-706	Refractory Hose, 2 Piles	Refractory hose with static dissipating tube
549-663	Guntle, 4 Piles	Sand and cement grouting application with static dissipation tube
586-479	Mulchblower	PVC hose for transfer of mulch products
586-477	Bankblower	PVC heavy-duty hose for transfer of wood chips
<b>Mining</b>		
549-229	Picord Cable Cover Hose	Non-conductive hose for cooling/protection of electrical cables

- Air & Multipurpose
- General Purpose
- Heavy Duty
- Push-on
- Chemical Transfer
- Cleaning Equipment
- Food
- Dry Transfer
- Liquid Transfer
- Washdown
- Marine
- Material Handling
- Abrasives
- Bulk Transfer
- Cement & Concrete
- Mining
- Petroleum
- Accret Fueling
- Dispensing
- Dock
- Rig Supply
- Transfer Discharge
- Transfer S&D
- Specialty
- Shawn
- Vacuum
- Water
- Discharge
- Suction & Discharge
- Washdown
- Garden
- Welding
- Coupling Systems
- Equipment
- Appendix



**Non-Stock Items**  
**PG 347-349**



## General Information

### Standards Certifications

Air & Multipurpose  
General Purpose  
Heavy Duty  
Push-on



Compliant with standards and accepted practices designed by industry experts for the sanitary design, fabrication, installation and cleanability of dairy and food equipment or systems used to handle, process and package consumable products where a high degree of sanitation is required to prevent contamination.

Food  
Dry Transfer  
Liquid Transfer  
Washdown



A classification society with a mission to promote the security of life, property and the natural environment, primarily through the development and verification of standards for the design, construction and operational maintenance of marine-related facilities.

Marine  
Material Handling  
Abratives  
Bulk Transfer  
Cement & Concrete



Non-profit organization that oversees the development of voluntary consensus standards for products, services, processes, systems and personnel in the U.S. They also coordinate U.S. standards with international standards so that American products can be used worldwide. ANSI accredits standards that are developed by representatives of other standards organizations, government agencies, consumer groups, companies and others. These standards ensure that the characteristics and performance of products are consistent, that people use the same definitions and terms, and that products are tested the same way.

Mining



The largest U.S. trade association for the oil and natural gas industry. Functions on behalf of the industry in the establishment and certification of industry standards.

Petroleum  
Aircraft Fueling  
Clipping  
Dock  
Rig Supply  
Transfer Discharge  
Transfer ISO



Its core mission has been designed to provide waste reduction, benchmarking, networking, international management of product standards and educational opportunities to its member executives.

Specialty



ASME is one of the oldest standards-developing organizations in America. It produces approximately 600 codes and standards covering many technical areas, such as fasteners, plumbing fixtures, elevators, pipelines and power plant systems and components. ASME standards are developed by committees of subject matter experts using an open, consensus-based process. Many ASME standards are cited by government agencies as tools to meet their regulatory objectives. ASME standards are therefore voluntary unless the standards have been incorporated into a legally binding business contract or incorporated into regulations enforced by an authority having jurisdiction, such as a federal, state or local government agency. ASME's standards are used in more than 100 countries.

Water  
Discharge  
Suction & Discharge  
Washdown  
Garden



An international standards organization that develops and publishes voluntary consensus technical standards for a wide range of materials, products, systems and services. Some 12,575 ASTM voluntary consensus standards operate globally.

Welding



Coupling Systems

Equipment

Appendix



The German Federal Institute for Risk Assessment approved list of natural and synthetic rubbers and their requirements to be used in food commodities.

**NEW ADDITION**  
Standard Certifications – logos  
and descriptions of the various  
industry relevant organizations  
PGs 384 – 387

## General Information

Air & Multipurpose General Purpose Heavy Duty Push-in	<b>Hose Testing Methods</b> Reprinted from ARPM hose handbook IP-2-2015
Chemical Transfer	<b>Safety Warning</b> Testing can be dangerous and should be done only by trained personnel using proper tools and procedures. Failure to follow such procedures might result in damage to property and/or serious bodily injury.
Cleaning Equipment	The Association for Rubber Products Manufacturers (ARPM) recognizes, accepts and recommends the testing methods of the American Society for Testing and Materials (ASTM).
Food Dry Transfer Liquid Transfer Washdown	The Association for Rubber Products Manufacturers (ARPM) recognizes, accepts and recommends the testing methods of the American Society for Testing and Materials (ASTM).
Marine	Unless otherwise specified, all hose tests are to be conducted in accordance with ASTM Method No. D-380 (latest revision). Where an ASTM D-380 test is not available, another test method should be selected and described in detail.
Material Handling Abrasive Bulk Transfer Cement & Concrete	ARPM participates with ASTM under the auspices of the American National Standards Institute (ANSI) Technical Committee 45 (TC45) of The International Organization for Standardization (ISO) in developing both hose product and hose test method standards. Many of the hose test method standards published by ISO duplicate or closely parallel those shown in ASTM D-380. Many are unique and, in those cases, the ARPM may be able to provide the necessary test standard references which may be purchased from the ANSI.
Mining	
Petroleum Aircraft Fueling Dispensing Dock Rig Supply Transfer Discharge Transfer/SSD	<b>Hydrostatic Pressure Tests</b> <b>Hydrostatic pressure tests are classified as follows:</b> <b>1. Destructive Type</b> a. Burst test      b. Hold test <b>Destructive Tests</b> Destructive tests are conducted on short specimens of hose, normally 18 inches (460 mm) to 36 inches (915 mm) in length and, as the name implies, the hose is destroyed in the performance of the test. a. Burst pressure is recorded as the pressure at which actual rupture of a hose occurs. b. A hold test, when required, is a means of determining whether weakness will develop under a given pressure for a specified period of time.
Specialty	
Steam	
Vacuum	
Water Discharge Suction & Discharge Washdown Garden	<b>2. Non-Destructive Type</b> a. Proof pressure test      c. Change in outside diameter or circumference test      e. Rise test      h. Volumetric expansion test b. Change in length test (elongation or contraction)      d. Warp test      f. Twist test      g. Kink test
Welding	
Coupling Systems	
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Appendix	

## General Information

### Flow Data (continued)

Water Flow Pressure Loss (psi per 100 feet of hose)

Flow of Water in U.S. gal. per min.	Flow of Water in cu. ft. per sec.	Actual Internal Diameter (in.)																		
		1/2	5/8	3/4	1	1 1/4	1 1/2	2	2 1/2	3										
0.5	0.01	0.4																		
1.5	0.03	1.02	1.01	0.42																
2.5	0.05	1.75	2.58	1.08																
5	0.11	27.6	9.27	3.86	0.95	0.32	0.13													
10	0.22	89.5	33.2	13.8	3.38	1.14	0.47	0.13												
15	0.33		71.0	28.6	7.25	2.45	1.01	0.25	0.08											
20	0.44		121.0	50.3	12.4	4.15	1.71	0.42	0.14											
25	0.55			78.5	18.7	6.34	2.60	0.64	0.22											
30	0.66			108.0	26.5	8.88	3.68	0.90	0.30	0.13										
35	0.77			142.0	34.8	11.8	4.83	1.18	0.40	0.17										
40	0.88			44.7	15.1	6.20	1.52	0.51	0.21											
45	0.99			55.0	18.6	7.65	1.87	0.63	0.26											
50	1.10			67.5	22.8	9.35	2.28	0.78	0.32											
60	1.32			84.3	21.8	13.1	3.19	1.08	0.45											
70	1.54			126.0	42.5	17.5	4.25	1.44	0.60											
80	1.76				54.6	22.5	5.48	1.86	0.77											
90	1.98				67.5	27.8	6.80	2.30	0.95											
100	2.23				81.5	33.5	8.19	2.78	1.15											
125	2.78				124.0	50.6	12.4	4.20	1.73											
150	3.34					72.1	17.6	6.97	2.46											
175	3.90				94.5	23.1	18.3	3.23												
200	4.46					122.0	29.6	10.1	4.15											
225	5.01					36.8	12.5	5.15												
250	5.57					44.6	15.2	6.28												
275	6.13					53.3	18.1	7.45												
300	6.68					62.5	21.2	8.75												
325	7.24					72.5	24.6	10.2												
350	7.80					83.2	28.2	11.7												
375	8.35					94.5	32.1	13.3												
							36.2	14.9												
							44.9	18.6												
							54.5	22.5												
							64.5	26.5												
							76.5	31.6												
							102.0	42.1												
							131.0	53.9												
							166.8	66.8												
							211.0	81.4												
							270.0	97.0												
							344.0	114.0												
							432.0	132.0												

Charts that refer to  
 "Hose Test Methods"  
 PG 388  
 "Flow Chart"  
 PG 400-404

Pressure loss experienced by a liquid flowing through a hose depends on the rate of flow, the viscosity of the liquid, the hose ID, the smoothness of the tube and the hose length. This chart shows the relationship between rate of flow, ID and pressure loss for water at 68°F (20°C) with a viscosity of one centipoise. The pressure is directly proportional to the length of the hose, therefore, the data shown can be easily extended by use of proportions (e.g. the pressure drop for 50 feet of hose length is half that for 100 feet).

Air & Multipurpose General Purpose Heavy Duty Push-in
Chemical Transfer
Cleaning Equipment
Food Dry Transfer Liquid Transfer Washdown
Marine
Material Handling Abrasive Bulk Transfer Cement & Concrete
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## General Information

### Elastomers Used In the Manufacture of "Rubber Type" Products

	ContiTech Tradename	Industry Designation	Outstanding Feature	Sample Hose
Air & Multipurpose General Purpose Heavy Duty Push-on	Alphasyn	Modified Cross-Link Polyethylene (Mod XLPE)	Excellent high-temperature chemical resistance.	Tube compound in Viper chemical transfer hose.
Chemical Transfer	Carbryn	Carboxylated Nitrile	Excellent oil and abrasion resistance, good chemical resistance.	Cover compound on multipurpose hose: Gorilla and Ortac. On pressure washer hose: Galvanator and Gauntlet.
Cleaning Equipment	Nitrile	Nitrile or Buna-N	Oil, solvent and aromatics resistance.	Tube and cover compound in premium air and multipurpose hose, petroleum transfer hose: Gorilla, Ortac, Flexwing Petroleum.
Food Dry Transfer	Chemivic	Nitrile	Oil- and abrasion-resistant compound. Excellent ozone resistance.	Cover compound air/imp hose. Tube compound in food hose: White Flexwing.
Liquid Transfer Washdown	Chemrin	Chlorinated Polyethylene (CPE)	Excellent chemical resistance.	Tube compound in chemical hose: Brown Flexwing.
Marine	Chlorobutyl	Chlorobutyl	FDA compliant material in food hose. Excellent heat resistance.	Tube compound in food hose and Flexsteel 250 CB Steam Hose.
Material Handling Abrasives Bulk Transfer Cement & Concrete	Flosyn	Viton	Excellent oil and chemical resistance.	Tube compound in Orange Flexwing chemical hose.
Mining	Chlorosulfonated Polyethylene	Chlorosulfonated Polyethylene	Chemical and oil-resistant.	Tube compound in chemical transfer hose: Yellow Flexwing.
Petroleum Aircraft Fueling Dispensing Deck Rig Supply Transfer Discharge Transfer S&D	Nylon	Nylon	Resistant to many paint sprays, lacquers, thinners, and mild chemicals.	Tube compound in NR Paint Spray.
Specialty	Omegasyn	EPDM (abrasion-resistant)	Excellent abrasion resistance. Mild chemical resistance.	Cover compound: Viper.
Steam	SBR	SBR	Good abrasion resistance.	Tube and cover compound in water suction and discharge hose: Pilcord Water S&D.
Vacuum	Pyrosyn	EPDM	Heat-resistant.	Tube compound in Flexsteel 250 Steam and Whitewater, Cover on Flexsteel 250 Steam and Flexsteel 250 CB Steam.

Lists the ContiTech Trade name of Compound PG

Industry Designation

Outstanding feature of compound

Indicates an example of hose

Pg 394,  
395

Minimum Production Runs on  
Private Brand and Made To  
Order  
PG 408

Air & Multipurpose
General Purpose
Heavy Duty
Push-on
Chemical Transfer
Clearing Equipment
Food
Dry Transfer
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Material Handling
Abrasives
Bulk Transfer
Cement & Concrete
Mining
Petroleum
Aircraft Fueling
Dispensing
Dock
Rig Supply
Transfer/Discharge
Transfer S&D
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## General Information

### Made to Order Production Run Minimum Requirements Key

Order Code Prefix	Manufacturing Facility	Size (ID)	Construction	Minimum Production Run
932	Norfolk	5/8"-2"	Textile Reinforcement	2,500 feet
		5/8"-3"	Wire Reinforcement	5,000 feet
935	Norfolk	3/16"-1/4"	Textile Reinforcement	5,000 feet
		3/8"-1"		2,500 feet
		1/4"-2"		2,000 feet
936	Norfolk	3/16"-1/4"	Textile Reinforcement	5,000 feet
		3/8"-1/4"		2,500 feet
		1/4"-2"		2,000 feet
937	Cosmotex	1/4"-1/2"		4,500 feet
		2"		4,500 feet
		2 1/2"-3"		4,500 feet
		4"		3,300 feet
		6"		3,300 feet
939	Norfolk	3/16"-1/4"	Wire Reinforcement	5,000 feet
		3/8"-2"		2,500 feet
940	Cosmotex	1/4"-3/8"		15,000 feet
		1/2"-1"		5,000 feet
941	Granford	1"-12"	Hand-Built	Built to length, Max. 100'
		12"-18"	Hand-Built	Built to length, Max. 50'
942	Granford	1/2"-2 1/4"	Ply or Ply with Helic Wire	400 feet increments <sup>1</sup>
943	Granford	1/2"-2 1/4"	Ply or Ply with Helic Wire	400 feet increments <sup>1</sup>
946	Granford	1/2"-2 1/4"	Ply or Ply with Helic Wire	400 feet increments <sup>1</sup>
949	Granford	1/2"-2 1/4"	Ply or Ply with Helic Wire	400 feet increments <sup>1</sup>
969*	Mt. Pleasant	3/16"-1/2"		5,000 feet
966	Cosmotex	3/4"-1"		2,000 feet
		1 1/4"-2"		2,000 feet
		2 1/2"-3"		1,000 feet
		4"		700 feet
		5"		500 feet
		6"		500 feet
		7"		200 feet
		8"-10"		200 feet
995*	Mt. Pleasant	3/16"-1/2"		5,000 feet
		5/8"-1"		5,000 feet
		1 1/4"-2"		5,000 feet
998*	Mt. Pleasant	3/16"-1/2"		5,000 feet
		5/8"-1"		5,000 feet
		1 1/4"-2"		5,000 feet

Note: Certain special manufacturing items may require longer minimum runs.  
 Sample: Contact customer service for sample availability.  
<sup>1</sup>Minimum production runs are in gallons only; they are subject to change without notification.  
<sup>2</sup>Granford hoses with ply/helic wire construction in 6" ID and above require a 300' increment production run.

# Order your new catalogs

- › The 2018 Industrial Hose Catalogs will be available in hardcopy at GBS mid-October
- › Any existing backorders will be filled by GBS with the new 2018 catalog
- › To download a PDF for your reference, [click here](#)
- › A PDF is also available on SalesForce.Com and EPIX

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