

A Complete Line of Thermoplastic Hydraulic Hose and Fittings

EDITION 0311

PIRANHAFLEX™



**WATCH FOR MORE NEW
PIRANHAFLEX™ PRODUCTS
COMING SOON!**



Kuriyama of America, Inc.

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Piranhaflex™ 100R7

Series PF354/PF354NC



Construction:

Piranhaflex™ Series PF354 & PF354NC consist of three individual components bonded to ensure maximum performance.

Tube — Seamless **nylon** inner tube.

Reinforcement — Braided high tensile strength fiber reinforcement.

Cover — Series PF354 has a **black** abrasion resistant polyurethane pin pricked cover; **Series PF354NC has an Orange non-conductive, non-pin pricked cover.**

Features:

- Meets or exceeds SAE J517 Standards
- Exceeds 100R7 impulse requirements
- Light weight and flexible
- Ideal for general hydraulic services

Applications:

Piranhaflex™ Series PF354 and PF354NC (for non-conductive applications) are ideal for medium pressure hydraulic hose applications for hydraulic oil and lubrication lines.

(-02 and -16 MTO are available upon request)

(For Twin Line please refer to page 6 for available stock sizes)

Packaging:

- Hoses supplied in 250 ft. reels & 50 ft. box lengths.

Temperature Range: -40° F (-40° C) to +200° F (+93° C) for petroleum based hydraulic fluids.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs/100ft)	Coupling Recommendations	
		(In)	(mm)	(In)	(mm)		(In)	(mm)		AlfaCrimp (One Piece)	Ferrules (Two Piece)
PF354/PF354NC	03	3/16	4.8	0.415	10.5	3,000	0.75	19	5	N/A	PFR-03
PF354/PF354NC	04	1/4	6.4	0.496	12.6	2,750	1.50	38	6	N/A	PFR-04
PF354/PF354NC	05	5/16	8.1	0.580	14.7	2,500	1.75	44	8	N/A	PFR7-05
PF354/PF354NC	06	3/8	9.7	0.650	16.5	2,250	2.00	50	11	N/A	PFR-06
PF354/PF354NC	08	1/2	13.1	0.834	21.2	2,000	3.00	75	16	N/A	PFR-08
PF354/PF354NC	12	3/4	19.1	1.050	26.7	1,250	6.00	150	22	N/A	PFR-12

† Minimum burst pressure 4-to-1 safety factor.

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

Piranhaflex™ PLUS 100R7

**NEW
PRODUCT**

Series PFP354

Abrasion Resistant / Special Low Friction Polyurethane Cover



Construction:

Piranhaflex™ **PLUS** Series PFP354 consists of three individual components bonded to ensure maximum performance.

Tube – Seamless nylon inner tube.

Reinforcement – Braided high tensile strength fiber reinforcement.

Cover – Series PFP354 has a black abrasion resistant / special low friction polyurethane pin pricked cover.

Features:

- Meets or exceeds SAE J517 Standards
- Exceeds 100R7 impulse requirements
- Light weight and flexible
- Special low friction cover eliminates hose routing problems between hose sheaves and pulleys with Fork Truck applications.

Applications:

Piranhaflex™ **PLUS** Series PFP354 is the ideal hose for medium pressure hydraulic lines commonly used on Fork Trucks. The “**PLUS**” refers to the specially engineered low friction cover compound which helps in eliminating hose routing problems between hose sheaves and pulleys. Use of Piranhaflex™ **PLUS** helps in extending hose service life with less frequent replacement and allows for increased flexibility and easier routing when hoses are bundled.

(-12 and -16 MTO are available upon request)

Packaging:

- Hoses supplied in 250 ft. reels.

Temperature Range: -40° F (-40° C) to +200° F (+93° C) for petroleum based hydraulic fluids.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working† Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs/100ft)	Coupling Recommendations	
		(In)	(mm)	(In)	(mm)		(In)	(mm)		AlfaCrimp (One Piece)	Ferrules (Two Piece)
PFP354	04	1/4	6.4	0.496	12.6	2,750	1.50	38	6	N/A	PFR-04
PFP354	06	3/8	9.7	0.650	16.5	2,250	2.00	50	11	N/A	PFR-06
PFP354	08	1/2	13.1	0.834	21.2	2,000	3.00	75	16	N/A	PFR-08

† Minimum burst pressure 4-to-1 safety factor.

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Piranhaflex™ 100R7

Series PF367/PF367NC



Construction:

Piranhaflex™ Series PF367 & PF367NC consist of three individual components bonded to ensure maximum performance.

Tube — Seamless **polyester** inner tube.

Reinforcement — Braided high tensile strength fiber reinforcement.

Cover — Series PF367 has a **black** abrasion resistant polyurethane pin picked cover; **Series PF367NC has an Orange non-conductive, non-pin pricked cover.**

Features:

- Meets or exceeds SAE J517 Standards
- Exceeds 100R7 impulse requirements
- Light weight and flexible
- Ideal for general hydraulic services

Temperature Range: -40° F (-40° C) to +200° F (+93° C) for petroleum based hydraulic fluids.
-40° F (-40° C) to +140° F (+60° C) for water-based and phosphate-ester based fluids.

Applications:

Piranhaflex™ Series PF367 and PF367NC (for non-conductive applications) are ideal for medium pressure hydraulic hose applications for hydraulic oil and lubrication lines.

(-02 and -16 MTO are available upon request)
(Twin/Multi Line MTO are available upon request)

Packaging:

- Hoses supplied in 250 ft. reels & 50 ft. box lengths.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs/100ft)	Coupling Recommendations	
		(In)	(mm)	(In)	(mm)		(In)	(mm)		AlfaCrimp (One Piece)	Ferrules (Two Piece)
PF367/PF367NC	03	3/16	4.8	0.415	10.5	3,000	0.75	19	5	N/A	PFR-03
PF367/PF367NC	04	1/4	6.4	0.496	12.6	2,750	1.50	38	6	N/A	PFR-04
PF367/PF367NC	05	5/16	8.1	0.580	14.7	2,500	1.75	44	8	N/A	PFR7-05
PF367/PF367NC	06	3/8	9.7	0.650	16.5	2,250	2.00	50	11	N/A	PFR-06
PF367/PF367NC	08	1/2	13.1	0.834	21.2	2,000	3.00	75	16	N/A	PFR-08
PF367/PF367NC	12	3/4	19.1	1.050	26.7	1,250	6.00	150	22	N/A	PFR-12

† Minimum burst pressure 4-to-1 safety factor.

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Series PF628/PF628NC



Construction:

Piranhaflex™ Series PF628 & PF628NC consist of three individual components chemically bonded to ensure maximum performance.

Tube — Extruded seamless **polyester** inner tube.

Reinforcement — Aramid fiber reinforcement.

Cover — Series PF628 has a **black** highly abrasion resistant polyurethane pin pricked cover; **Series PF628NC has an Orange non-conductive, non-pin pricked cover.**

Features:

- Extremely durable
- Good kink resistance
- Lightweight-less than about half that of comparable rubber/wire hose.
- Meets or exceeds SAE 100R8 impulse requirements at half of SAE recommended bend radius standards
- Will not swell or degrade in contact with most hydraulic fluids or oils

- Highly abrasion resistant
- Inner tube will not chip or peel in service, eliminating the possibility of system contamination.
- Linear change +/-3% under typical operating pressure.

Applications:

Piranhaflex™ Series PF628 is ideal for general purpose high pressure hydraulic applications with working pressures of 2,250 to 5,000 psi (depending on size). This hose is commonly used in industrial hydraulic construction, material handling, and agricultural equipment. Piranhaflex™ Series 628NC has an orange, non pin-pricked cover ideal for use in applications where a non-conductive high pressure hydraulic hose is required. Typical applications include: hydraulic tools, lubrication lines and man lifts.

(-03 MTO is available upon request)

(For Twin Line please refer to page 6 for available stock sizes)

Packaging:

- Hoses supplied in 250 ft. reels & 50 ft. box lengths.

Temperature Range: -40° F (-40° C) to +200° F (+93° C) for petroleum based hydraulic fluids.
-40° F (-40° C) to +140° F (+60° C) for water-based and phosphate-ester based fluids.

Nominal Specifications

Series Number	Size Code	Nominal ID		Nominal OD		Max. Working† Pressure (psi)	Min. Bend. Radius		Approx. Weight (lbs/100ft)	Coupling Recommendations	
		(In)	(mm)	(In)	(mm)		(In)	(mm)		AlfaCrimp (One Piece)	Ferrules (Two Piece)
PF628/PF628NC	04	1/4	6.5	0.485	12.3	5,000	2.00	50	7	N/A	PFR-04
PF628/PF628NC	06	3/8	9.7	0.630	16.0	4,000	2.50	64	10	N/A	PFR-06
PF628/PF628NC	08	1/2	12.9	0.820	20.8	3,500	3.50	88.9	17	N/A	PFR-08
PF628/PF628NC	12	3/4	19.1	1.050	26.7	2,250	4.50	114.3	20	N/A	PFR-12

† Minimum burst pressure 4-to-1 safety factor.

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Twin Line



Thermoplastic Hydraulic

PIRANHAFLEX™



Series PF354TL & PF354NCTL Twin Line Versions:

PIRANHAFLEX™ Series PF354TL Nylon Tube/ Black Cover 100R7 Twin Line Hoses

Part Number	Packaging	Approx. Wt. lbs./ft.
PF354TL-04-250R	250' Reel	0.100
PF354TL-06-250R	250' Reel	0.130
PF354TL-08-200R	200' Reel	1.160

PIRANHAFLEX™ Series PF354NCTL Nylon Tube/Orange Cover Non-Conductive 100R7 Twin Line Hoses

Part Number	Packaging	Approx. Wt. lbs./ft.
PF354NCTL-04-250R	250' Reel	0.100
PF354NCTL-06-250R	250' Reel	0.130
PF354NCTL-08-200R	200' Reel	1.160

Series PF628TL & PF628NCTL Twin Line Versions:

PIRANHAFLEX™ Series PF628TL Polyester Tube/Black Cover 100R8 Twin Line Hoses

Part Number	Packaging	Approx. Wt. lbs./ft.
PF628TL-04-250R	250' Reel	0.140
PF628TL-06-250R	250' Reel	0.200
PF628TL-08-200R	200' Reel	0.340

PIRANHAFLEX™ Series PF628NCTL Polyester Tube/Orange Cover Non-Conductive 100R8 Twin Line Hoses

Part Number	Packaging	Approx. Wt. lbs./ft.
PF628NCTL-04-250R	250' Reel	0.140
PF628NCTL-06-250R	250' Reel	0.200
PF628NCTL-08-200R	200' Reel	0.340

Other Twin and Multi Line hoses are available on request and are made to order.
For more information contact Kuriyama of America, Inc.

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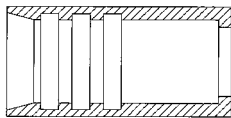
PIRANHAFLEX™

Kuriyama stocks a variety of fittings designed for use with our new Piranhaflex™ SAE 100R7 & SAE 100R8 hoses. For more information contact your nearest Kuriyama warehouse location.

Please refer to our latest KHHCA Hydraulic Hose, Fitting and Accessories Catalog for a complete list of available 2-piece fittings (H12XXXXX-XX).



Ferrules for SAE 100R7 & SAE 100R8 Hose (Steel)



Part Number	Dash Size	Hose ID Size (In.)	Hose ID Size (mm)	A OD (mm)	B Length (mm)	Weight Each (lbs.)
PFR-03	03	3/16	4.7	14.9	24.0	0.025
PFR-04	04	1/4	6.4	17.0	29.0	0.04
PFR7-05*	05	5/16	7.9	19.0	29.0	0.04
PFR-06	06	3/8	9.5	21.0	31.0	0.05
PFR-08	08	1/2	12.7	25.4	36.0	0.06
PFR-12	12	3/4	19.05	31.8	45.2	0.105

* PFR7-05 ferrules are to be used only with SAE 100R7 hoses!

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LOCATIONS

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EASTERN WAREHOUSE EASTERN RUBBER & PLASTICS CO., INC.

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Hose or tubing used in bent configurations will be subjected to increased abrasion. Hose clamps or couplings may loosen after initial installation and all sections of hose and tubing including connections, couplings, clamps, conductivity and bonding should be inspected frequently, regularly and consistently, and should be replaced, adjusted or re-tightened for the avoidance of leakage, for the prevention of injuries or damages, and for general safety purposes. Except as indicated in its Limited Warranty, Seller shall not be liable or responsible for direct or indirect injuries or damages caused by or attributed to the failure or malfunction of any Products sold or distributed by it.

Purchasers or users of the Products should frequently and consistently undertake inspections and protective measures with respect to the use and application of Products, which should include the examination of tube and cover, conditions of the hose or tubing, and the identification, repair or replacement of sections showing cracking, blistering, separations, internal and external abrasions, leaking or slipped couplings or connections and make proper proof tests.

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The Products sold or distributed by Seller are warranted to its customers to be free from defects in material and workmanship at the time of shipment by us, subject to the following provisions. ALL WARRANTY CLAIMS SHALL BE MADE WITHIN SIX (6) MONTHS AFTER SELLER SHIPPED THE PRODUCTS. SELLER'S LIABILITY HEREUNDER IS LIMITED AT SELLER'S EXCLUSIVE DISCRETION, TO 1) THE PURCHASE PRICE OF ANY PRODUCTS PROVING DEFECTIVE; 2) REPAIR OF ANY DEFECTIVE PRODUCT OR PART THEREOF; OR 3) REPLACEMENT OF ANY DEFECTIVE PRODUCT OR PART UPON ITS AUTHORIZED RETURN TO SELLER.

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