



Kuriyama Hydraulics

EDITION 1209

HYDRAULIC HOSE, FITTINGS & ACCESSORIES

PIRANHA FLEX™

ALFAGOMMA®



Kuriyama of America, Inc.

Headquarters, Sales Office and Warehouse Location
360 E. State Parkway • Schaumburg, IL 60173-5335

Phone: (847) 755-0360 • Toll-free FAX: (800) 800-0320 • International FAX: (847) 885-0996
Web Site: <http://www.kuriyama.com> E-Mail: sales@kuriyama.com



Visit us
www.kuriyama.com
on the Web!



SOUTHWEST WAREHOUSE
KURIYAMA OF AMERICA, INC.
HOUSTON
531 PORTWALL ST., SUITE 100
HOUSTON, TX 77029
Phone: (713) 674-8212
Toll Free Phone: (800) 501-6808
FAX: (713) 674-5214
Toll Free FAX: (800) 800-5214

WESTERN WAREHOUSE
KURIYAMA OF AMERICA, INC.
SANTA FE SPRINGS
10749 SHOEMAKER AVE.
SANTA FE SPRINGS, CA 90670-4039
Phone: (562) 941-4507
FAX: (562) 941-8940
Toll Free FAX: (800) 326-8940

SOUTHEAST WAREHOUSE
1580 BIG SHANTY DR. NW
KENNESAW, GA 30156-8210
Phone: (770) 427-6528
FAX: (770) 423-9249
Toll Free FAX: (800) 423-9249
Web Site: www.fortneysales.com
E-Mail: sales@fortneysales.com

EASTERN WAREHOUSE
EASTERN RUBBER & PLASTICS CO., INC.
RT. 537 PLUMSTED INDUSTRIAL PARK
NEW EGYPT, NJ 08533-0248
Phone: (609) 758-0100
FAX: (609) 758-0102
Toll Free FAX: (800) 445-7138
Web Site: www.easternrubber.com
E-Mail: sales@easternrubber.com

IN MEXICO:

KURIYAMA DE MEXICO, S. DE R.L. DE C.V., CARRETERA MIGUEL ALEMÁN KM. 14.8, PARQUE INDUSTRIAL HASNA, APODACA (MONTERREY), N.L., 66600, MEXICO
Tel: (81) 1086-1870 o 71 • Toll-Free (within Mexico) 01-800-822-52-00 • FAX: (81) 1086-1869 • Internet: www.kuriyama.com • Correo Electronico: ventas@kuriyama.com



Hydraulic Hose and Fittings From Alfagomma® and Piranhaflex™

About Alfagomma:

Alfagomma is a world-leading manufacturer of Industrial Rubber Hoses, Hydraulic Hoses and connectors. With positive and innovative responses to the demands from world class equipment builders, Alfagomma has introduced new products like the Alfatech 3000, 4000, 5000 and 6000 hoses, plus Temp Tech, Minetuff and Supertuff hoses. By staying alert to customer needs, Alfagomma is constantly engineering new products for tomorrow's markets while enhancing existing products for even higher performance. Alfagomma products are manufactured to the world's highest quality standards in ISO 9001- 2000 certified facilities. Their products meet or exceed the performance guidelines of eleven different industry recognized agencies around the world.

About Piranhaflex™ Thermoplastic hydraulic Hose & Fittings

Piranhaflex™ Thermoplastic Hydraulic hoses were first available to the Kuriyama Distribution Network in 2009, but the "DNA" of the Piranha brand goes back to their original patent on braid-reinforced high pressure thermoplastic hoses. Since that time, they have continued to add additional new products to their quality line-up of hydraulic hoses to meet your application needs. These include:

100R7 Hoses:

- Piranhaflex™ Series PF354 and PF354NC (for non-conductive applications) for medium pressure hydraulic hose applications for hydraulic oil and lubrication lines.
- Piranhaflex™ Plus Series PFP354 for medium pressure hydraulic lines commonly used on Fork Trucks.
- Piranhaflex™ Plus "Non-Conductive" Series

PFP354NC for medium pressure hydraulic line commonly used on utility equipment.

- Piranhaflex™ Series PF367 and PF367NC (for nonconductive applications) for medium pressure hydraulic hose applications for hydraulic oil and lubrication lines.
- Piranhaflex™ Series PFAN388NC ANSI 92.2 for medium pressure hydraulic lines commonly used on vehicle mounted aerial devices such as Boom Trucks and Cherry Pickers.

100R8 Hoses:

Piranhaflex™ Series PF628 and PF628NC (for non-conductive applications) for general purpose high pressure hydraulic applications with working pressures of 2,250 to 5,000 psi (depending on size).

100R18 Hoses:

Piranhaflex™ Hydraulic Series PF427 for general purpose high pressure hydraulic applications with a constant working pressure of 3,000 psi.

About Kuriyama of America, Inc.:

In addition to being a leading manufacturer of many quality industrial hose products, Kuriyama of America, Inc. is the U. S. logistics and marketing partner of Alfagomma Hydraulic products and Alfagomma Industrial Rubber Hose products. With a strong sales and technical team and five strategically located warehouses (Illinois, New Jersey, Georgia, Texas and California), Kuriyama excels in the areas of quality, service and timely delivery. When combining the Alfagomma and Piranhaflex brands of hydraulic products with the wide variety of other Kuriyama products, nearly every application that requires a flexible connection is covered. For more on Kuriyama of America, Inc. and its products, please visit <http://www.kuriyama.com>.

The trademarks used in connection with the Alfagomma product line contained in this publication are trademarks of Alfa Gomma, S.p.A. The trademarks used in connection with the Kuriyama product lines contained in this publication are trademarks of Kuriyama of America, Inc.

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

ALFAGOMMA hydraulic hoses are available in a wide range of types and sizes to meet most hydraulic applications. They all feature high quality construction and design.

Single and Double Wire Braided Hydraulic Hoses

Available in sizes 3/16" through 3" ID.



Single wire braid - Flexor 1SN/R1AT —
Meets or exceeds SAE 100R1AT - EN 853 1SN



Double wire braid - Flexor 2SN/R2AT —
Meets or exceeds SAE 100R2AT - EN 853 2SN
MSHA IC-152/8 Approved

Flexopak Hoses

Available in sizes 1/4" through 1" ID.



Flexible, easy-to-route hoses that meet or exceed SAE 100R16 and EN 857 2SC specifications. Special construction allows for tighter bends and thus less hose is required to make connections.

Also includes the Flexopak LT Low Temperature hoses for easy routing and high-performance in extreme arctic conditions.

Other Braided Hoses



For braided hoses, size range is 3/16" ID to 3" ID on select styles.

One-wire braid-reinforced - Flexor 5
Meets or exceeds SAE 100R5



Two High Tensile Braids - Flexor 3
Meets or exceeds SAE 100R3 - EN 854 R3 - DN



One High Tensile Braid - Flexor 6
Meets or exceeds SAE 100R6 - EN 864 R6 - DN

Temp Tech 300° F Hoses



Single wire braid - Temp Tech 1SN
Meets or exceeds SAE 100R1AT - EN 853 1SN
Available in 1-wire construction (100R1AT, EN 853 1SN)
in sizes 3/8" through 2" ID.



Double wire braid - Temp Tech 2SN
Meets or exceeds SAE 100R2AT - EN 853 2SN
Available in 2-wire construction (100R2AT, EN 853 2SN)
in sizes 1/4" through 2" ID.

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Flexopak 2 LT Low Temp Hydraulic Hose

Double compact wire braid hydraulic hose - TF2LT

Double wire braid meets or exceeds SAE 100R16 - EN 857 2SC



Minetuff & Supertuff Hoses

Several ALFAGOMMA hoses are available with these patented extra-durable cover constructions that offer superior abrasion resistance. Consult KOA for more information.



AlfaJet Pressure Washer Hoses



Single wire braid light weight - AlfaJet 210

Double wire braid light weight - AlfaJet 400

Flexor T604AA - SAE 100R4 Oil Return Hose

Low pressure return lines or suction lines with half the bend radius requirements of 100R4.



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Piranhaflex™ Thermoplastic 100R7, 100R8 & 100R18 Hydraulic Hoses



Piranhaflex™ 100R7 Series PF354 (black cover) and PF354NC (orange cover) for non-conductive applications; nylon inner tube. Meets or exceeds SAE J517 Standards

Piranhaflex™ 100R7 Series PF367 (black cover) and PF367NC (orange cover) for non-conductive applications; polyester inner tube. Meets or exceeds SAE J517 Standards



Piranhaflex™ **Plus** 100R7 Series PFP354 (black cover) with special low friction cover for fork lift applications; nylon inner tube. Meets or exceeds SAE J517 Standards



Piranhaflex™ **Plus** Series PFP354NC (orange cover) is the ideal hose for medium pressure hydraulic lines commonly used on utility equipment. The low friction cover helps in eliminating hose routing problems and extends service life.



Piranhaflex™ Series PFAN388NC (orange cover) is ideal for hydraulic lines commonly used on vehicle mounted aerial devices such as Boom Trucks and Cherry Pickers. It complies with the ANSI 92.2 standard for Vehicle Mounted Aerial Devices.



Piranhaflex™ 100R8 Series PF628 (black cover) and PF628NC (orange cover) for non-conductive applications; polyester inner tube. Meets or exceeds SAE 100R8 impulse requirements.



Piranhaflex™ 100R18, PF427 Series (black cover) provides 3,000 psi for each available ID size 1/4", 3/8" and 1/2" for construction, material handling and agricultural equipment. The 100R18, PF427NC Series (orange cover) is for non-conductive applications including hydraulic tools, lubrication lines and man lifts.



Now available at your nearest Kuriyama warehouse are Piranhaflex™ 100R7 and 100R8 twin line hoses in ID sizes 1/4", 3/8" in 250 ft. reel lengths and 1/2" in 200 ft. reel lengths. Other Twin and Multi Line hoses are available on request and can be made to order.

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Spiral Hydraulic Hoses

Available in sizes from 1/4" to 2" ID.



Four wire spiral - Flexor 12
 Meets or exceeds SAE 100R12 - EN 856 R12
 Meets flame resistance acceptance designation
 US MSHA IC-152/2



Four wire spiral - Flexor 4SP
 Meets or exceeds SAE 100R12 - EN 856 4SP & ISO 3862
 Meets flame resistance acceptance designation
 US MSHA IC-152/8



Four wire spiral - Flexor 4SH
 Meets or exceeds EN 856 4SH & ISO 3862
 Meets flame resistance acceptance designation
 US MSHA IC-152/8



Four or six wire spiral - Flexor 13
 Meets or exceeds SAE 100R13 - EN 856 R13 & ISO 3862
 Meets flame resistance acceptance designation
 US MSHA IC-152/3

Alfatech Family of Constant Working Pressure Hoses

The Alfatech series of hoses, designed with the application engineer in mind, simplifies system routing by offering the same working pressure ratings for all sizes of the respective hose.

Advantages include:

- Extraordinary flexibility
- Reduced inventory
- Clear branding and coding

Styles include:

- Alfatech 3000 (SAE 100R17 and EN 857 1SC)
- Alfatech 4000
- Alfatech 5000
- Alfatech 6000 (SAE 100R15)

Size range: 1/4" ID to 2" ID on select styles.



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Hydraulic Hose Fittings

AlfaCrimp One-Piece Fittings

ALFAGOMMA's unique inventory-reducing (C124 Series) one-piece bite-wire crimp fittings allows the assembler to use one style of fitting for 1-wire braid, 2-wire braid and 4-spiral wire 100R12 hose. Additionally our C126 Series offers a non-skive one-piece option for 100R13 and 4SH hoses.

Other Benefits include:

- Non-skive, bite the wire for up to 2" ID hose
- Several terminations available to plumb nearly every connection without adapters.
- Tested to meet the worlds highest performance standards.



Two-Piece Fittings

ALFAGOMMA also offers the standard 2-piece fittings, competitively priced and preferred by high-volume assembly fabricators.



Standard U. S. configurations offered in AlfaCrimp 1-piece and in 2-piece style fittings:

- NPTF Male and Female
- NPSM Swivel
- SAE O-Ring BOSS
- JIC Male and Female, Elbows, S, M, and L drop
- ORFS Male and Female, Elbows, S, M and L drop
- Code 61 Split-Flange – 22, 30, 45, 60 and 90 degree Elbows
- Female Grease Tap
- Bite-Type Flareless Compression

Metric/International configurations offered in AlfaCrimp 1-piece and in 2-piece style fittings (except where noted):

- BSP Male tapered and BSP Male Parallel
- BSP Female Swivel, Straight, 45 degree and 90 degree Elbow
- Metric male 24 degree seat – DIN Light and DIN Heavy
- Metric Female Swivel O-Ring, DIN Heavy, DIN Light, 45 and 90 degree Elbows
- BSP Flat-Face*
- JIS Fittings*
- Komatsu Swivel fittings*
- Komatsu Flanges*
- French GAZ type*
- Pressure Wash fittings*

* Available in two-piece configurations only

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Assembly Equipment & Accessories

KuriKrimp™ Crimpers

Kuriyama offers a full line of KuriKrimp™ Crimpers



KD160SH & SP Package and Components

The KD160SH & SP crimper is both light and powerful enough (60 ton) to go anywhere you need to go to make hydraulic hose assemblies up to 1 1/4" ID 100R12 four-spiral hose!

KD165 Package and Components

If you're looking for a machine that can do more than just 2 wire hose, the KD165 might be your machine of choice. This machine boasts a 60 ton press, capable of crimping 2 and 4 wire hose up to 1 1/4" and 6 wire up to 1" ID.



KD2-30 Package and Components

The KD2-30 has 155 ton of crimping force and averages 1,415 crimps/hour for -8 100R2AT. It is an ideal fit for many small shops where space is at a premium and the ability to crimp a wide variety of hose and fittings as needed.

KD2-50 Package and Components

The KD2-50 has 340 ton of crimping force and averages 1,415 crimps/hour for -8 100R2AT. It is an ideal fit for many small shops where space is at a premium and the ability to crimp a wide variety of hose and fittings is needed.



KD4-50 Package and Components

The KD4-50 boasts 340 ton of crimping force and averages 1,415 crimps/hour for -8 100R2AT. Not only is this a true hydraulic production machine, but ACT controller makes it a snap.

KuriSaws™ are available to meet your hydraulic hose cutting needs. Several options are available to improve your cuts, blade life and hose cutting accuracy



The 1 1/2 HP KHS-150 will cut hose up to 1 1/4" 4--Wire using a 10" blade.

KuriSaws™ Plus Hose Saws are available with a mist system for longer blade life, hose retention clamp and hose measurement table making hose preparation fast and accurate.



- The 5 HP KHS-500 will cut hose up to 2" multi-spiral using a 12" blade.



- The 3 HP KHS-300 will cut hose up to 1 1/4" multi-spiral using a 12" blade.

For a full line hydraulic catalog, contact your nearest Kuriyama of America, Inc. sales/warehouse location. Please refer to the front cover page of this brochure for the location that serves your area. You can also contact us on the Web at: <http://www.kuriyama.com>.

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