

Crimp Specifications for Hydraulic Hose and Fittings



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Glossary of Terms:

Skive — Removal of the hose cover by way of knife hand tool, brush wheel or other method, exposing the uppermost layer of reinforcement prior to crimping.

Skive Length — Area to be skived prior to crimping.

Crimp Diameter — The measured outside diameter of the ferrule or shell - measuring the FLAT SURFACES of the crimped ferrule or shell. Acceptable range of tolerance for AlFagomma and Piranhaflex is +/- 0.005 inches (0.125mm).



Crimping specifications for this unit and these instructions were developed using ALFAGOMMA[®] hydraulic hose and couplings. Kuriyama of America and ALFAGOMMA[®] recommend using only the hose and coupling combinations specified in the current Kuriyama of America ALFAGOMMA[®] catalog and the crimp specifications for these KuriCrimp[™] units. Be sure to read and follow the instructions in the KuriCrimp[™] Operations Guide, the instructions beneath the word "Important" below, and the specifications in the KuriCrimp[™] Tool Selection Guide which appear on the following pages. Failure to act consistent with any of the above can result in serious bodily injury or damage.

Important!

The crimp adjuster setting values shown on this chart are APPROXIMATE SETTINGS only and should be used only as a starting point. Due to differences in calibration and metal surface machining tolerances, the crimp setting may require adjustment. It is highly recommended that the finished crimp diameter of each assembly made be measured with calipers to determine if adjustment is necessary. To determine actual setting, measure the crimp diameter of the crimped assembly end. To tighten the crimp diameter, adjust the setting to a higher value. To increase (enlarge) the finished crimp diameter, adjust the setting to a lower value.

The column labeled "Actual" adjacent to the "Approx" column in the tables has been provided to give the user a place to record his own ideal crimp setting.

Note on Legacy Offerings:

Product offerings are updated from time to time. In any case where a crimper, crimper die, hose, fitting, ferrule, and/or insert are no longer detailed in this latest version crimping guide, then legacy crimping guides and/or crimping specifications can be made available upon request detailing products that are no longer catalog offered. In no case should a product be assembled based upon another product's published crimping specifications.



HEADQUARTERS, SALES OFFICE AND WAREHOUSE

150 N Martingale Road, Suite 900 Schaumburg, IL 60173-2081
Phone: (847) 755-0360 • Toll-free Fax: (800) 800-0320

International Fax: (847) 885-0996

 kuriyama.com  sales@kuriyama.com

FLEXIBILITY OF THE ALFACRIMP SYSTEM

The AlfaCrimp System gives the hose assembler options to stock inventory that best suits their needs. AlfaCrimp System one-piece hydraulic fittings are ideally suited for distributor, end user, and OEM applications where assembly and inventory simplicity are preferred.

B-Series fittings are commonly used on most braid-wire constructed hydraulic hoses.

D-Series fittings offer a common termination value option for some braid-wire constructed and some spiral-wire constructed hydraulic hoses. They are also commonly used on some industrial rubber hoses (also see separate industrial crimping guide).

S-Series fittings are used on most spiral-wire constructed hydraulic hoses.

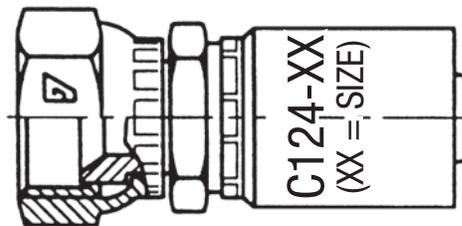
Please reference the Kuriyama Hydraulics master catalog hose pages and this master crimping guide for clear guidance on proper hose and fitting series and size compatibilities.

B-SERIES



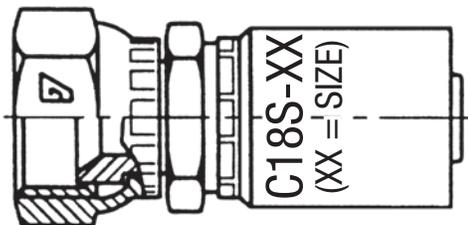
Use with Alfagomma TR1, TR2, TF2, AT3K, AT10K, KK4, and TAJ5 braid-wire constructed hydraulic hoses per catalog and crimping guide compatibility guidance.

D-SERIES



Use with Alfagomma TR1, TR2, and TF2 braided-wire constructed and E4K spiral-wire constructed hydraulic hoses per catalog and crimping guide compatibility guidance.

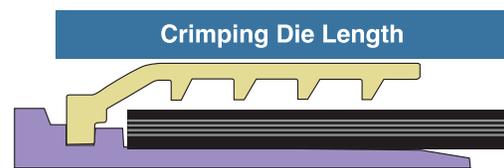
S-SERIES



Use with Alfagomma E3K, E4K, E5K, and E6K spiral-wire constructed hydraulic hoses per catalog and crimping guide compatibility guidance.

Note: All Alfagomma crimp fittings require a full length crimp that crimps the entire length of the ferrule including the pre-crimped portion of all one piece fittings. Finished crimps are not to have a bubble at the top or a skirt at the back. Finished crimps should be 100% flat. See illustrations below.

BEFORE CRIMPING



AFTER CRIMPING




ALFAGOMMA
TR1MT, TR1HT - R1/1SN MINETUFF and HIGH TEMP
B-SERIES ONE-PIECE NON-SKIVE FITTING

Fitting Part Number	Size ID (in)	Insert Length (mm)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
B-04xx	1/4	17.0	0.685	17.4	16	1.40
B-05xx	5/16	17.0	0.760	19.3	19	0.30
B-06xx	3/8	18.0	0.847	21.5	19	2.50
B-08xx	1/2	20.0	0.981	24.9	22	2.90
B-10xx	5/8	21.0	1.059	26.9	25	1.90
B-12xx	3/4	24.0	1.264	32.1	31	1.10
B-16xx	1	24.0	1.548	39.3	38	1.30
B-20xx	1 1/4	39.0	1.858	47.2	46	1.20
B-24xx	1 1/2	50.0	2.142	54.4	54	0.40
B-32xx	2	58.0	2.685	68.2	63	5.20


ALFAGOMMA
TR1MT, TR1HT - R1/1SN MINETUFF and HIGH TEMP
D-SERIES ONE-PIECE NON-SKIVE FITTING

Fitting Part Number	Size ID (in)	Insert Length (mm)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
D-20xx	1 1/4	39.0	1.957	49.7	46	3.70
D-24xx	1 1/2	50.0	2.232	56.7	54	2.70
D-32xx	2	58.0	2.736	69.5	69	0.50

ALFAGOMMA®

TR2MT, TR2HT - R2/2SN MINETUFF and HIGH TEMP

B-SERIES ONE-PIECE NON-SKIVE FITTING

Fitting Part Number	Size ID (in)	Insert Length (mm)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
B-04xx	1/4	17.0	0.717	18.2	16	2.20
B-05xx	5/16	17.0	0.791	20.1	19	1.10
B-06xx	3/8	18.0	0.878	22.3	22	0.30
B-08xx	1/2	20.0	1.016	25.8	25	0.80
B-10xx	5/8	21.0	1.130	28.7	25	3.70
B-12xx	3/4	24.0	1.276	32.4	31	1.40
B-16xx	1	24.0	1.567	39.8	38	1.80
B-20xx	1 1/4	39.0	1.953	49.6	46	3.60
B-24xx	1 1/2	50.0	2.232	56.7	54	2.70
B-32xx	2	58.0	2.787	70.8	69	1.80

ALFAGOMMA®

TR2MT, TR2HT - R2/2SN MINETUFF and HIGH TEMP

D-SERIES ONE-PIECE NON-SKIVE FITTING

Fitting Part Number	Size ID (in)	Insert Length (mm)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
D-08xx	1/2	26.0	1.098	27.9	25	2.90
D-10xx	5/8	29.0	1.228	31.2	31	0.20
D-12xx	3/4	32.0	1.406	35.7	34	1.70
D-16xx	1	39.0	1.709	43.4	42	1.40
D-20xx	1 1/4	39.0	2.055	52.2	50	2.20
D-24xx	1 1/2	50.0	2.327	59.1	58	1.10
D-32xx	2	58.0	2.835	72.0	69	3.00

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TF2MT, TF2ST, TF2LT, TF2TL - FLEXOPAK 2/R16/2SC MINETUFF and SUPERTUFF and LOW TEMP and TWIN LINE

B-SERIES ONE-PIECE NON-SKIVE FITTING

Fitting Part Number	Size ID (in)	Insert Length (mm)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
B-04xx	1/4	17.0	0.693	17.6	16	1.60
B-05xx	5/16	17.0	0.760	19.3	19	0.30
B-06xx	3/8	18.0	0.843	21.4	19	2.40
B-08xx	1/2	20.0	0.996	25.3	25	0.30
B-10xx	5/8	21.0	1.106	28.1	25	3.10
B-12xx	3/4	24.0	1.260	32.0	31	1.00
B-16xx	1	29.0	1.551	39.4	38	1.40
B-20xx	1 1/4	39.0	1.843	46.8	46	0.80
B-24xx	1 1/2	50.0	2.157	54.8	54	0.80
B-32xx	2	58.0	2.724	69.2	69	0.20
B-40xx	2 1/2	70.0	3.091	78.5	77	1.50
B-48xx	3	87.0	3.784	96.1	96	0.10

ALFAGOMMA

TF2MT, TF2ST, TF2LT, TF2TL - FLEXOPAK 2/R16/2SC MINETUFF and SUPERTUFF and LOW TEMP and TWIN LINE

D-SERIES ONE-PIECE NON-SKIVE FITTING

Fitting Part Number	Size ID (in)	Insert Length (mm)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
D-16xx	1	39.0	1.701	43.2	42	1.20
D-20xx	1 1/4	39.0	1.937	49.2	46	3.20
D-24xx	1 1/2	50.0	2.244	57.0	54	3.00
D-32xx	2	58.0	2.764	70.2	69	1.20

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TF2RMT - FLEXOPAK 2/R16 5000 PSI MINETUFF

B-SERIES ONE-PIECE NON-SKIVE FITTING

Fitting Part Number	Size ID (in)	Insert Length (mm)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
B-08xx	1/2	20.0	0.965	24.5	22	2.50

ALFAGOMMA®

AT3KMT, AT3KST - ALFATECH 3000/R17 MINETUFF and SUPERTUFF

B-SERIES ONE-PIECE NON-SKIVE FITTING

Fitting Part Number	Size ID (in)	Insert Length (mm)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
B-04xx	1/4	17.0	0.661	16.8	16	0.80
B-06xx	3/8	18.0	0.811	20.6	19	1.60
B-08xx	1/2	26.0	0.937	23.8	22	1.80

ALFAGOMMA®

AT10KJ - 10,000 PSI JACK HOSE

B-SERIES ONE-PIECE NON-SKIVE FITTING

Fitting Part Number	Size ID (in)	Insert Length (mm)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
B-04xx	1/4	17.0	0.693	17.6	16	1.60
B-06xx	3/8	18.0	0.843	21.4	19	2.40

Note: -MAPI terminations are typical for use with AT10KJ - 10,000 PSI Jack Hose assemblies.


ALFAGOMMA
E3K, E3KST - ALFABIOTECH EVOLUTION 3K MINETUFF and SUPERTUFF
B-SERIES ONE-PIECE NON-SKIVE FITTING

Fitting Part Number	Size ID (in)	Insert Length (mm)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
B-20xx	1 1/4	39.0	1.898	48.2	46	2.20
B-24xx	1 1/2	55.2	2.173	55.2	54	1.20
B-32xx	2	70.6	2.780	70.6	69	1.60


ALFAGOMMA
E3K, E3KST - ALFABIOTECH EVOLUTION 3K MINETUFF and SUPERTUFF
S-SERIES ONE-PIECE NON-SKIVE FITTING

Fitting Part Number	Size ID (in)	Insert Length (mm)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
S-20xx	1 1/4	63.0	2.048	52.0	50	2.00
S-24xx	1 1/2	66.5	2.252	57.2	54	3.20
S-32xx	2	77.0	2.804	71.2	69	2.20

ALFAGOMMA®

E4K, E4KST - ALFABIOTECH EVOLUTION 4K MINETUFF and SUPERTUFF

D-SERIES ONE-PIECE NON-SKIVE FITTING

Fitting Part Number	Size ID (in)	Insert Length (mm)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
D-06xx	3/8	21.0	0.965	24.5	22	2.50
D-08xx	1/2	26.0	1.110	28.2	25	3.20
D-10xx	5/8	29.0	1.256	31.9	31	0.90
D-12xx	3/4	32.0	1.406	35.7	34	1.70
D-16xx	1	39.0	1.720	43.7	42	1.70

ALFAGOMMA®

E4K, E4KST - ALFABIOTECH EVOLUTION 4K MINETUFF and SUPERTUFF

S-SERIES ONE-PIECE NON-SKIVE FITTING

Fitting Part Number	Size ID (in)	Insert Length (mm)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
S-06xx	3/8	32.0	0.906	23.0	22	1.00
S-08xx	1/2	35.0	0.965	24.5	22	2.50
S-10xx	5/8	38.5	1.150	29.2	29	0.20
S-12xx	3/4	45.5	1.291	32.8	31	1.80
S-16xx	1	54.0	1.606	40.8	38	2.80
S-20xx	1 1/4	63.0	2.048	52.0	50	2.00
S-24xx	1 1/2	66.5	2.225	56.5	54	2.50
S-32xx	2	77.0	2.804	71.2	69	2.20


ALFAGOMMA
E5K, E5KST - ALFABIOTECH EVOLUTION 5K MINETUFF and SUPERTUFF
S-SERIES ONE-PIECE NON-SKIVE FITTING

Fitting Part Number	Size ID (in)	Insert Length (mm)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
S-10xx	5/8	38.5	1.150	29.2	29	0.20
S-12xx	3/4	45.5	1.307	33.2	31	2.20
S-16xx	1	54.0	1.610	40.9	38	2.90
S-20xx	1 1/4	63.0	2.048	52.0	50	2.00
S-24xx	1 1/2	66.5	2.358	59.9	58	1.90
S-32xx	2	77.0	2.874	73.0	69	4.00


ALFAGOMMA
E6K, E6KST - ALFABIOTECH EVOLUTION 6K MINETUFF and SUPERTUFF
S-SERIES ONE-PIECE NON-SKIVE FITTING

Fitting Part Number	Size ID (in)	Insert Length (mm)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
S-04xx	1/4	23.0	0.768	19.5	19	0.50
S-06xx	3/8	32.0	0.906	23.0	22	1.00
S-08xx	1/2	35.0	0.965	24.5	22	2.50
S-10xx	5/8	38.5	1.205	30.6	29	1.60
S-12xx	3/4	45.5	1.346	34.2	34	0.20
S-16xx	1	54.0	1.622	41.2	38	3.20
S-20xx	1 1/4	63.0	2.087	53.0	50	3.00
S-24xx	1 1/2	66.5	2.358	59.9	58	1.90

ALFAGOMMA®

KK4BK/BU - K-KLEEN 4000 PRESSURE WASHER

B-SERIES ONE-PIECE NON-SKIVE FITTING

Fitting Part Number	Size ID (in)	Insert Length (mm)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
B-06xx	3/8	18.0	0.835	21.2	19	2.20
B-08xx	1/2	20.0	0.976	24.8	22	2.80

ALFAGOMMA®

TAJ5BK/BU - ALFAJET 400 PRESSURE WASHER

B-SERIES ONE-PIECE NON-SKIVE FITTING

Fitting Part Number	Size ID (in)	Insert Length (mm)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
B-04xx	1/4	17.0	0.697	17.7	16	1.70
B-06xx	3/8	18.0	0.835	21.2	19	2.20
B-08xx	1/2	20.0	0.976	24.8	22	2.80

PIRANHAFLEX™ HYDRAULICS

PIRANHAFLEX™ PF267/PF267NC/PF354/PF354NC/PFP354/PFP354NC

(USING 1-PIECE P SERIES CARBON STEEL)

Fitting Series	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.127 mm	Die & Color	Metric Micrometer Approx	KD100/200 Standard Micrometer Approx	KD100/200 Series Die Selection	#1) Pre Crimp - Crimp position from bottom of ferrule measured up	#2) Post Crimp Length (in) (± 0.030")
P-04XX	1/4	0.560	14.22	14	0.22	98	KD/D100/200-14/YELLOW	1.000	1.040
P-05XX	5/16	0.630	16.00	16	0.00	100	KD/D100/200-16/ORANGE	0.950	1.000
P-06XX	3/8	0.690	17.53	16	1.53	87	KD/D100/200-16/ORANGE	1.100	1.150
P-08XX	1/2	0.850	21.59	20	1.59	86	KD/D100/200-20/GREEN	1.200	1.250

- This is "NOT" a full ferrule crimp and the crimp location is measured from the ferrule bottom up towards the connection (see figures 1 & 2)
- Refer to the above crimp table for proper crimp diameter and set up crimper accordingly. NOTE: the -03 size "MUST" be crimped using a KD/D100-13/Purple die.
- Measure finished crimp length as shown in figure 3. The finish crimp length should be within the +/- tolerances called out in the table above.
- Measure finished crimp diameter (across the flats/roots) (see figure 4). The finish crimp should be within +/- tolerances called out in the table above.
- Both the "post crimp diameter" and "post crimp length" must be measured and within tolerances to assure a proper crimp.

FIGURE 1



FIGURE 2



FIGURE 3

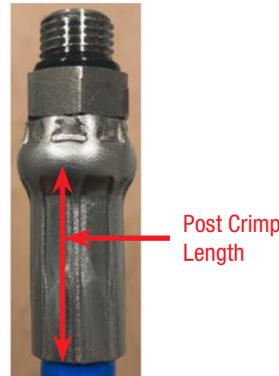
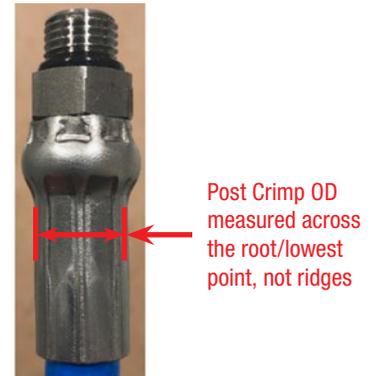


FIGURE 4



All PiranhaFlex Die Selection guidance is based upon Custom Crimp manufactured standard crimpers and dies. Please see the PiranhaFlex product catalog for more details. KuriCrimp, Powered by O+P, standard crimper and die recommendations can be made upon request.

PIRANHAFLEX™
HYDRAULICS

PIRANHAFLEX™ PF321TC

(USING 1-PIECE P SERIES CARBON STEEL)

Fitting Series	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.127 mm	Die & Color	Metric Micrometer Approx	KD100/200 Standard Micrometer Approx	KD100/200 Series Die Selection	#1) Pre Crimp - Crimp position from bottom of ferrule measured up	#2) Post Crimp Length (in) (± 0.030")
P-04XX	1/4	0.545	13.84	13	0.84	93	KD/D100/200-13/PURPLE	1.000	1.040

- This is "NOT" a full ferrule crimp and the crimp location is measured from the ferrule bottom up towards the connection (see figures 1 & 2)
- Refer to the above crimp table for proper crimp diameter and set up crimper accordingly. NOTE: the -03 size "MUST" be crimped using a KD/D100-13/Purple die.
- Measure finished crimp length as shown in figure 3. The finish crimp length should be within the +/- tolerances called out in the table above.
- Measure finished crimp diameter (across the flats/roots) (see figure 4). The finish crimp should be within +/- tolerances called out in the table above.
- Both the "post crimp diameter" and "post crimp length" must be measured and within tolerances to assure a proper crimp.

FIGURE 1

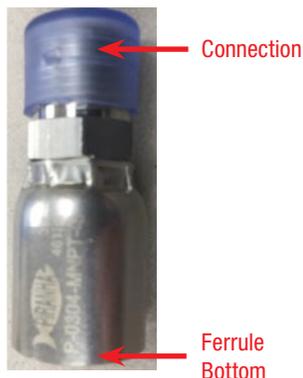


FIGURE 2



FIGURE 3

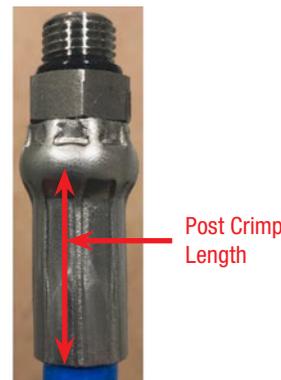


FIGURE 4



All PiranhaFlex Die Selection guidance is based upon Custom Crimp manufactured standard crimpers and dies. Please see the PiranhaFlex product catalog for more details. KuriCrimp, Powered by O+P, standard crimper and die recommendations can be made upon request.

PIRANHAFLEX™ HYDRAULICS

PIRANHAFLEX™ PF344LMT

(USING 1-PIECE P SERIES CARBON STEEL)

Fitting Series	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.127 mm	Die & Color	Metric Micrometer Approx	KD100/200 Standard Micrometer Approx	KD100/200 Series Die Selection	#1) Pre Crimp - Crimp position from bottom of ferrule measured up	#2) Post Crimp Length (in) (± 0.030")
P-04XX	1/4	0.565	14.35	14	0.35	97	KD/D100/200-14/YELLOW	1.000	1.040
P-06XX	3/8	0.690	17.53	16	1.53	87	KD/D100/200-16/ORANGE	1.100	1.150
P-08XX	1/2	0.850	21.59	20	1.59	86	KD/D100/200-20/GREEN	1.200	1.250

- This is "NOT" a full ferrule crimp and the crimp location is measured from the ferrule bottom up towards the connection (see figures 1 & 2)
- Refer to the above crimp table for proper crimp diameter and set up crimper accordingly. NOTE: the -03 size "MUST" be crimped using a KD/D100-13/Purple die.
- Measure finished crimp length as shown in figure 3. The finish crimp length should be within the +/- tolerances called out in the table above.
- Measure finished crimp diameter (across the flats/roots) (see figure 4). The finish crimp should be within +/- tolerances called out in the table above.
- Both the "post crimp diameter" and " post crimp length" must be measured and within tolerances to assure a proper crimp.

FIGURE 1



FIGURE 2



FIGURE 3

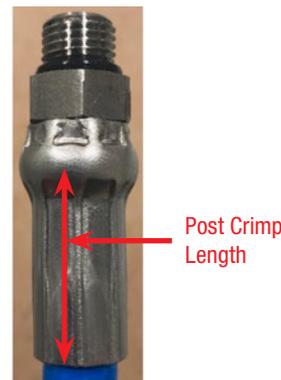


FIGURE 4



All PiranhaFlex Die Selection guidance is based upon Custom Crimp manufactured standard crimpers and dies. Please see the PiranhaFlex product catalog for more details. KuriCrimp, Powered by O+P, standard crimper and die recommendations can be made upon request.

PIRANHAFLEX™
HYDRAULICS

PIRANHAFLEX™ PF427/PF427NC

(USING 1-PIECE P SERIES CARBON STEEL)

Fitting Series	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.127 mm	Die & Color	Metric Micrometer Approx	KD100/200 Standard Micrometer Approx	KD100/200 Series Die Selection	#1) Pre Crimp - Crimp position from bottom of ferrule measured up	#2) Post Crimp Length (in) (± 0.030")
P-04XX	1/4	0.560	14.22	14	0.22	98	KD/D100/200-14/YELLOW	1.000	1.040
P-06XX	3/8	0.705	17.91	16	1.91	84	KD/D100/200-16/ORANGE	1.100	1.150
P-08XX	1/2	0.870	22.10	22	0.10	99	KD/D100/200-22/BLUE	1.200	1.250

- This is "NOT" a full ferrule crimp and the crimp location is measured from the ferrule bottom up towards the connection (see figures 1 & 2)
- Refer to the above crimp table for proper crimp diameter and set up crimper accordingly. NOTE: the -03 size "MUST" be crimped using a KD/D100-13/Purple die.
- Measure finished crimp length as shown in figure 3. The finish crimp length should be within the +/- tolerances called out in the table above.
- Measure finished crimp diameter (across the flats/roots) (see figure 4). The finish crimp should be within +/- tolerances called out in the table above.
- Both the "post crimp diameter" and " post crimp length" must be measured and within tolerances to assure a proper crimp.

FIGURE 1

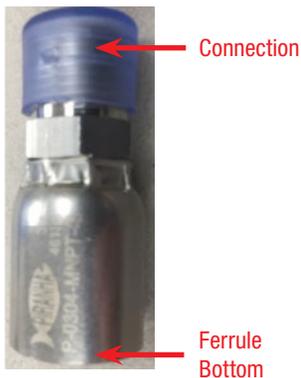


FIGURE 2



FIGURE 3

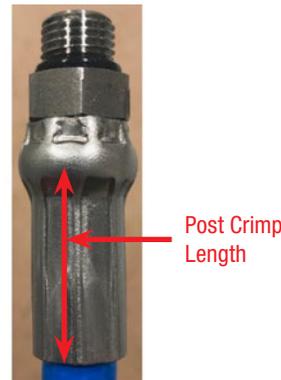


FIGURE 4



All PiranhaFlex Die Selection guidance is based upon Custom Crimp manufactured standard crimpers and dies. Please see the PiranhaFlex product catalog for more details. KuriCrimp, Powered by O+P, standard crimper and die recommendations can be made upon request.

PIRANHAFLEX™ HYDRAULICS

PIRANHAFLEX™ PF628/PF628NC

(USING 1-PIECE P SERIES CARBON STEEL)

Fitting Series	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.127 mm	Die & Color	Metric Micrometer Approx	KD100/200 Standard Micrometer Approx	KD100/200 Series Die Selection	#1) Pre Crimp - Crimp position from bottom of ferrule measured up	#2) Post Crimp Length (in) (± 0.030")
P-04XX	1/4	0.545	13.84	13	0.84	93	KD/D100/200-13/PURPLE	1.000	1.040
P-06XX	3/8	0.675	17.15	16	1.15	90	KD/D100/200-16/ORANGE	1.100	1.150
P-08XX	1/2	0.850	21.59	20	1.59	86	KD/D100/200-20/GREEN	1.200	1.250

- This is "NOT" a full ferrule crimp and the crimp location is measured from the ferrule bottom up towards the connection (see figures 1 & 2)
- Refer to the above crimp table for proper crimp diameter and set up crimper accordingly. NOTE: the -03 size "MUST" be crimped using a KD/D100-13/Purple die.
- Measure finished crimp length as shown in figure 3. The finish crimp length should be within the +/- tolerances called out in the table above.
- Measure finished crimp diameter (across the flats/roots) (see figure 4). The finish crimp should be within +/- tolerances called out in the table above.
- Both the "post crimp diameter" and " post crimp length" must be measured and within tolerances to assure a proper crimp.

FIGURE 1

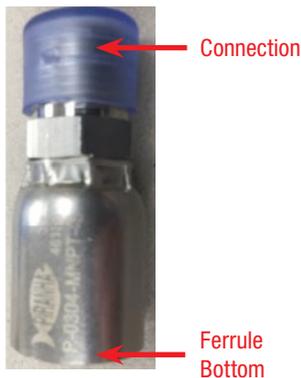


FIGURE 2



FIGURE 3

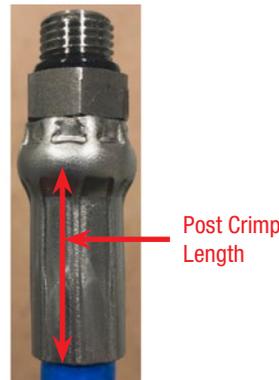
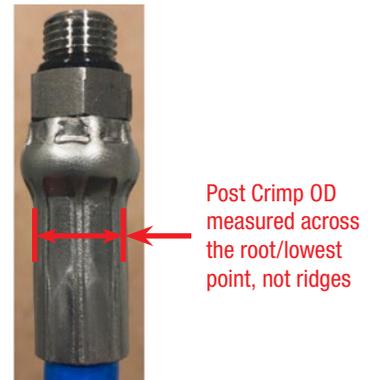


FIGURE 4



All PiranhaFlex Die Selection guidance is based upon Custom Crimp manufactured standard crimpers and dies. Please see the PiranhaFlex product catalog for more details. KuriCrimp, Powered by O+P, standard crimper and die recommendations can be made upon request.

PIRANHAFLEX™
HYDRAULICS

PIRANHAFLEX™ PF354/PF354NC/PFP354/PFP354NC/PF267/PF267NC

(USING 1-PIECE STEEL FITTINGS)

Fitting Part Number	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.127 mm	Die & Color	Metric Micrometer Approx	KD100/200 Standard Micrometer Approx	KD100/200 Series Die Selection	#1) Pre Crimp - Crimp position from bottom of ferrule measured up	#2) Post Crimp Length (in) (± 0.30")
P-02XX-XXXX	1/8	0.365	9.27	9	0.27	98	KD/D100/200-9/BLACK	0.460	0.500

- This is "NOT" a full ferrule crimp and the crimp location is measured from the ferrule bottom up towards the connection (see figures 1 & 2)
- Refer to the above crimp table for proper crimp diameter and set up crimper accordingly. NOTE: the -03 size "MUST" be crimped using a KD/D100-13/Purple die.
- Measure finished crimp length as shown in figure 3. The finish crimp length should be within the +/- tolerances called out in the table above.
- Measure finished crimp diameter (across the flats/roots) (see figure 4). The finish crimp should be within +/- tolerances called out in the table above.
- Both the "post crimp diameter" and "post crimp length" must be measured and within tolerances to assure a proper crimp.

FIGURE 1

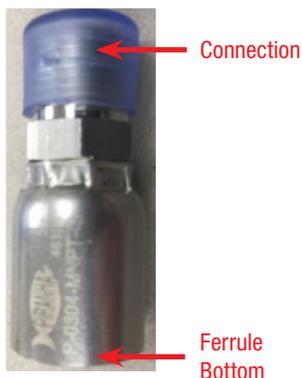


FIGURE 2



FIGURE 3

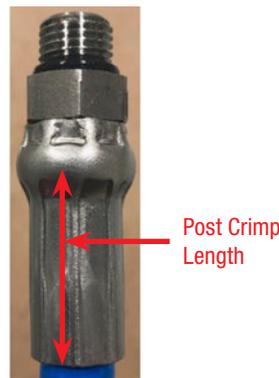


FIGURE 4



All PiranhaFlex Die Selection guidance is based upon Custom Crimp manufactured standard crimpers and dies. Please see the PiranhaFlex product catalog for more details. KuriCrimp, Powered by O+P, standard crimper and die recommendations can be made upon request.

PIRANHAFLEX™ HYDRAULICS

PIRANHAFLEX™ PF321TC

(USING 1-PIECE STAINLESS STEEL FITTINGS)

Ferrule Part Number	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.127 mm	Die & Color	Metric Micrometer Approx	KD100/200 Standard Micrometer Approx	KD100/200 Series Die Selection	#1) Pre Crimp - Crimp position from bottom of ferrule measured up (± 0.025")	#2) Post Crimp Length (in)
* P-03XX	3/16	0.515	* 13.10	13	0.10	99	* KD/D100-13/PURPLE	0.750	0.900
P-04XX	1/4	0.590	14.99	14	0.99	92	KD/D100-14/YELLOW	1.125	1.250

* PF321TC-03 "MUST" be crimped using a KD/D100-13/Purple die or a true 13mm die to achieve a proper crimp

- This is "NOT" a full ferrule crimp and the crimp location is measured from the ferrule bottom up towards the connection (see figures 1 & 2)
- Refer to the above crimp table for proper crimp diameter and set up crimper accordingly. NOTE: the -03 size "MUST" be crimped using a KD/D100-13/Purple die.
- Measure finished crimp length as shown in figure 3. The finish crimp length should be within the +/- tolerances called out in the table above.
- Measure finished crimp diameter (across the flats/roots) (see figure 4). The finish crimp should be within +/- tolerances called out in the table above.
- Both the "post crimp diameter" and "post crimp length" must be measured and within tolerances to assure a proper crimp.

FIGURE 1



FIGURE 2



FIGURE 3

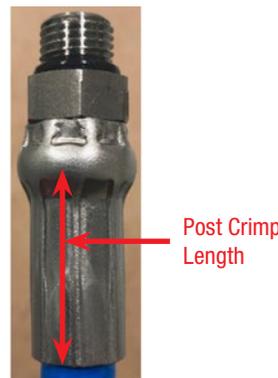


FIGURE 4



All PiranhaFlex Die Selection guidance is based upon Custom Crimp manufactured standard crimpers and dies. Please see the PiranhaFlex product catalog for more details. KuriCrimp, Powered by O+P, standard crimper and die recommendations can be made upon request.

PIRANHAFLEX™
HYDRAULICS

PIRANHAFLEX™ PF267/PF267NC/PF354/PF354NC/PFP354/PFP354NC

(USING 1-PIECE STAINLESS STEEL FITTINGS)

Fitting Series	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.127 mm	Die & Color	Metric Micrometer Approx	KD100/200 Standard Micrometer Approx	KD100/200 Series Die Selection	#1) Pre Crimp - Crimp position from bottom of ferrule measured up	#2) Post Crimp Length (in) (± 0.010")
* P-03XX	3/16	0.530	* 13.46	13	0.46	88	KD/D100/200-13/PURPLE	0.750	0.900
P-04XX	1/4	0.590	14.99	14	0.99	92	KD/D100/200-14/YELLOW	1.250	1.250

* PF267/PF267NC/PF354/PF354NC/PFP354/PFP354NC "MUST" be crimped using a KD/D100-13/Purple die or a true 13mm die to achieve a proper crimp

- This is "NOT" a full ferrule crimp and the crimp location is measured from the ferrule bottom up towards the connection (see figures 1 & 2)
- Refer to the above crimp table for proper crimp diameter and set up crimper accordingly. NOTE: the -03 size "MUST" be crimped using a KD/D100-13/Purple die.
- Measure finished crimp length as shown in figure 3. The finish crimp length should be within the +/- tolerances called out in the table above.
- Measure finished crimp diameter (across the flats/roots) (see figure 4). The finish crimp should be within +/- tolerances called out in the table above.
- Both the "post crimp diameter" and " post crimp length" must be measured and within tolerances to assure a proper crimp.

FIGURE 1



FIGURE 2



FIGURE 3

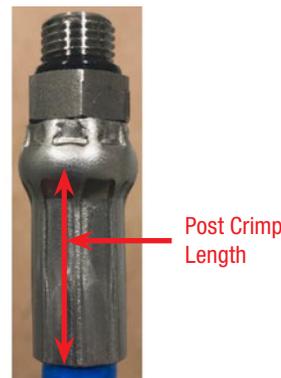


FIGURE 4



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PIRANHAFLEX™ HYDRAULICS

PIRANHAFLEX™ PF344LMT

(USING 1-PIECE STAINLESS STEEL FITTINGS)

Fitting Series	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.127 mm	Die & Color	Metric Micrometer Approx	KD100/200 Standard Micrometer Approx	KD100/200 Series Die Selection	#1) Pre Crimp - Crimp position from bottom of ferrule measured up	#2) Post Crimp Length (in) (± 0.010")
P-04XX	1/4	0.590	14.99	14	0.99	92	KD/D100/200-14/YELLOW	1.250	1.250

PIRANHAFLEX™ PF427/PF427NC

(USING 1-PIECE STAINLESS STEEL FITTINGS)

Fitting Series	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.127 mm	Die & Color	Metric Micrometer Approx	KD100/200 Standard Micrometer Approx	KD100/200 Series Die Selection	#1) Pre Crimp - Crimp position from bottom of ferrule measured up	#2) Post Crimp Length (in) (± 0.010")
P-04XX	1/4	0.590	14.99	14	0.99	92	KD/D100/200-14/YELLOW	1.250	1.250

- This is "NOT" a full ferrule crimp and the crimp location is measured from the ferrule bottom up towards the connection (see figures 1 & 2)
- Refer to the above crimp table for proper crimp diameter and set up crimper accordingly.
- Measure finished crimp length as shown in figure 3. The finish crimp length should be within the +/- tolerances called out in the table above.
- Measure finished crimp diameter (across the flats/roots) (see figure 4). The finish crimp should be within +/- tolerances called out in the table above.
- Both the "post crimp diameter" and "post crimp length" must be measured and within tolerances to assure a proper crimp.

FIGURE 1



FIGURE 2



FIGURE 3

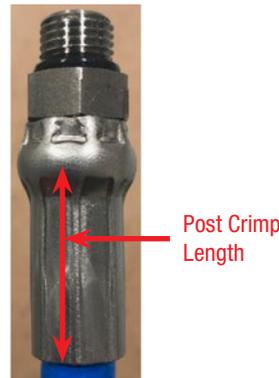


FIGURE 4



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PIRANHAFLEX™
HYDRAULICS

PIRANHAFLEX™ PF628/PF628NC

(USING 1-PIECE STAINLESS STEEL FITTINGS)

Fitting Series	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.127 mm	Die & Color	Metric Micrometer Approx	KD100/200 Standard Micrometer Approx	KD100/200 Series Die Selection	#1) Pre Crimp - Crimp position from bottom of ferrule measured up	#2) Post Crimp Length (in) (± 0.010")
* P-03XX	3/16	0.515	* 13.1	13	0.10	92	KD/D100/200-13/PURPLE	0.750	0.900
P-04XX	1/4	0.560	14.22	14	0.22	98	KD/D100/200-14/YELLOW	1.250	1.250

* PF628/PF628NC "MUST" be crimped using a KD/D100-13/Purple die or a true 13mm die to achieve a proper crimp

- This is "NOT" a full ferrule crimp and the crimp location is measured from the ferrule bottom up towards the connection (see figures 1 & 2)
- Refer to the above crimp table for proper crimp diameter and set up crimper accordingly. NOTE: the -03 size "MUST" be crimped using a KD/D100-13/Purple die.
- Measure finished crimp length as shown in figure 3. The finish crimp length should be within the +/- tolerances called out in the table above.
- Measure finished crimp diameter (across the flats/roots) (see figure 4). The finish crimp should be within +/- tolerances called out in the table above.
- Both the "post crimp diameter" and "post crimp length" must be measured and within tolerances to assure a proper crimp.

FIGURE 1



FIGURE 2



FIGURE 3

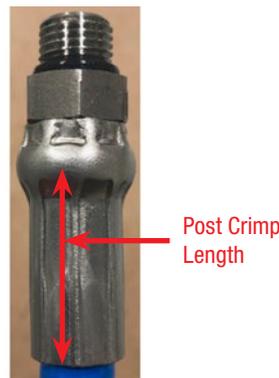


FIGURE 4



All PiranhaFlex Die Selection guidance is based upon Custom Crimp manufactured standard crimpers and dies. Please see the PiranhaFlex product catalog for more details. KuriCrimp, Powered by O+P, standard crimper and die recommendations can be made upon request.

FLEXIBILITY OF THE STANDARD CRIMP SYSTEM

The Standard Crimp System gives the hose assembler options to stock inventory that best maximizes their inventory dollars. The Standard Crimp System two-piece hydraulic ferrules and inserts are ideally suited for distributor, end user, and OEM applications where inventory versatility using common inserts to the extent possible is preferred.

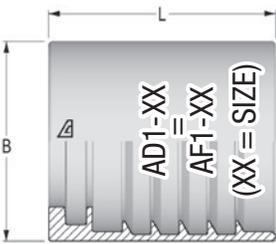
A-Series ferrules and inserts are highly versatile and commonly used on a range of hydraulic and industrial hoses (also see separate industrial crimping guide).

R-Series ferrules and inserts are used on most spiral-wire constructed hydraulic hoses.

W-Series, V-Series, X-Series, and Z-Series ferrules and inserts are typically used in natural resource sector applications and waterblast applications, dependent on the hose type and hose size.

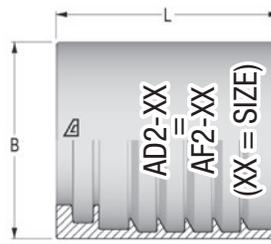
Please reference the Kuriyama Hydraulics master catalog hose pages and this master crimping guide for clear guidance on proper hose and fitting series and size compatibilities.

AF1 FERRULE WITH A-SERIES INSERT



Use with Alfagomma TR1, TR2, TF2, AT3K, AT10K, KK4, and TAJ5 braided-wire constructed hydraulic hoses per specific catalog and crimping guide compatibility guidance.

AF2 FERRULE WITH A-SERIES INSERT



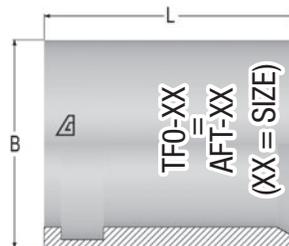
Use with Alfagomma TR1, TR2, TF2, AT3K, AT10K, KK4, and TAJ5 braided-wire constructed hydraulic hoses per specific catalog and crimping guide compatibility guidance.

AF4 FERRULE WITH A-SERIES INSERT

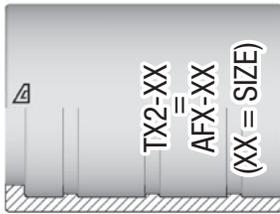


Use with Alfagomma E4K spiral-wire constructed hydraulic hoses per specific catalog and crimping guide compatibility guidance.

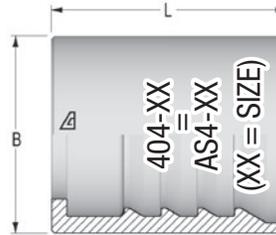
AFT FERRULE WITH A-SERIES INSERT



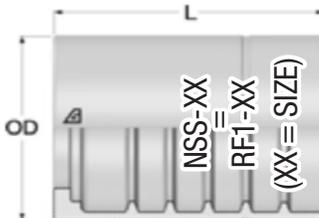
Use with Alfagomma TR14TB and TR14C hydraulic hoses per specific catalog and crimping guide compatibility guidance.

AFX FERRULE WITH A-SERIES INSERT


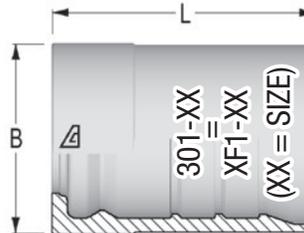
Use with Alfagomma TR4XF and other hydraulic return line hoses, TR5 braid-constructed hydraulic hoses, and industrial hoses (see separate industrial crimping guide) per specific catalog and crimping guide compatibility guidance.

AS4 FERRULE WITH A-SERIES INSERT


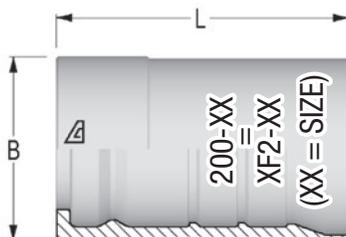
Use with Alfagomma E3K, E4K, E5K, and E6K spiral-wire constructed hydraulic hoses per specific catalog and crimping guide compatibility guidance.

RF1 FERRULE WITH R-SERIES INSERT


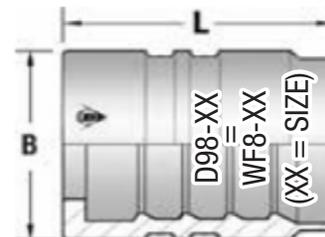
Use with Alfagomma E3K, E4K, E5K, and E6K spiral-wire constructed hydraulic hoses per specific catalog and Crimping guide compatibility guidance.

XF1 FERRULE AND X-SERIES INSERT


Use with Flexor Rig and Waterblast hydraulic hoses per specific catalog and crimping guide compatibility guidance.

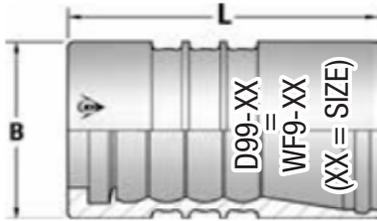
XF2 FERRULE AND X-SERIES INSERT


Use with Waterblast hydraulic hoses per specific catalog and crimping guide compatibility guidance.

WF8 FERRULE AND W-SERIES INSERT


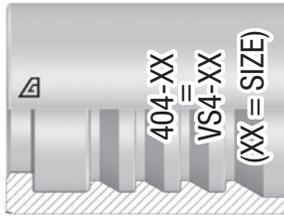
Use with Waterblast hydraulic hoses per specific catalog and crimping guide compatibility guidance.

WF9 FERRULE AND W-SERIES INSERT



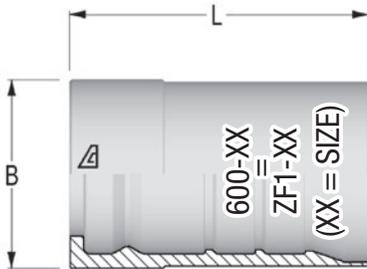
Use with Waterblast hydraulic hoses per specific catalog and crimping guide compatibility guidance.

VS4 FERRULE AND V-SERIES INSERT



Use with Flexor Rig hydraulic hoses per specific catalog and crimping guide compatibility guidance.

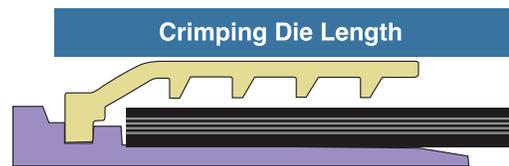
ZF1 FERRULE AND Z-SERIES INSERT



Use with E6K and Flexor Rig Oilwell Cementing hydraulic hoses per specific catalog and crimping guide compatibility guidance.

Note: All Alfagomma crimp fittings require a full length crimp that crimps the entire length of the ferrule including the pre-crimped portion of all one piece fittings. Finished crimps are not to have a bubble at the top or a skirt at the back. Finished crimps should be 100% flat. See illustrations below.

BEFORE CRIMPING



AFTER CRIMPING




TR1MT, TR1HT - R1/1SN MINETUFF and HIGH TEMP
A-SERIES TWO-PIECE NON-SKIVE AF1 FERRULE AND A INSERT

Ferrule Part Number	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
AF1-03	3/16	0.583	14.8	14	0.80
AF1-04	1/4	0.677	17.2	16	1.20
AF1-05	5/16	0.744	18.9	16	2.90
AF1-06	3/8	0.843	21.4	19	2.40
AF1-08	1/2	0.972	24.7	22	2.70
AF1-10	5/8	1.094	27.8	25	2.80
AF1-12	3/4	1.248	31.7	31	0.70
AF1-16	1	1.551	39.4	38	1.40
AF1-20	1 1/4	1.870	47.5	46	1.50
AF1-24	1 1/2	2.142	54.4	54	0.40
AF1-32	2	2.677	68.0	63	5.00


TR1MT, TR1HT - R1/1SN MINETUFF and HIGH TEMP
A-SERIES TWO-PIECE NON-SKIVE AF2 FERRULE AND A INSERT

Ferrule Part Number	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
AF2-16	1	1.527	38.8	38	0.40


TR2MT, TR2HT - R2/2SN MINETUFF and HIGH TEMP
A-SERIES TWO-PIECE NON-SKIVE AF2 FERRULE AND A INSERT

Ferrule Part Number	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
AF2-04	1/4	0.717	18.2	16	2.20
AF2-05	5/16	0.791	20.1	19	1.10
AF2-06	3/8	0.878	22.3	22	0.30
AF2-08	1/2	1.000	25.4	25	0.40
AF2-10	5/8	1.134	28.8	25	3.80
AF2-12	3/4	1.280	32.5	31	1.50
AF2-16	1	1.571	39.9	38	1.90
AF2-20	1 1/4	1.953	49.6	46	3.60
AF2-24	1 1/2	2.232	56.7	54	2.70
AF2-32	2	2.787	70.8	69	1.80


TF2MT, TF2ST, TF2LT, TF2TL - FLEXOPAK 2/R16/2SC MINETUFF and SUPERTUFF and LOW TEMP and TWIN LINE
A-SERIES TWO-PIECE NON-SKIVE AF1 FERRULE AND A INSERT

Ferrule Part Number	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
AF1-04	1/4	0.685	17.4	16	1.40
AF1-05	5/16	0.744	18.9	16	2.90
AF1-06	3/8	0.839	21.3	19	2.30
AF1-08	1/2	0.988	25.1	25	0.10
AF1-10	5/8	1.098	27.9	25	2.90
AF1-12	3/4	1.248	31.7	31	0.70
AF1-16	1	1.567	39.8	38	1.80
AF1-20	1 1/4	1.854	47.1	46	1.10
AF1-24	1 1/2	2.154	54.7	54	0.70
AF1-32	2	2.697	68.5	63	5.50


TF2MT, TF2ST, TF2LT - FLEXOPAK 2/R16/2SC MINETUFF and SUPERTUFF and LOW TEMP
A-SERIES TWO-PIECE NON-SKIVE AF2 FERRULE AND A INSERT

Ferrule Part Number	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
AF2-12	3/4	1.248	31.7	31	0.70
AF2-16	1	1.543	39.2	38	1.20


TF2MT - FLEXOPAK 2/R16/2SC MINETUFF
A-SERIES TWO-PIECE NON-SKIVE AFX FERRULE AND A INSERT

Ferrule Part Number	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
AFX-40	2 1/2	3.091	78.5	77	1.50
AFX-48	3	3.784	96.1	96	0.10


TF2RMT - FLEXOPAK 2/R16 5000 PSI MINETUFF**A-SERIES TWO-PIECE NON-SKIVE AF4R FERRULE AND A INSERT**

Ferrule Part Number	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
AF4R-08	1/2	0.981	24.9	22	2.90


AT3KMT, AT3KST - ALFATECH 3000/R17 MINETUFF and SUPERTUFF**A-SERIES TWO-PIECE NON-SKIVE AF1 FERRULE AND A INSERT**

Ferrule Part Number	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
AF1-04	1/4	0.650	16.5	16	0.50
AF1-06	3/8	0.803	20.4	19	1.40
AF1-08	1/2	0.941	23.9	22	1.90

ALFAGOMMA

E3K, E3KST - ALFABIOTECH EVOLUTION 3K MINETUFF and SUPERTUFF

R-SERIES TWO-PIECE NON-SKIVE RF1 FERRULE AND R INSERT

Ferrule Part Number	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
RF1-20	1 1/4	2.048	52.0	50	2.00
RF1-24	1 1/2	2.252	57.2	54	3.20
RF1-32	2	2.804	71.2	69	2.20

ALFAGOMMA

E3K, E3KST - ALFABIOTECH EVOLUTION 3K MINETUFF and SUPERTUFF

A-SERIES TWO-PIECE EXTERNAL SKIVE AS4 FERRULE AND A INSERT

Ferrule Part Number	Size ID (in)	Wire OD (mm)	Skive Length (mm) OD Only	Skive Tool Number (If Req.)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
AS4-20	1 1/4	41.8 OD	41.0 OD	KS-ESMAND-20	1.961	49.8	46	49.80
AS4-24	1 1/2	48.0 OD	47.0 OD	KS-ESMAND-24	2.303	58.5	58	0.50
AS4-32	2	62.1 OD	60.0 OD	KS-ESMAND-32	2.941	74.7	73	1.70


E4K, E4KST - ALFABIOTECH EVOLUTION 4K MINETUFF and SUPERTUFF
R-SERIES TWO-PIECE NON-SKIVE RF1 FERRULE AND R INSERT

Ferrule Part Number	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
RF1-06	3/8	0.906	23.0	22	1.00
RF1-08	1/2	0.965	24.5	22	2.50
RF1-10	5/8	1.150	29.2	29	0.20
RF1-12	3/4	1.291	32.8	31	1.80
RF1-16	1	1.606	40.8	38	2.80
RF1-20	1 1/4	2.048	52.0	50	2.00
RF1-24	1 1/2	2.225	56.5	54	2.50
RF1-32	2	2.804	71.2	69	2.20


E4K, E4KST - ALFABIOTECH EVOLUTION 4K MINETUFF and SUPERTUFF
A-SERIES TWO-PIECE NON-SKIVE AF4 FERRULE AND A INSERT

Fitting Part Number	Size ID (in)	Insert Length (mm)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
AF4-06	3/8	N/A	0.965	24.5	23	1.50
AF4-08	1/2	N/A	1.110	28.2	25	3.20
AF4-10	5/8	N/A	1.248	31.7	31	0.70
AF4-12	3/4	N/A	1.406	35.7	34	1.70
AF4-16	1	N/A	1.709	43.4	42	1.40


E4K, E4KST - ALFABIOTECH EVOLUTION 4K MINETUFF and SUPERTUFF
A-SERIES TWO-PIECE EXTERNAL-SKIVE AS4 FERRULE AND A INSERT

Fitting Part Number	Size ID (in)	Wire OD (mm)	Skive Length (mm) OD Only	Skive Tool Number (If Req.)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
AS4-06	3/8	17.4 OD	19.0 OD	KS-ESMAND-06	0.866	22.0	22	0.00
AS4-08	1/2	20.2 OD	25.0 OD	KS-ESMAND-08	1.035	26.3	25	1.30
AS4-10	5/8	23.2 OD	28.0 OD	KS-ESMAND-10	1.142	29.0	29	0.00
AS4-12	3/4	26.7 OD	33.0 OD	KS-ESMAND-12	1.272	32.3	31	1.30
AS4-16	1	34.6 OD	37.0 OD	KS-ESMAND-16	1.610	40.9	38	2.90
AS4-20	1 1/4	41.8 OD	41.0 OD	KS-ESMAND-20	1.933	49.1	46	3.10
AS4-24	1 1/2	48.0 OD	47.0 OD	KS-ESMAND-24	2.299	58.4	58	0.40
AS4-32	2	62.1 OD	60.0 OD	KS-ESMAND-32	2.933	74.5	73	1.50

Note: Skive tooling requires either a KSKIVE2 electric or KSKIVE1 manual skive machine to properly function with the skive tooling in chart.


E5K, E5KST - ALFABIOTECH EVOLUTION 5K MINETUFF and SUPERTUFF
R-SERIES TWO-PIECE NON-SKIVE RF1 FERRULE AND R INSERT

Ferrule Part Number	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
RF1-10	5/8	1.150	29.2	29	0.20
RF1-12	3/4	1.307	33.2	31	2.20
RF1-16	1	1.610	40.9	38	2.90
RF1-20	1 1/4	2.048	52.0	50	2.00
RF1-24	1 1/2	2.358	59.9	58	1.90
RF1-32	2	2.874	73.0	69	4.00


E5K, E5KST - ALFABIOTECH EVOLUTION 5K MINETUFF and SUPERTUFF
A-SERIES TWO-PIECE EXTERNAL-SKIVE AS4 FERRULE AND A INSERT

Fitting Part Number	Size ID (in)	Wire OD (mm)	Skive Length (mm) OD Only	Skive Tool Number (If Req.)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
AS4-10	5/8	23.2 OD	28.0 OD	KS-ESMAND-10	1.142	29.0	25	4.00
AS4-12	3/4	27.2 OD	33.0 OD	KS-ESMAND-12	1.283	32.6	31	1.60
AS4-16	1	34.8 OD	37.0 OD	KS-ESMAND-16	1.622	41.2	38	3.20

Note: Skive tooling requires either a KSKIVE2 electric or KSKIVE1 manual skive machine to properly function with the skive tooling in chart.


E6K, E6KST - ALFABIOTECH EVOLUTION 6K MINETUFF and SUPERTUFF
R-SERIES TWO-PIECE NON-SKIVE RF1 FERRULE AND R INSERT

Ferrule Part Number	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
RF1-06	3/8	0.906	23.0	22	1.00
RF1-08	1/2	0.965	24.5	22	2.50
RF1-10	5/8	1.205	30.6	29	1.60
RF1-12	3/4	1.346	34.2	34	0.20
RF1-16	1	1.622	41.2	38	3.20
RF1-20	1 1/4	2.087	53.0	50	3.00
RF1-24	1 1/2	2.358	59.9	58	1.90


E6K, E6KST - ALFABIOTECH EVOLUTION 6K MINETUFF and SUPERTUFF
A-SERIES TWO-PIECE EXTERNAL-SKIVE AS4 FERRULE AND A INSERT

Ferrule Part Number	Size ID (in)	Wire OD (mm)	Skive Length (mm) OD Only	Skive Tool Number (If Req.)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
AS4-04	1/4	14.7 OD	19.0 OD	KS-ESMAND-04	0.720	18.3	16	2.30
AS4-06	3/8	17.5 OD	19.0 OD	KS-ESMAND-06	0.866	22.0	22	0.00
AS4-08	1/2	20.2 OD	25.0 OD	KS-ESMAND-08	1.035	26.3	25	1.30

Note: Skive tooling requires either a KSKIVE2 electric or KSKIVE1 manual skive machine to properly function with the skive tooling in chart.


E6K, E6KST - ALFABIOTECH EVOLUTION 6K MINETUFF and SUPERTUFF
Z-SERIES TWO-PIECE EXTERNAL/INTERNAL-SKIVE ZF1 FERRULE AND Z INSERT

Ferrule Part Number	Size ID (in)	Skive Length (mm)	Skive Tool Number (If Req.)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
ZF1-32	2	87.0 OD 26.0 ID	KS-ESMAND-32 KS-ISMAND-32	2.925	74.3	73	1.30

****Caution! Production crimper with 340+ tons of crimp force required for this ferrule! Call KOA for information and instruction!**

ATTENTION: ALL INTERLOCK FITTINGS REQUIRE INTERNAL AND EXTERNAL SKIVING FOR PROPER ASSEMBLY.

Note: Skive tooling requires either a KSKIVE2 electric or KSKIVE1 manual skive machine to properly function with the skive tooling in chart.


KK4BK/BU K-KLEEN 4000 PRESSURE WASHER
A-SERIES TWO-PIECE NON-SKIVE AF1 FERRULE AND A INSERT

Ferrule Part Number	Size ID (in)	Crimp Diameter (in)	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
AF1-04	1/4	0.650	16.5	16	0.50
AF1-06	3/8	0.803	20.4	19	1.40
AF1-08	1/2	0.941	23.9	22	1.90


TAJ5BK, TAJ5BU - ALFAJET 400 PRESSURE WASHER
A-SERIES TWO-PIECE NON-SKIVE AF1 FERRULE AND A INSERT

Ferrule Part Number	Size ID (in)	Crimp Diameter (in)	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
AF1-04	1/4	0.685	17.4	16	1.40
AF1-06	3/8	0.835	21.2	19	2.20
AF1-08	1/2	0.976	24.8	22	2.80


TR4XF (T634AA) and (T604AA) - R4(Can also be used with
T202, T605, T616,
T632 and T644)**A-SERIES TWO-PIECE NON-SKIVE AFX FERRULE AND A INSERT**

Ferrule Part Number	Size ID (in)	External Diameter Hose (mm)	Crimp Diameter (in)	Crimp Diameter (mm)	Die Size	Metric Micrometer Setting Approx
AFX-12	3/4	27.5	1.268	32.2	31	1.20
		28.0	1.283	32.6		1.60
		28.5	1.295	32.9		1.90
		29.0	1.311	33.3	34	2.30
		29.5	1.327	33.7		2.70
		30.0	1.343	34.1		0.10
		30.5	1.354	34.4		0.40
AFX-16	1	33.5	1.531	38.9	38	0.90
		34.0	1.547	39.3		1.30
		34.5	1.559	39.6		1.60
		35.0	1.575	40.0		2.00
		35.5	1.591	40.4		2.40
		36.0	1.606	40.8		2.80
		36.5	1.618	41.1		3.10
AFX-20	1 1/4	40.5	1.768	44.9	42	2.90
		41.0	1.783	45.3		3.30
		41.5	1.795	45.6		3.60
		42.0	1.811	46.0	46	0.00
		42.5	1.827	46.4		0.40
		43.0	1.843	46.8		0.80
		43.5	1.854	47.1		1.10
AFX-24	1 1/2	46.5	2.016	51.2	50	1.20
		47.0	2.031	51.6		1.60
		47.5	2.043	51.9		1.90
		48.0	2.059	52.3		2.30
		48.5	2.075	52.7		2.70
		49.0	2.091	53.1		3.10
		49.5	2.102	53.4		3.40


TR4XF (T634AA) and (T604AA) - R4

(continued)

 (Can also be used with
 T202, T605, T616,
 T632 and T644)

A-SERIES TWO-PIECE NON-SKIVE AFX FERRULE AND A INSERT

Ferrule Part Number	Size ID (in)	External Diameter Hose (mm)	Crimp Diameter (in)	Crimp Diameter (mm)	Die Size	Metric Micrometer Setting Approx
AFX-32	2	59.5	2.559	65.0	63	2.00
		60.0	2.575	65.4		2.40
		60.5	2.587	65.7		2.70
		61.0	2.602	66.1		3.10
		61.5	2.618	66.5		3.50
		62.0	2.634	66.9		3.90
		62.5	2.646	67.2		4.20
AFX-40	2 1/2	73.5	3.106	78.9	77	1.90
		74.0	3.118	79.2		2.20
		74.5	3.134	79.6		2.60
		75.0	3.146	79.9		2.90
		75.5	3.161	80.3		3.30
		76.0	3.173	80.6		3.60
		75.6	3.189	81.0		4.00


TR5, TR5HT - R5/R5 HIGH TEMP
A-SERIES TWO-PIECE NON-SKIVE AFX FERRULE AND A INSERT

Ferrule Part Number	Hose Series Number	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
AFX-03	TR5-04	3/16	0.654	16.6	16	0.60
AFX-04	TR5-05	1/4	0.728	18.5	16	2.50
AFX-05	TR5-06	5/16	0.819	20.8	19	1.80
AFX-06	TR5-08	13/32	0.925	23.5	22	1.50
AFX-08	TR5-10	1/2	1.031	26.2	25	1.20
AFX-10	TR5-12	5/8	1.185	30.1	29	1.10
AFX-12	TR5-16	7/8	1.362	34.6	34	0.60
AFX-16	TR5-20	1 1/8	1.669	42.4	42	0.40
AFX-20	TR5-24	1 3/8	1.874	47.6	46	1.60
AFX-32	TR5-32	1 13/16	2.441	62.0	60	2.00


TR14TB - R14 PTFE TRUE BORE TUBE/STAINLESS BRAID
A-SERIES TWO-PIECE NON-SKIVE AFT FERRULE AND A INSERT

Ferrule Part Number	Size ID (in)	Crimp Diameter (in)	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
AFT-03	3/16	0.441	11.2	10	1.20
AFT-04	1/4	0.496	12.6	12	0.60
AFT-05	5/16	0.598	15.2	14	1.20
AFT-06	3/8	0.720	18.3	16	2.30
AFT-08	1/2	0.819	20.8	19	1.80
AFT-10	5/8	0.949	24.1	22	2.10
AFT-12	3/4	1.091	27.7	25	2.70
AFT-16	1	1.370	34.8	34	0.80


TR14C - PTFE CONVOLUTED TUBE/STAINLESS BRAID
A-SERIES TWO-PIECE NON-SKIVE AFT FERRULE AND A INSERT

Ferrule Part Number	Size ID (in)	Crimp Diameter (in)	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
AFT-06	3/8	0.720	18.3	16	2.30
AFT-08	1/2	0.819	20.8	19	1.80
AFT-10	5/8	0.949	24.1	22	2.10
AFT-12	3/4	1.091	27.7	25	2.70
AFT-16	1	1.370	34.8	34	0.80
AFT-20	1 1/4	1.654	42.0	38	4.00
AFT-24	1 1/2	1.894	48.1	46	2.10
AFT-32	2	2.402	61.0	58	3.00


ABT2K - FLEXOR RIG 3200 4-SPIRAL CONSTRUCTION**X-SERIES TWO-PIECE EXTERNAL/INTERNAL-SKIVE XF1 FERRULE AND X INSERT**

Ferrule Part Number	Size ID (in)	Skive Length (mm)	Crimp Diameter (in)	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
XF1-40	2 1/2	90.0 OD 33.0 ID	3.472	88.2	86	2.20


ABT2K - FLEXOR RIG 3200 4-SPIRAL CONSTRUCTION**V-SERIES TWO-PIECE EXTERNAL-SKIVE VS4 FERRULE AND V INSERT**

Ferrule Part Number	Size ID (in)	Skive Length (mm) OD only	Crimp Diameter (in)	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
VS4-48	3	80.0	3.740	95.0	86	9.00


AT10KOC - OILWELL CEMENTING 10,000 PSI**Z-SERIES TWO-PIECE EXTERNAL/INTERNAL-SKIVE ZF1 FERRULE AND Z INSERT**

Ferrule Part Number	Size ID (in)	Wire ID/OD	Skive Length (mm)	Crimp Diameter (in)	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
ZF1-32	2	68.3 OD 57.8 ID	87.0 OD 26.0 ID	3.008	76.4	73.0	3.40

****Caution! Production crimper with 350+ tons of crimp force required for this ferrule! Call KOA for information and instruction!**

ATTENTION: ALL INTERLOCK FITTINGS REQUIRE INTERNAL AND EXTERNAL SKIVING FOR PROPER ASSEMBLY.

Note: Skive tooling requires either a KSKIVE2 electric or KSKIVE1 manual skive machine to properly function with the quick change skive tooling.



ALFAGOMMA

WB10 - WATERBLAST 10K

A-SERIES TWO-PIECE EXTERNAL-SKIVE AS4 FERRULE AND A INSERT

Ferrule Part Number	Size ID (in)	Wire OD (mm)	Skive Length (mm)	Crimp Diameter (in)	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
AS4-06	3/8	17.5 OD	19.0 OD	0.866	22.0	19	3.00

Note: Skive tooling requires either a KSKIVE2 electric or KSKIVE1 manual skive machine to properly function with the quick change skive tooling.



ALFAGOMMA

WB10 - WATERBLAST 10K

X-SERIES TWO-PIECE EXTERNAL/INTERNAL SKIVE XF2 FERRULE AND X INSERT

Ferrule Part Number	Size ID (in)	Wire OD/ID (mm)	Skive Length (mm)	Crimp Diameter (in)	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
XF2-08	1/2	20.4 OD 16.4 ID	45.0 OD 13.0 ID	1.083	27.5	25	2.50
XF2-12	3/4	28.4 OD 22.8 ID	52.0 OD 15.0 ID	1.339	34.0	34	0.00
XF2-16	1	35.2 OD 29.7 ID	65.0 OD 17.0 ID	1.650	41.9	38	3.90

ATTENTION: ALL INTERLOCK FITTINGS REQUIRE INTERNAL AND EXTERNAL SKIVING FOR PROPER ASSEMBLY.

Note: Skive tooling requires either a KSKIVE2 electric or KSKIVE1 manual skive machine to properly function with the quick change skive tooling.


WB15 - WATERBLAST 15K**W-SERIES TWO-PIECE EXTERNAL/INTERNAL-SKIVE WF9 FERRULE AND W INSERT**

Ferrule Part Number	Size ID (in)	Wire OD/ID (mm)	Skive Length (mm)	Crimp Diameter (in)	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
WF9-06	3/8	17.8 OD 13.7 ID	33.0 OD 12.0 ID	0.941	23.9	22	1.90
WF9-08	1/2	23.1 OD 17.5 ID	35.0 OD 13.0 ID	1.110	28.2	25	3.20
WF9-12	3/4	31.5 OD 23.6 ID	42.0 OD 14.0 ID	1.390	35.3	34	1.30

ATTENTION: ALL INTERLOCK FITTINGS REQUIRE INTERNAL AND EXTERNAL SKIVING FOR PROPER ASSEMBLY.

Note: Skive tooling requires either a KSKIVE2 electric or KSKIVE1 manual skive machine to properly function with the quick change skive tooling.


WB20 - WATERBLAST 20K**W-SERIES TWO-PIECE EXTERNAL/INTERNAL-SKIVE WF8 FERRULE AND W INSERT**

Ferrule Part Number	Size ID (in)	Wire OD/ID (mm)	Skive Length (mm)	Crimp Diameter (in)	Crimp Diameter (mm) ± 0.1 mm	Die Size	Metric Micrometer Setting Approx
WF8-06	3/8	19.7 OD 12.5 ID	32.0 OD 14.0 ID	1.056	26.8	25	1.80
WF8-08	1/2	24.1 OD 15.3 ID	37.0 OD 15.0 ID	1.248	31.7	31	0.70
WF8-12	3/4	31.7 OD 24.2 ID	49.0 OD 20.0 ID	1.591	40.4	38	2.40

ATTENTION: ALL INTERLOCK FITTINGS REQUIRE INTERNAL AND EXTERNAL SKIVING FOR PROPER ASSEMBLY.

Note: Skive tooling requires either a KSKIVE2 electric or KSKIVE1 manual skive machine to properly function with the quick change skive tooling.

Piranhaflex™ T400 Tool Selector Guide

Refer to the Piranhaflex™ Tool Selector Chart to choose the correct Die Size, Spacer along with the Main Pusher Plate for the correct size Piranhaflex™ hose you are going to crimp.



PF354/PF354NC/PFP354/PFP354NC/PF367/PF367NC/PF267/PF267NC/ PFAN388NC/PFLT364

TWO-PIECE A INSERT + PFR FERRULE

	PFR-03	PFR-04	PFR7-05*	PFR-06	PFR-08
Crimp Spec	12.07	14.22	15.75	17.78	22.23
Die Size	12	14.2	14.2	17.4	22.2
Die Color	Purple	Yellow	Yellow	Orange	Blue
Spacer	None	None	#2	#1	None
Pusher Plate	Nose Up	Nose Up	Nose Down	Nose Down	Nose Up

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



PF321TC

TWO-PIECE A INSERT + PFR FERRULE

	PFR-03	PFR-04	PFR-06	PFR-08
Crimp Spec	12.01	13.84	17.4	22.48
Die Size	12	12	17.4	22.2
Die Color	Purple	Purple	Orange	Blue
Spacer	None	#2	None	#1
Pusher Plate	Nose Up	Nose Down	Nose Up	Nose Down



PF427/PF427NC

TWO-PIECE A INSERT + PFR FERRULE

	PFR-04	PFR-06	PFR-08
Crimp Spec	14.22	17.78	22.48
Die Size	14.2	17.4	22.2
Die Color	Yellow	Orange	Blue
Spacer	None	#1	#1
Pusher Plate	Nose Up	Nose Down	Nose Down



PF344LMT

TWO-PIECE A INSERT + PFR FERRULE

	PFR-04	PFR-06	PFR-08
Crimp Spec	14.22	17.78	22.23
Die Size	14.2	17.4	22.2
Die Color	Yellow	Orange	Blue
Spacer	None	#1	#1
Pusher Plate	Nose Up	Nose Down	Nose Up

All PiranhaFlex Die Selection guidance is based upon Custom Crimp manufactured standard crimpers and dies. Please see the PiranhaFlex product catalog for more details. KuriCrimp, Powered by O+P, standard crimper and die recommendations can be made upon request.

PIRANHAFLEX™
 H Y D R A U L I C S

**PIRANHAFLEX™ PF354/PF354NC/PFP354/PFP354NC/PF367/PF367NC/PF267/
 PF267NC/PFAN388NC/PFLT364 (USING TWO-PIECE)**
A INSERT + PFR FERRULE

Ferrule Part Number	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm)	Die & Color	Metric Micrometer Approx	KD100/200 Standard Micrometer Approx	KD100/200 Series Die Selection
PFR-03	3/16	0.475	12.07	12	0.07	99	KD/D100/200-12/Purple
PFR-04	1/4	0.560	14.22	14	0.22	98	KD/D100/200-14/Yellow
PFR7-05	5/16	0.620	15.75	14	1.75	85	KD/D100/200-14/Yellow
PFR-06	3/8	0.700	17.78	16	1.78	85	KD/D100/200-16/Orange
PFR-08	1/2	0.875	22.23	22	0.23	98	KD/D100/200-22/Blue
PFR-12	3/4	1.150	29.21	27	2.21	81	KD/D100/200-27/Brown

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

PIRANHAFLEX™
 H Y D R A U L I C S

PIRANHAFLEX™ PF151R3/PF415CP (USING TWO-PIECE)
A INSERT + PFR3 FERRULE

Ferrule Part Number	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm)	Die & Color	Metric Micrometer Approx	KD100/200 Standard Micrometer Approx	KD100/200 Series Die Selection
PFR3-04	1/4	0.500	12.70	12	0.70	94	KD/D100/200-12/Purple
PFR3-05	5/16	0.600	15.24	14	1.24	89	KD/D100/200-14/Yellow
PFR3-06	3/8	0.665	16.89	16	0.89	92	KD/D100/200-16/Orange
PFR3-08	1/2	0.780	19.81	19	0.81	93	KD/D100/200-19/Black

All PiranhaFlex Die Selection guidance is based upon Custom Crimp manufactured standard crimpers and dies. Please see the PiranhaFlex product catalog for more details. KuriCrimp, Powered by O+P, standard crimper and die recommendations can be made upon request.


PIRANHAFLEX™ PF321TC (USING TWO-PIECE)
A INSERT + PFR FERRULE

Ferrule Part Number	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm)	Die & Color	Metric Micrometer Approx	KD100/200 Standard Micrometer Approx	KD100/200 Series Die Selection
PFR-03	3/16	0.473	12.01	12	0.01	100	KD/D100/200-12/Purple
PFR-04	1/4	0.545	13.84	12	1.84	84	KD/D100/200-12/Purple


PIRANHAFLEX™ PF528/PF528NC (USING TWO-PIECE)
A INSERT + AFX FERRULE

Ferrule Part Number	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm)	Die & Color	Metric Micrometer Approx	KD100/200 Standard Micrometer Approx	KD100/200 Series Die Selection
AFX-04	1/4	0.700	17.78	16	1.78	85	KD/D100/200-16/Orange
AFX-06	3/8	0.845	21.46	20	1.46	88	KD/D100/200-20/Green
AFX-08	1/2	0.975	24.76	23	1.76	85	KD/D100/200-24/Purple
AFX-12	3/4	1.280	32.51	31	1.51	87	KD/D100/200-31/Yellow

All PiranhaFlex Die Selection guidance is based upon Custom Crimp manufactured standard crimpers and dies. Please see the PiranhaFlex product catalog for more details. KuriCrimp, Powered by O+P, standard crimper and die recommendations can be made upon request.

PIRANHAFLEX™
 HYDRAULICS

PIRANHAFLEX™ PF427/PF427NC (USING TWO-PIECE)
A INSERT + PFR FERRULE

Ferrule Part Number	Size ID (in)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm)	Die & Color	Metric Micrometer Approx	KD100/200 Standard Micrometer Approx	KD100/200 Series Die Selection
PFR-04	1/4	0.560	14.22	14	0.22	95	KD/D100/200-14/Yellow
PFR-06	3/8	0.700	17.78	16	1.78	85	KD/D100/200-16/Orange
PFR-08	1/2	0.885	22.48	22	0.48	96	KD/D100/200-22/Blue

PIRANHAFLEX™
 HYDRAULICS

PIRANHAFLEX™ PF344LMT (USING TWO-PIECE)
A INSERT + PFR/AFX FERRULE

Ferrule Part Number	Size ID (in)	Skive Length (If Req.)	Skive Tool Number (If Req.)	Crimp Diameter (in) ± 0.005"	Crimp Diameter (mm)	Die & Color	Metric Micrometer Approx	KD100 Standard Micrometer Approx	KD100/200 Series Die Selection
PFR-04	1/4	N/R	N/R	0.560	14.22	14	0.22	98	KD/D100/200-14/Yellow
PFR-06	3/8	N/R	N/R	0.700	17.78	16	1.78	85	KD/D100/200-16/Orange
PFR-08	1/2	N/R	N/R	0.875	22.23	22	0.23	98	KD/D100/200-22/Blue
AFX-12	3/4	N/R	N/R	1.225	31.12	31	0.12	99	KD/D100/200-31/Yellow
AFX-16	1	N/R	N/R	1.600	40.64	39	1.64	86	KD/D100/200-39/Red

All PiranhaFlex Die Selection guidance is based upon Custom Crimp manufactured standard crimpers and dies. Please see the PiranhaFlex product catalog for more details. KuriCrimp, Powered by O+P, standard crimper and die recommendations can be made upon request.

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HEADQUARTERS AND SALES OFFICE

150 N Martingale Road Suite 900, Schaumburg, IL 60173-5335
Phone: (847) 755-0360 • Toll-free Fax: (800) 800-0320
International Fax: (847) 885-0996

kuriyama.com sales@kuriyama.com



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14200 Commerce Court
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☎ (847) 755-0360
📠 (800) 800-0320
🌐 kuriyama.com ✉ sales@kuriyama.com

SOUTHWEST WAREHOUSE

KURIYAMA OF AMERICA, INC.
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Houston, TX 77029
☎ (713) 674-8212 OR ☎ (800) 501-6808
📠 (713) 674-5214 OR 📠 (800) 800-5214
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Reno, NV 89521
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📠 (609) 758-0102 OR 📠 (800) 445-7138
✉ sales@kuriyama.com

IN MEXICO

KURIYAMA DE MÉXICO S DE RL DE CV
Av Jose Palomo Martinez No 520-20 Bodega 5
Parque Industrial Omolap
Apodaca, N.I. CP:66633, México
☎ (81) 1086-1870 0 71
🌐 Kuriyama.com.mx 🌐 Kuriyama.com
✉ servicioalcliente@kuriyama.com

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