



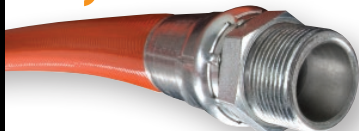
HOSE PRODUCTS, INC.  
A Kuriyama Group Company

# Piranha® "Ready-To-Go" Stock Length Hose Assemblies, Sewer Fittings & Swage Equipment/Tooling



**New Assemblies!**  
**Our newest hose assemblies and fittings are highlighted in yellow below as of May 26, 2021**

**2,500 PSI**



**3,000 PSI**



**4,000 PSI**



**4,000 PSI**



**5,000 PSI**



## SPOR Series - Orange Cover

| Part Number     | Size Code | Hose ID (in) | Male NPTF Nom. Thread Size | Working Press. (Max. psi) | Assembled Length (ft) | Wt. Per Pkg. (lbs) |
|-----------------|-----------|--------------|----------------------------|---------------------------|-----------------------|--------------------|
| SPOR-MM12X400   | 12        | 3/4          | 3/4-14                     | 2500                      | 400                   | 112                |
| SPOR-MM12X500   | 12        | 3/4          | 3/4-14                     | 2500                      | 500                   | 140                |
| SPOR-MM12X600   | 12        | 3/4          | 3/4-14                     | 2500                      | 600                   | 168                |
| SPOR-MM12X800   | 12        | 3/4          | 3/4-14                     | 2500                      | 800                   | 224                |
| SPOR-MM16X200   | 16        | 1            | 1-11 1/2                   | 2500                      | 200                   | 80                 |
| SPOR-MM16X300   | 16        | 1            | 1-11 1/2                   | 2500                      | 300                   | 120                |
| SPOR-MM16X400PR | 16        | 1            | 1-11 1/2                   | 2500                      | 400                   | 160                |
| SPOR-MM16X500PR | 16        | 1            | 1-11 1/2                   | 2500                      | 500                   | 200                |
| SPOR-MM16X600   | 16        | 1            | 1-11 1/2                   | 2500                      | 600                   | 240                |
| SPOR-MM16X600PR | 16        | 1            | 1-11 1/2                   | 2500                      | 600                   | 240                |
| SPOR-MM16X700   | 16        | 1            | 1-11 1/2                   | 2500                      | 700                   | 280                |
| SPOR-MM16X800PR | 16        | 1            | 1-11 1/2                   | 2500                      | 800                   | 320                |
| SPOR-MM16X900   | 16        | 1            | 1-11 1/2                   | 2500                      | 900                   | 370                |
| SPOR-MM16X1000  | 16        | 1            | 1-11 1/2                   | 2500                      | 1,000                 | 400                |
| SPOR-MM20X400   | 20        | 1 1/4        | 1 1/4 - 11 1/2             | 2500                      | 400                   | 241                |
| SPOR-MM20X500   | 20        | 1 1/4        | 1 1/4 - 11 1/2             | 2500                      | 500                   | 295                |
| SPOR-MM20X600   | 20        | 1 1/4        | 1 1/4 - 11 1/2             | 2500                      | 600                   | 354                |
| SPOR-MM20X800WR | 20        | 1 1/4        | 1 1/4 - 11 1/2             | 2500                      | 800                   | 580                |

## SLSPOR Series - Orange Cover

| Part Number     | Size Code | Hose ID (in) | Male NPTF Nom. Thread Size | Working Press. (Max. psi) | Assembled Length (ft) | Wt. Per Pkg. (lbs) |
|-----------------|-----------|--------------|----------------------------|---------------------------|-----------------------|--------------------|
| SLSPOR-MM12X400 | 12        | 3/4          | 3/4-14                     | 2500                      | 400                   | 112                |
| SLSPOR-MM12X500 | 12        | 3/4          | 3/4-14                     | 2500                      | 500                   | 140                |
| SLSPOR-MM16X400 | 16        | 1            | 1 - 11 1/2                 | 2500                      | 400                   | 160                |
| SLSPOR-MM16X500 | 16        | 1            | 1 - 11 1/2                 | 2500                      | 500                   | 200                |
| SLSPOR-MM20X500 | 20        | 1 1/4        | 1 1/4 - 11 1/2             | 2500                      | 500                   | 295                |

## HPBU Series - Blue Cover

| Part Number     | Size Code | Hose ID (in) | Male NPTF Nom. Thread Size | Working Press. (Max. psi) | Assembled Length (ft) | Wt. Per Pkg. (lbs) |
|-----------------|-----------|--------------|----------------------------|---------------------------|-----------------------|--------------------|
| HPBU-MF12X20    | 12        | 3/4          | 3/4-14                     | 3000                      | 20                    | 5                  |
| HPBU-MM12X400   | 12        | 3/4          | 3/4-14                     | 3000                      | 400                   | 116                |
| HPBU-MM12X500   | 12        | 3/4          | 3/4-14                     | 3000                      | 500                   | 145                |
| HPBU-MM12X600   | 12        | 3/4          | 3/4-14                     | 3000                      | 600                   | 174                |
| HPBU-MM12X800PR | 12        | 3/4          | 3/4-14                     | 3000                      | 800                   | 232                |
| HPBU-MM16X500   | 16        | 1            | 1-11 1/2                   | 3000                      | 500                   | 205                |
| HPBU-MM16X500PR | 16        | 1            | 1-11 1/2                   | 3000                      | 500                   | 250                |
| HPBU-MM16X600PR | 16        | 1            | 1-11 1/2                   | 3000                      | 600                   | 246                |
| HPBU-MM16X700   | 16        | 1            | 1-11 1/2                   | 3000                      | 700                   | 301                |
| HPBU-MM16X800   | 16        | 1            | 1-11 1/2                   | 3000                      | 800                   | 328                |
| HPBU-MM16X800PR | 16        | 1            | 1-11 1/2                   | 3000                      | 800                   | 437                |

## LLBU Series - Blue Cover

| Part Number   | Size Code | Hose ID (in) | Male NPTF Nom. Thread Size | Working Press. (Max. psi) | Assembled Length (ft) | Wt. Per Pkg. (lbs) |
|---------------|-----------|--------------|----------------------------|---------------------------|-----------------------|--------------------|
| LLBU-MF08X200 | 08        | 1/2          | 1/2-14                     | 3000                      | 200                   | 32                 |
| LLBU-MM08X200 | 08        | 1/2          | 1/2-14                     | 3000                      | 200                   | 32                 |
| LLBU-MM08X300 | 08        | 1/2          | 1/2-14                     | 3000                      | 300                   | 48                 |
| LLBU-MM08X500 | 08        | 1/2          | 1/2-14                     | 3000                      | 500                   | 80                 |

## LLGR Series - Green Cover

| Part Number   | Size Code | Hose ID (in) | Male NPTF Nom. Thread Size | Working Press. (Max. psi) | Assembled Length (ft) | Wt. Per Pkg. (lbs) |
|---------------|-----------|--------------|----------------------------|---------------------------|-----------------------|--------------------|
| LLGR-MM02X50  | 02        | 1/8          | 1/8-27                     | 4000                      | 50                    | 2                  |
| LLGR-MM02X100 | 02        | 1/8          | 1/8-27                     | 4000                      | 100                   | 4                  |
| LLGR-MM02X150 | 02        | 1/8          | 1/8-27                     | 4000                      | 150                   | 6                  |
| LLGR-MM02X200 | 02        | 1/8          | 1/8-27                     | 4000                      | 200                   | 8                  |

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# Piranha® “Ready-To-Go” Stock Length Hose Assemblies, Sewer Fittings & Swage Equipment/Tooling



## LLGR Series - Green Cover contd.

| Part Number     | Size Code | Hose ID (in) | Male NPTF Nom. Thread Size | Working Press. (Max. psi) | Assembled Length (ft) | Wt. Per Pkg. (lbs) |
|-----------------|-----------|--------------|----------------------------|---------------------------|-----------------------|--------------------|
| LLGR-MM02X250   | 02        | 1/8          | 1/8-27                     | 4000                      | 250                   | 10                 |
| LLGR-MM03X150   | 03        | 3/16         | 3/16-18                    | 4000                      | 150                   | 12                 |
| LLGR-MM04X100   | 04        | 1/4          | 1/4-18                     | 4000                      | 100                   | 6                  |
| LLGR-MM04X150   | 04        | 1/4          | 1/4-18                     | 4000                      | 150                   | 9                  |
| LLGR-MM04X200   | 04        | 1/4          | 1/4-18                     | 4000                      | 200                   | 12                 |
| LLGR-MM04X250   | 04        | 1/4          | 1/4-18                     | 4000                      | 250                   | 19                 |
| LLGR-MM04X300   | 04        | 1/4          | 1/4-18                     | 4000                      | 300                   | 18                 |
| LLGR-MM04X500   | 04        | 1/4          | 1/4-18                     | 4000                      | 500                   | 30                 |
| LLGR-MM06X100   | 06        | 3/8          | 3/8-18                     | 4000                      | 100                   | 11                 |
| LLGR-MM06X150   | 06        | 3/8          | 3/8-18                     | 4000                      | 150                   | 17                 |
| LLGR-MM06X200   | 06        | 3/8          | 3/8-18                     | 4000                      | 200                   | 22                 |
| LLGR-MM06X250   | 06        | 3/8          | 3/8-18                     | 4000                      | 250                   | 28                 |
| LLGR-MM06X300   | 06        | 3/8          | 3/8-18                     | 4000                      | 300                   | 33                 |
| LLGR-MM06X500   | 06        | 3/8          | 3/8-18                     | 4000                      | 500                   | 55                 |
| LLGR-MM08X100   | 08        | 1/2          | 1/2-14                     | 4000                      | 100                   | 16                 |
| LLGR-MM08X150   | 08        | 1/2          | 1/2-14                     | 4000                      | 150                   | 24                 |
| LLGR-MM08X200   | 08        | 1/2          | 1/2-14                     | 4000                      | 200                   | 32                 |
| LLGR-MM08X300   | 08        | 1/2          | 1/2-14                     | 4000                      | 300                   | 48                 |
| LLGR-MM08X400   | 08        | 1/2          | 1/2-14                     | 4000                      | 400                   | 64                 |
| LLGR-MM08X500   | 08        | 1/2          | 1/2-14                     | 4000                      | 500                   | 80                 |
| LLGR-MM08X600   | 08        | 1/2          | 1/2-14                     | 4000                      | 600                   | 96                 |
| LLGR-MS04X200   | 04        | 1/4          | 1/4-18                     | 4000                      | 200                   | 12                 |
| LLGR-MS06X50    | 06        | 3/8          | 3/8-18                     | 4000                      | 50                    | 7                  |
| LLGR-MS06X100   | 06        | 3/8          | 3/8-18                     | 4000                      | 100                   | 11                 |
| LLGR-MS06X150   | 06        | 3/8          | 3/8-18                     | 4000                      | 150                   | 20                 |
| LLGR-MS06X200   | 06        | 3/8          | 3/8-18                     | 4000                      | 200                   | 22                 |
| LLGR-MS06X250   | 06        | 3/8          | 3/8-18                     | 4000                      | 250                   | 28                 |
| LLGR-MS06X300   | 06        | 3/8          | 3/8-18                     | 4000                      | 300                   | 33                 |
| LLGR-MSMS06X300 | 06        | 3/8          | 3/8-18                     | 4000                      | 300                   | 37                 |
| SLGR-MM02X250   | 02        | 1/8          | 1/8-27                     | 4000                      | 250                   | 14                 |
| SLGR-MM04X250   | 04        | 1/4          | 1/4-18                     | 4000                      | 250                   | 15                 |
| SLGR-MM04X300   | 04        | 1/4          | 1/4-18                     | 4000                      | 300                   | 18                 |
| SLGR-MM06X250   | 06        | 3/8          | 3/8-18                     | 4000                      | 250                   | 28                 |
| SLGR-MM06X300   | 06        | 3/8          | 3/8-18                     | 4000                      | 300                   | 33                 |
| SLGR-MM08X200   | 08        | 1/2          | 1/2-14                     | 4000                      | 200                   | 32                 |
| SLGR-MM08X500   | 08        | 1/2          | 1/2-14                     | 4000                      | 500                   | 80                 |

## SHBK Series - Black Cover

| Part Number   | Size Code | Hose ID (in) | Male NPTF Nom. Thread Size | Working Press. (Max. psi) | Assembled Length (ft) | Wt. Per Pkg. (lbs) |
|---------------|-----------|--------------|----------------------------|---------------------------|-----------------------|--------------------|
| SHBK-MM08X400 | 08        | 1/2          | 1/2-14                     | 4000                      | 400                   | 80                 |
| SHBK-MM08X500 | 08        | 1/2          | 1/2-14                     | 4000                      | 500                   | 100                |
| SHBK-MM08X600 | 08        | 1/2          | 1/2-14                     | 4000                      | 600                   | 120                |

## LLRD Series - Red Cover

| Part Number   | Size Code | Hose ID (in) | Male NPTF Nom. Thread Size | Working Press. (Max. psi) | Assembled Length (ft) | Wt. Per Pkg. (lbs) |
|---------------|-----------|--------------|----------------------------|---------------------------|-----------------------|--------------------|
| LLRD-MM04X50  | 04        | 1/4          | 1/4-18                     | 5000                      | 5                     | 5                  |
| LLRD-MM04X100 | 04        | 1/4          | 1/4-18                     | 5000                      | 100                   | 5                  |
| LLRD-MM04X150 | 04        | 1/4          | 1/4-18                     | 5000                      | 200                   | 8                  |
| LLRD-MM04X200 | 04        | 1/4          | 1/4-18                     | 5000                      | 200                   | 10                 |
| LLRD-MM04X300 | 04        | 1/4          | 1/4-18                     | 5000                      | 300                   | 15                 |
| LLRD-MM04X600 | 04        | 1/4          | 1/4-18                     | 5000                      | 600                   | 30                 |



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A Kuriyama Group Company

### **LLRD Series - Red Cover contd.**

| <b>Part Number</b> | <b>Size Code</b> | <b>Hose ID (in)</b> | <b>Male NPTF Nom. Thread Size</b> | <b>Working Press. (Max. psi)</b> | <b>Assembled Length (ft)</b> | <b>Wt. Per Pkg. (lbs)</b> |
|--------------------|------------------|---------------------|-----------------------------------|----------------------------------|------------------------------|---------------------------|
| LLRD-MM06X100      | 06               | 3/8                 | 3/8-18                            | 5000                             | 100                          | 13                        |
| LLRD-MM06X150      | 06               | 3/8                 | 3/8-18                            | 5000                             | 150                          | 20                        |
| LLRD-MM06X200      | 06               | 3/8                 | 3/8-18                            | 5000                             | 200                          | 26                        |
| LLRD-MM06X300      | 06               | 3/8                 | 3/8-18                            | 5000                             | 300                          | 39                        |
| LLRD-MM06X600      | 06               | 3/8                 | 3/8-18                            | 5000                             | 600                          | 78                        |
| LLRD-MM08X10       | 08               | 1/2                 | 1/2-14                            | 5000                             | 10                           | 3                         |
| LLRD-MM08X300      | 08               | 1/2                 | 1/2-14                            | 5000                             | 300                          | 39                        |
| LLRD-MM08X500      | 08               | 1/2                 | 1/2-14                            | 5000                             | 500                          | 67                        |
| LLRD-MM08X600      | 08               | 1/2                 | 1/2-14                            | 5000                             | 600                          | 78                        |

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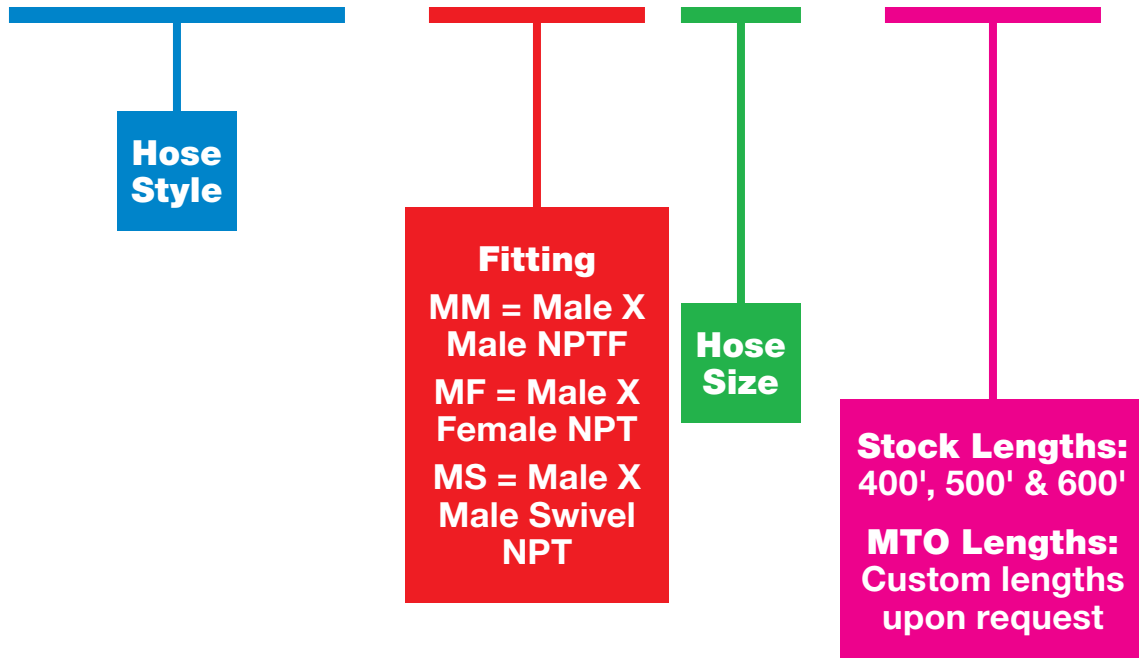


**Kuriyama of America, Inc.**

[www.kuriyama.com](http://www.kuriyama.com)

## Assembly Custom Part Numbering System:

**Example: SPOR-MM16X250**



Please call, fax or email your inquiry to:

Phone:

(847) 755-0360

Fax:

(847) 885-0996

Email:

sales@kuriyama.com

### Company Profile

Company Name \_\_\_\_\_ Contact \_\_\_\_\_

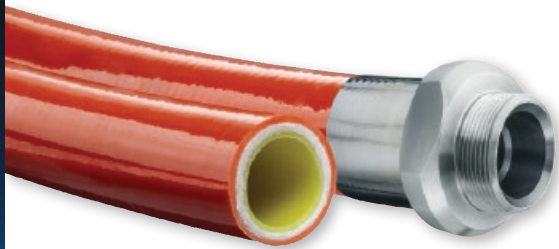
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_ E-mail \_\_\_\_\_

# Custom Bonding Available

## Piranha Twin-Line & Multi-Line Processes

- Bonding of hose sizes from 1/8" through 1 1/2" ID from available stocked hoses. Custom configurations available.
- For non-stock hose items, a minimum order of 2500 ft. is required for twin-line.
- Split-Back ends are provided; typically as lengths of 12", 18" or 24" for ease of coupling and assembly.
- Intermittent bonding can also be provided in lengths to meet your applications needs.
- Special packaging is available as required to meet your application needs.



**Custom Twin and Multi-Line hoses are available on request and are made to order.**

For more information contact Kuriyama of America, Inc.

Phone: (847) 755-0360 • Toll-free FAX: (800) 800-0320 • International FAX: (847) 885-0996

Web Site: [www.kuriyama.com](http://www.kuriyama.com) • E-Mail: [sales@kuriyama.com](mailto:sales@kuriyama.com)

# Sewer & Lateral Line Hose Fittings



## FEMALE ADAPTER FITTINGS

| Hose ID (in) | Use With Hose Series | Female Adapter Part Number | Weight (lbs/each) |
|--------------|----------------------|----------------------------|-------------------|
| 3/8          | LLGR-06              | A06FPX06FS                 | 0.16              |
| 3/8          | SLGR-06              | A06FPX06FS                 | 0.16              |
| 1/2          | LAGR-08              | A08FPX08FS                 | 0.21              |
| 1/2          | LHBK-08              | A08FPX08FS                 | 0.21              |
| 1/2          | LLBU-08              | A08FPX08FS                 | 0.21              |
| 1/2          | LLGR-08              | A08FPX08FS                 | 0.21              |
| 1/2          | LLRD-08              | A08FPX08FS                 | 0.21              |
| 1/2          | SHBK-08              | A08FPX08FS                 | 0.21              |
| 1/2          | SLBU-08              | A08FPX08FS                 | 0.21              |
| 1/2          | SLGR-08              | A08FPX08FS                 | 0.21              |
| 1/2          | SLLHBK-08            | A08FPX08FS                 | 0.21              |
| 1/2          | SLRD-08              | A08FPX08FS                 | 0.21              |
| 1/2          | SLSHBK-08            | A08FPX08FS                 | 0.21              |
| 5/8          | SAOR-10              | A08FPX08FS                 | 0.21              |
| 5/8          | SHBK-10              | A08FPX08FS                 | 0.21              |
| 5/8          | SLSHBK-10            | A08FPX08FS                 | 0.21              |
| 5/8          | SLSPOR-10            | A08FPX08FS                 | 0.21              |
| 5/8          | SPOR-10              | A08FPX08FS                 | 0.21              |
| 3/4          | HPBU-12              | A12FPX12FS                 | 0.34              |
| 3/4          | SLHPBU-12            | A12FPX12FS                 | 0.34              |
| 3/4          | SLSPOR-12            | A12FPX12FS                 | 0.34              |
| 3/4          | SPOR-12              | A12FPX12FS                 | 0.34              |

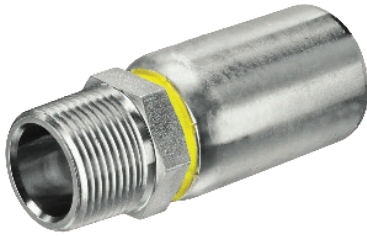


## MALE SWIVEL FITTING

| Hose ID (in) | Use With Hose Series | Male Swivel Part Number | Weight (lbs/each) |
|--------------|----------------------|-------------------------|-------------------|
| 1/4          | LLGR-04              | F04MSNPT4               | 0.17              |
| 1/4          | LLRD-04              | F04MSNPT4               | 0.17              |
| 1/4          | SLGR-04              | F04MSNPT4               | 0.17              |
| 1/4          | SLRD-04              | F04MSNPT4               | 0.17              |
| 3/8          | LLGR-06              | F06MSNPT6               | 0.23              |
| 3/8          | SLGR-06              | F06MSNPT6               | 0.23              |
| 1/2          | LHBK-08              | F08MSNPT8               | 0.35              |
| 1/2          | LLBU-08              | F08MSNPT8               | 0.35              |
| 1/2          | LLGR-08              | F08MSNPT8               | 0.35              |
| 1/2          | LLRD-08              | F08MSNPT8               | 0.35              |
| 1/2          | SLGR-08              | F08MSNPT8               | 0.35              |

**NOTE:** THE USE OF FITTINGS AND ASSEMBLY TOOLING OTHER THAN THAT SUPPLIED BY PIRANHA HOSE PRODUCTS IS AT THE RISK AND LIABILITY OF THE USER.

# Sewer & Lateral Line Hose Fittings

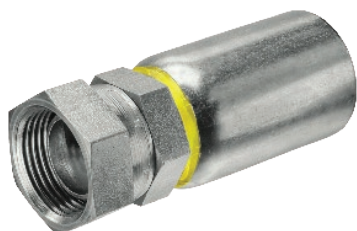


## MALE FITTINGS

| Hose ID (in) | Use With Hose Series | Male Part Number | Weight (lbs/each) |
|--------------|----------------------|------------------|-------------------|
| 1/8          | LLGR-02              | F02NPT2          | 0.04              |
| 1/8          | SLGR-02              | F02NPT2          | 0.04              |
| 3/16X1/8     | LLGR-03              | F03NPT2          | 0.08              |
| 3/16X1/8     | SLGR-03              | F03NPT2          | 0.08              |
| 3/16X1/4     | LLGR-03              | F03NPT4          | 0.10              |
| 3/16X1/4     | SLGR-03              | F03NPT4          | 0.10              |
| 1/4          | LLGR-04              | F04NPT4          | 0.12              |
| 1/4          | LLRD-04              | F04NPT4          | 0.12              |
| 1/4          | SLGR-04              | F04NPT4          | 0.12              |
| 1/4          | SLRD-04              | F04NPT4          | 0.12              |
| 3/8          | LLGR-06              | F06NPT6          | 0.17              |
| 3/8          | LLRD-06              | FCP06NPT-NS      | 0.18              |
| 3/8          | SLGR-06              | F06NPT6          | 0.17              |
| 3/8          | SLRD-06              | FCP06NPT-NS      | 0.18              |
| 1/2          | LAGR-08              | FAR08NPT8        | 0.35              |
| 1/2          | LHBK-08              | F08NPT8          | 0.28              |
| 1/2          | LLBU-08              | F08NPT8          | 0.28              |
| 1/2          | LLGR-08              | F08NPT8          | 0.28              |
| 1/2          | LLRD-08              | F08NPT8          | 0.28              |
| 1/2          | SHBK-08              | FHP08NPT8        | 0.29              |
| 1/2          | SLBU-08              | F08NPT8          | 0.28              |
| 1/2          | SLGR-08              | F08NPT8          | 0.28              |
| 1/2          | SLLHBK-08            | F08NPT8          | 0.28              |
| 1/2          | SLRD-08              | F08NPT8          | 0.28              |
| 1/2          | SLSHBK-08            | FHP08NPT8        | 0.29              |
| 5/8          | SHBK-10              | FHP10NPT8        | 0.34              |
| 5/8          | SLSHBK-10            | FHP10NPT8        | 0.34              |
| 5/8          | SLSPOR-10            | F10NPT8          | 0.36              |
| 5/8          | SPOR-10              | F10NPT8          | 0.36              |
| 3/4          | HABU-12              | FAR12NPT12       | 0.50              |
| 3/4          | HPBU-12              | F12NPT12         | 0.43              |
| 3/4          | SAOR-12              | FAR12NPT12       | 0.50              |
| 3/4          | SLHPBU-12            | F12NPT12         | 0.43              |
| 3/4          | SLSPOR-12            | F12NPT12         | 0.43              |
| 3/4          | SPOR-12              | F12NPT12         | 0.43              |
| 1            | HABU-16              | FAR16NPT16       | 0.79              |
| 1            | HPBU-16              | F16NPT16         | 0.71              |
| 1            | SAOR-16              | FAR16NPT16       | 0.79              |
| 1            | SLHPBU-16            | F16NPT16         | 0.71              |
| 1            | SLSPOR-16            | F16NPT16         | 0.71              |
| 1            | SPOR-16              | F16NPT16         | 0.71              |
| 1 1/4        | SAOR-20              | FAR20NPT20       | 1.00              |
| 1 1/4        | SLSPOR-20            | F20NPT20         | 1.00              |
| 1 1/4        | SPOR-20              | F20NPT20         | 1.00              |

**NOTE:** THE USE OF FITTINGS AND ASSEMBLY TOOLING OTHER THAN THAT SUPPLIED BY PIRANHA HOSE PRODUCTS IS AT THE RISK AND LIABILITY OF THE USER.

# Sewer & Lateral Line Hose Fittings



## FEMALE FITTINGS

| Hose ID (in) | Use With Hose Series | Female Part Number | Weight (lbs/each) |
|--------------|----------------------|--------------------|-------------------|
| 3/8          | LLRD-06              | FCP06FS            | 0.21              |
| 1/2          | LAGR-08              | FAR08FS8           | 0.39              |
| 1/2          | LHBK-08              | F08FS8             | 0.29              |
| 1/2          | LLBU-08              | F08FS8             | 0.29              |
| 1/2          | LLGR-08              | F08FS8             | 0.29              |
| 1/2          | SHBK-08              | FHP08FS8           | 0.30              |
| 1/2          | SLBU-08              | F08FS8             | 0.29              |
| 1/2          | SLGR-08              | F08FS8             | 0.29              |
| 1/2          | SLLHBK-08            | F08FS8             | 0.29              |
| 1/2          | SLSHBK-08            | FHP08FS8           | 0.30              |
| 3/4          | HABU-12              | FAR12FS12          | 0.60              |
| 3/4          | HPBU-12              | F12FS12            | 0.52              |
| 3/4          | SAOR-12              | FAR12FS12          | 0.60              |
| 3/4          | SLHPBU-12            | F12FS12            | 0.52              |
| 3/4          | SLSPOR-12            | F12FS12            | 0.52              |
| 3/4          | SPOR-12              | F12FS12            | 0.52              |
| 1            | HABU-16              | FAR16FS16          | 0.89              |
| 1            | HPBU-16              | F16FS16            | 0.81              |
| 1            | SAOR-16              | FAR16FS16          | 0.89              |
| 1            | SLHPBU-16            | F16FS16            | 0.81              |
| 1            | SLSPOR-16            | F16FS16            | 0.81              |
| 1            | SPOR-16              | F16FS16            | 0.81              |



## MENDERS

| Hose ID (in) | Use With Hose Series | Mender Part Number | Weight (lbs/each) |
|--------------|----------------------|--------------------|-------------------|
| 1/2          | LAGR-08              | FAR08MEND          | 0.40              |
| 1/2          | LHBK-08              | FLL08MEND          | 0.33              |
| 1/2          | LLBU-08              | FLL08MEND          | 0.33              |
| 1/2          | LLGR-08              | FLL08MEND          | 0.33              |
| 1/2          | SHBK-08              | F08MEND            | 0.36              |
| 1/2          | SLBU-08              | FLL08MEND          | 0.33              |
| 1/2          | SLGR-08              | FLL08MEND          | 0.33              |
| 1/2          | SLLHBK-08            | FLL08MEND          | 0.33              |
| 1/2          | SLSHBK-08            | F08MEND            | 0.36              |
| 5/8          | SHBK-10              | FA10MEND           | 0.45              |
| 5/8          | SLSHBK-10            | FA10MEND           | 0.45              |
| 5/8          | SLSPOR-10            | F10MEND            | 0.47              |
| 5/8          | SPOR-10              | F10MEND            | 0.47              |
| 3/4          | HABU-12              | FAR12MEND          | 0.64              |
| 3/4          | HPBU-12              | F12MEND            | 0.54              |
| 3/4          | SAOR-12              | FAR12MEND          | 0.64              |
| 3/4          | SLHPBU-12            | F12MEND            | 0.54              |
| 3/4          | SLSPOR-12            | F12MEND            | 0.54              |
| 3/4          | SPOR-12              | F12MEND            | 0.54              |
| 1            | HABU-16              | FAR16MEND          | 0.99              |
| 1            | HPBU-16              | F16MEND            | 0.73              |
| 1            | SAOR-16              | FAR16MEND          | 0.99              |
| 1            | SLHPBU-16            | F16MEND            | 0.73              |
| 1            | SLSPOR-16            | F16MEND            | 0.73              |
| 1            | SPOR-16              | F16MEND            | 0.73              |
| 1 1/4        | SLSPOR-20            | F20MEND            | 1.04              |
| 1 1/4        | SPOR-20              | F20MEND            | 1.04              |

**NOTE:** WHEN USING A MENDER, 2 DIE SETS ARE REQUIRED TO MEND A HOSE.

**NOTE:** THE USE OF FITTINGS AND ASSEMBLY TOOLING OTHER THAN THAT SUPPLIED BY PIRANHA HOSE PRODUCTS IS AT THE RISK AND LIABILITY OF THE USER.



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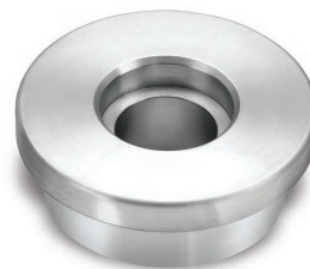


**MADE IN THE  
USA**

**NOTE:** ONE DIE SET AND  
A PUSHER ARE REQUIRED TO  
COMPLETE AN ASSEMBLY.

## MALE PUSHERS

| Hose ID<br>(in) | Use With<br>Hose Series | Male<br>Part Number | Weight<br>(lbs/each) |
|-----------------|-------------------------|---------------------|----------------------|
| 1/8             | LLGR-02                 | DP02TH              | 2.33                 |
| 1/8             | SLGR-02                 | DP02TH              | 2.33                 |
| 3/16            | LLGR-03                 | DP02TH              | 2.33                 |
| 3/16            | SLGR-03                 | DP02TH              | 2.33                 |
| 1/4             | LLGR-04                 | DP04TH              | 2.33                 |
| 1/4             | LLRD-04                 | DP04TH              | 2.33                 |
| 1/4             | SLGR-04                 | DP04TH              | 2.33                 |
| 1/4             | SLRD-04                 | DP04TH              | 2.33                 |
| 3/8             | LLGR-06                 | DP06TH              | 2.33                 |
| 3/8             | SLGR-06                 | DP06TH              | 2.33                 |
| 1/2             | LAGR-08                 | DP08TH              | 2.19                 |
| 1/2             | LHBK-08                 | DP08TH              | 2.23                 |
| 1/2             | LLBU-08                 | DP08TH              | 2.23                 |
| 1/2             | LLGR-08                 | DP08TH              | 2.23                 |
| 1/2             | LLRD-08                 | DP08TH              | 2.23                 |
| 1/2             | SHBK-08                 | DP08TH              | 2.23                 |
| 1/2             | SLBU-08                 | DP08TH              | 2.23                 |
| 1/2             | SLGR-08                 | DP08TH              | 2.23                 |
| 1/2             | SLLHBK-08               | DP08TH              | 2.23                 |
| 1/2             | SLRD-08                 | DP08TH              | 2.23                 |
| 1/2             | SLSHBK-08               | DP08TH              | 2.23                 |
| 5/8             | SHBK-10                 | DP08TH              | 2.23                 |
| 5/8             | SLSHBK-10               | DP08TH              | 2.23                 |
| 5/8             | SLSPOR-10               | DP08TH              | 2.23                 |
| 5/8             | SPOR-10                 | DP08TH              | 2.23                 |
| 3/4             | HABU-12                 | DP12TH              | 2.07                 |
| 3/4             | HPBU-12                 | DP12TH              | 2.11                 |
| 3/4             | SAOR-12                 | DP12TH              | 2.07                 |
| 3/4             | SLHPBU-12               | DP12TH              | 2.11                 |
| 3/4             | SLSPOR-12               | DP12TH              | 2.11                 |
| 3/4             | SPOR-12                 | DP12TH              | 2.11                 |
| 1               | HABU-16                 | DP16TH              | 1.77                 |
| 1               | HPBU-16                 | DP16TH              | 1.81                 |
| 1               | SAOR-16                 | DP16TH              | 1.77                 |
| 1               | SLHPBU-16               | DP16TH              | 1.81                 |
| 1               | SLSPOR-16               | DP16TH              | 1.81                 |
| 1               | SPOR-16                 | DP16TH              | 1.81                 |
| 1 1/4           | SAOR-20                 | DP20TH              | 1.39                 |
| 1 1/4           | SLSPOR-20               | DP20TH              | 1.66                 |
| 1 1/4           | SPOR-20                 | DP20TH              | 1.66                 |



## MALE SWIVEL PUSHERS

| Hose ID (in) | Use With Hose Series | Male Part Number | Weight (lbs/each) |
|--------------|----------------------|------------------|-------------------|
| 1/4          | LLGR-04              | DP04MSTH         | 4.03              |
| 1/4          | LLRD-04              | DP04MSTH         | 4.03              |
| 1/4          | SLGR-04              | DP04MSTH         | 4.03              |
| 1/4          | SLRD-04              | DP04MSTH         | 4.03              |
| 3/8          | LLGR-06              | DP06MSTH         | 3.85              |
| 3/8          | LLRD-06              | DP06MSTH         | 3.85              |
| 3/8          | SLGR-06              | DP06MSTH         | 3.85              |
| 3/8          | SLRD-06              | DP06MSTH         | 3.85              |
| 1/2          | LLBK-08              | DP08MSTH         | 3.86              |
| 1/2          | LLBU-08              | DP08MSTH         | 3.86              |
| 1/2          | LLGR-08              | DP08MSTH         | 3.86              |
| 1/2          | LLRD-08              | DP08MSTH         | 3.86              |
| 1/2          | SLBU-08              | DP08MSTH         | 3.86              |
| 1/2          | SLGR-08              | DP08MSTH         | 3.86              |
| 1/2          | SLLHBK-08            | DP08MSTH         | 3.86              |
| 1/2          | SLRD-08              | DP08MSTH         | 3.86              |

## FEMALE PUSHERS

| Hose ID (in) | Use With Hose Series | Female Part Number | Weight (lbs/each) |
|--------------|----------------------|--------------------|-------------------|
| 1/4          | LLGR-04              | DP04FSTH           | 4.04              |
| 1/4          | LLRD-04              | DP04FSTH           | 4.04              |
| 1/4          | SLGR-04              | DP04FSTH           | 4.04              |
| 1/4          | SLRD-04              | DP04FSTH           | 4.04              |
| 3/8          | LLGR-06              | DP06FSTH           | 3.96              |
| 3/8          | LLRD-06              | DP06FSTH           | 3.96              |
| 3/8          | SLGR-06              | DP06FSTH           | 3.96              |
| 3/8          | SLRD-06              | DP06FSTH           | 3.96              |
| 1/2          | LAGR-08              | DP08FSTH           | 2.75              |
| 1/2          | LHBK-08              | DP08FSTH           | 2.18              |
| 1/2          | LLBU-08              | DP08FSTH           | 2.18              |
| 1/2          | LLGR-08              | DP08FSTH           | 2.18              |
| 1/2          | SHBK-08              | DP08FSTH           | 2.18              |
| 1/2          | SLBU-08              | DP08FSTH           | 2.18              |
| 1/2          | SLGR-08              | DP08FSTH           | 2.18              |
| 1/2          | SLLHBK-08            | DP08FSTH           | 2.18              |
| 1/2          | SLSHBK-08            | DP08FSTH           | 2.18              |
| 3/4          | HABU-12              | DP12FSTH           | 2.47              |
| 3/4          | HPBU-12              | DP12FSTH           | 1.87              |
| 3/4          | SAOR-12              | DP12FSTH           | 2.47              |
| 3/4          | SLHPBU-12            | DP12FSTH           | 1.87              |
| 3/4          | SLSPOR-12            | DP12FSTH           | 1.87              |
| 3/4          | SPOR-12              | DP12FSTH           | 1.87              |
| 1            | HABU-16              | DP16FSTH           | 2.18              |
| 1            | HPBU-16              | DP16FSTH           | 2.18              |
| 1            | SAOR-16              | DP16FSTH           | 2.18              |
| 1            | SLHPBU-16            | DP16FSTH           | 2.18              |
| 1            | SLSPOR-16            | DP16FSTH           | 2.18              |
| 1            | SPOR-16              | DP16FSTH           | 2.18              |

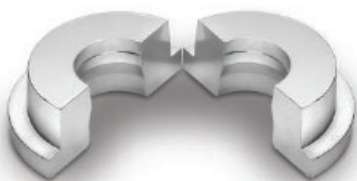
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## DIES

| Hose ID (in) | Use With Hose Series | Dies Part Number | Weight (lbs/each) |
|--------------|----------------------|------------------|-------------------|
| 1/8          | LLGR-02              | DS02TH           | 3.81              |
| 1/8          | SLGR-02              | DS02TH           | 3.81              |
| 3/16         | LLGR-03              | DS03TH           | 3.81              |
| 3/16         | SLGR-03              | DS03TH           | 3.81              |
| 1/4          | LLGR-04              | DS04TH           | 3.81              |
| 1/4          | SLGR-04              | DS04TH           | 3.81              |
| 1/4          | LLRD-04              | DS04TH           | 3.81              |
| 1/4          | SLRD-04              | DS04TH           | 3.81              |
| 3/8          | SLGR-06              | DS06TH           | 3.81              |
| 3/8          | LLGR-06              | DS06TH           | 3.81              |
| 1/2          | LAGR-08              | DSAR08TH         | 3.60              |
| 1/2          | LHBK-08              | DS08TH           | 3.72              |
| 1/2          | LLBU-08              | DS08TH           | 3.72              |
| 1/2          | LLGR-08              | DS08TH           | 3.72              |
| 1/2          | LLRD-08              | DS08TH           | 3.72              |
| 1/2          | SHBK-08              | DSSHPO8TH        | 2.15              |
| 1/2          | SLBU-08              | DS08TH           | 3.72              |
| 1/2          | SLGR-08              | DS08TH           | 3.72              |
| 1/2          | SLLHBK-08            | DS08TH           | 3.72              |
| 1/2          | SLRD-08              | DS08TH           | 3.72              |
| 1/2          | SLSHBK-08            | DSSHPO8TH        | 2.15              |
| 5/8          | SHBK-10              | DSAR08TH         | 2.18              |
| 5/8          | SLSHBK-10            | DSAR08TH         | 2.18              |
| 5/8          | SLSPOR-10            | DS10TH           | 3.61              |
| 5/8          | SPOR-10              | DS10TH           | 3.61              |
| 3/4          | HABU-12              | DSAR12TH         | 3.35              |
| 3/4          | HPBU-12              | DS12TH           | 3.45              |
| 3/4          | SAOR-12              | DSAR12TH         | 3.35              |
| 3/4          | SLHPBU-12            | DS12TH           | 3.45              |
| 3/4          | SLSPOR-12            | DS12TH           | 3.45              |
| 3/4          | SPOR-12              | DS12TH           | 3.45              |
| 1            | HABU-16              | DSAR16TH         | 3.08              |
| 1            | HPBU-16              | DS16TH           | 3.21              |
| 1            | SAOR-16              | DSAR16TH         | 3.08              |
| 1            | SLHPBU-16            | DS16TH           | 3.21              |
| 1            | SLSPOR-16            | DS16TH           | 3.21              |
| 1            | SPOR-16              | DS16TH           | 3.21              |
| 1 1/4        | SAOR-20              | DSAR20TH         | 2.67              |
| 1 1/4        | SLSPOR-20            | DS20TH           | 2.83              |
| 1 1/4        | SPOR-20              | DS20TH           | 2.83              |





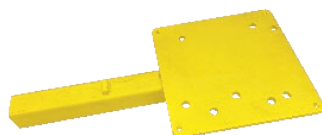
**NEW!** **PHP-110 Hand Operated Hydraulic Swaging Machine**

| Part Number | Description | Weight (lbs/each) |
|-------------|-------------|-------------------|
| SWAGE-HYDTH | HYD SWAGER  | 86.00             |



**NEW!** **Horizontal Swage Tool**

| Part Number  | Description     | Weight (lbs/each) |
|--------------|-----------------|-------------------|
| SWAGE-HANDTH | HORIZNTL SWAGER | 15.00             |



**NEW!** **Swage Hitch Mounting Plate for use with all Piranha Swaging Equipment**

| Part Number   | Description    | Weight (lbs/each) |
|---------------|----------------|-------------------|
| PHPSWAGE-MPTH | MOUNTING PLATE | 17.00             |



**NEW!** **PHP-50 Mini Hydraulic Swaging Machine**

| Part Number | Description     | Weight (lbs/each) |
|-------------|-----------------|-------------------|
| SWAGE-LLTH  | MINI HYD SWAGER | 31                |

**NOTE:** THE USE OF FITTINGS AND ASSEMBLY TOOLING OTHER THAN THAT SUPPLIED BY PIRANHA HOSE PRODUCTS IS AT THE RISK AND LIABILITY OF THE USER.

**NEW!**

## PHP-50 Swage Mini - Horizontal Swage Tool - Male Pusher

| Hose ID (in) | Use With Hose Series | Male Pusher Part Number | Die Set Required | Weight (lbs/each) |
|--------------|----------------------|-------------------------|------------------|-------------------|
| 1/8          | LLGR, SLGR -2        | PHP50-02M               | DS02TH           | 1.50              |
| 3/16         | LLGR, SLGR -3        | PHP50-02M or PHP50-04M  | DS03TH           | 1.50              |
| 1/4          | LLGR, SLGR-4         | PHP50-04M               | DS04TH           | 1.50              |
| 1/4          | LLRD, SLRD -4        | PHP50-04M               | DS04TH           | 1.50              |
| 3/8          | LLGR, SLGR-6         | PHP50-06M               | DS06TH           | 1.50              |
| 3/8          | LLRD, SLRD-6         | PHP50-06M               | DS065TH          | 1.50              |
| 1/2          | LAGR-8               | PHP50-08M               | DSAR08TH         | 1.50              |
| 1/2          | LHBK, SLLHBK-8       | PHP50-08M               | DS08TH           | 1.50              |
| 1/2          | LLBU, SLBU-8         | PHP50-08M               | DS08TH           | 1.50              |
| 1/2          | LLGR, SLGR -8        | PHP50-08M               | DS08TH           | 1.50              |
| 1/2          | LLRD, SLRD-8         | PHP50-08M               | DS08TH           | 1.50              |
| 1/2          | SHBK, SLSHBK-8       | PHP50-08M               | DSSHP08TH        | 1.50              |



**NOTE:** ONE DIE SET AND A PUSHER ARE REQUIRED TO REPAIR AN END FITTING.

**NOTE:** THE USE OF FITTINGS AND ASSEMBLY TOOLING OTHER THAN THAT SUPPLIED BY PIRANHA HOSE PRODUCTS IS AT THE RISK AND LIABILITY OF THE USER.

**NEW!**

## PHP-50 Swage Mini - Horizontal Swage Tool - Female Pusher

| Hose ID (in) | Use With Hose Series | Female Pusher Part Number | Die Set Required | Weight (lbs/each) |
|--------------|----------------------|---------------------------|------------------|-------------------|
| 1/8          | LLGR, SLGR -2        | N/A                       | DS02TH           | 1.50              |
| 3/16         | LLGR, SLGR -3        | PHP50-02FS or PHP50-04FS  | DS03TH           | 1.50              |
| 1/4          | LLGR, SLGR-4         | PHP50-04FS                | DS04TH           | 1.50              |
| 1/4          | LLRD, SLRD -4        | PHP50-04FS                | DS04TH           | 1.50              |
| 3/8          | LLGR, SLGR-6         | PHP50-06FS                | DS06TH           | 1.50              |
| 3/8          | LLRD, SLRD-6         | PHP50-06FS                | DS065TH          | 1.50              |
| 1/2          | LAGR-8               | PHP50-08FS                | DSAR08TH         | 1.50              |
| 1/2          | LHBK, SLLHBK-8       | PHP50-08FS                | DS08TH           | 1.50              |
| 1/2          | LLBU, SLBU-8         | PHP50-08FS                | DS08TH           | 1.50              |
| 1/2          | LLGR, SLGR -8        | PHP50-08FS                | DS08TH           | 1.50              |
| 1/2          | LLRD, SLRD-8         | PHP50-08FS                | DS08TH           | 1.50              |
| 1/2          | SHBK, SLSHBK-8       | PHP50-08FS                | DSSHP08TH        | 1.50              |

**NEW!**

## PHP-50 Swage Mini - Horizontal Swage Tool - Male Swivel Pusher

| Hose ID (in) | Use With Hose Series | Male Swivel Pusher Part Number | Die Set Required | Weight (lbs/each) |
|--------------|----------------------|--------------------------------|------------------|-------------------|
| 1/8          | LLGR, SLGR -2        | NA                             | DS02TH           | 1.50              |
| 3/16         | LLGR, SLGR -3        | N/A                            | DS03TH           | 1.50              |
| 1/4          | LLGR, SLGR-4         | PHP50-04MS                     | DS04TH           | 1.50              |
| 1/4          | LLRD, SLRD -4        | PHP50-04MS                     | DS04TH           | 1.50              |
| 3/8          | LLGR, SLGR-6         | PHP50-06MS                     | DS06TH           | 1.50              |
| 3/8          | LLRD, SLRD-6         | PHP50-06MS                     | DS065TH          | 1.50              |
| 1/2          | LAGR-8               | PHP50-08MS                     | DSAR08TH         | 1.50              |
| 1/2          | LHBK, SLLHBK-8       | PHP50-08MS                     | DS08TH           | 1.50              |
| 1/2          | LLBU, SLBU-8         | PHP50-08MS                     | DS08TH           | 1.50              |
| 1/2          | LLGR, SLGR -8        | PHP50-08MS                     | DS08TH           | 1.50              |
| 1/2          | LLRD, SLRD-8         | PHP50-08MS                     | DS08TH           | 1.50              |
| 1/2          | SHBK, SLSHBK-8       | PHP50-08MS                     | DSSHP08TH        | 1.50              |

[illegible]

# **WARNING!**

**IF YOU SEE “IT” – STOP “IT”: FAILURE TO PROPERLY REPAIR OR REPLACE HOSE AFTER EXPOSING WHITE BRAID REINFORCEMENT LAYER CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.**

Like strands in a bridge cable, each reinforcement fiber plays an exact role in the ultimate burst strength of the hose. A **minor** slice or nick in the reinforcement can result in total hose failure.

The age of the hose **does not matter!** It is unfortunate, but even a hose used (1) time can be damaged in severe applications. These hoses must be immediately removed from service.



**DANGER**  
**READ AND UNDERSTAND**  
**THE FOLLOWING:**

 **Warning:** This product can expose you to chemicals, including lead or titanium dioxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.P65warnings.ca.gov](http://www.P65warnings.ca.gov).

## **HOSE BASICS**

1. NEVER EXCEED THE MAXIMUM WORKING **PRESSURE**.
2. NEVER EXCEED THE MAXIMUM WORKING **TEMPERATURE**.
3. NEVER APPLY PRESSURE TO A **DAMAGED** HOSE.
4. HIGH PRESSURE HOSES ARE DESIGNED TO USE SPECIFIC **FITTINGS** AND **TOOLING**. NEVER USE A DIFFERENT **BRAND** OF FITTINGS OR TOOLING. FAILURE TO DO SO CAN CAUSE DEATH, PERSONAL INJURY AND/OR PROPERTY DAMAGE.
5. A **KINKED**, **CRUSHED**, OR **BLISTERED** HOSE WILL EVENTUALLY FAIL – DO NOT RISK INJURY. IMMEDIATELY REPAIR OR REMOVE HOSE FROM SERVICE.
6. FOLLOW THE PUMP/EQUIPMENT MANUFACTURER'S **INSTRUCTIONS** FOR PRESSURIZED HOSE TESTING.

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All Products sold and distributed by Kuriyama of America, Inc. are in the nature of commodities and they are sold by published specifications and not for particular purposes, uses or applications. Purchaser shall first determine their suitability for the intended purposes, uses or applications and shall either conduct its own engineering studies or tests, or retain qualified engineers, consultants or testing laboratories and consult with them before determining the proper use, suitability or propriety of the merchandise or Products for the intended purposes, uses or applications.

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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.

## Limited Warranty

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.

THIS WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, EXPRESSED, IMPLIED, STATUTORY, OR OTHERWISE CREATED UNDER APPLICABLE LAW INCLUDING, BUT NOT LIMITED TO, THE WARRANTY OF MERCHANTABILITY AND THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL SELLER OR THE MANUFACTURER OF THE PRODUCT BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING LOSS OF PROFITS, WHETHER OR NOT CAUSED BY OR RESULTING FROM THE NEGLIGENCE OF SELLER AND/OR THE MANUFACTURER OF THE PRODUCT, UNLESS SPECIFICALLY PROVIDED HEREIN. IN ADDITION, THIS WARRANTY SHALL NOT APPLY TO ANY PRODUCTS OR PORTIONS THEREOF WHICH HAVE BEEN SUBJECTED TO ABUSE, MISUSE, IMPROPER INSTALLATION, MAINTENANCE, OR OPERATION, ELECTRICAL FAILURE OR ABNORMAL CONDITIONS, AND TO PRODUCTS WHICH HAVE BEEN TAMPERED WITH, ALTERED, MODIFIED, REPAIRED, REWORKED BY ANYONE NOT APPROVED BY SELLER, OR USED IN ANY MANNER INCONSISTENT WITH THE PROVISIONS OF THE "CAUTIONARY STATEMENT" ABOVE OR ANY INSTRUCTIONS OR SPECIFICATIONS PROVIDED WITH OR FOR THE PRODUCT. 05/03/21 REV

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Phone: (847) 755-0360 • Toll-free Fax: (800) 800-0320  
International Fax: (847) 885-0996



[kuriyama.com](http://kuriyama.com)

[sales@kuriyama.com](mailto:sales@kuriyama.com)



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— HOUSTON

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(713) 674-8212 OR (800) 501-6808

(713) 674-5214 OR (800) 800-5214

[sales@kuriyama.com](mailto:sales@kuriyama.com)

### WESTERN WAREHOUSE

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Reno, NV 89521

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[EasternRubber.com](http://EasternRubber.com) [sales@easternrubber.com](mailto:sales@easternrubber.com)

### IN CANADA

#### KURI TEC CORPORATION

140 Roy Boulevard

Brantford, ON, Canada N3R 7K2

(519) 753-6717

(519) 753-7737

[Kuritec.com](http://Kuritec.com) [sales@kuritec.com](mailto:sales@kuritec.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](http://Kuriyama.com.mx) [Kuriyama.com](http://Kuriyama.com)

[servicioalcliente@kuriyama.com](mailto:servicioalcliente@kuriyama.com)



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