Parflex Hose & Tubing Solutions
For Unique & Extreme Applications

The Parflex Division offers an extensive selection of hose, tubing, fittings and accessory products for specific fluid-handling applications. Many of these products have been engineered to handle high temperatures, high pressures and other application specific requirements that common rubber hoses cannot handle.

Parflex product lines and manufacturing capabilities have grown steadily since the 1960's. The Parflex Division headquarters is located in Ravenna, Ohio, with additional manufacturing units in Texas, Wisconsin, North Carolina, Arizona, Germany, France and Mexico. Our worldwide distribution network serves customers throughout the world.

This Quick Reference Guide provides overviews and brief specifications to help you narrow your search for the right Parflex product. It highlights products in the following catalogs:

CAT. 4660 - Parflex Thermoplastic Hose, Tubing, Fittings & Accessories
CAT. 4690 - MH/US Metal Hose
CAT. 5162F - PAGE Fluoropolymer Hose & Fitting Products
CAT. 4150-55 - TexLoc Fluoropolymer Extrusions

To view catalogs, visit www.parker.com/parflex or contact 1-800-C-Parker for an actual copy.

HOSE

Fluoropolymer

919/919B - For chemical transfer lines, coolant, hot oils, adhesive dispensing, medical and/or compressed air and gases. 625-3000 psi. -100°F to 450°F. Sizes 3/16" - 1-1/8" I.D. dependent on type.

919B - Static Dissipative design.

919J/919U - Same applications as 919 except with silicone jacket to protect SS wire reinforcement. 1200 - 3000 psi. -40°F to 450°F. Sizes 3/16" - 5/8" I.D. 919U

919J - Same applications as 919 with added polyurethane jacket to protect SS wire reinforcement. 1000 - 3000 psi. -40°F to 275°F. Sizes 3/16" - 7/8" I.D.

939/939B - Convoluted PTFE hose for extra flexibility. Exceptional kink resistance. Transfer lines for nearly all chemicals. 250 - 1500 psi. -100°F to 450°F. Sizes 3/8" - 2" I.D. 939B - Static Dissipative design.

939B/929B/929BJ - Tight bend radius. General hydraulics, instrumentation lines, sampling/analyzing lines, etc. 1200-3000 psi. -100°F to 450°F. Sizes 3/16" - 7/8" I.D. 929B - Static Dissipative design.

944B/955B (High Pressure) - High pressure transfer lines for nearly all chemicals, compressed air and gases. -65°F to 400°F. Sizes 15/64" - 29/32" I.D. 944B/955B

950B - For high temperature hydraulic lines and transfer lines for nearly all chemicals, compressed air and gases. 4000 psi. -65°F to 400°F. Sizes 15/64" - 29/32" I.D. Multiple SS braids. Factory crimp only.


D6R - Compact design, lighter weight, smaller bend radius and lower force to flex. 3000 psi. -40°F to 250°F*. Sizes 1/4" - 1" I.D.

CUSTOR Fluoropolymer Braided Hose

Core Materials - USP Class VI and FDA Compliant PTFE & PFA Smoothbore or Convoluted Braiding Materials - Stainless Steel, Polypropylene, PVDF, Nomex

Contact PAGE direct at pagequote@parker.com or call 800-423-6551

PAGE Business Unit

Size Range - 1/8" up to 4" I.D. dependent on type

Specialty Hoses - EPDM Rubber Covered Fluoropolymer, Food Transfer, Platinum Cured, Silicone Covered, SS Braid

*Hoses with an asterisk by temperature are limited for use with synthetic hydraulic fluids and water-based fluids. See complete hose descriptions in catalog 4660.
Speciality Applications

**56DH / 568DH**

- Fast response hose for diagnostic applications. Hydraulic / Pneumatic systems where small O.D. is needed. 6000 psi. -40°F to 200°F. Size .090" & .142" I.D.
- 568DH - Non-conductive, non-perforated cover.

**CNG Hose**

- Electrically conductive, refueling hose designed for conveying compressed natural gas. 5000 psi. -40°F to +212°F. Sizes 3/16" - 1" I.D. Perforated cover.

**PAGE Business Unit**

Specialty Fluoropolymer (PTFE) Hose Products

- Food Transfer Hose, PAGE-flex® SBF, Rubber Covered Fluoropolymer Hose, Flare-Seal®, Specialty Braids, Platinum Cured Silicone Products.

**Air Hose & Self Retracting Coils**

- **9A/9M Metal Hose**
  - General purpose hose. Flexible alternative to rigid tubing and pipe. Up to 2700 psi. Cryogenic to +1200°F. *9A* - Sizes 1/4" - 12" I.D. *9M* - compressed corrugation pitch for increased flexibility. Sizes 1/4" - 6" I.D.

- **9H Metal Hose**
  - High pressure hose. Specially designed to maintain extreme pressure and flexibility. Up to 5800 psi. Cryogenic to +1200°F. Sizes 1/4" - 1-1/2" I.D.

- **CNG Hose**
  - Electrically conductive, refueling hose designed for conveying compressed natural gas. 5000 psi. -40°F to 180°F. Sizes 3/16" - 1" I.D. Perforated cover.

**Predator® Sewer Hose**

- **SLH** - Leader hose functions as a pilot line to save the primary hose from abuse. 3000 - 4000 psi. -40°F to 150°F. Sizes 1/2" - 1" I.D.
- **56 Predator®** - 2500 psi. -40°F to 135°F for water. Sizes 3/4" - 1-1/2" I.D.
- **59 Predator®** - 3000 psi. -40°F to 135°F for water. Sizes 3/4" and 1" I.D.

**No-Mar™ Fast-Stor® Air Hose & Assemblies**


**Ultra-Lite >>Superbraid<< Polyurethane Air Hose**

- 63% lighter in weight than rubber products. Extremely tough and abrasion resistant. Available as hose assembly with state-of-the-art strain relief system, allowing hose to bend freely without kinking. Up to 220 psi. -40°F to 165°F. Sizes 1/4" - 3/8" I.D. Transparent Blue and yellow.

**Duraflex™**

- Non-conductive, non-perforated cover, twin line retractable coiled hose. 28% lighter than competing rubber hose products to reduce operator fatigue and extend hose life. 2250 psi. -40°F to +212°F. Size 3/8" I.D. only.

**Predator® Sewer Hose**

- **S4 Predator®** - 4000 psi. -40°F to 135°F for water. Sizes 1/2" and 5/8" I.D.
- **S5 Predator®** - 4000 psi. -40°F to 135°F for water. Sizes 1/2" I.D. only.

**WATER JETTING/LATERAL CLEANING**

- **S4 Predator®** - 4000 psi. -40°F to 135°F for water. Sizes 1/2" and 5/8" I.D.
- **S5 Predator®** - 4000 psi. -40°F to 135°F for water. Sizes 1/2" I.D. only.

**SEWER CLEANING**

- **S6 Predator®** - 2500 psi. -40°F to 135°F for water. Sizes 3/4" - 1-1/2" I.D.
- **S9 Predator®** - 3000 psi. -40°F to 135°F for water. Sizes 3/4" and 1" I.D.

**XDH Hose**

- Designed to be heat formed into custom routings. XDH blends the rigidity of steel tube with the flexibility of a rubber hose. Parflex XDH hydraulic hose is built for high volume, repeatable applications in extreme environmental conditions such as high temperatures, complicated routings, high abrasion, and aggressive fluids. Up to 5,000 psi. -65°F to + 300°F. Sizes 1/4" - 1/2" I.D.

**9A/9M Metal Hose**

- General purpose hose. Flexible alternative to rigid tubing and pipe. Up to 2700 psi. Cryogenic to +1200°F. *9A* - Sizes 1/4" - 12" I.D. *9M* - compressed corrugation pitch for increased flexibility. Sizes 1/4" - 6" I.D.

**9H Metal Hose**

- High pressure hose. Specially designed to maintain extreme pressure and flexibility. Up to 5800 psi. Cryogenic to +1200°F. Sizes 1/4" - 1-1/2" I.D.

**SLH**

- Leader hose functions as a pilot line to save the primary hose from abuse. 3000 - 4000 psi. -40°F to 150°F. Sizes 1/2" - 1" I.D.
<table>
<thead>
<tr>
<th>Hose Type</th>
<th>Description</th>
<th>Temperature &amp; Pressure Specifications</th>
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</thead>
<tbody>
<tr>
<td>HJK Highjack®</td>
<td>High pressure hydraulic lines on jackhose, non-impulse &amp; constant pressure lines. 10,000 psi. -40°F to 150°F. Size 1/4” I.D. only. Factory crimp with male pipe ends only.</td>
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<tr>
<td>HFS Firescreen®/Firescreen II®</td>
<td>Medium pressure hose for hydraulic lines on off-road and industrial applications. Sizes 1/4” - 1” I.D. HFS 1250-3000 psi. -40°F to 250°F.* HFS2 2000-5000 psi. -40°F to 212°F.*</td>
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<tr>
<td>H6</td>
<td>High performance hydraulic hose with the largest temperature range of a medium pressure hose. Low change in length under pressure. 3000 psi. (H604-H608) -70°F to 250°F.* (H610-H612) -50°F to 250°F.* Sizes 1/4” - 3/4” I.D.</td>
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<tr>
<td>R6 Abrasion King®</td>
<td>Industrial medium pressure hydraulic hose with abrasion resistant nylon braided jacket. Braid incorporates a blue plat for easy identification. 3000 psi. (R604-R610) -50°F to 250°F.* (R612-H616) -50°F to 212°F.* Sizes 1/4” - 1” I.D.</td>
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<tr>
<td>HTB Eliminator®</td>
<td>Four (4) spiral wire hose performance in a high tensile two-wire braid construction. 3500 - 7000 psi. -40°F to 212°F.* Sizes 1/4” - 1” I.D.</td>
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<tr>
<td>HOSE Type</td>
<td>Description</td>
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<tr>
<td>510A</td>
<td>Medium pressure service. Excellent impulse life. Compatible with most common hydraulic fluids and refrigerant media. 1000-3000 psi. -40°F to 212°F. Sizes 1/8” - 1” I.D.</td>
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<tr>
<td>515H</td>
<td>Compact, light weight hose for hydraulic &amp; pneumatic systems where a small O.D. is necessary, such as pilot lines and joystick controls. 1500-2175 psi. -40°F to 212°F.* Sizes 3/16” - 1/2” I.D.</td>
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<tr>
<td>520N</td>
<td>Medium pressure hydraulic circuits where 100R1/100R17 hose is specified. 1750-3500 psi depending on type. Sizes 3/16” - 3/4” I.D. dependent on type. -40°F to 212°F.* Sizes 1/8” - 3/4” I.D. 538DM - Nonconductive. Non-perforated cover.</td>
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</tr>
<tr>
<td>53DM/538DM</td>
<td>General Hydraulic Hose - Excellent chemical compatibility for hydraulic and pneumatic systems. 1250-3000 psi. -40°F to 212°F. Sizes 1/8” - 3/4” I.D.</td>
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<tr>
<td>540N</td>
<td>General Hydraulic Hose - Excellent chemical compatibility for hydraulic and pneumatic systems. 1250-3000 psi. -40°F to 212°F. Sizes 1/8” - 3/4” I.D.</td>
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<tr>
<td>55LT</td>
<td>Low temperature hose. Superior flexibility in low temperatures. Excellent for over-the-sheave, lift truck, &amp; cold storage. 1250-3250 psi. -70°F to 212°F.* Sizes 1/8” - 3/4” I.D.</td>
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<tr>
<td>560/563</td>
<td>Medium pressure hydraulic circuits where 100R1/100R17 hose is specified. 1750-3500 psi depending on type. Sizes 3/16” - 3/4” I.D. dependent on type. -40°F to 250°F.* (563-8 -40°F to 212°F.)</td>
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<tr>
<td>573X/575X</td>
<td>Fast response hose for marine and offshore drilling applications. Sizes 3/16” - 1” I.D. 573X - -40°F to 200°F. 3000 psi 575X - -40°F to 212°F. 5000 psi</td>
<td></td>
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<tr>
<td>580N/H580N</td>
<td>High pressure hose for hydraulic and pneumatic circuits and systems. Replaces 100R2 with increased flexibility. 2000-5000 psi. -40°F to 212°F. Sizes 1/4” - 1” I.D. H580N - Non-perforated cover.</td>
<td></td>
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<tr>
<td>588N</td>
<td>High pressure, non-conductive hose for hydraulic and pneumatic circuits and systems. Light weight and small O.D. 2000-5000 psi. -40°F to 212°F. Sizes 1/4” - 1” I.D. Non-perforated cover.</td>
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<tr>
<td>590</td>
<td>General purpose hydraulic hose with 2-wire strength in a 1-wire hose. For use in construction and agriculture equipment, tools, hydrostatic transmissions, refuse vehicles. 2000-5000 psi. -40°F to 250°F.* Sizes 3/16” - 1” I.D.</td>
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</tbody>
</table>

*Hoses with an asterisk by temperature are limited for use with synthetic hydraulic fluids and water-based fluids. See complete hose descriptions in catalog 4660.

SHOP ONLINE at www.airlinehyd.com

800-999-7378
TUBING Products

Polyethylene Tubing

Series E, Instrument Grade; Series EB, Ultraviolet Light Resistant - Chemically resistant, flexible, high-dimensional stability and long-term strength. Working pressure up to 145 psi. -80°F to 150°F. Sizes 1/4" - 5/8" O.D.; 6mm-12mm. Meets FDA, NSF-51 & NSF-61 requirements. Assorted colors.


Polypropylene Tubing


Polyurethane Tubing


Series HU, Series HUM High Durometer Polyether Base - Tough, flexible, and kink-resistant. Excellent hydrolytic stability. Use with vacuum equipment and analytical instrumentation. 95 Shore A durometer or greater. Working pressure up to 300 psi. -40°F to 180°F. Sizes 1/8" - 3/4" O.D.; 4mm-12mm. Assorted colors.

Series HUFR, Microweld™ - Flame retardant, light-weight and abrasion resistant. Ideal for air/water supply on robots, end-of-arm tooling for robotic-welding systems or general automation applications. Working pressure up to 175 psi. -40°F to 180°F. Sizes 1/4" - 1/2" O.D. Meets UL94V-2 flame classification. Assorted colors.

Clear Vinyl Tubing


Fluoropolymer Tubing

Available from TexLoc Business Unit

Materials include USP Class VI and FDA Compliant PTFE, FEP, PFA, High Purity PFA, PVDF, ETFE & ePTFE

Products - Smoothbore, Convoluted, Corrugated, Heatshrink, Retractable Coils, Spiral Cut and Beading

Sizes Range from .005" up to .041" I.D.; 3mm-16mm dependent on type.

Temp. Range from -100°F up to +500°F dependent on material type.

Contact TexLoc direct at texlocquote@parker.com or call 800-423-6551.

SHOP ONLINE at www.airlinehyd.com

800-999-7378
Airbreak Tubing

1120 Type A/B - Nylon. For mobile air brake and air accessory systems. 100% pressure tested. Working pressure up to 150 psi. Sizes 1/8”-3/4” O.D. -40°F to 200°F, dependent on type. Meets or exceeds SAE J844 & D.O.T. FMVSS 49CFR571.106 requirements.


Harnesses & Bundles - Custom-engineered air break tubing harnesses. Used on truck and bus production lines to cut production time and tube scrap. Supplied with pre-cut and pre-formed tube and assembled into a single unit. Sizes 1/8” - 3/4” O.D. For details, view BUL. 4660-Harness.

Brakcoil®, DuoCoil™, DollyCoil™, SliderCoil™, Fifth Wheel Slider

Brakcoil®, DuoCoil™, DollyCoil™, SliderCoil™

SCR Electrically Heated

SCR Electrically Heated Assemblies - Designed for heat and conveying DEF (Diesel Exhaust Fluid) throughout the SCR system. Available in Suction/Throttle Line or PA Pressure Line designs. Both hoses create consistent thaw and are more reliable than traditional coolant heated hoses. Unlike the competition’s electrically heated hose, Parflex SCR hose locks-in the electrical heating wires, providing better protection to the entire hose and with the heated fittings, provides uniform heating throughout the assembly. Sizes 3mm to 6mm. -40°F up to 248°F depending on style. Multiple customization options available. For details, view BUL. 4660-SCR or visit www.scrhose.com.

Hose Protection

Keeping the Air We Breath Clean

Keeping the Air We Breath Clean

Fittings

Parflex offers fittings for all of the hoses listed in this brochure. For details, please view Parflex Catalog 4660 or PAGE Catalog 5162F.

MiniKrimp™

At just 42 lbs., the MiniKrimp™ is the lightest and fastest portable crimper made. The MiniKrimp™ makes factory-style assemblies possible anywhere you need them. Silver die ring and Power unit (Hand pump or Air over Hydraulic) included as standard.

Accessories

Parflex offers a wide variety of spring guards, protective sleeving and armor guard for added abrasion protection. Please view Parflex Catalog 4660 or PAGE Catalog 5162F for details.

SHOP ONLINE at www.airlinehyd.com 800-999-7378
WARNING: Failure or improper selection or improper use of hose, tubing, fittings, assemblies or related accessories (“Products”) can cause death, personal injury and property damage. Possible consequences of failure or improper selection or improper use of these Products include but are not limited to:

• Fittings thrown off at high speed.
• High velocity fluid discharge.
• Explosion or burning of the conveyed fluid.
• Electrocuton from high voltage electric powerlines.
• Contact with suddenly moving or falling objects that are controlled by the conveyed fluid.
• Injections by high-pressure fluid discharge.
• Dangerously whipping Hose.
• Contact with conveyed fluids that may be hot, cold, toxic or otherwise injurious.
• Sparking or explosion caused by static electricity build up or other sources of electricity.
• Sparking or explosion while spraying paint or flammable liquids.
• Injuries resulting from inhalation, ingestion or exposure to fluids.

Marine Hoses

**MSH Marine Steering** - Fast, accurate response hose. Salt water and corrosion resistant 1000 psi. Sizes 5/16" & 3/8" I.D. -40°F to +200°F.

**PTH Power Tilt Hose** - Compact, abrasion resistant, excellent flexibility. Salt water and corrosion resistant. 3000 psi. Size 3/16" I.D. -40°F to +212°F.

Parker Safety Guide for Selecting and Using Hose, Tubing, Fittings and Related Accessories

Publication No. 4400-B.1
Revised: November 2007
### Government & Agency Compliance

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<th>Agency and Specifications</th>
<th>Approved Parflex Products</th>
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#### Flame Resistance:
- **MSHA**
  - 83FR, D6, DT6, HFS, HFS2, HTB, M8, 560, 56, 563, 590, 590 (except -3), 510A (except -4, -5, -6), 510C (except -4), 519N, 520N, 540N, 560N, 573X-3, 575X, 580N, HLB, HJK
- **UL94V-2**
  - PEFR
- **UL94HB**
  - 83FR
  - NN, NB, NNR, NBR (wall thickness above 0.033", contact Parflex for availability)
- **SAE J1942**
  - HFS, HFS2, HTB

#### Dry Food Contact:
- **FDA, CFR21 Part 177**

#### Natural Gas Service:
- **For Vehicles and Dispensing Systems**
  - ANSI IAS NGV4.2 - CSA 5CNG
  - European Safety Standard (TUV) Kraftfahrt-Bundesamt ECE R110 5CNG-3, 5CNG-8 (assemblies from Parker Polyflex Europe only)

#### Potable Water, Liquid Foods:
- **NSF Standard 51**
  - E, PP, NT Series Tubing
- **NSF Standard 61**
  - E Series Tubing

#### Hydraulic Service:
- **SAE 100R1**
  - HFS, 560
- **SAE 100R2**
  - 590, 593, XDH, HFS2
- **SAE 100R7**
- **SAE 100R9**
  - 520N, 528N, 580N, 588N
- **SAE 100R12**
  - M8
- **SAE 100R14**
  - 919, 919J, 919U, 929
- **SAE 100R14B**
  - 919B, 929B, 929BJ
- **SAE 100R16**
  - HFS2, 590, XDH
- **SAE 100R17**
  - D6, D6R, H6, R6, 56, D5H, XDH
- **SAE 100R18**
  - S3DM, S38DM
- **SAE 100R19**
  - XDH

#### WASTEC WRP05-1996 (check revision)
  - S4, S5, S6, S9

#### Transportation Standards:
- **SAE J844, FMVSS106**
  - 1120A, 1120B, BRAKCOIL®, Dollycoil™, Duo-Coil™, Slidercoll™
- **DNV (with approved fittings only)**
  - Det Norski (Norwegian) Veritas
  - Marine Steel Ships, Mobile Offshore and Fixed Offshore Drilling Units
  - 520N, 580N, 588N, HS80N, 518C, 540N, 573X, 575X, 590, 593, 560
- **American Bureau of Shipping (ABS) Product Design Assessment:**
  - 590-4, 590-6, 590-8, 593-12, 593-16

#### Breathing Air Applications:
- **CGA (Compressed Gas Assoc.)-G-7.1 Grade E Breathing Air**
  - 526BA, 527BA
- **NFPA 1901**
  - 526BA, 527BA

*Indicates that products shown have been tested and certified by NSF International to the requirements of NSF Standards 51 and 61. NSF does not express or imply an approval on any product.

For additional product information, contact your Regional Sales Office or call the Parker Help Desk at 1-800-C-Parker
Your complete source for quality tube fittings, hose & hose fittings, brass & composite fittings, quick disconnect couplings, valves and assembly tools, locally available from a worldwide network of authorized distributors.

**Fittings:**
Available in inch and metric sizes covering SAE, BSP, DIN, GAZ, JIS and ISO thread configurations, manufactured from steel, stainless steel, brass, aluminum, nylon and thermoplastic.

**Hose, Tubing and Bundles:**
Available in a wide variety of sizes and materials including rubber, wire-reinforced, thermoplastic, hybrid and custom compounds.

**Worldwide Availability:**
Parker operates Fluid Connectors manufacturing locations and sales offices throughout North America, South America, Europe and Asia-Pacific.

For information, call toll free...
1-800-C-PARKER (1-800-272-7537)

### North American Divisions

**Energy Products Division**
Stafford, TX
phone 281 566 4500
fax 281 530 5353

**Fluid System Connectors Division**
Otsego, MI
phone 269 694 9411
fax 269 694 4614

**Hose Products Division**
Wickliffe, OH
phone 440 943 5700
fax 440 943 3129

**Industrial Hose Division**
Wickliffe, OH
phone 866 810 4673
fax 866 887 6164

**Parflex Division**
Ravenna, OH
phone 330 296 2871
fax 330 296 8433

**Quick Coupling Division**
Minneapolis, MN
phone 763 544 7781
fax 763 544 3418

**Tube Fittings Division**
Columbus, OH
phone 614 279 7070
fax 614 279 7685

### Distribution Service Centers

**Buena Park, CA**
phone 714 522 8840
fax 714 994 1183

**Conyers, GA**
phone 770 929 0330
fax 770 929 0230

**Louisville, KY**
phone 502 937 1322
fax 502 937 4180

**Portland, OR**
phone 503 283 1020
fax 503 283 2201

**Toledo, OH**
phone 419 878 7000
fax 419 878 7001
fax 419 878 7420 (FCG Kit Operations)

**Canada**
Grimsby, ONT
phone 905 945 2274
fax 905 945 3945
(Contact Grimsby for other Service Center locations.)

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4660-ORG GL 2/14